

Hitachi Content Platform Anywhere Enterprise

v7.6

Edge Filer Administration Guide

This document describes how to use HCP Anywhere Enterprise Edge Filer as an Administrator.

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Preface

About this document

Hitachi Content Platform Anywhere Enterprise Edge Filers (HCP Anywhere Enterprise Edge Filers) seamlessly combine collaboration capabilities, local storage, cloud storage, and data protection functionality in a single, cost-effective package.

HCP Anywhere Enterprise Edge Filers are available as software-based virtual gateways in a virtual environment, such as AWS, Azure, ESXi. HCP Anywhere Enterprise Edge Filers enable you to do the following

- Share files across your network
- Synchronize folders across your network and the cloud, including keeping the main storage on the cloud with stubs saved on the HCP Anywhere Enterprise Edge Filer. A stub is a file with a tiny footprint that contains the metadata about the file, such as the file name, size, and modification date. Only the folder and file metadata and not the actual file content is saved locally.

Using the HCP Anywhere Enterprise Edge Filers, connected to a HCP Anywhere Enterprise Portal, data is transparently synchronized and saved between the HCP Anywhere Enterprise Edge Filer and the HCP Anywhere Enterprise Portal Global File System.

This document describes how to manage the HCP Anywhere Enterprise Edge Filers.

Document conventions

This document uses the following typo	graphic convention:
---------------------------------------	---------------------

Convention	Description
Bold	 Indicates text in a window, including window titles, menus, menu options, buttons, fields, and labels. Example: Click OK. Indicates emphasized words in list items.
Italic	Indicates a document title or emphasized words in text.
Monospace	Indicates text that is displayed on screen or entered by the user. Example: pairdisplay -g oradb

Intended audience

This document is intended for HCP Anywhere Enterprise Edge Filer administrators.

Accessing product downloads

Product software, drivers, and firmware downloads are available on Hitachi Vantara Support Connect: <u>https://support.hitachivantara.com/</u>.

Log in and select Product Downloads to access the most current downloads, including updates that may have been made after the release of the product.

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Chapter 1. Introduction to Hitachi Content Platform Anywhere Enterprise Edge Filers

HCP Anywhere Enterprise Edge Filers (HCP Anywhere Enterprise Edge Filers) seamlessly combine collaboration capabilities, local storage, cloud storage, and data protection functionality in a single, cost-effective package.

HCP Anywhere Enterprise Edge Filers are available as software-based virtual gateways in a virtual environment. HCP Anywhere Enterprise Edge Filers enable you to do the following, depending on the license:

- Share files across your network
- Synchronize folders across your network and the cloud, including keeping the main storage on the cloud with stubs saved on the HCP Anywhere Enterprise Edge Filer. A stub is a file with a tiny footprint that contains the metadata about the file, such as the file name, size, and modification date. Only the folder and file metadata are saved locally, not the actual file content.
- Restore multiple file versions saved on the HCP Anywhere Enterprise Portal.
- Access file versions from anywhere, using a web browser.

Using the HCP Anywhere Enterprise Edge Filers, connected to a HCP Anywhere Enterprise Portal, data is transparently synchronized and saved between the HCP Anywhere Enterprise Edge Filer and the HCP Anywhere Enterprise Portal Global File System.

Accessing a HCP Anywhere Enterprise Edge Filer

HCP Anywhere Enterprise Edge Filers are managed via a web-based user interface.

To connect to a HCP Anywhere Enterprise Edge Filer:

- 1. Open a web browser. You can use any of the latest two releases of Google Chrome, Apple Safari, Mozilla Firefox, and Microsoft Edge.
- 2. Enter the HCP Anywhere Enterprise Edge Filer's IP address to navigate to the HCP Anywhere Enterprise Edge Filer.

Logging in

Each time you connect to the interface, your browser displays the Log In page:

HITACHI Login to vGateway-3266	
Username	
Password	
Login	

- 1. Enter your user name and password for accessing the HCP Anywhere Enterprise Edge Filer. The administrator user is defined as part of the initial setup immediately after installation. All other users are added by the administrator, as described in <u>Adding and Editing Users</u>.
 - **Note:** When the HCP Anywhere Enterprise Edge Filer is connected to Active Directory, the user name to log in can be the user name or the Active Directory UPN (User Principal Name).
- 2. Click Login.

As a member of the Administrators or Read Only Administrators user groups, the **Configuration** view **Main > Dashboard** page is displayed.

HITACHI			Configuration Files (1) Hello admin
OO Main	-	Edge Filer Status: vGateway-27bd	~
Dashboard			
This Edge Filer		Gateway-27bd.192.168.19.199	Notifications
Active Sessions		Cache License Cloud Connections Active Migrations	
ටි Cloud Drive	+	100GB EV16 873KB 0 0	
ഫ്ര <u>്</u> Users	+		
୍ଦ୍ତ Shares	+	Edge Filer Activity	
Storage	+	Load Cache Cache Hits Hit Rate Connections Local I/O Cloud I/O 😁 Vie	
Logs	+	Utilization (%)	Everything is OK
🗘 Alerts	+	90	
G Security	+	80	
රිබු Cloud Services	+	70	
🗗 System	+	60	
		50	
vGateway-	:	40	View Log
27bd 7.6.3111.22		20	Colum Millioned
		10	Setup Wizard

Note: If the HCP Anywhere Enterprise Edge Filer is not connected to a HCP Anywhere Enterprise Portal, the HCP Anywhere Enterprise Edge Filer is unlicensed and the Cloud Drive is not available.

Details of logins and login attempts are displayed on each login.

HITACHI		i Welcome to Edge Filer		×	Configuration Files	O. Hello admin ~
00 Main —	Edge Filer Statu	S: vGateway-27bd	inute ago from IP 10.212.134.38			Î
Dashboard	0	,				
This Edge Filer	vGateway-3266.	192.168.28.34			Notifications	
Active Sessions	Cache License	Cloud Connections	Active Migrations			
নি) Cloud Drive +	100GB EV16	895.3MB 0	~			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

To use the HCP Anywhere Enterprise Edge Filer, it must be connected to an HCP Anywhere Enterprise Portal. You connect the HCP Anywhere Enterprise Edge Filer to the HCP Anywhere Enterprise Portal using an administrator account. During the initial HCP Anywhere Enterprise Edge Filer setup you connect the HCP Anywhere Enterprise Edge Filer to the HCP Anywhere Enterprise Portal. If the connection between the HCP Anywhere Enterprise Edge Filer and Portal is down, reconnect using the procedure described in <u>Connecting to a HCP Anywhere Enterprise Portal</u>.

Check the status of the connection, as described in <u>Viewing the Status of the Connection to a HCP</u> <u>Anywhere Enterprise Portal</u>.

Connecting to a HCP Anywhere Enterprise Portal

During the initial setup of the HCP Anywhere Enterprise Edge Filer, described in the installation guide, you connect to the HCP Anywhere Enterprise Portal. This section describes how to connect to the HCP Anywhere Enterprise Portal if it is not connected.

Note: If access using CAC, Common Access Card, has been enabled for the HCP Anywhere Enterprise Portal, the HCP Anywhere Enterprise Edge Filer connects to the HCP Anywhere Enterprise Portal using an activation code instead of the user and password credentials. For details, contact Hitachi Vantara support.

To connect the HCP Anywhere Enterprise Edge Filer to a HCP Anywhere Enterprise Portal:

1. In the **Configuration** view, select **Cloud Services > Status** in the navigation pane. The **HCP Anywhere Enterprise Portal** page is displayed.

HITACHI		Configuration	Files 🕡 Hello admin 🗸
OO Main 〇 Cloud Drive	+ HCP Anywhere Enterprise		
윤 Users	Connect to Services By connecting this Edge Filer to HCP Anywhere Enterprise, you can gain access to Cloud Attached Storage set	rvices.	>
ංදී Shares මූ Storage	+ (
Logs	+		
Security	+		
Status Remote Access			
ඩ් System	+		
vGateway- 27bd 7.6.3111.22	:		

2. Click Connect to Services.

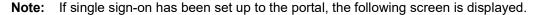
The Account Details screen is displayed.

Connect to Services		×
Account Details		
To connect this device to your CTEI account details.	RA Portal account, enter your	
Portal Address:		
	Ne	t Cancel

- 3. Enter the address of the HCP Anywhere Enterprise Portal, and then click **Next**.
 - **Note:** If the HCP Anywhere Enterprise Portal does not have a valid certificate installed, a warning is displayed to the end user when logging a device into the portal, offering the option to proceed anyway. This warning is presented every time a user connects a device to the portal, until a valid certificate is installed.

The **Sign In** screen is displayed.

Sign in Please enter your credentials for 192.168.19.71 Username: Password:	Connect to Services		×
Username:	Sign in		
	Please enter your credentials	s for 192.168.19.71	
Password:	Username:		
	Password:		
Previous Next Cancel			



	×
Sign in	
To continue sign in to your account at cti.ctera.com	
G Sign in	
Sign in	
< Previous	Cancel

In this case, click **Sign In** and then **Allow** in a separate window when prompted, and then the **Select License** screen is displayed. For HCP Anywhere Enterprise Edge Filers except the HC100, skip the next step. For an HC100, skip the next 2 steps.

- **4.** Enter the HCP Anywhere Enterprise Portal designated user username and password to access the HCP Anywhere EnterprisePortal.
 - **Note:** The designated user is the owner of the cloud folders and data to manage the HCP Anywhere Enterprise Edge Filer connection to the HCP Anywhere Enterprise Portal for all users and not just the current user. This designated user has HCP Anywhere Enterprise Portal read/write administrator permissions.
- 5. Click Next

The Select License screen is displayed.

zateway				
	Туре	Maximum Storage	Maximum RAM	
0	EV4	4.00 TB	2.00 GB	L
0	EV8	8.00 TB	4.00 GB	L
۲	EV16	16.00 TB	8.00 GB	
0	EV32	32.00 TB	16.00 GB	

You are prompted to select the license from those available on the HCP Anywhere Enterprise Portal.

Note: If only one license is available, this license is selected automatically.

6. Select the license and click Next.

The HCP Anywhere Enterprise Edge Filer connects to the HCP Anywhere Enterprise Portal and is added to the HCP Anywhere Enterprise Portal account.

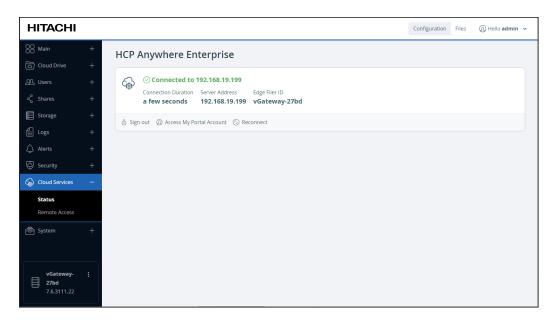
- A success screen is displayed.
- 7. Click Finish.

The HCP Anywhere Enterprise Portal page is displayed, showing that the HCP Anywhere Enterprise Edge Filer is connected to the HCP Anywhere Enterprise Portal.

HITACHI		Configuration File:	s 🕡 Hello admin 🗸
OC Main	+ HCP Anywhere Enterprise		
과 Users 《 Shares	+ Connected to 192.168.19.199 Connection Duration Server Address Edge Filer ID a few seconds 192.168.19.199 VGateway-27bd		
Storage	+		
 ↓ Alerts ↓ Security ↓ Cloud Services 	+ +		
Status Remote Access			
Bystem	+		
vGateway- 27bd 7.6.3111.22			

Viewing the Status of the Connection to a HCP Anywhere Enterprise Portal

The **HCP Anywhere Enterprise Portal** page displays information about the HCP Anywhere Enterprise Edge Filer connection to a HCP Anywhere Enterprise Portal account.



After connecting to a HCP Anywhere Enterprise Portal the HCP Anywhere Enterprise Edge Filer status panel shows the following:

- The status of the connection to the HCP Anywhere Enterprise Portal can be one of the following:
 - **Resolving the portal address** The HCP Anywhere Enterprise Edge Filer is resolving the HCP Anywhere Enterprise Portal address.
 - Connected to portal The HCP Anywhere Enterprise Edge Filer is connected to the HCP Anywhere Enterprise Portal named portal or with the IP address portal, and the connection is currently in use.
 - **Connecting** The HCP Anywhere Enterprise Edge Filer is connecting to the HCP Anywhere Enterprise Portal.
 - **Disconnected** The HCP Anywhere Enterprise Edge Filer is disconnected from the HCP Anywhere Enterprise Portal. You can reconnect as described in Reconnecting and Disconnecting to a HCP Anywhere Enterprise Portal.
 - **Authenticating** The HCP Anywhere Enterprise Edge Filer is authenticating to the HCP Anywhere Enterprise Portal.
 - **Connection Failed** The connection to the HCP Anywhere Enterprise Portal failed.
- The amount of time that the HCP Anywhere Enterprise Edge Filer has been connected to the HCP Anywhere Enterprise Portal.
- The IP address of the HCP Anywhere Enterprise Portal.
- The edge filer identifier used by the portal.

Navigating the HCP Anywhere Enterprise Edge Filer User Interface

HITACHI			Configuration Files (2) Hello admin •
OO Main	-	Edge Filer Status: vGateway-27bd	
Dashboard This Edge Filer Active Sessions		Gache License Cloud Connections Active Migrations	Notifications
Cloud Drive	+	Connections Active migrations 100GB EV16 873KB 0 0	
윤 Users	+		
් Shares	+	Edge Filer Activity	
Storage	+	Load Cache Cache Hits Hit Rate Connections Local I/O Cloud I/O 🔛 Vie	€ C
Logs	+	Utilization (%)	Everything is OK
↓ Alerts	+	90	
Security	+	80	
රු Cloud Services	+	70	
🗗 System	+	60	
		40	View Log
vGateway-	:	30	i view Log
27bd 7.6.3111.22		20	Setup Wizard
		10	

The HCP Anywhere Enterprise Edge Filer user interface consists of the following elements:

- Across the top of the user interface the following is displayed:
 - **Configuration** view Perform configuration tasks.
 - Files view View and manage the files and folders on the HCP Anywhere Enterprise Edge

Filer.

• Your user name. Clicking the user name displays a drop-down menu with the following options:

Change Password – Change the password to access the HCP Anywhere Enterprise Edge Filer with the current user. The password must be at least eight characters and must include at least a letter, digit and special character, such as \sim , @, #, \$, %, ^, &, (.

Logout – Log out of the HCP Anywhere Enterprise Edge Filer.

- The central portion of the user interface displays the content for the selected view.
- The navigation pane displays the menu to access the HCP Anywhere Enterprise Edge Filer configuration options.
- In the bottom left, under the navigation pane, the following information is displayed:
 - The name of the HCP Anywhere Enterprise Edge Filer.
 - The firmware version.
 - Three dots menu with options to restart and shut down the HCP Anywhere Enterprise Edge Filer.
- **Note:** For details about the content of the **Dashboard**, see <u>Monitoring the HCP Anywhere</u> <u>Enterprise Edge Filer</u>.

Configuration View

Use the **Configuration** view to configure the HCP Anywhere Enterprise Edge Filer.

HITACHI			Configuration Files (2) Hello admin ~
OO Main	-	Edge Filer Status: vGateway-27bd	•
Dashboard This Edge Filer Active Sessions		VGateway-27bd.192.168.19.199	Notifications
Cloud Drive		Cache License Cloud Connections Active Migrations 100GB EV16 873KB 0 0	
නී Users			
୍ଟ୍ଦି Shares		Edge Filer Activity	
Storage		Load Cache Cache Hits Hit Rate Connections Local I/O Cloud I/O 😁 Vie	
Logs		Utilization (%) CPU 🔤 RAM	Everything is OK
🗘 Alerts		90	
Security		80	
රුඛු Cloud Services		70	
🔁 System		50	
		40	View Log
vGateway- 27bd		30	
7.6.3111.22		20	Setup Wizard

The view includes the following:

- The left side of the user interface is the navigation pane.
- The central portion of the user interface displays the content for the navigation pane item.

Files View

Use the Files view to manage folders and files on the HCP Anywhere Enterprise Edge Filer.



You can also map to the folders and files, including shared content, from a file manager, Windows File Explorer or macOS Finder, instead of using the **Files** view. For details, see <u>Viewing Content in</u> <u>a File Manager</u>.

The view includes the following:

- Show Shares or Show Volumes. A tree of the Shares or Volumes content: Show Shares – Displays all network shares and the folders they contain. Show Volumes – Displays both volumes and network shares. In this view, you can see and manage folders that are not included in any network share. To change the tree pane view, click the Show Shares/Show Volumes option and then select the desired view.
 Note: The Show Volumes view is available only to Administrators and Read Only Administrators groups.
- View The way the folders are displayed: Details – The folders and files are displayed in a table with additional information such as the file type, size and last modification date. Large lcons – The folders and files are displayed as large icons. Selecting an icon displays the information about the file or folder.

HITACHI	HITACHI Configuration Files (), Hello admin ~							
/cloud/users/p	oortal admin/Books/Edge Filer				С		IT	
Show Shares • ▲ ⊖ root ▲ ⊖ cloud → ⊖ Shared With Me	Iff Verve Actions • Suppose POF POF Tst Draft Tst Draft	PDF PDF 1st Draft 1st Draft	Ist Draft	Final				
⊿ ⊕users ⊿ ⊕portal admin ⊿ ⊕Books		HITACHI	rtal admin/Books/Edge Filer		Configuration		Hello admin	R
Connect C		<pre> Const</pre>	III on * Apple III on * Apple	928 4341 88 1.7 X49 655.4 K8 657.7 K8 657.7 K8 647.2 K8 647.2 K8	Wed, 07 Ji Wed, 07 Ji Wed, 07 Ji Wed, 07 Ji	un 2023 16:15:43 un 2023 16:15:36 un 2023 16:15:37 un 2023 16:15:39 un 2023 16:15:39 un 2023 16:15:39	Sync Status O Stub O Stub O Stub O Stub O Stub O Stub O Stub	
	9 Items		1st Draft - EdgeFilerESite: DOCK Inval. 900ems	107.8 KB		un 2023 16:19:33 un 2023 16:20:25		

When viewing the cloud drive content, each folder and file is marked with an icon indicating its current status:

Folders or files that are in sync.

I = Files that are currently synchronizing.

— Files that are stubs.

In Details view, the icon is displayed in the Sync Status column.

In Large lcons view, the icon is displayed over the file or folder.

Selected item details, such as the last modified date, are displayed at the bottom of the right pane.

- Actions Actions you can perform on a selected folder or file, such as copying a folder and its contents or deleting content. For details, see <u>Actions</u>.
- **Upload** Upload a file to a folder.

Actions

You can perform actions on a selected folder or file, such as copying a folder and its contents or deleting content. Actions are performed either by right-clicking the item or selecting the item and click **Actions** and then selecting the option in the drop-down menu. The list of options is dependent on the item.

HITACHI				Configuration	Files (1) Hello adm	nin v
/cloud/users/p	ortal admin/Books/Ed	ge Filer		ç	CURRENT	1
🕞 Show Shares 🔹	🚻 View • 🔧 Actions • 🕹 Uple	ad				
⊿ 🗁 root	Name Versions Evict	Туре	Size	Last Modified	Sync Status	
⊿ 🗇 cloud ▶ 🗀 Shared With Me	1st Drai 😔 Open Folder	PDF	434.1 KB	Wed, 07 Jun 2023 16:15:43	🔿 Stub	
⊿ ⊖users ⊿ ⊖portal admin	1st Draf	PDF	1.7 MB	Wed, 07 Jun 2023 16:15:36	🔿 Stub	
# 🕀 Books	1st Drai	PDF	658.4 KB	Wed, 07 Jun 2023 16:15:37	🔿 Stub	
⊿ 🗗 Drive → 🗋 Connect	1st Drai	PDF	251.6 KB	Wed, 07 Jun 2023 16:15:36	🔿 Stub	
▹ ☐ Share ∠ Gedge Filer	1st Draf Usage Report	PDF	657.7 KB	Wed, 07 Jun 2023 16:15:39	🔿 Stub	
> □ Final > □ Portal	1st Drate cogerner openseers.pt	f PDF	647.2 KB	Wed, 07 Jun 2023 16:15:41	🔿 Stub	
	1st Draft - CacheAssist.docx	DOCK	241.2 KB	Wed, 07 Jun 2023 16:19:33	Synced	
	1st Draft - EdgeFilerESXI.docx	DOCK	107.8 KB	Wed, 07 Jun 2023 16:19:33	Synced	
	Final			Wed, 07 Jun 2023 16:20:25	Synced	
	Folder Name: Final Last Modified: Wed, 07 Jun 202	3 16:20:25				

Accessing Previous Versions of a File

You can view and restore previous versions of the end-user files and folders residing in the cloud on the HCP Anywhere Enterprise Portal, or locally on the HCP Anywhere Enterprise Edge Filer.

For details, see Accessing Previous File Versions.

Evicting Folder Content From the Cache

You can evict folder contents to increase the free storage in the cache. The folder content is displayed as stubs after the eviction.

To evict a folder:

- 1. In the Files view, in the Show Shares view, navigate to the parent folder.
- 2. Click the Evict action.

The folder content, including subfolder content, is evicted.

Opening a Folder

To open a folder:

- 1. In the Files view, in the Show Shares view, navigate to the parent folder.
- 2. Click the Open Folder action.

The folder content is displayed.

Creating a Folder

To create a folder:

- 1. In the Files view, in the Show Shares view, navigate to the parent folder.
- 2. Click the New Folder action.

The Choose a name window is displayed.

- **3.** Enter a name for the new folder.
- 4. Click OK.

The folder is created.

Selecting All the Content

To select all the content:

- 1. In the Files view, in the Show Shares view, navigate to the parent folder.
- 2. Click the Select All action.

All the content is selected.

Deleting Folders and Files

To delete a folder or file:

- 1. In the Files view, in the Show Shares view, navigate to the folder or file.
- 2. Click the **Delete** action.
- 3. Click Yes to confirm the delete.

Renaming Folders and Files

To rename a folder or file:

- 1. In the Files view, in the Show Shares view, navigate to the folder or file.
- 2. Click the Rename action.
- The **Choose a name** window is displayed.
- **3.** Enter a new name.
- 4. Click OK.

Copying and Moving Folders and Files

You can copy or move files and folders within the HCP Anywhere Enterprise Edge Filer to a different file location.

To copy or move folder and file:

- 1. In the Files view, in the Show Shares view, navigate to the folder or file.
- 2. To copy a file or folder, right-click the folder or file and select **Copy** from the menu.
- 3. To move a file or folder, right-click the folder or file and select **Cut** from the menu.
- 4. Navigate to the target folder, right-click in the folder and select **Paste**.
- **Note:** Standard Windows keyboard shortcuts, such as Ctrl-C to copy a file or folder and Ctrl-V to paste it, can also be used.

Creating Folder Usage Reports

You can create a folder usage report that displays detailed information about the folder. The report is saved to your computer as a comma separated values (*.csv) spreadsheet file.

To create a folder usage report:

- 1. In the Files view, in the Show Shares view, navigate to the folder.
- 2. Click the Usage Report action.

The generated usage report includes the following columns:

- The size in kilobytes of the folder and subfolders.
- The path to the folder.

At the end of the report, the total size is displayed.

Downloading Folders and Files

To download an individual file:

- 1. In the Files view, in the Show Shares view, navigate to the item to download.
- 2. Click the **Download** action.

The item is downloaded to your computer.

Note: Double-clicking the file in **Large** view, or clicking the file in **Details** view either displays the file for viewing or downloads it.

To download entire folders or multiple files:

- 1. In the **Files** view, in the Show Shares view, navigate to the folder.
- 2. In the right pane, select the content to download.
- 3. Click the Download action.

The selected content is downloaded to your computer as a .ZIP file.

Uploading Files

To upload files:

- 1. In the Files view, in the Show Shares view, navigate to the destination folder for the upload.
- 2. Click Upload in the menu bar.

The **Upload files** window is displayed.

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- 3. Click Add files and browse to the file.
 - Note: File names are case-sensitive. For example, *Getting Started.pdf* is treated as a separate file to *getting started.pdf*.
 If you are using Chrome or FireFox as your browser, you can drag-and-drop a file from your computer to the Upload files window.
- 4. If the file already exists, the following window is displayed.

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Up	A file with the same name already exists in this location Select the action you want to perform	
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	⊖ Skip	
	Repeat this answer for all subsequent files	
	ОК Сапсе	
		Close

To overwrite the file with the file on your computer, select the Overwrite option and click OK. **5.** Click Close.

To clear the list of completed uploads:

• In the Upload files window, click Clear Completed.

To cancel an upload:

• In the **Upload files** window, select the upload you want to cancel, and click **Cancel**.

Viewing Content in a File Manager

You can map the HCP Anywhere Enterprise Edge Filer. content in a file manager.

To view the HCP Anywhere Enterprise Edge Filer content from a file manager:

• Use the following address to access the folders and files from a file manager, for example, Windows File Explorer or macOS Finder: \\edge_filer_ip\cloud where edge_filer_ip is the IP address of the HCP Anywhere Enterprise Edge Filer.

When accessing the HCP Anywhere Enterprise Edge Filer from a macOS machine you need to follow the procedure described in <u>macOS: Accessing a HCP Anywhere Enterprise Edge Filer</u>.

The following screenshot shows a HCP Anywhere Enterprise Edge Filer Caching Gateway accessed from Windows File Explorer.

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Both Windows File Explorer and macOS Finder report that the total space and available free space for the mapped drive is a very high number to simulate the caching ability of infinite storage.

Note: The HCP Anywhere Enterprise Edge Filer user interface is case sensitive, so file and folder names with the same characters, but different cases, such as MYFOLDER, MyFolder, and myfolder are different folders. When connecting to the HCP Anywhere Enterprise Edge Filer using Windows File Sharing, SMB protocol, which is not case-sensitive, these folders or files are treated as having the same name.

Chapter 2. Setting Up the HCP Anywhere Enterprise Edge Filer

Setting the HCP Anywhere Enterprise Edge Filer time and language or enabling remote access from a HCP Anywhere Enterprise Portal is performed from within the HCP Anywhere Enterprise Edge Filer user interface.

Setting up the HCP Anywhere Enterprise Edge Filer storage and users is described in <u>Setting Up</u> the Storage and <u>Adding and Editing Users</u>, if this was not done during the initial HCP Anywhere Enterprise Edge Filer set up. Configuring the HCP Anywhere Enterprise Edge Filer for caching is described in <u>Managing Caching</u>.

Viewing HCP Anywhere Enterprise Edge Filer Details

You can view general information about the HCP Anywhere Enterprise Edge Filer, such as the storage used, license details, and the firmware version.

• In the **Configuration** view, select **Main > This Edge Filer** in the navigation pane. The **This Edge Filer** page opens, displaying the product information.

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Dashboard This Edge Filer Active Sessions		This Edge Filer License Storage RAM Han	dware Model ateway		
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vGateway- 27bd 7.6.3111.22					

Setting Up the HCP Anywhere Enterprise Edge Filer

Setting a Name and Location to Identify the Edge Filer

The HCP Anywhere Enterprise Edge Filer name is used as a unique identifier of this HCP Anywhere Enterprise Edge Filer on the network. The name must be different than any other HCP Anywhere Enterprise Edge Filer or PC on the network. The location field enables you to document the HCP Anywhere Enterprise Edge Filer physical location, and is optional.

To configure the HCP Anywhere Enterprise Edge Filer name and location:

 In the Configuration view, select Main > This Edge Filer in the navigation pane. The This Edge Filer page opens, displaying the product information.

HITACHI		Configuration Files (2) Hello admin ~
OO Main	-	This Edge Filer
Dashboard This Edge Filer Active Sessions		This Edge Filer License Storage RAM Hardware Model EV16 99.00GB of 16.00TB licensed 8.00GB of 8.00GB licensed vGateway
ි Cloud Drive		% Change License
ඩුරු Users		
≪ Shares		(i) MAC Address Serial Number 00:50:56:ad:27:bd VMware-42 2d 5b c6 25 2c 44 5a-60 f6 14 3d 89 d4 5f b2
Storage		
Logs		Firmware Version This Edge Filer Name Physical Location
🗘 Alerts		✓ 7.6.3111.22 vGateway-27bd / Not set /
Security		lupdate Firmware
රු Cloud Services		
🗗 System		
vGateway- 27bd 7.6.3111.22		

- 2. To configure the HCP Anywhere Enterprise Edge Filer's name:
 - a) Next to the Device Name field, click the *edit* icon.
 - **b)** Enter the name to represent the HCP Anywhere Enterprise Edge Filer in the network neighborhood.
 - c) Click the *tick* icon.
- **3.** Configure the HCP Anywhere Enterprise Edge Filer's physical location.
 - a) Next to the Physical Location field, click the *edit* icon.
 - **b)** Enter the HCP Anywhere Enterprise Edge Filer's location. For example: "Delaware Branch Office".
 - c) Click the *tick* icon.

Setting the HCP Anywhere Enterprise Edge Filer Time and Date

You can configure the HCP Anywhere Enterprise Edge Filer to obtain the time and date from an NTP server, or you configure the time and date manually.

To configure the HCP Anywhere Enterprise Edge Filer time and date:

 In the Configuration view, select System > Regional Settings in the navigation pane. The Regional Settings page opens, displaying the currently configured date, time, time zone, and language for the HCP Anywhere Enterprise Edge Filer.

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Storage +	💿 Backup Now 🐵 Disable Configuration Backup 🖆 View Log 🖻 View Backup
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🗘 Alerts 🛛 🕂	Import the Edge Filer configuration from a file
🖗 Security +	
ද්ධි Cloud Services +	Export the Edge Filer configuration to a file
🗗 System 🛛 –	
Firmware	(b) Reset to Defaults
Network	Reset the Edge Filer configuration to default values
SNMP	•
Configuration Tools	
Support Report	
Regional Settings	
vGateway :	

2. Click Change date and time settings. The Select Your Time Zone window is displayed.

Select your time zone:	(GMT-05:00) Eastern Time (US , Canada)	-
	Synchronize with a Time Server	
	Next>	Can

- **3.** Select the time zone.
- **4.** To synchronize the HCP Anywhere Enterprise Edge Filer with an NTP server, select the **Synchronize with a Time Server** option.

If you want to manually configure the date and time, clear the **Synchronize with a Time Server** check box.

- 5. Click Next.
 - If you chose to synchronize the HCP Anywhere Enterprise Edge Filer with an NTP server by checking **Synchronize with a Time Server**, the **Time Server Settings** window is

Setting Up the HCP Anywhere Enterprise Edge Filer

displayed with a list of time servers with which the HCP Anywhere Enterprise Edge Filer will synchronize time and date settings.

Time Server Setti Select the Internet time served			×
	⊕ Add		
0.pool.ntp.org		ā	
1.pool.ntp.org		•	
2.pool.ntp.org		.	
< Previous		Next > Cancel	

To add a time server to the list, enter the server's URL in the provided field, and then click **Add**.

To remove a time server from the list, click the ¹/₁₀ icon next to the server to be removed. If you chose to manually configure time and date settings on the HCP Anywhere Enterprise Edge Filer by unchecking **Synchronize with a Time Server**, the **Adjust Date & Time** window is displayed.

Adjust Date 8	Time				
et the date and time	for this device	t.			
Date :		Time :			
07/Jun/2023		5:33 PM	+		
Previous				Next >	Can

Do the following:

٠

In the **Date** field, type the current date, or click to select the date from a calendar. In the **Time** drop-down list, select the current time.

6. Click Next and then Finish.

Configuring the User Interface Language

You can configure the language to be displayed in the HCP Anywhere Enterprise Edge Filer's user interface.

To configure the user interface language:

1. In the **Configuration** view, select **System > Regional Settings** in the navigation pane. The **Regional Settings** page opens, displaying the currently configured date, time, time zone, and language for the HCP Anywhere Enterprise Edge Filer.

HITACHI		Configuration Files (2) Hello admin ~
OD Main 〇〇 Cloud Drive	+ +	Configuration Tools
ඩු Users දේ Shares		O Configuration Backup is Active To restore configuration backup click "View Backup" Last Backup Backup Result Next Backup Nov 26, 2023 9:07 PM O Success in 10 hours
Storage		③ Backup Now ④ Disable Configuration Backup 🗐 View Log 🕑 View Backup
↓ Alerts		Import Import the Edge Filer configuration from a file
G Cloud Services	+	Export Export >
Firmware Network	-	Reset to Defaults Reset the Edge Filer configuration to default values
SNMP Configuration To Support Report Regional Settings	ols	

2. Click Change Language.

The Change Language window is displayed.

- 3. Select the language from the drop-down list.
- 4. Click Save.

Setting Up the HCP Anywhere Enterprise Edge Filer

Configuring Access to a Proxy Server

The HCP Anywhere Enterprise Edge Filer can be configured to connect to a HCP Anywhere Enterprise Portal via a proxy server. HTTPS proxies that support the CONNECT method may be used.

To configure proxy settings:

1. In the **Configuration** view, select **System > Network** in the navigation pane. The **Network** page is displayed.

HITACHI		(Configuration	Files	(1) Hello adı
OO Main	+	Network			
Cloud Drive	+				
ഫ്പ് Users	+	무 O Connected			
Shares	+	IP Address Default Gateway DNS Servers Connection Duration 192.168.18.148 192.168.18.1 192.168.28.7, 192.168.82.88 2 hours			
Storage	+	Settings O Renew Renew Renew Diagnostics			
Logs	+	do securitys () heritew of Diagritusuus			
🗘 Alerts	+	Ports			
G Security	+	Name MAC Address			
රු Cloud Services	+	Name MAC Address LAN 00:50:56:ad:27:bd			
🛱 System	-				
Firmware					
Network					
SNMP					
Configuration Tool	s				
Support Report					
Regional Settings					

2. Click Settings.

The Network Configuration window is displayed.

D	 Obtain an IP address automatically 	
Ţ,	O Use the following IP address	
Network	IP Address:	
#	Netmask:	
Proxy	Default Gateway:	
	Obtain a DNS server address automatically	
	○ Use the following DNS server address	
Ethernet	Primary DNS Server:	
	Secondary DNS Server:	

3. Select the Proxy option.

Setting Up the HCP Anywhere Enterprise Edge Filer

Network C	Configuration		₽₽
뫄	Proxy Settings:	No Proxy	•
Network	Address:		
ŧ	Port:	8080	
Proxy	Proxy server re	quires a password	
	Username:		
	Password:		
Ethernet			
			Save Cancel

4. Specify the proxy settings.

Proxy Settings – Select Use HTTP Proxy and configure the appropriate settings:

- Address The address of the proxy server.
- **Port** The proxy server port number.

Proxy server requires a password – Check to specify that the proxy server requires authentication via a username and password.

- **Username** The username for authenticating to the proxy server.
- **Password** The password for authenticating to the proxy server.
- 5. Click Save.

Enabling Remote Access to the HCP Anywhere Enterprise Edge Filer

When the HCP Anywhere Enterprise Edge Filer is connected to a HCP Anywhere Enterprise Portal, you can access the HCP Anywhere Enterprise Edge Filer over the Internet by enabling **Remote Access**. **Remote Access** is a cloud service and when it is enabled, the HCP Anywhere Enterprise Edge Filer is assigned a unique DNS name. You can then use this DNS name to access the HCP Anywhere Enterprise Edge Filer anywhere over the Internet.

You can always access the HCP Anywhere Enterprise Edge Filer from within the local network, regardless of the **Remote Access** setting.

Note: You do not need to open any ports on the firewall in order to access the HCP Anywhere Enterprise Edge Filer using the DNS name from a remote location.

To enable and disable remote access:

- 1. Make sure that the HCP Anywhere Enterprise Edge Filer is connected to a HCP Anywhere Enterprise Portal. For details, see <u>Managing the Connection to a HCP Anywhere Enterprise</u> <u>Portal</u>.
- In the Configuration view, select Cloud Services > Remote Access in the navigation pane. The Remote Access page is displayed.

HITACHI		Configuration	Files	(1) Hello admin ~
OD Main	+ Remote Access			
 మై Users <్లి Shares	 ((-)) (b) Remote Administration On Remote access to this administration interface and its files is available. Remote access address https://192.168.19.199/devices/vGateway-27bd 			
Logs	+ (i) Disable Remote Access			
↓ Alerts ♦ Security	+ Single sign-on from HCP Anywhere Enterprise			
Cloud Services Status Remote Access	O SSO Off Single sign-on from HCP Anywhere Enterprise is disabled O Enable Single Sign-on			
System	+			
vGateway- 27bd 7.6.3111.22				

3. Click **Disable Remote Access** to disable remote access, or **Enable Remote Access** to enable remote access.

When enabled, a link to the administration interface is displayed. Use this URL link for remote access to the HCP Anywhere Enterprise Edge Filer.

Allowing Single Sign-on from HCP Anywhere Enterprise Portal

The HCP Anywhere Enterprise Edge Filer user interface can be accessed by a logged in user from within the HCP Anywhere Enterprise Portal user interface, without the user entering HCP Anywhere Enterprise Edge Filer credentials. The user signed in to the HCP Anywhere Enterprise Portal must be the same user as the HCP Anywhere Enterprise Edge Filer user.

Note: If single sign-on using CAC (Common Access Card) has been enabled for the HCP Anywhere Enterprise Portal, the HCP Anywhere Enterprise Edge Filer must connect to the HCP Anywhere Enterprise Portal using an activation code instead of the user and password credentials. For details, contact Hitachi Vantara Support Connect support.

To enable single sign-on to the HCP Anywhere Enterprise Edge Filer:

1. In the **Configuration** view, select **Cloud Services > Remote Access** in the navigation pane. The **Remote Access** page is displayed.

HITACHI		Configuration F	iles 🕞 Hello admin 🗸
이어 Main 이어 Cloud Drive	+ Remote Access		
 చిగ్తి Users <్లి Shares	 + ((+)) () Remote Administration On Remote access to this administration interface and its files is available. + Remote access address https://192.168.13.199/devices/vGateway-27bd 		
E Storage	+ (9) Disable Remote Access +		
Security	Single sign-on from HCP Anywhere Enterprise Single sign-on from HCP Anywhere Enterprise is disabled		
Status Remote Access	() Enable Single Sign-on		
B System	+		
vGateway- 27bd 7.6.3111.22			

- 2. Make sure Enable Remote Access is set.
- 3. Click Enable Single Sign-on to enable SSO from the HCP Anywhere Enterprise Portal, or Disable Single Sign-on to disable SSO from the HCP Anywhere Enterprise Portal.

Saving HCP Anywhere Enterprise Edge Filer Settings

You can manually export the HCP Anywhere Enterprise Edge Filer configuration to an XML file on your computer, and use this file to restore the HCP Anywhere Enterprise Edge Filer settings as needed.

Setting Up the HCP Anywhere Enterprise Edge Filer

Exporting the Configuration

To export the HCP Anywhere Enterprise Edge Filer configuration to an XML file:

1. In the Configuration view, select System > Configuration Tools in the navigation pane. The Configuration Tools page is displayed.

HITACHI		Configuration Files (1) Hello adm	in v
OO Main	+	Configuration Tools	
ටි Cloud Drive	+		
ஹீ Users	+	Configuration Backup is Active To restore configuration backup click "View Backup" Jot Backup Lot Backup Dutton, download the db.xml file and import it to the	
Shares	+	Last Backup Backup Result Next Backup Doutton, download the do.xml hie and import it to the desired Edge Filer	
Storage	+	💿 Backup Now 🐵 Disable Configuration Backup 🕼 View Log 👚 View Backup	
Logs	+		5 !
🗘 Alerts	+	Import Import the Edge Filer configuration from a file	>
Security	+		
රු Cloud Services	+	Export Export the Edge Filer configuration to a file	>
🛱 System	-		
Firmware		(S) Reset to Defaults	, I
Network		Reset the Edge Filer configuration to default values	
SNMP			
Configuration Too	ls		
Support Report			
Regional Settings			
VEstoway			

2. Click Export.

The HCP Anywhere Enterprise Edge Filer configuration is exported to an XML file in your computer's download folder.

Note: For security reasons, all passwords are stored in an encrypted format. However, the export file information is sensitive, and it is therefore recommended that you keep it in a safe place.

Setting Up the HCP Anywhere Enterprise Edge Filer

Importing the Configuration

Note: Before importing a configuration to a HCP Anywhere Enterprise Edge Filer, a volume must be configured on the edge filer.

To import a HCP Anywhere Enterprise Edge Filer configuration from an XML configuration file:

1. In the Configuration view, select System > Configuration Tools in the navigation pane. The Configuration Tools page is displayed.

HITACHI			Configuration Files (1) Hello admin •
Main	+	Configuration Tools	
ති Cloud Drive යුඩු Users ඳී Shares	+ + +	Configuration Backup is Active Last Backup Backup Backup Result Next Backup Nov 26, 2023 9:07 PM O Success in 10 hours	To restore configuration backup click "View Backup" (2) button, download the db.xmi file and import it to the desired Edge Filer
Storage	+	③ Backup Now ⑧ Disable Configuration Backup 圖 View Log ☆ View Backup	
Logs	+ +	Import Import for a file	>
 Security Cloud Services 	+ +	Export	>
System	-	Export the Edge Filer comparation to a line	·
Firmware Network		Reset to Defaults Reset the Edge Filer configuration to default values	>
SNMP Configuration Toe	ois		
Support Report Regional Settings			
VEsteway			

2. Click Import.

The **Configuration Import** window is displayed.



3. Click **Upload** and browse to the desired configuration file and click Open.

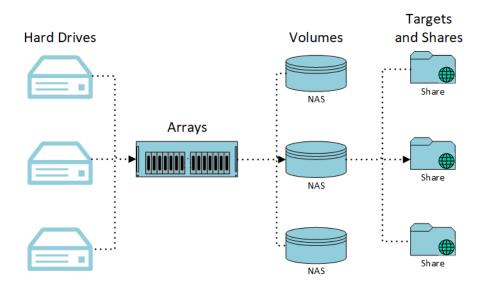
The configuration file is imported.

When the upload is complete, the **Configuration Import Completed** window is displayed. If any errors occurred during the import, they are displayed.

4. Click Finish.

Chapter 3. Managing the HCP Anywhere Enterprise Edge Filer Storage

HCP Anywhere Enterprise Edge Filers support NAS volumes. NAS volumes are accessible through file access protocols. You can create folders on NAS volumes and store files in the folders. You can also define folders as network shares and share them across the network, via several protocols.



You can create an array to combine the drives into a larger pool of storage, set up redundancy between drives, and/or increase performance. Once you've set up an array, you can create volumes, which are logical units of storage.

You can define additional virtual disks for a HCP Anywhere Enterprise Edge Filer and create RAIDs for these disks. The HCP Anywhere Enterprise Edge Filer supports the definition of up to 16 virtual disks. Depending on the license, it is possible to enlarge the virtual disks. HCP Anywhere Enterprise recommends that the maximum storage is defined as a single disk.

Setting Up the Storage

You store the HCP Anywhere Enterprise Edge Filer data on a volume, which is defined on a virtual array. Hitachi Vantara recommends that the maximum storage is defined as a single disk when the HCP Anywhere Enterprise Edge Filer is created.

During the initial setup of the HCP Anywhere Enterprise Edge Filer an LVM array, *array1*, is created with a volume, *vol1*.

If required, you can extend an existing virtual disk, and then enlarge the volume. If you do require multiple disks, for example, when running the HCP Anywhere Enterprise Edge Filer in ESXi, where the maximum disk size is 62TB, the additional disks can be added to the LVM-based array.

Managing the HCP Anywhere Enterprise Edge Filer Storage

To set up storage:

1. In the **Configuration** view, select **Storage > Arrays** or **Storage > Volumes** in the navigation pane and click **Storage Setup Wizard**.

The Easy Storage Setup window is displayed.

Easy Storage Setup						×	
Set up th	e device	storage.				\geq	
The follow	ving stora	ge devices wer	e detecte	d:			
	VIRT2	100.00 GB	In Use	format			
	VIRT3	100.00 GB	Ready	🛱 <u>Format</u>			
1 The li	censed c	apacity is 161	гв				
					Next >	Cancel	

In this example, the HCP Anywhere Enterprise Edge Filer has 2 disks: VIRT2 and VIRT3. In this example, VIRT2 was the original disk and VIRT3 was added.

Note: Normally, a HCP Anywhere Enterprise Edge Filer requires one disk.

After clicking **Format** and then **Yes** to confirm, the drive is formatted and all the data on the drive is erased.

Warning: Formatting erases all data on the drive.

2. Click Next.

If there are proposed actions, they are displayed.

Proposed Actions Easy Storage Setup recommends the following actions:		(() ×
 Add drive VIRT3 to existing array array1 		
< Previous	Next>	Cancel

- 3. To continue with the proposed action, click Next.
- 4. Click Finish in the Wizard Completed window.

If an action was proposed, the action is implemented.

Managing the HCP Anywhere Enterprise Edge Filer Storage

Managing Arrays

The array and volume are created during the initial setup of the HCP Anywhere Enterprise Edge Filer.

Expanding an Array

To expand an array after adding new disks, you add the disks to the existing array.

To expand an array:

1. In the **Configuration** view, select **Storage > Arrays** in the navigation pane. The **Arrays** page is displayed.

HITACHI		Configuration Files (a) Hello admin ~
OO Main +	Arrays	
Cloud Drive +		
නි Users +	⊕ New	C
⊲G Shares +	Array Name Level Status	
o Storage —	æaray1 LVM Optimal	
Arrays		
Volumes		
Local Deduplication		
E Logs +		
🗘 Alerts +		
🖗 Security +		
ද්ධි Cloud Services +		
🖶 System +		
vGateway- : 27bd 7.6.3111.22		

2. Click the array to expand or select the array row and click Edit.

The **Select drives to join this array** wizard is displayed, which shows you all drives available to join the array.

Disk Drive	Member	
VIRT3 100.00 GB		

- 3. Check the **Member** box for each drive to include in the array.
- 4. Click Next to the end of the wizard and then click **Finish**.

After expanding an array, the added disk space can be used to increase volume sizes. For details, see <u>Managing Volumes</u>.

Creating an Array

This procedure is only required in the following circumstances:

- You did not set up storage during the initial setup of the HCP Anywhere Enterprise Edge Filer.
- You did not set up storage using the storage setup wizard, described in <u>Setting Up the Storage</u>.
- You have additional disks that you want to use in a new array, separate from the existing array.

To create an array:

1. In the **Configuration** view, select **Storage > Arrays** in the navigation pane. The **Arrays** page is displayed.

HITACHI		Configuration Files	(1) Hello admin ~
OO Main +	Arrays		
습 Cloud Drive +			
ඩු Users +	🕑 New 🥒 Edit 🕆 Delete 🌣 Storage Setup Wizard 📓 Scheduled Scrubbing 🛈 Start Scrubbing		c
Shares +	Array Name Level Status		
Storage –	t array1 LVM Optimal		
Arrays			
Volumes			
Local Deduplication			
Logs +			
🗘 Alerts +			
Security +			
ද්ධි Cloud Services +			
🗗 System +			
vGateway- : 27bd 7.6.3111.22			

2. Click New.

The **Select drives to join this array** wizard is displayed, which shows you all drives available and asks you to select drives to join the new array.

A storage array joins multiple drives, unified storage device. Select the driv			
Disk Drive	Member		
KIRT3 100.00 GB			
		Next >	Cance

- 3. Check the **Member** box for each drive you want to include in the array.
- 4. Click **Next** and then select the type of array you want to create.

Select a RAID Select the RAID level to				*
LVM Linear Concatenatis RAID0 (Striped) RAID1 (Mirrored) RAID5 (Striping with RAID6 (Striping with				
RAID Stripe Size:	64K	-		
< Previous			Next >	Cancel

Note: Only array types that can be selected are enabled.

LVM – A Logical Volume Manager-based array. This is the default array type.

RAID0 (Striped) – When more than one drive is specified for the array, RAID0 combines the capacity of the drives and increases the read and write speed using striping. You must have at least two drives to create a RAID0 array.

- Specify the **RAID Stripe Size**. This is the size of blocks that data is divided into when it is written to the array and distributed across the drives. Reading and writing large data files sequentially generally benefits from a large stripe size. Small random reads and writes generally benefit from a smaller stripe size. The default value is 64K.
- 5. Click **Next** and enter a name for the array.

Specify a name for	this storage array.	
Array Name:	array1	

- 6. Click Next.
- 7. To immediately create a volume on the array, select the I want to create a logical volume on this storage array check box.

Select a RAID Select the RAID level t			
LVM Linear Concatenati RAID0 (Striped) RAID1 (Mirrored) RAID5 (Striping wit) RAID5 (Striping wit)			
	VIIX		
< Previous		Next >	Cancel

8. Click Finish.

If you checked the **I want to create a logical volume on this storage array** check box, you proceed to create a volume. For details, see <u>Managing Volumes</u>.

Renaming an Array

To rename an array:

- 1. In the **Configuration** view, select **Storage > Arrays** in the navigation pane. The **Arrays** page is displayed.
- 2. Click the array to rename or select the array row and click Edit. The Select drives to join this array wizard is displayed.
- 3. Click Next until the Name this Array window is displayed.

Specify a name for	rray		
specity a name for	uns storage array.		
Array Name:	array1		

- 4. Change the Array name value.
- 5. Click Next.
- 6. Click Finish in the Wizard Completed window.

Deleting an Array

Note: You cannot delete an array that has a volume defined on it.

To delete an array:

- 1. Select the array row, and click **Delete**.
- 2. Click Yes to confirm.

The array is deleted.

Managing Volumes

Volumes are logical partitions on the HCP Anywhere Enterprise Edge Filer that users can access. You create a NAS volume, and the HCP Anywhere Enterprise Edge Filer acts as a files server for NAS volumes, which can be accessed using any of the supported file sharing protocols.

The HCP Anywhere Enterprise Edge Filer supports the XFS file system. XFS volumes cannot be shrunk. HCP Anywhere Enterprise recommends starting with the required storage and then increasing the storage when using XFS rather than starting with a large storage which cannot be decreased.

When the volume defined in the HCP Anywhere Enterprise Edge Filer does **not** use all the available storage, you can edit the volume to enlarge the volume size.

Note: When the volume defined in the HCP Anywhere Enterprise Edge Filer uses all the available storage, see <u>Increasing Available HCP Anywhere Enterprise Edge Filer Storage</u>.

To create a volume, you **must** have an array defined. An array is automatically defined as part of the initial setup, described in the installation guide.

A volume is created during the initial setup, described in the installation guide.

To create or edit a volume:

 In the Configuration view, select Storage > Volumes in the navigation pane. The Volumes page is displayed.

HITACHI								Configu	uration Files	(1) Hello admin ~
OO Main	+ +	Volumes								
ഫ്രീ Users	+	🕀 New 🥒 Ed	it 🗂 Delet	e 🔌 Repair 🔹 Storage Setup Wizar	d					с
్లి Shares	+	Volume Name	Mode	Status	Storage Device	Capacity	Free	Usage	Туре	
Storage	-	S vol1	Online	Ready	array1	99.98 GB	99.20 GB	1%	XFS	
Arrays										
Volumes										
Local Deduplication										
Logs	+									
🗘 Alerts	+									
Security	+									
රුඛු Cloud Services	+									
🔁 System	+									
vGateway- 27bd 7.6.3111.22	:									

If a volume was not created when the HCP Anywhere Enterprise Edge Filer was installed, the page is empty.

2. Click New or select the volume to edit and click Edit.

The **Specify Volume Details** window is displayed.

to contain this logica	volume, then specify the volume size.	
Storage Device:	array1 [100.01 GB Free]	
Volume Size:	99.98GB 🏠 199.99GB 99.98	GB

Note: If the selected disk storage is fully used, the following window is displayed:

	resizable storage partition. Select the storage device I volume, then specify the volume size.	
Storage Device:	array1 [0 bytes Free] -	
Volume Size:	This storage device has insufficient space to create a new volume.	

3. Set the volume details:

Storage Device – The array on which to create the volume. The size of each array is shown in brackets.

Volume Size – You can either drag the slider or enter a number of GB. Hitachi Vantara recommends that the volume size is set to the maximum available.

When adding to an existing array, the minimum size displayed is the size of the current volume. The volume size cannot be decreased.

4. Click Next.

When defining a new volume you can choose to encrypt the volume.

			×
Volume Encryp	tion		0
		i-the-fly, you can enable volume nay reduce performance.	1
Make this volume er	crypted		
Passphrase:			
Re-type passphrase:			
Passphrase Strength			
	Weak	Strong	
< Previous		Next>	Cancel

Make this volume encrypted – Encrypt the contents of this volume using a passphrase. This option is disabled when editing a volume.

Note: After encrypting a volume, you can edit the volume to change the password, but not remove the encryption.

	otion s of this volume on-the-	fly, you can ena	ble volume	- 6
encryption. Enabling vi	olume encryption may n	educe performa	nce.	1
🛛 Make this volume e	ncrypted			
Passphrase:				
Re-type passphrase:				
Passphrase Strength				
	Weak	Strong		

Passphrase – The passphrase to use to access the volume. The passphrase must be a

minimum 7 characters.

Retype Passphrase – Enter the same passphrase again to confirm it. The encryption method employed is the Advanced Encryption Standard (AES-256 CBC ESSIV). Enabling volume encryption may reduce performance.

- **Note:** It is important to keep the passphrase in a safe place as there is no way of retrieving it if you lose it. If you reset the HCP Anywhere Enterprise Edge Filer to its default settings, you cannot access the volume without this passphrase.
- 5. Click Next.

The Name This Logical Volume window is displayed.

Specify a name for t	nis logical volume	
Volume Name:	vol2	

- **6.** If the volume is a new volume, enter a name for the volume.
 - **Note:** You cannot change the name of an existing volume.
- 7. Click Next and then click Finish.

The volume is displayed in the **Volumes** page.

Deleting Volumes

To delete a volume, select the volume and click **Delete** and then **Yes** to confirm.

Note: You cannot delete a volume if it has data stored on it.

Scanning and Repairing Volumes

You can scan the file system on a volume for errors. Any detected errors are automatically repaired, if possible.

Warning: During the scanning process, the volume is taken off line. Do not turn off the HCP Anywhere Enterprise Edge Filer while the volume is being scanned.

To scan and repair a volume:

- 1. In the **Configuration** view, select **Storage > Volumes** in the navigation pane.
- 2. Select the volume and click **Repair**.

The Volume Repair Utility wizard is displayed.

Logical Volume X
Volume Repair Utility
This wizard will guide you through the process of checking and repairing the file system on this volume.
This volume will now be scanned for errors. Any detected errors will be automatically repaired, if possible.
During the scanning process, the volume will be taken offline. Do not turn off the device while the volume is being scanned.
Advanced settings (optional):
Clear corrupted log. Warning: This may result in further data loss.
Click Next to continue.
Next> Cancel

- 3. Optionally, configure the settings for the repair operation.
- 4. Click Next.

While the files system on the volume is scanned for errors, the **Scanning & Repairing** window displays a progress bar, including what is being checked, such as inodes, blocks and sizes and group summary information.

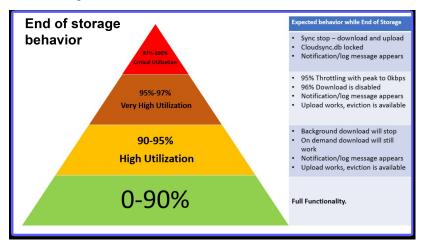
When the process is complete, the **Repair Complete** window displays a list of files system errors that were corrected.

5. Click Finish.

Handling Volumes Close to Capacity

Handling situations when the storage volume is almost full is performed as follows:

- Background downloads are disabled when the disk is 90% full, and syncing is disabled when the disk is 97% full.
- When the storage volume is 1% less than the critically full value, the default being 97%, all downloads to the HCP Anywhere Enterprise Edge Filer are canceled.
- When the storage volume is 2% less than the critically full value, the default being 97%, throttling starts to slow down the writes to the volume.



Managing Local Deduplication

HCP Anywhere Enterprise Edge Filers support file-level deduplication that reduces physical cache storage and improves performance when accessing stub files that already exists as another file on the HCP Anywhere Enterprise Edge Filer.

Files with the same content are linked to the same on-disk data, instead of taking twice the disk space. A deduped file, upon being modified, is populated with the underlying data.

Files are deduped:

- During a copy and paste operation in Windows File Explorer or Mac Finder.
- After a file is modified locally, during the upload to the HCP Anywhere Enterprise Portal, the file will be deduplicated with a local copy of the data, if one exists.
- If a local copy exists before a download starts, deduplication is immediate and the file is not downloaded, saving the network traffic.
- **Note:** If you enable deduplication and then run a migration, the file system is automatically reindexed. You must **not** restart the edge filer while the reindexing is being performed. If the edge filer is restarted while reindexing is being performed, any file that was not reindexed when the edge filer was restarted, is never evicted from the HCP Anywhere Enterprise Edge Filer.

To enable local deduplication:

Warning: A restart is required when enabling deduplication.

1. In the **Configuration** view, select **Storage > Local Deduplication** in the navigation pane. The **Local Deduplication** page is displayed.

HITACHI	Configuration Files () Hello admin +
- Main -	Local Deduplication
윤 Users - 《 Shares -	Disabled Not Running
Storage -	Enable Local Deduplication
Logs -	
 ↓ Alerts - ↓ Security - 	
ර්බා Cloud Services - ඩ් System -	
vGateway- : 27bd 7.6.3111.22	

- 2. Click Enable Local Deduplication.
- 3. Click **OK** to confirm restarting the edge filer.

The HCP Anywhere Enterprise Edge Filer reboots. When logging back in to the HCP Anywhere Enterprise Edge Filer, local deduplication is enabled.

HITACHI	Configuration Files (2) Hello admin 🗸
88 Main + Local Deduplication	
Cloud Drive +	
	0% Deduplication Savings 0 Bytes saved
Arrays Olisable Local Deduplication Oliver S	eindexing
Local Deduplication	
Logs +	
🗘 Alerts +	
🔂 Security +	
$\zeta_{\widehat{\otimes}}$ Cloud Services +	
🔁 System +	
vGateway- : 27bd 7.6.3111.22	

The **Local Deduplication** page shows storage usage prior to applying deduplication and the storage saved after applying deduplication as a percentage of the storage and as an amount of storage actually saved.

Existing files are not deduped, unless you reindex the HCP Anywhere Enterprise Edge Filer, described in <u>Applying Local Deduplication to Existing Files</u>.

After reindexing the HCP Anywhere Enterprise Edge Filer, or after adding new files that can be deduped, the page shows the amount of storage saved by deduplication.

HITACHI		Configuration Files (2) Hello admin ~
OO Main +	Local Deduplication	
습 Cloud Drive +		
යු Users +	O Active Running OK	
് Shares +	Pre-Dedup Usage	36% Deduplication Savings
E Storage –	33.8GB of 100GB ()	
Arrays	(ii) Disable Local Deduplication (iii) Run Full Reindexing	
Volumes		
Local Deduplication	Reindexing Completed Nov 27, 2023 12:13 PM Reindexed 8 cloud folders	
🗄 Logs 🛛 🕂	Files Scanned Elapsed Time Files / Second Storage Saved 62 a few seconds N/A 0 Bytes (0 files)	
🗘 Alerts +		
🔄 Security +	 Dismiss 	
දිධි Cloud Services +		
🗗 System 🛛 +		
vGateway- : 27bd 7.6.3111.22		

Applying Local Deduplication to Existing Files

Deduplication is only applied to files added after deduplication is enabled unless reindexing is performed.

To reindex the HCP Anywhere Enterprise Edge Filer:

- 1. In the **Configuration** view, select **Storage > Local Deduplication** in the navigation pane.
- 2. The Local Deduplication page is displayed.

HITACHI		Configuration	Files 🔞 Hello admin 🖌
Main +	Local Deduplication		
ඩු Users + දේ Shares +	O Active Running OK Pre-Dedgu Usage 34.8MB of 100GB ©	0%	Deduplication Savings 0 Bytes saved
Arrays Volumes Local Deduplication	Disable Local Deduplication		
Logs +			
🗘 Alerts +			
🔄 Security +			
දි⊖ Cloud Services +			
🖶 System +			
vGateway- : 27bd 7.6.3111.22			

3. Click Run Full Reindexing.

The progress of the reindexing is displayed.

Disabling Local Deduplication

To disable local deduplication:

Warning: A restart is required when enabling deduplication.

1. In the **Configuration** view, select **Storage > Local Deduplication** in the navigation pane. The **Local Deduplication** page is displayed.

HITACHI		Configuration Files (1) Hello admin ~
Cloud Drive +	Local Deduplication	
유 Users +	O Active Running OK Pre-Dedup Usage 33.8GB of 100GB O Disable Local Deduplication	36% Deduplication Savings 9GB saved
Arrays Volumes Local Deduplication	Orean Decupication When Pull Reindexing Reindexing Completed Nov 27, 2023 12:13 PM Reindexed 8 cloud folders	
Logs +	Files Scanned Elapsed Time Files / Second Storage Saved 62 a few seconds N/A 0 Bytes (0 files)	
Security +	⊙ Dismiss	
රුබි Cloud Services + ඬී System +		
vGateway- : 27bd 7.6.3111.22		

- 2. Click Disable Local Deduplication.
- 3. Click **OK** to confirm restarting the edge filer.

The HCP Anywhere Enterprise Edge Filer reboots. When logging back in to the HCP Anywhere Enterprise Edge Filer, local deduplication is disabled.

HITACHI	Configuration Files (2) Hello admin 🗸
Main +	Local Deduplication
ඩු Users + දේ Shares +	O Disabled Not Running
E Storage – Arrays Volumes	Enable Local Deduplication
Local Deduplication	
🗋 Cogo i	
Security +	
System +	
vGateway- : 27bd 7.6.3111.22	

Logging Deduplication

The percentage of deduplication for each deduped file is reported in the <u>Cloud Sync Log</u>.

Increasing Available HCP Anywhere Enterprise Edge Filer Storage

You can increase the volume size when the volume defined in the HCP Anywhere Enterprise Edge Filer does not use all the available storage, as described in <u>Managing Volumes</u>.

When the volume defined in the HCP Anywhere Enterprise Edge Filer **does** use all the available storage and the initial storage allocated was not the maximum allowed by the license, you can increase the storage by either increasing the size of the disk or adding another existing disk.

Note: Hitachi Vantara recommends, whenever possible, increasing the size of the disk rather than adding a new disk, except for HCP Anywhere Enterprise Edge Filers running on an ESXi platform.

The amount of storage that can be used by a HCP Anywhere Enterprise Edge Filer is dependent on the license:

- For an EV16 license the maximum is 16TB.
- For an EV32 license the maximum is 32TB.
- For an EV64 license the maximum is 64TB.
- For an EV128 license the maximum 128TB.
- For an EV256 license the maximum 256TB.

HCP Anywhere Enterprise Edge Filer in AWS

The following procedure includes creating a snapshot of the existing volume as a backup.

To increase storage:

- Log in to your Amazon Web Services account. Perform the following steps to take a snapshot of the HCP Anywhere Enterprise Edge Filer database EBS volume as a backup.
 - a) In the Amazon Web Services > Compute area, click EC2. The EC2 Dashboard screen is displayed.
 - b) In the navigation pane, click ELASTIC BLOCK STORE > Volumes. The ELASTIC BLOCK STORE > Volumes screen is displayed.
 - c) Locate the EBS volume to enlarge, right-click it and click **Create Snapshot**. The **Create Snapshot** pane is displayed.
 - d) Optionally, enter a description for the snapshot.
 - e) Click Create Snapshot.
- In the Amazon Web Services EC2 Dashboard under ELASTIC BLOCK STORE > Volumes, locate the currently attached database EBS volume to enlarge, right-click it and click Modify Volume.

The Modify Volume window is displayed.

3. Specify a disk size greater than the current size. When configured as a Caching Gateway,

Hitachi Vantara recommends storage at least 20% of the HCP Anywhere Enterprise Portal Global Name Space. The maximum usable storage is dependent on the license.

- For an EV16 license the maximum is 16TB.
- For an EV32 license the maximum is 32TB.
- For an EV64 license the maximum is 64TB.
- For an EV128 license the maximum 128TB.
- For an EV256 license the maximum 256TB.
- 4. Click Modify.
- 5. Follow the instructions in the procedure To create or edit a volume in Managing Volumes.

HCP Anywhere Enterprise Edge Filer in ESXi

Note: Hitachi Vantara recommends adding a new disk rather than increasing the size of the disk. ESXi limits disks to a maximum of 62TB. If more than 62TB is required you **must** use more than one virtual disk. Storage greater than 62TB is only applicable to HCP Anywhere Enterprise Edge Filers with an EV64, EV128, or EV256 license.

To increase available HCP Anywhere Enterprise Edge Filer storage:

1. In the vSphere Client, right-click the HCP Anywhere Enterprise Edge Filer VM and select **Edit Settings**.

The configuration is displayed for the HCP Anywhere Enterprise Edge Filer.

- 2. Click ADD NEW DEVICE and select Hard Disk from the drop-down menu.
- **3.** Specify the disk size. Hitachi Vantara recommends that the storage is at least 20% of the HCP Anywhere Enterprise Portal Global Name Space. The maximum usable storage is dependent on the license.
 - For an EV16 license the maximum is 16TB.
 - For an EV32 license the maximum is 32TB.
 - For an EV64 license the maximum is 64TB.
 - For an EV128 license the maximum 128TB.
 - For an EV256 license the maximum 256TB.
 - **Note:** A VMware ESXi host limits disks to a maximum of 62TB. To support storage greater than 62TB, you need to create multiple disks, each less than 62TB and then add the new disk to the storage array.
- 4. Click OK.
- 5. Restart the HCP Anywhere Enterprise Edge Filer. For details, see <u>Restarting the HCP</u> <u>Anywhere Enterprise Edge Filer</u>.
- 6. In the **Configuration** view, select **Storage > Arrays** in the navigation pane.
- 7. Select the array and click Edit.

The **Select drives to join this array** wizard is displayed, which shows you all drives available and asks you to select drives to join the array.

- 8. Check the **Member** box for each drive to include in the array.
- 9. Click Next to the end of the wizard and then click Finish.
- **10.** Follow the instructions in the procedure *To create or edit a volume* in Managing Volumes.

HCP Anywhere Enterprise Edge Filer in Hyper-V

To increase available HCP Anywhere Enterprise Edge Filer storage when the current disk is Dynamically expanding:

- **Note:** You can only expand a disk in Hyper-V if it was initially defined as **Dynamically expanding**. If it was defined as **Fixed size**, you can add another disk but you cannot expand the existing disk. For details of adding another disk, see the procedure *To increase available HCP Anywhere Enterprise Edge Filer storage when the current disk is Fixed size*.
- **1.** In the Hyper-V Manager, shut down the virtual machine.
- 2. Right-click the HCP Anywhere Enterprise Edge Filer VM and select **Settings**.

The configuration is displayed for the HCP Anywhere Enterprise Edge Filer.

- **3.** Choose the hard disk and click **Edit**.
 - The Edit Virtual Hard Disk Wizard is displayed.
- 4. In the Choose Action page, select Expand and click Next.
- 5. Enter a new size greater than the current size. The maximum disk size is dependent on the HCP Anywhere Enterprise Edge Filer license:
 - For an EV16 license the maximum is 16TB.
 - For an EV32 license the maximum is 32TB.
 - For an EV64 license the maximum is 64TB.
 - For an EV128 license the maximum 128TB.
 - For an EV256 license the maximum 256TB.
- 6. Click Finish.
- 7. Start the virtual machine and follow the instructions in the procedure *To create or edit a volume* in Managing Volumes.

To increase available HCP Anywhere Enterprise Edge Filer storage when the current disk is Fixed size:

- **Note:** When the current disk is Fixed size and not Dynamically expanding, you must add additional virtual disks.
- **1.** In the Hyper-V Manager, shut down the virtual machine.
- 2. Right-click the HCP Anywhere Enterprise Edge Filer VM and select **Settings**.

The configuration is displayed for the HCP Anywhere Enterprise Edge Filer.

- 3. Select SCSI Controller and click Add to add a hard drive.
- 4. Click New.
- The New Virtual Hard Disk Wizard opens, displaying the Choose Disk Format window.
- 5. Choose the VHDX format and click Next.

The **Choose Disk Type** window is displayed.

6. If you are not likely to increase the disk size, choose **Fixed size** otherwise, choose **Dynamically expanding**.

Note: Using a dynamically expanding, thin provisioned, disk is initially very slow to format the disk in the HCP Anywhere Enterprise Edge Filer user interface.

7. Click Next.

The **Specify Name and Location** window is displayed.

8. Specify a name and location for the disk and click **Next**.

The **Configure Disk** window is displayed.

9. Specify the disk size. Hitachi Vantara recommends that the storage is at least 20% of the Portal Global Name Space. The maximum storage is dependent on the license.

- For an EV16 license the maximum is 16TB.
- For an EV32 license the maximum is 32TB.
- For an EV64 license the maximum is 64TB.
- For an EV128 license the maximum 128TB.
- For an EV256 license the maximum 256TB.
- **10.** Click **Next** to review the disk details and then click and **Finish**.
- 11. Click Apply.
 - The disk is created.
- 12. Click OK.
- 13. Start the virtual machine.
- **14.** Log in to the HCP Anywhere Enterprise Edge Filer as an administrator.
- **15.** In the **Configuration** view, select **Storage > Arrays** in the navigation pane.
- 16. Select the array and click Edit.

The **Select drives to join this array** wizard is displayed, which shows you all drives available and asks you to select drives to join the array.

- **17.** Check the Member box for each drive to include in the array.
- **18.** Click Next to the end of the wizard and then click Finish.
- **19.** Follow the instructions in the procedure To create or edit a volume in Managing Volumes.

HCP Anywhere Enterprise Edge Filer in Other Platforms

For all other platforms, either increase the size of the virtual disk and then follow the instructions in <u>Managing Volumes</u>, or add another disk to the virtual machine and then add the disk to an array, as described in <u>Managing Arrays</u>.

Chapter 4. Managing the HCP Anywhere Enterprise Edge Filer Users

In order to enable users to access shared folders, you must define the users in the HCP Anywhere Enterprise Edge Filer. You can:

- Grant the user access rights to network shares.
- Add a custom user group. The entire user group can then be granted access rights to network shares, and the access rights will apply to all members of the user group.
- Users can be grouped, as described in Managing User Groups.
- Add the user to the built-in **Read Only Administrators** user group, which includes read-only access rights to view the settings in the **Configuration** view.
- Add the user to the built-in **Administrators** user group, which includes read-write access rights to view and modify settings in the **Configuration** view.
- Note: Users and user groups are granted access rights to network shares during share configuration. See <u>Managing Local Shares</u>.
 Users that are not members of the Administrators or Read Only Administrators user groups do not see the **Configuration** view.

To enable sharing files when the HCP Anywhere Enterprise Edge Filer is a Caching Gateway, as described in <u>Managing Caching</u>, both HCP Anywhere Enterprise Portal users and HCP Anywhere Enterprise Edge Filer users must have matching names.

Adding and Editing Users

You can add users to the HCP Anywhere Enterprise Edge Filer by connecting to Active Directory, or add local users.

When connecting to Active Directory, you can add users from a domain or from an Active Directory tree or forest: <u>Defining Users From an Active Directory Domain, Tree or Forest</u>.

When adding local users to the HCP Anywhere Enterprise Edge Filer: <u>Adding and Editing Local</u> <u>Users</u>.

Note: The Active Directory domain controller must be read/write and not read-only.

Defining Users From an Active Directory Domain, Tree or Forest

When an Active Directory structure includes domains such that the HCP Anywhere Enterprise Edge Filer is joined to one domain, which is set up to trust a second domain, you set up ID mapping for the second domain on the HCP Anywhere Enterprise Edge Filer. The HCP Anywhere Enterprise Edge Filer can list users and groups, and users can access the resources on the HCP Anywhere Enterprise Edge Filer based on the permissions.

When the trust between domains is one way, for example, domain A is set up to trust domain B, but domain B is not set up to trust domain A, you can set up ID mapping for domain B on the HCP Anywhere Enterprise Edge Filer connected to domain A and users and groups from domain B can

access the HCP Anywhere Enterprise Edge Filer. But, if you connect the HCP Anywhere Enterprise Edge Filer to domain B, users and groups from domain A will not be able to access the HCP Anywhere Enterprise Edge Filer.

Note: The ID mapping range 1 to 199999 is reserved and must not be manually overwritten.

To define users from an Active Directory domain:

1. In the **Configuration** view, select **Shares > Windows File Sharing** in the navigation pane. The **Windows File Sharing** page is displayed.

HITACHI				Configuration	Files	(1) Hello admin ~
Cloud Drive	+ +	Windows File Sharing				
윤 Users	+	Enable SMB (Windows File Sharing) Packet Signing: Disabled	· Ø			
ංදී Shares Shares	_	Client Idle Disconnect Time (minutes):				
Windows File Shar	ing	Use compatibility mode:				
NFS Storage	+	Save Revert				
Logs	+ +	Assigned to: WORKGROUP Operation Mode: Workgroup				
Security	+	Status: ØOK				
Cloud Services	+	Connect to Domain/Work	tronb			
System vGateway- 27bd 7.6.3111.22	+					

2. Click Connect to Domain/Workgroup.

The **Windows File Sharing** wizard opens, displaying the Connect to Domain/Workgroup window.

	rwise, select Workgrou		∟₩
Workgroup:	WORKGROUP	-	
O Domain:			

- **3.** Choose **Domain** and type the domain name.
- 4. Click Next.

The Join an Active Directory domain window is displayed.

To join the domain, enter the us domain administrator.	ername and password of the	L⊕
Username:		
Password:		
Organizational Unit (Optional):		

- 5. In the **Username** and **Password** fields, type the domain administrator's username and password.
- 6. Optionally, In the **Organizational Unit** field, type the name of the organizational unit within the Active Directory domain.

The format is a path and can contain the following:
CN =Fully qualified domain name, such as <i>gatewayName.portalName.portalSuffix</i>
L=Locality Name, for example, <i>London</i>
ST=State or Province Name, for example, London
O=Organization Name, for example, HCP Anywhere Enterprise
OU=Organizational Unit Name, for example, Sales
C=Country Name, for example, <i>GB</i>
STREET=Street Address
DC =Domain Component, for example, <i>com</i>
UID=Userid

7. Click Next and then Finish.

To define HCP Anywhere Enterprise Edge Filer users from for an Active Directory tree or forest:

1. After setting up the Active Directory domain, in the Windows File Sharing page, in the Domain/Workgroup area, click the **Advanced Mappings** link.

HITACHI	Configuration Files (2) Hello admin ~
Main +	Windows File Sharing
요 Users +	E trable SME (Windows File Sharing) Packet Signing: Oisabled Client Idle Disconnect Time (minutes): 10
Shares Windows File Sharing FTP Server	Use compatibility mode:
NFS	Save Revert Domain/Workgroup
Logs +	Assigned to: product.net Operation Mode: Domain Advanced Mappings Status: © O K
G Cloud Services +	Connect to Domain/Workgroup
vGateway- ; 27bd 7.6.3111.22	

The UID/GID Mapping window is displayed.

UID/GID Map This table allows you UID/GID values.	pings to specify the mapping from	Windows SIDs to local	Ð
 Use Active Direct Range Mapping 	ory Unix Attributes (RFC23	07)	
Add domain	▼ ⊕ Add ④ Move	Down () Move Up	
Domain	UID/GID Start	UID/GID End	
PRODUCT	200000	5000000	۵
		Sav	e Cancel

2. For each domain in the tree/forest displayed in the list of domains, specify the UID/GID range allocated on HCP Anywhere Enterprise for users and groups from Active Directory. The UID/GID range is defined by UID/GID Start value and UID/GID End value. this is set for each domain that is trusted in the Active Directory environment. The UID/GID range has a default minimum value of 200,000 in order to reserve a range for local accounts and system accounts to run on the system and should not be changed.

Note: The ID mapping range 1 to 199999 is reserved and must not be manually overwritten.

- a) In the Add domain field, either type the desired domain's name, or select it from the drop-down list.
- b) Click Add.

The domain is displayed in the table.

- c) Leave the UID/GID Start field with the default value.
- d) Click in the UID/GID End field and type the ending number in the range of HCP Anywhere Enterprise Edge Filer user and group IDs (UID/GID) that should be assigned to users and user groups from this domain. The end number is calculated as follows: The RID, Relative ID, value, added to the UID/GID Start number. The SID is the identity of a user in Active Directory. SIDs are represented in the following way: S-1-5-21-1180699209- 877415012-3182924384-4850000, where the last part of the

SID is the RID value, 4850000 in this SID example.

For example, if the RID is 4850000 and **UID/GID Start** is 200000, **UID/GID End** is 4850000 + 200000 = 5050000.

- 3. To re-order the domains, do any of the following:
 - To move a domain up in the table, click on the desired domain, then click **Move Up**.

• To move a domain down in the table, click on the desired domain, then click **Move Down**. The order in which domains appear in the table represents the order in which the domains will appear in drop- down lists throughout the HCP Anywhere Enterprise Edge Filer user interface, for example, when managing access rights to projects.

4. To remove a domain, in the domain row, click the $\overline{\mathbf{m}}$ icon.

The domain is not displayed in the table.

5. Click Save.

Adding and Editing Local Users

You specify the local users who have access to the HCP Anywhere Enterprise Edge Filer.

To add or edit a user:

1. In the **Configuration** view, select **Users > Users** in the navigation pane. The **Users** page is displayed.

HITACHI			Configuration Files (1) Hello admin ~
OO Main 〇 Cloud Drive	+ +	Users	
윤 Users	-	Local Users 👻 🕞 New 🖉 Export To Excel	Search
Users		Username Full Name	Email
Groups		L A admin	
Shares	+	요 migration-service-677ada6b Migration Tool Service Admin Account - DO NOT REMOVE	
Storage	+		
Logs	+		
🗘 Alerts	+		
Security	+		
රුඛු Cloud Services	+		
ඩ් System	+		
vGateway- 27bd	:		
7.6.3111.22			Displaying users 1 - 2 of 2 < < > > ②

Note: A **Migration Tool Service Admin Account** administrator is automatically added: migration-service-*n*, where *n* is a unique identifier. You must not delete this administrator.

2. To add a user, click New.

Or,

To edit a user, either click the user name or select the user row and click Edit.

The **Specify User Details** window is displayed. If you are editing an existing user, the window is displayed with the user details.

account. Enter the	igh the process of edit he user:	 Å
Username:		
Password:		
Retype Password:		

- **3.** Specify the user details.
 - **Username** A name for the user.

Password – A password for the user. The password must be at least eight characters and must include at least a letter, digit and special character, such as ~, @, #, \$, %, ^, &, (. The password cannot contain the **Username** as part or all of the password.

Retype password – The same password you entered in the Password field.

4. Click **Next** and optionally specify additional account information:

You can specify additional de	etails for this account.	L
Full Name (Optional):		
Email Address (Optional):		
Numeric UID (Optional):		

Full Name – The full name of the user. **Email Address** – The email address of the user. **Numeric UID** – A numeric user ID (UID) to assign the user.

5. Click Next and then Finish.

The new user is displayed on the **Users** page.

Adding Users to User Groups

Users are added to user groups during user group configuration. See Managing User Groups.

Viewing Users

1. In the **Configuration** view, select **Users > Users** in the navigation pane. The **Users** page opens, displaying all local users.

HITACHI			Configuration Files (2) Hello admin 🗸
OO Main 〇〇 Cloud Drive	+ +	Users	
ஆ Users	-	Local Users 👻 💮 New 🗟 Export To Excel	Search
Users		Username Full Name	Email
Groups		口	
	+	Description Tool Service Admin Account - DO NOT REMOVE	
Storage	+		
Logs	+		
🗘 Alerts	+		
Security	+		
රිබ් Cloud Services	+		
Bystem	+		
vGateway- 27bd 7.6.3111.22	:	Displ	aying users 1 - 2 of 2 < < > > ③

2. To display domain users, in the Local Users drop-down list, select Domain domain Users, where *domain* is the name of the domain.

All domain users are displayed.

Exporting the List of Users

You can export a list of users and their details to a Comma-Separated Values (CSV) file on your computer. You can then view the file as a worksheet in Microsoft Excel.

To export a list of users:

1. In the **Configuration** view, select **Users > Users** in the navigation pane. The **Users** page opens, displaying all local users.

HITACHI			Configuration Files	(1) Hello admin ~
OO Main 〇〇 Cloud Drive	+ +	Users		
ഫ്രീ Users	-	Local Users 👻 🕙 New 🙆 Export To Excel	Search	
Users		Username Full Name	Email	
Groups		□ admin		
් Shares	+	요. migration-service-677ada6b Migration Tool Service Admin Account - DO NOT REMOVE		
Storage	+			
Logs	+			
🗘 Alerts	+			
Security	+			
රුධි Cloud Services	+			
ඩ් System	+			
vGateway-	:			
27bd 7.6.3111.22		Dis	playing users 1 - 2 of 2	>> > ©

2. Click Export to Excel.

The users list is exported.

Deleting Users

Note: You cannot delete the main administrator account.

To delete a user:

- 1. In the **Configuration** view, select **Users > Users** in the navigation pane. The **Users** page opens, displaying all local users.
- 2. Select the user row and click Delete.

HITACHI			Configuration Files (2) Hello admin ~
이어 Main 이 Cloud Drive	+ +	Users	
ඩු Users	-	Local Users 👻 🕙 New 📋 Delete 📾 Export To Excel	Search
Users		- Username Full Name	Email
Groups		□ <u></u> <u></u> <u>A</u> admin	
୍ଟ୍ Shares	+	<u>A migration-service-677ada6b</u> Migration Tool Service Admin Account - DO NOT REMOVE	
Storage	+	✓ L ro-admin	
Logs	+		
🗘 Alerts	+		
Security	+		
ර්ධා Cloud Services	+		
System	+		
27bd 7.6.3111.22		1 row selected Dis	playing users 1 - 3 of 3 < < > >

Note: The **Delete** option is displayed after selecting the row of the user to delete.

3. Click **Delete** to confirm.

The user is deleted.

Managing User Groups

The HCP Anywhere Enterprise Edge Filer includes built-in user groups. You can create additional user groups to meet your organization's requirements. It is possible to add each user to more than one group.

Warning: The built-in user groups must not be deleted.

HCP Anywhere Enterprise Edge Filer administrators can create local groups with nested Active Directory groups. Nesting Active Directory groups within local groups is useful when addressing frequent changes in branch user hierarchies. The **Backup-Operators** group initially has no members and is for users who require access to backup files and folders, even if they do not have the correct ACL permissions.

To add or edit a user group:

1. In the **Configuration** view, select **Users > Groups** in the navigation pane. The **Groups** page is displayed.

HITACHI				Configuration Files (2) Hello admin
)O Main	+	Groups		
ති Cloud Drive	+	(+) New		
<u>兆</u> Users	-	(+) New		
Users		Name	Member Count	Comment
Groups		Administrators	2	Members of this group have full access to the administration Web interface
ζ Shares	+	요 Read Only Administrators	0	Members of this group can access the administration Web interface in read-only mode
Storage	++	AR Everyone	0	Every user in the system is automatically a member of this group
] Alerts	+	AB. Backup-Operators	0	Members of this group have full access to all folders and files via cifs protocol
Security	+	AR Blocked-Users	0	Members of this group will be blocked from performing any actions
Gloud Services 카 System	++	의 관로 Excluded-Users	0	Members of this group are excluded from triggering ransom protection mechanisms
vGateway- 27bd 7.6.3111.22	:			

2. To add a group, click New.

Or,

To edit a group, either click the group name or select the group row and click **Edit**. The **Specify Group Name** window is displayed. If you are editing an existing group, the window is displayed with the group details.

Specify Group Specify a name for this this group.	Name group, and optionally enter a description of	×
cus Brooki		
Group Name:		
Group GID (Optional):		
Comment (Optional):		
	Nex	t Cancel

- **Note:** You cannot edit the **Group Name** of the built-in groups, such as **Administrators** and **Read Only Administrators**.
- **3.** Specify the group name and, optionally, other details.

The following reserved names cannot be used:

```
Administrator, Backup Operators, Domain Admins, Domain Computers, Domain Controllers, Domain Guests, Domain Users, Guest, Guests, Network, Self, Service, Users
```

Note: Upgrading from a version that has one of these names as a group name causes a warning to be written to the log.

4. Click Next and select the group members, either from Local Users, or from Domain *domainName* Users, or from Domain *domainName* Groups.

Select the members of this	group:		2
Local Users	-	Quick Search	
Name			

- a) Select the group whose member you want to include.
- **b)** Either start to enter a user name is the **Quick Search** text box or, click and select the user from the list.
- 5. When you are done adding users, click **Next** and then **Finish**.

Deleting User Groups

To delete a user group, select the group row, click **Delete**, and then click **Yes** to confirm.

Note: Deleting a user group does not delete the group members. Built-in groups, such as *Administrators* and *Read Only Administrators*, cannot be deleted.

If the deleted user group had been granted access rights to network shares, the group members will no longer have access rights to those network shares. To assign individual users access rights to network shares, see <u>Managing Local Shares</u>.

Chapter 5. Using HCP Anywhere Enterprise Edge Filer Cloud Services

You connect the HCP Anywhere Enterprise Edge Filer to the HCP Anywhere Enterprise Portal using an administrator account. During the initial HCP Anywhere Enterprise Edge Filer setup, described in the installation guide, you connect the HCP Anywhere Enterprise Edge Filer to the HCP Anywhere Enterprise Portal.

Note: If access using CAC, Common Access Card, has been enabled for the HCP Anywhere Enterprise Portal, the HCP Anywhere Enterprise Edge Filer connects to the HCP Anywhere Enterprise Portal using an activation code instead of the user and password credentials. For details, contact Hitachi Vantara support.

To connect the HCP Anywhere Enterprise Edge Filer to a HCP Anywhere Enterprise Portal:

1. In the **Configuration** view, select **Cloud Services > Status** in the navigation pane. The **HCP Anywhere Enterprise** page is displayed.

HITACHI		Configuration Files @) Hello admin 🗸	
OO Main	+	HCP Anywhere Enterprise		
ති Cloud Drive දුරි Users		Connect to Services By connecting this Edge Filer to HCP Anywhere Enterorise, you can gain access to Cloud Attached Storage services.	>	
් Shares		By connecting this Edge Filer to HCP Anywhere Enterprise, you can gain access to Cloud Attached Storage services.		
Storage				
Logs				
🗘 Alerts				
Security				
රුඛි Cloud Services				
Status				
Remote Access				
🔁 System				
vGateway- 27bd 7.6.3111.22				

2. Click Connect to Services.

Connect to Services		×
Account Details		
To connect this device to your HCP enter your account details.	Anywhere Enterprise account,	
Portal Address:		
	Ne	t Cancel

The Account Details window is displayed.

3. Enter the address of the HCP Anywhere Enterprise Portal, and then click **Next**.

Note: If the HCP Anywhere Enterprise Portal does not have a valid certificate installed, a warning is displayed to the end user when logging a device into the portal, offering the option to proceed anyway. This warning is presented every time a user connects a device to the portal, until a valid certificate is installed.

The **Sign In** window is displayed.

Connect to Services					×
Sign in					
Please enter ye	our credentials	for 192.168.28.34			
User	name:				
Pass	word:				
			_		
< Previous				Next>	Cancel

- **Note:** If single sign-on has been set up to the HCP Anywhere Enterprise Portal, click **Sign In** and then **Allow** in a separate window when prompted, and then the **Select License** window is displayed, skipping the next step.
- **4.** Enter the HCP Anywhere Enterprise Portal designated user username and password to access the HCP Anywhere Enterprise Portal.
 - **Note:** The designated user is the owner of the cloud folders and data to manage the HCP Anywhere Enterprise Edge Filer connection to the HCP Anywhere Enterprise Portal for all users and not just the current user. This designated user has HCP Anywhere Enterprise Portal read/write administrator permissions.

5. Click Next.

The Select License window is displayed.

Select Licen:	se se options are available for you	r HITACHI virtual	
zateway	coptions are available for you		
Type	Maximum Storage	Maximum RAM	
EV16	16.00 TB	8.00 GB	
	tly installed capacity is 300.00 C tly installed RAM is 8 GB	5B	

You are prompted to select the license from those available on the HCP Anywhere Enterprise Portal.

- **Note:** If only one license is available, this license is selected automatically.
- 6. Select the license and click **Next**.

The HCP Anywhere Enterprise Edge Filer connects to the HCP Anywhere Enterprise Portal and is added to the HCP Anywhere Enterprise Portal account. A success window is displayed.

7. Click Finish.

The HCP Anywhere Enterprise Portal page is displayed, showing that the HCP Anywhere Enterprise Edge Filer is connected to the HCP Anywhere Enterprise Portal.

HITACHI		Configuration Files	(1) Hello admin ~
OO Main රට Cloud Drive	+ HCP Anywhere Enterprise		
ඩු cloud Diffe ඩුඩු Users දේ Shares	+ Connected to 192.168.19.199 Connection Duration Server Address Edge Filer ID a few seconds 192.168.19.199 vGateway-27bd		
E Storage	+		
🗘 Alerts	+		
Security	+		
Status Remote Access			
음 System	+		
vGateway- 27bd 7.6.3111.22			

Viewing the Connection to a HCP Anywhere Enterprise Portal Status

The **HCP Anywhere Enterprise** page displays information about the HCP Anywhere Enterprise Edge Filer connection to a HCP Anywhere Enterprise Portal account.

HITACHI		Configuration Files (2) He	llo admin 🖌
OO Main	+	HCP Anywhere Enterprise	
ටි Cloud Drive			
윤 Users		G Connected to 192.168.19.199	
୍ଦି Shares		Connection Duration Server Address Edge Filer ID a few seconds 192.168.19.199 vGateway-27bd	
Storage		👌 Sign out 🔞 Access My Portal Account 🚫 Reconnect	
Logs		U Jign out W Access m) Forter Account (A reconnect	
🗘 Alerts			
Security			
දිබු Cloud Services	-		
Status			
Remote Access			
🛱 System			
vGateway- 27bd 7.6.3111.22			

After connecting to a HCP Anywhere Enterprise Portal the HCP Anywhere Enterprise Edge Filer status panel shows the following:

• The status of the connection to the HCP Anywhere Enterprise Portal can be one of the following:

Resolving the portal address – The HCP Anywhere Enterprise Edge Filer is resolving the HCP Anywhere Enterprise Portal address.

Connected to *portal* – The HCP Anywhere Enterprise Edge Filer is connected to the HCP Anywhere Enterprise Portal named *portal* or with the IP address *portal*, and the connection is currently in use.

Connecting – The HCP Anywhere Enterprise Edge Filer is connecting to the HCP Anywhere Enterprise Portal.

Disconnected – The HCP Anywhere Enterprise Edge Filer is disconnected from the HCP Anywhere Enterprise Portal. You can reconnect as described in <u>Reconnecting and</u> <u>Disconnecting to a HCP Anywhere Enterprise Portal</u>.

Authenticating – The HCP Anywhere Enterprise Edge Filer is authenticating to the HCP Anywhere Enterprise Portal.

Connection Failed – The connection to the HCP Anywhere Enterprise Portal failed.

- The amount of time that the HCP Anywhere Enterprise Edge Filer has been connected to the HCP Anywhere Enterprise Portal.
- The IP address of the HCP Anywhere Enterprise Portal.
- The HCP Anywhere Enterprise Edge Filer identifier used by the HCP Anywhere Enterprise Portal.

Managing the Connection to a HCP Anywhere Enterprise Portal

After connecting a HCP Anywhere Enterprise Edge Filer to a HCP Anywhere Enterprise Portal, you can access the HCP Anywhere Enterprise Portal account.

To access the HCP Anywhere Enterprise Portal account:

1. In the **Configuration** view, select **Cloud Services > Status** in the navigation pane. The **HCP Anywhere Enterprise** page is displayed.

HITACHI		Configuration Files (D) Hello admin ~
OO Main	+	HCP Anywhere Enterprise
Cloud Drive	+	
ይይ Users	+	
୍ଦ୍ତ Shares	+	Connection Duration Server Address Edge Filer ID a few seconds 192.168.19.199 vGateway-27bd
Storage	+	💍 Sign out 🛛 Access My Portal Account 🕜 Reconnect
Logs	+	S solition & neces my to name connect
🗘 Alerts	+	
Security	+	
ර්බා Cloud Services	-	
Status		
Remote Access		
🗗 System	+	
vGateway- 27bd 7.6.3111.22	I	

2. Click Access My Portal Account.

The HCP Anywhere Enterprise Portal sign in page is displayed in a new window, and you can sign in and access the account. For details about using the HCP Anywhere Enterprise Portal account, refer to HCP Anywhere Enterprise Portal documentation.

Reconnecting and Disconnecting to a HCP Anywhere Enterprise Portal

If the connection to the HCP Anywhere Enterprise Portal is lost due to a connectivity failure, the HCP Anywhere Enterprise Edge Filer automatically reconnects when it detects that the HCP Anywhere Enterprise Portal is available. To force the HCP Anywhere Enterprise Edge Filer to immediately try to reconnect, click Reconnect. The connection status displays whether the reconnection attempt is successful or not.

To disconnect from a HCP Anywhere Enterprise Portal:

1. In the **Configuration** view, select **Cloud Services > Status** in the navigation pane. The **HCP Anywhere Enterprise** page is displayed.

HITACHI			Configuration	Files	(1) Hello admin ~
OO Main	+ +	HCP Anywhere Enterprise			
猊 Users	+	Connected to 192.168.19.199 Connection Duration Server Address Edge Filer ID			
ංදී Shares E Storage	+ +	a few seconds 192.168.19.199 vGateway-27bd			
Logs	+				
Alerts Security	+ +				
රබා Cloud Services	-				
Status Remote Access					
සි System	+				
vGateway- 27bd 7.6.3111.22	:				

2. Click Sign out and Yes when the confirmation message is displayed.

Managing Caching

Content is synced between the HCP Anywhere Enterprise Portal global file system and the HCP Anywhere Enterprise Edge Filers connected to the HCP Anywhere Enterprise Portal. Folder content is identical across all the HCP Anywhere Enterprise Edge Filers connected to the HCP Anywhere Enterprise Portal. Whenever any change of any kind is made to any file in any of the synced folders, the same change is made immediately in the other synced folders. For example, if a file is deleted from one of the folders, the same file is deleted from the other synced folders. It makes no difference which user made the change or in which of the synced folders the change was made.

Note: Every 7 days a task runs in the background to verify that all the files on the HCP Anywhere Enterprise Edge Filer are synced with the HCP Anywhere Enterprise Portal global file

system. Any files on the HCP Anywhere Enterprise Edge Filer that are not synced with the HCP Anywhere Enterprise Portal global file system are automatically synced. Each HCP Anywhere Enterprise Portal user accesses the content that was synced to the HCP Anywhere Enterprise Edge Filer according to the permission set defined for their access on the HCP Anywhere Enterprise Portal.

When the HCP Anywhere Enterprise Portal is connected to the HCP Anywhere Enterprise Edge Filer, the folder structure defined in the HCP Anywhere Enterprise Portal global file system is created automatically on the HCP Anywhere Enterprise Edge Filer when the HCP Anywhere Enterprise Edge Filer syncs with the HCP Anywhere Enterprise Portal. Setting up the HCP Anywhere Enterprise Edge Filer to enable syncing is dependent on a number of considerations:

- Do you need to maintain the file structure and ACLs after migrating the data to a HCP Anywhere Enterprise Edge Filer?
 In this case, the setup should be done using nested shares.
 Even if a folder is shared with a user but the folder has no ACL access permissions, when the user attempts to access the folder a message similar to the following is displayed: You have no permission to view this folder.
- Do you need to maintain the file structure, but not the ACLs, after migrating the data to a HCP Anywhere Enterprise Edge Filer?
 In this case, the setup should be done using nested shares.
 Access to files is determined by the authorization levels set in the HCP Anywhere Enterprise Portal, such as *Read/Write* or *Preview Only*.

HCP Anywhere Enterprise recommends whenever possible to set up the HCP Anywhere Enterprise Edge Filer using nested shares.

Setting up the HCP Anywhere Enterprise Edge Filer for caching offers the following advantages:

- Content can be synced between different branch HCP Anywhere Enterprise Edge Filers and with the HCP Anywhere Enterprise Portal global file system. This means that the data is available for users to access at the branch at LAN speed, as well as when they are roaming outside the office.
- Users can sync files across their own devices. Syncing files allows users with multiple personal devices, such as a desktop computer, laptop, and smartphone, to take their files with them effortlessly wherever they go, with the confidence that the files they are working on are always current. Users do not even need to remember which device they were working on when they last modified a file. For example, you can create a file on your laptop and later open and modify it from your desktop.
- Users can collaborate easily with others. You can sync any number of shared folders and everyone who syncs the shared folder can view, update, and delete the files in the shared folder.

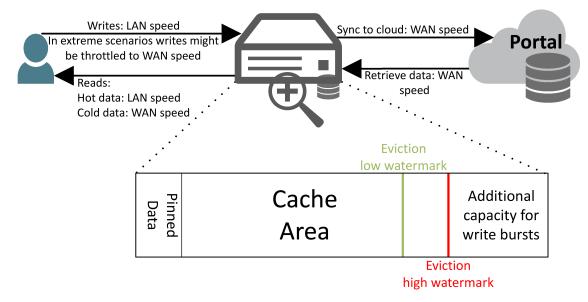
Storage With a Caching Gateway

With a Caching Gateway, files are stored in cloud storage and only stored on the HCP Anywhere Enterprise Edge Filer when required. However, all the metadata is downloaded to the HCP Anywhere Enterprise Edge Filer so users have access to everything that they have permission to access on the HCP Anywhere Enterprise Portal. Changes to the metadata in the HCP Anywhere Enterprise Portal are reflected in the HCP Anywhere Enterprise Edge Filer, but the content itself is not stored on the HCP Anywhere Enterprise Edge Filer. Only what is being worked on at the

moment or what is wanted to be permanently available is stored on the HCP Anywhere Enterprise Edge Filer. The files that have not been downloaded to the HCP Anywhere Enterprise Edge Filer are displayed in the HCP Anywhere Enterprise Edge Filer as stubs, which take up very little storage.

When a user accesses a file stub, the file is downloaded and opened without delay, and where possible, large files are streamed from the cloud so they can be accessed faster. Streamed files are added to a background download queue. After the download has completed, the file is unstubbed. Any changes to the file are synced back to the HCP Anywhere Enterprise Portal. Folders with files that are always required can be marked in the HCP Anywhere Enterprise Edge Filer user interface as pinned, in which case the files, and not the stubs, are stored on the HCP Anywhere Enterprise Edge Filer. For more details about pinned files, see <u>Pinning Folders so that Files are Always Available Locally</u>.

Files on the HCP Anywhere Enterprise Edge Filer are referred to as hot files. Less frequently accessed files, that remain in the cloud managed by HCP Anywhere Enterprise Portal, are referred to as cold files. Files that have not been accessed recently are evicted when the amount of storage used reaches a high watermark. The HCP Anywhere Enterprise Edge Filer also has spare capacity to absorb common write bursts at LAN speed. This means that users do not require access to the cloud and the additional slowness that is implied with this access is avoided during these bursts. For more details about evicting files, see <u>File Eviction from the HCP Anywhere Enterprise Edge Filer</u>.



Any file in either the pinned data area or cache area is available at LAN speed.

Accessing a file from the HCP Anywhere Enterprise Portal global file system causes the file to be downloaded and opened without delay, and where possible, large files are streamed from the cloud so that the user can access the file before it has been completely downloaded. Where possible, random access within the file is also supported, so the user does not have to wait for a sequential stream to complete to access parts of the file.

Files that were updated in the HCP Anywhere Enterprise Portal global file system and are defined as hot files, are downloaded automatically to the HCP Anywhere Enterprise Edge Filer in

background, so that when they are required, the user will have access to the up-to-date version of the file at LAN speed.

File Eviction from the HCP Anywhere Enterprise Edge Filer

As the HCP Anywhere Enterprise Edge Filer storage space gets used up, the HCP Anywhere Enterprise Edge Filer starts to remove, evict, files leaving stubs on the HCP Anywhere Enterprise Edge Filer. Files start to be evicted only when the amount of storage used reaches the high watermark, 75% of the total HCP Anywhere Enterprise Edge Filer storage. At this point, files are evicted until the amount of storage used is equal to, or less than, the low water mark, 65% of the total HCP Anywhere Enterprise Edge Filer storage.

The following hot files are never evicted, so they are always available at LAN speed:

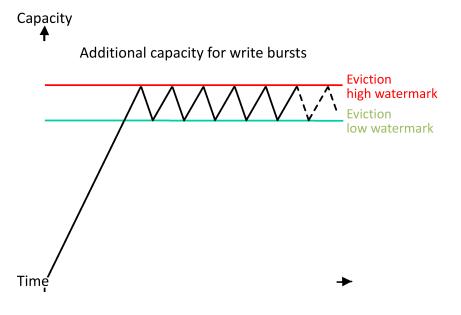
- Files in a folder marked in the HCP Anywhere Enterprise Edge Filer as pinned. These files are downloaded to the HCP Anywhere Enterprise Edge Filer and never evicted.
- Files that are currently open.
- Files that have not yet been synced to the HCP Anywhere Enterprise Portal. For example, a new file on the HCP Anywhere Enterprise Edge Filer or a file that was edited but not yet synced.

Other hot files can be evicted. These files are grouped according to the time since they were last accessed. The files are evicted within these groups, the files in the oldest group first, followed by the files in the next oldest group.

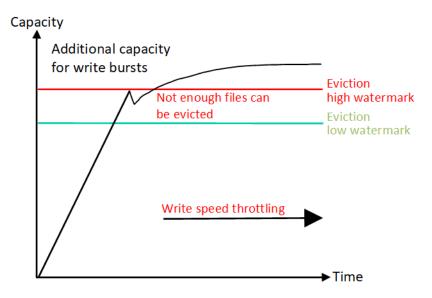
Note: Eviction is based on days and not file size. Also, there is no differentiation within a group of the length of time since a file was accessed.

For details on how to manage eviction, see Manage File Eviction From the Cache.

The following graph shows expected disk space usage in a normal scenario.



If the available free space does become too small, throttling is implemented so that users can continue to write to their files, but the client's write speed is reduced to WAN speed so that the data being written is not faster than the data that is evicted to the cloud.



This type of scenario is not usual, except during a migration of a large amount of data, or a very heavy write burst, using all the 25% storage space reserved for write bursts.

What Happens to Simultaneous File Changes?

Different people can work on the same files at the same time, which means that conflicts can occur. HCP Anywhere Enterprise Edge Filer keeps track of who makes updates and detects and resolves file conflicts when updates occur simultaneously. A file with the conflicts is written in the HCP Anywhere Enterprise Portal global file system so that users can verify that the conflicts were resolved correctly.

HCP Anywhere Enterprise Edge Filer records the history of file events. The changes made in the most recent update are always saved to the original file. Changes that are lost due to conflict are retained in a renamed version of the file.

Note: In order for conflict resolution to be performed correctly, the HCP Anywhere Enterprise Edge Filer clock must be synchronized with the HCP Anywhere Enterprise Portal clock. If there is more than one hour difference between the two clocks (after taking into account time zone differences), the HCP Anywhere Enterprise Edge Filer will not synchronize the cloud drive folder.

What Files are Not Synced From the HCP Anywhere Enterprise Portal?

Temporary files on the HCP Anywhere Enterprise Portal are not synced to the HCP Anywhere Enterprise Edge Filer. The following are not synced:

- Files that begin with \$, .HCP Anywhere Enterprise.tmp or ._
- Files of type tmp, temp, swp, dwl, or dwl2

- Files named desktop.ini, Thumbs.db, .DS_Store, ._.DS_Store, CredDB.cef, .AppleDouble, .AppleSingle **or** .Parent
- Files that end with Zone.Identifier

Caching Operations

When the HCP Anywhere Enterprise Edge Filer is connected to a HCP Anywhere Enterprise Portal, you can:

- Pinning Folders so that Files are Always Available Locally
- Suspend and Unsuspend Cloud Sync
- Refresh the Folder List From the HCP Anywhere Enterprise Portal
- <u>Control Cloud Sync Upload and Download Speeds</u>
- Manage File Eviction From the Cache
- Monitor HCP Anywhere Enterprise Edge Filer Caching
- Enable Fast Disaster Recovery
- <u>View the Cloud Sync Log</u>

These operations, except for <u>Pinning Folders so that Files are Always Available Locally</u> are performed from the **Cloud Drive** page in the user interface.

• In the **Configuration** view, select **Cloud Drive** > **Cloud Drive** in the navigation pane. The **Cloud Drive** page is displayed.

HITACHI		Configuration Files (2) Hello admin ~
OO Main	Cloud Drive	
Cloud Drive Cloud Drive Pinned Folders Search	O All Synced	
윤 Users	Suspend Settings Settings Refresh Folders from Portal Image View Log Settings Setting Settings Setting	🖻 View in Portal 🛛 🗐 View in Files Tab
Shares Storage Logs Alerts	Cloud 873KB in 1 files Cloud I/O Mees	
Security	▲ 0 Kbps ▼ 0 Kbps	2:21 12:26 12:31 12:36 12:41 12:46
දිබු Cloud Services ඬී System	<pre> Cache Usage History Cache Hi 6.4GB Cache Hi Cache Hi Cache Hi Cache Hi</pre>	its () Hit Miss Thrashing
vGateway- 27bd 7.6.3111.22	of 100GB used 40	11:53 12:02 12:11 12:21 12:30 12:38 12:48

Note: <u>Pinning Folders so that Files are Always Available Locally</u> is performed n the **Configuration** view, by selecting **Cloud Drive > Pinned Folders** in the navigation pane.

Pinning Folders so that Files are Always Available Locally

Files in pinned folders stay on the HCP Anywhere Enterprise Edge Filer and are never evicted. This is useful for files that you always want to be available, with immediate access, avoiding downloading these files over the Internet. This ensures that the folder is always accessible even when the HCP Anywhere Enterprise Edge Filer is offline or if there is downtime of the cloud provider or HCP Anywhere Enterprise Portal.

The HCP Anywhere Enterprise Edge Filer supports many thousands of pinned folders.

Note: If the amount of data that you need to access locally can easily fit in a local appliance, it is recommended to pin all the data to provide the same levels of predictable performance and accessibility as a regular file server.

To pin files to be available locally in CACHING mode:

1. In the **Configuration** view, select **Cloud Drive > Pinned Folders** in the navigation pane. The **Pinned Folders** page is displayed.

HITACHI			Configuration Files	n) Hello admin 🗸
OO Main	+	Pinned Folders		
Cloud Drive	-	Folders owned by portal admin	Search by user	×Q
Pinned Folders Search		Uters #C Books		
윤 Users 《 Shares E Storage		C G portal admin C G fore Filer V C G inal V C G		
Logs		Music2		
습 Security 승 Cloud Services 윤 System		4 4 Page 1 of 1 >> >		
vGateway- 27bd 7.6.3111.22		Save Revert		

The **Pinned Folders** area is separated into a users pane and folders pane, with paging in the users pane. This makes it easier to page through the users and select the folders to pin.

- 2. Select a user to display the folders owned by the user and then select the folders that you want pinned for this user. In addition, you can use the search field to jump to a specific user.
 - **Note:** You can select a a user to select all the folders and subfolders owned by the user. You can also select a higher level folder to select all the subfolders under it and then uncheck specific folders to unpin them. If you check a cloud folder, all the subfolders under the cloud folder are pinned and any folders added later under the cloud folder will be pinned automatically.
- 3. Click Save.

The checked folders are pinned to the cloud share. The files in the pinned folders are downloaded from the HCP Anywhere Enterprise Portal. For example, after pinning a folder called **Photos**, the files in **Photos** are downloaded from the HCP Anywhere Enterprise Portal but the files in unpinned folders **My Files** and **Music** remain as stubs.

Note: When accessing the HCP Anywhere Enterprise Edge Filer from a Mac machine, you need to follow the procedure in <u>macOS: Accessing a HCP Anywhere Enterprise Edge Filer</u>.

What Happens to Files that are Not Pinned?

Files that are not pinned, are displayed in the HCP Anywhere Enterprise Edge Filer as stubs. When a user accesses a file stub, a small file is downloaded and opened without delay. When a user accesses a large file, the file is opened by streaming from the cloud and in parallel, the file is added to a background download queue. As the HCP Anywhere Enterprise Edge Filer storage space gets used up, the HCP Anywhere Enterprise Edge Filer starts to remove, evict, files leaving only a stub on the HCP Anywhere Enterprise Edge Filer.

Suspend and Unsuspend Cloud Sync

You can suspend or unsuspend cloud syncing at any time.

• To suspend syncing, in the **Configuration** view, select **Cloud Drive > Cloud Drive** in the navigation pane, and then click **Suspend**.

HITACHI		Configuration Files (2) Hello admin ~
OO Main	Cloud Drive	
Cloud Drive Pinned Folders Search	O All Synced	
요 Users 《 Shares E Storage	Suspend Settings Refresh Folders from Portal View Log	View in Portal View in Files Tab
Logs () Alerts () Security	+ 873KB in 1 files + 0 Kbps • 0 Kbps	1221 1226 1231 1236 1241 1246
රුි Cloud Services ඬ System	+ (2) Cache (Cache (Cache H)) + 6.4GB (Cache H) (Cache H	its
vGateway- 27bd 7.6.3111.22	O Kbps ▼ 58.2 Mbps	11:53 12:02 12:11 12:21 12:30 12:38 12:48

To resume syncing, in the **Cloud Drive** page click **Unsuspend**.

Refresh the Folder List From the HCP Anywhere Enterprise Portal

You can refresh the folder list from the HCP Anywhere Enterprise Portal.

• To refresh the folder list, in the **Configuration** view, select **Cloud Drive > Cloud Drive** in the navigation pane, and then click **Refresh Folders from Portal**.

HITACHI		Configuration Files (a) Helio admin ~	
Cloud Drive	+	Cloud Drive	Â
Cloud Drive Pinned Folders Search		ᢙ All Synced	
IM: Users Storage Image Logs Alerts Security	+ + + + +	 Suspend Stattings Refresh Folders from Portal View Log View in Portal View in Files Tab Cloud O B73KB In 1 files O Kbps O Kbps 	
Cloud Services Cloud Services System VGateway- 27bd 7.6.3111.22	++	© cache 6.4GB of 100GB used • Evictor Is Idie	
		▲ 0 Kbps ▼ 58.2 Mbps	-

Control Cloud Sync Upload and Download Speeds

You can limit the cloud sync upload and download speeds using throttling rules to define multiple times and bandwidths for bandwidth throttling.

To control sync throughput:

1. In the **Configuration** view, select **Cloud Drive > Cloud Drive** in the navigation pane. The **Cloud Drive** page is displayed.

HITACHI		Configuration Files 🕡 Hello admin 🗸
OO Main	+	Cloud Drive
Cloud Drive Pinned Folders Search		O All Synced
යුහු Users	+	(a) Suspend (b) Settings 🕞 Refresh Folders from Portal 🗐 View Log
 Shares Storage Logs Alerts 	+ + + +	$\begin{array}{ c c c c c } \hline \texttt{Cloud} & \textcircled{O} \\ \hline \texttt{873KB} \\ \texttt{in 1 files} \end{array} \qquad $
G Security	+	▲ 0 Kbps ▼ 0 Kbps
ර්බා Cloud Services 🖶 System	+ +	Image: Second
vGateway- 27bd 7.6.3111.22	:	of 100GB used ● Evictor is Idle ▲ 0 Kbps ▼ 58.2 Mbps

2. Click Settings.

The Cloud Drive Settings window is displayed.

Settings					ŝ
Sync Throughput	Control				
Add throttling rule	() Move Down () M	love Up			
Out Speed Limit (kb/s)	In Speed Limit (kb/s) 🔞	Start at	End at	Days	

When no throttling rules are defined, there is no speed restriction for uploading or downloading files to the Cloud Drive.

- 3. Click Add throttling rule.
- **4.** Define the following for the throttling rule:

Out Speed Limit (kb/s) - The maximum speed to use for cloud drive sync upload in Kbits per

second. The minimum value for the speed is 8kb/s. If a value is not set, there is no speed limit. In Speed Limit (kb/s) – The maximum speed to use for cloud drive sync download in Kbits per second. The minimum value for the speed is 8kb/s. If a value is not set, there is no speed limit. Start at – Specify the time when the bandwidth limit used for cloud drive sync throttling starts. End at – Specify the time when the bandwidth limit used for cloud drive sync throttling ends. When the end time is before the start time, the end time is the next day.

Days – Specify that the bandwidth used for cloud drive sync throttling should be restricted every day (the default) or only on specified days.

Note: A maximum of 50 rules can be defined.

When the start and end times for more than one rule overlap, the order of the rules in the list determines how they are implemented with the rule at the top of the list implemented first. Use **Move Down** and **Move Up** to change the order the rules are listed.

5. To remove a rule, select the rule row and click the $\overline{\mathbf{m}}$ icon.

The rule is removed.

6. Click Save.

Manage File Eviction From the Cache

Files that are evicted leave only the stubs in the cache.

When there are many files to be checked for eviction, the whole file system needs scanning. To improve the time required to determine which files need evicting, enable local deduplication on the HCP Anywhere Enterprise Edge Filer and run full reindexing, described in <u>Applying Local</u> <u>Deduplication to Existing Files</u>.

To manage eviction from the cache:

1. In the **Configuration** view, select **Cloud Drive > Cloud Drive** in the navigation pane. The **Cloud Drive** page is displayed.

HITACHI		Configuration Files (2) Hello admin ~
Cloud Drive ·	Cloud Drive	Î
Cloud Drive Pinned Folders Search	O All Synced	
 Shares Storage Gill Logs Alerts 	+ + + + + + + + + + + + + +	View in Portal View in Files Tab
System	+ Cache () Cache () Cache Hit (ts ①
27bd 7.6.3111.22	Evictor is Idle S8.2 Mbps S8.2 Mbps	1:53 12:02 12:11 12:21 12:30 12:38 12:48

2. Click Settings.

The Cloud Drive Settings window is displayed.

Cloud Drive	e Settings		3
\sim	Sync Throughput Control		
Sync Sync	Add throttling rule	ove Up	
Throughput	Out Speed Limit (kb/s) In Speed Limit (kb/s) 😨	Start at End at	Days
*	No throttling rules defined		
Advanced			
			Save Cancel

3. Select the Advanced option.

	Our and the last		
c I	Operation Mode:	Caching Gateway *	
iput	Instant Disaster Recovery:	Disabled -	
	High Watermark:	75 % Evict Now	
	Low Huterman.	0.0	

- 4. Change either the High Watermark or Low Watermark or both as required.
- Optionally, click Evict Now to start evicting files based on the eviction policy. The Evict Now window is displayed.

Evict Now	×
The current cache volume usage is 1%	
Click GO to start manual eviction process. The filer will evict files until the volume utilizat drops to the cache low watermark (65%)	ion
Files that are not in synchronized state, files that are open or files that are pinned, cannot be evicted.	
GOCan	col

Click GO to start evicting content from the cache.
 When Evict Now is run by the user, the process is the same as when a scheduled eviction is performed.

Eviction will not start if the amount of data in the cache is less than the low watermark. If required, throttling is also implemented.

Additional changes to the eviction policy can be configured. For details, contact Hitachi Vantara support.

Evicting Individual Folder Content From the Cache

You can evict individual folder content, including all the subfolder content, from the HCP Anywhere Enterprise Edge Filer cache. See <u>Evicting Folder Content From the Cache</u>.

Monitor HCP Anywhere Enterprise Edge Filer Caching

To monitor HCP Anywhere Enterprise Edge Filer caching:

• In the **Configuration** view, select **Cloud Drive** > **Cloud Drive** in the navigation pane. The **Cloud Drive** page is displayed.

HITACHI	Configuration Files (2) Helio admin ~
Cloud Drive -	Cloud Drive
Cloud Drive Pinned Folders Search	☐ ○ All Synced
ඩු Users –	🛞 Suspend 🛞 Settings 🖸 Refresh Folders from Portal 🔮 View Log 🗠 View in Portal 🔳 View in Files Tab
 c Shares Storage H Logs Alerts G Security 	Cloud 873KB in 1 files 0 Kbps v 0 Kbps v
승 Cloud Services - H 라 System - H	Cache Image: Cache Usage History Cache Hits Image: Cache Hits 6.4GB Image: Cache Hits Image: Cache Hits Image: Cache Hits
vGateway- : 27bd 7.6.3111.22	of 100GB used ● Evictor is Idle ▲ 0 Kbps ▼ 58.2 Mbps

The following information is available on the top and left side of the page:

- The scanning status between the edge filer and the portal, such as **All Synced**, **Scanning**.
- The amount of storage transferred between the HCP Anywhere Enterprise Edge Filer and the HCP Anywhere Enterprise Portal and the number of files involved.
- The rate of transfer of data in both directions between the HCP Anywhere Enterprise Edge Filer and the HCP Anywhere Enterprise Portal.
- The amount of data currently in the cache and the total amount of storage available.
- The status of the evictor, either idle or running.
- The number of currently active local connections to the HCP Anywhere Enterprise Edge Filer and the rate of transfer of data in both directions between the HCP Anywhere Enterprise Edge Filer and the local connection.
- The throttling status for the connection, either idle or running.

Note: The current throttling is displayed and not the aggregated value of all the connections.

The graphs show the following:

Cloud I/O – The rate of transfer of data over time from the HCP Anywhere Enterprise Edge Filer to the HCP Anywhere Enterprise Portal (**Upload**) and from the HCP Anywhere Enterprise Portal to the HCP Anywhere Enterprise Edge Filer over time (**Download**).

Usage History – The evictor threshold, the amount of data in the cache, and the amount of free space in the cache over time.

Cache Hits – The hits, misses and thrashing when accessing files and performing operations, such as write, on the files.

- Hit The file was accessed from the cache: it was not a stub file.
- **Miss** The file was a stub file that was downloaded from the HCP Anywhere Enterprise Portal. However, the file had not been accessed within the last 24 hours.
- Thrashing The file was a stub file that was downloaded from the HCP Anywhere Enterprise Portal. The file was not in the cache for less than 24 hours. Thrashing means that files that were recently evicted are needed.

Local Activity – The write throttling, the write rate from the local connections to the HCP Anywhere Enterprise Edge Filer, and the read rate from the HCP Anywhere Enterprise Edge Filer to the local connections over time.

Enable Fast Disaster Recovery

Business continuity is an organization's ability to ensure operations, and core business functions are not severely impacted by a disaster or unplanned incident that take critical systems offline. Being able to recover from a disaster is categorized by two factors: Recovery Time Objective (RTO) and Recovery Point Objective (RPO). RTO is the maximum time allowed to get the systems back online, and RPO is the maximum amount of data loss that can be suffered.

If an HCP Anywhere Enterprise Edge Filer fails, after setting up a replacement, the metadata from the HCP Anywhere Enterprise Portal can be downloaded quickly so that the stub files are almost immediately available on the replacement HCP Anywhere Enterprise Edge Filer.

Both metadata and data are populated to the replacement HCP Anywhere Enterprise Edge Filer based on priority: When a path is entered to access content, that content receives download priority, so it becomes available even when all the metadata has not been downloaded.

To initiate disaster recovery:

1. In the **Configuration** view, select **Cloud Drive** > **Cloud Drive** in the navigation pane. The **Cloud Drive** page is displayed.

HITACHI	Configuration Files 🕡 Hello admin ~
Cloud Drive -	Cloud Drive
Cloud Drive Pinned Folders Search	O All Synced
윤 Users +	🛞 Suspend 🛞 Settings 🕑 Refresh Folders from Portal 🔮 View Log 🖻 View in Portal 🗐 View in Files Tab
 <c p="" shares<=""></c> ⇒ Storage → Logs ↓ ↓	Cloud 873KB In tiles Cloud I/O Mps Upload Download Upload Upload
🗟 Security +	▲ 0 Kbps ▼ 0 Kbps
습 Cloud Services + 륨 System +	Scache Image: Scache Usage History Cache Hits Image: Scache Hits 68
vGateway- : 27bd 7.6.3111.22	of 100GB used • Evictor is Idle • Kutor is Idle • S8.2 Mbps

2. Click Settings.

The Cloud Drive Settings window is displayed.

e Settings				K
Sync Throughput Control				
Add throttling rule	ove Up			
Out Speed Limit (kb/s) In Speed Limit (kb/s) 😧	Start at	End at	Days	

3. Select the Advanced option.

When the utilization of the cache volume reaches the high watermark,	
Instant Disaster Recovery: Disabled Disabled O	
High Watermark: 75 % Evict Now	
Low Watermark: 65 %	

- 4. Change the Instant Disaster Recovery to Enabled.
- **Note:** Since enabling **Instant Disaster Recovery** can have a negative impact on ongoing use of the HCP Anywhere Enterprise Edge Filer, Hitachi Vantara recommends only enabling it when populating an HCP Anywhere Enterprise Edge Filer from the HCP Anywhere Enterprise Portal for the first time, after a disaster, and disabling it once the HCP Anywhere Enterprise Edge Filer is populated.

View the Cloud Sync Log

You can access the cloud sync log directly from the **Cloud Drive** page.

1. To access the cloud sync log, in the **Configuration** view, select **Cloud Drive > Cloud Drive** in the navigation pane.

Cloud Drive — Cloud Drive Pinned Folders Search () Su	C All Synced Spend ⊗ Settings ∑ Refresh Folders from Portal
Pinned Folders Search	
(ii) Su	spend 🐵 Settings 📝 Refresh Folders from Portal 🔮 View Log 🖻 View in Portal 🔳 View in Files Tab
요 Users +	
E Storage + E Logs + Alerts +	Cloud () 873KB In 1 files Kbps V 0 Kbps
System + vGateway- ; z7bd ;	Cache Hits Cache

2. Click View Log.

The Log Viewer page is displayed showing the <u>Cloud Sync Log</u>.

Accessing Previous File Versions

You can view and restore previous versions of the end-user files and folders residing in the cloud on the HCP Anywhere Enterprise Portal, or locally on the HCP Anywhere Enterprise Edge Filer.

To view and restore previous versions:

- **1.** In the **Files** view, navigate to the file.
- 2. Right-click the file and select Versions.
- 3. Click the desired version of the file.

Version Details					×
PDF Jun 07, 2023 04:15PM Current 658.4 KB					
bownload	>	۲	Preview		>
Restore					>
				Back	Cancel

4. Select the action for the file version. The options include:

Download – Download the file to your local machine.

Preview – If a preview of the file is possible, this option is displayed. **Restore** – Restore the version. If a version of the file exists, a window is displayed where you can either replace the existing file with the version or rename it.

a) Select the option you want.

A window is displayed when the restore has completed.

b) Click OK.

macOS: Enabling Using Finder to Search in the HCP Anywhere Enterprise Edge Filer

When using a Mac computer to search for files in a share on the HCP Anywhere Enterprise Edge Filer, you can search for these files using Mac Finder. Enabling file searches requires a file index. After indexing completes, you can search for files even when the HCP Anywhere Enterprise Edge Filer syncing is suspended.

Note: Building and maintaining this index can impact performance and the search mechanism is disabled by default.

Searching in Finder will only return the list of files for which the user has permission to see.

To enable searching for files in HCP Anywhere Enterprise Edge Filer shares using Mac Finder:

- **Note:** Do not enable file searching on a Mac if you also configure NFS access, described in <u>Configuring FTP Access</u>.
- 1. In the **Configuration** view, select **Cloud Drive > Search** in the navigation pane. The **File Indexing** page is displayed.
- 2. Click Enable file indexing.

3. Restart the HCP Anywhere Enterprise Edge Filer. For details, see <u>Resetting a HCP Anywhere</u> <u>Enterprise Edge Filer to its Default Settings</u>.

To disable file search:

- 1. In the **Configuration** view, select **Cloud Drive > Search** in the navigation pane. The **File Indexing** page is displayed.
- 2. Click Disable file indexing.
- **3.** Restart the HCP Anywhere Enterprise Edge Filer. For details, see <u>Resetting a HCP Anywhere</u> <u>Enterprise Edge Filer to its Default Settings</u>.

Searching Using Mac Finder

You must have at least three characters in the search string. When searching for strings with spaces, use double quotes around the search string.

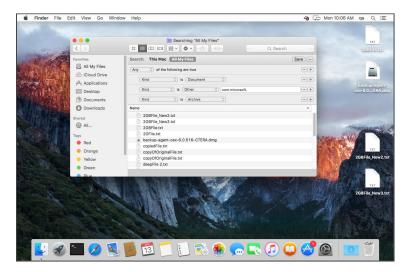
You can search for file names but not for file types, such as .doc or .pdf files. However, you can search for a file type that is part of the file name, for example, *mypdfile.pdf*.

To search for a file type that is part of the file name:

1. In Finder, open the drop-down search criteria menu. The advanced search settings are displayed.

É Finder File E	dit View Go Wind	dow Help			🍓 💭 Mon 10):10 AM qa Q ∷≣
						-
		E	All My Files			TAT
A Marine State			*·	Q Search	-	2GBFILE.bd
100 1000	Favorites	Search: This Mac All M	Open in New Tab		iave) -	
and the second state	All My Files	2GBFile_New2.txt	Arrange By			-
AND APPEND	iCloud Drive	2GBFile_New3.txt	Show View Options			
COMPANY STATE	Applications	2GBFile.txt 2GFile.txt	Show Search Criteria		and the second se	And I wanted

2. Enter the search term in the name field rather than in the main search bar.



Chapter 6. Managing Local Shares

Folders and files that are required locally, but not required to be part of the global namespace, can be stored on the HCP Anywhere Enterprise Edge Filer and not synced with the HCP Anywhere Enterprise Portal. This content can be shared locally over the network and backed up to the cloud. Files can be shared in any of the following ways:

- Using **Windows File sharing**. Every share is exposed through Windows File Sharing so that Windows clients on the network can access the shares through Windows.
- Using **FTP**. You can use the HCP Anywhere Enterprise Edge Filer as an FTP server to transfer files or folders over the local network. The FTP protocol is disabled by default.
- Using NFS. You can use the HCP Anywhere Enterprise Edge Filer as an NFS server, enabling clients with specified IP addresses to access network shares on the HCP Anywhere Enterprise Edge Filer, as if the shares were located on the client's hard drive. Both NFS versions 3 and 4 protocols are supported, depending on the protocol used by the client.

To make any local folder accessible to other HCP Anywhere Enterprise Edge Filer requires the following basic steps:

- 1. Assign the user a HCP Anywhere Enterprise Edge Filer user account. See <u>Managing the HCP</u> <u>Anywhere Enterprise Edge Filer Users</u>.
- 2. Configure the relevant protocol (Windows File Sharing, FTP, NFS) that you want the users to use to access the files. See <u>Network Sharing Protocols</u>.
- 3. Make a network share on the folder you want to share. See Managing Network Shares.
- 4. Provide access to the share. See <u>Accessing Network Shares</u>.

Configuring HCP Anywhere Enterprise Edge Filer Shares

Files on a HCP Anywhere Enterprise Edge Filer can be shared by users both over a LAN and WAN and are synced to each HCP Anywhere Enterprise Edge Filer using a HCP Anywhere Enterprise Portal.

Configuring file sync and share requires that the HCP Anywhere Enterprise Portal is configured before the HCP Anywhere Enterprise Edge Filer. For details, see *Configuring the HCP Anywhere Enterprise Portal as a Precondition to Setting Up the HCP Anywhere Enterprise Edge Filer* in the installation guide.

Note: When using HCP Anywhere Enterprise Migrate to migrate shares from a file system to a HCP Anywhere Enterprise Edge Filer, the shares are setup in the HCP Anywhere Enterprise Portal as part of the migration process.

To configure HCP Anywhere Enterprise Edge Filer shares:

- 1. Verify that the HCP Anywhere Enterprise Edge Filer is connected to Active Directory.
 - a) Log in to the HCP Anywhere Enterprise Edge Filer as an administrator.
 - b) In the Configuration view, select Shares > Windows File Sharing in the navigation pane. The Windows File Sharing page is displayed.

HITACHI			Configuration Files	(1) Hello admin ~
B Main + Cloud Drive +	Windows File Sharii	ng		
보인, Users + <	Enable SMB (Windows File Sharing) Packet Signing: Client Idle Disconnect Time (minutes): Use compatibility mode: Hide unreadable files and folders:	Disabled • • •		
E Storage + E Logs + Alerts +	Sa Domain/Workgroup Assigned to: product.ne Operation Mode: Domain			
Security + Could Services + System +	Status: OK	o Domain/Workgroup		
vGateway- ; 27bd 7.6.3111.22				

- c) In the Domain/Group section, verify that the Operation Mode is Domain and that the Status is OK. Otherwise, click Connect to Domain/Workgroup to connect to an Active Directory domain.
- 2. In the Configuration view, select Cloud Drive > Cloud Drive in the navigation pane. The Cloud Drive page is displayed.

HITACHI	Configuration Files (2) Hello admin ~
Main +	Cloud Drive
Cloud Drive Pinned Folders Search	☐ ⊙All Synced
윤 Users +	Suspend Settings Comparison Refresh Folders from Portal Suspend View in Portal Teles Tab Suspend Suspend
	Cloud 873KB in 1 files 0 Kbps • 0 Kbps • 0 Kbps • 0 Kbps
G Cloud Services + ➡ System +	Image: Second
vGateway- : 27bd 7.6.3111.22	of 100GB used ● Evictor is Idle ▲ 0 Kbps ▼ 58.2 Mbps

3. Click Settings.

The Cloud Drive Settings window is displayed.

	5 Theorem	Control 1				Ĉ
S Sync	Sync Throughput Add throttling rule	Move Down M	love Up			
hroughput	Out Speed Limit (kb/s)	In Speed Limit (kb/s) 🔞	Start at	End at	Days	

4. Select the Advanced option and make sure the Operation Mode is Caching Gateway.

Instant Disaster Recovery: Disabled When the utilization of the cache volume reaches the high watermark, evictor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now Low Watermark: 65 %	When the utilization of the cache volume reaches the high watermark, exictor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now	When the utilization of the cache volume reaches the high watermark, exictor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now	Operation Mode:	Caching Gateway	-	
When the utilization of the cache volume reaches the high vatermark, evictor runs until the utilization drops to the low vatermark. High Watermark: 75 % Evict Now	When the utilization of the cache volume reaches the high watermark, exclor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now	When the utilization of the cache volume reaches the high watermark, exictor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now				
evictor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now	evictor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now	evictor runs until the utilization drops to the low watermark. High Watermark: 75 % Evict Now	T Instant Disaster Recovery:	Disabled	~ 0	
	ι		Low Watermark:	65 %		
				05		

5. Click Save.

To work with Windows ACL, the sharing protocol must be **Windows ACL Emulation Mode**. Windows ACL enabled folders on the HCP Anywhere Enterprise Portal cannot be synced unless the cloud share is defined as **Windows ACL Emulation Mode**.

To configure HCP Anywhere Enterprise Edge Filer shares with ACL support:

- 1. In the **Configuration** view, select **Shares > Shares** in the navigation pane.
- **2.** Click the cloud share that was automatically created when it synced to the HCP Anywhere Enterprise Portal.

The Select a Folder to Share wizard opens, displaying the volumes and folders on the HCP Anywhere Enterprise Edge Filer.

HITACHI						Confi	guration Files	(1) Hello admin ~
OO Main	+	Shares						
Cloud Drive	+	Shares						
ഏ Users	+	🕀 New Share 🛛 🖉	Edit Share 🛛 🝵	Remove Share	Advanced			æ
0		Name	Volume	Path		×	Status	
୍ଟ୍ Shares	-	C cloud	vol1	/cloud	Select a Folder to Share Select the folder to share across the network.		ONLINE	
Shares		Coloud-Books	vol1	/cloud/u		L⊕'	ONLINE	
Windows File Sha	aring							
FTP Server		Coud-Music	vol1	/cloud/u	● New Folder		ONLINE	
NFS					⊿ Cacloud			
8.					⊿ 🗁 users			
Storage	+				4 🗁 portal admin			
Logs	+				# Books			
					□ Portal			
🗘 Alerts	+				▲ ⊕ Edge Filer □ Final			
Security	+				Drive			
දි _ක ි Cloud Services	± 1							
Coud Services					This is a nested share.			
🖶 System	+							
						Next> Cancel		
vGateway- 27bd 7.6.3111.22	:							

3. Select the cloud folder to share and click **Next**.

The Specify the Network Share Name window is displayed.

Please specify a name fo	sed by users. or this share.		L∰
Network Share Name:	cloud-Books		
Comment (Optional):			

4. Optionally, change the **Network Share Name** and click **Next**. The **Sharing Protocols** window is displayed.

Sharing Protocols			×
Select the protocols through v	which you want to expose the selected dire	ectory.	
Windows File Sharing	Windows ACL Emulation Mode	•	
Block the following file extens	ions	0	
Client Side Caching	Disabled	•	
	ation mode, file access through the Web U , is restricted to administrators only	I, as well	
FTP Search			
< Previous		Next	Cancel

Users access the shared files and folders through standard Windows client computers; for

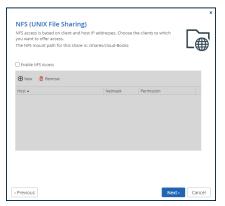
example, using Windows File Explorer through the SMB access provided by the HCP Anywhere Enterprise Edge Filer.

Windows ACL Emulation Mode also allows you to block users from writing specific file types into the HCP Anywhere Enterprise Edge Filer share or gaining control of the content located on it.

Note: Windows File Sharing is checked by default and cannot be deselected.

5. Click Next.

The NFS (UNIX File Sharing) window is displayed.



6. Click Next.

The **Configure Permissions** window is displayed.

Domain PRODUCT	Users •	Quick	Search	
Name	Permis	sion		
🧕 Everyone	Read/V	Irite	Ö	

7. Specify the share permissions.

Note: These permissions are not inherited from the HCP Anywhere Enterprise Portal.

- 8. Click Next and then click Finish.
- 9. Repeat for all the shares you want to work with Windows ACLs.

The shares are displayed in the **Shares** page.

Users can access their files directly with SMB by mapping the share name in the file manager. Both Windows File Explorer and macOS Finder report that the total space and available free space for the mapped drive is a very high number to simulate the caching ability of infinite storage.

Note: Share names cannot include 2 spaces together in the name.

You can achieve the nested sharing without imposing Windows ACLs.

To configuring HCP Anywhere Enterprise Edge Filer shares without ACL support:

- When configuring the HCP Anywhere Enterprise Portal, on each cloud drive folder group that you do not want ACL support, uncheck Enable Windows ACLs.
- When configuring the HCP Anywhere Enterprise Edge Filer, set Only Authenticated Users and not Windows ACL Emulation Mode, which is set by default.

Network Sharing Protocols

HCP Anywhere Enterprise Edge Filers support the following protocols for sharing files and folders over the network:

Windows File Sharing – Enabled on all network shares and enables Windows clients on the network to access the shares through Windows. For more details, see <u>Configuring Windows File</u> <u>Sharing</u>.

FTP – A protocol used to transfer files from one device to another over a network. You can set up an FTP server on the HCP Anywhere Enterprise Edge Filer and share files by FTP. Users can access and download the files you share using a web browser. You can set up the FTP server to require username-password authentication or to allow anonymous connections. See <u>Configuring FTP Access</u>. The FTP protocol is disabled by default.

NFS (Network File System) – Clients with certain IP addresses can access network shares on the HCP Anywhere Enterprise Edge Filer, as if the shares were located on the client's hard drive. See <u>Configuring NFS Access</u>.

Configuring Windows File Sharing

Windows files that you want to share via the HCP Anywhere Enterprise Edge Filer can be protected using one of the following access levels:

- Only Authenticated Users
- Windows ACL Emulation Mode

Only Authenticated Users

Users are required to authenticate using their HCP Anywhere Enterprise Edge Filer user name and password, in order to access the network share.

Windows ACL Emulation Mode

The share is a Windows ACL emulation mode share supporting a full Windows file system folder structure and permissions, including enforcement and settings, known as NT ACLs, and extended attributes such as read-only and hidden.

End users who are familiar with a given folder structure and shares, as well as a given permission scheme, while using the Windows file server, continue to see the same folder structure, shares, and permission scheme after migration to the HCP Anywhere Enterprise Edge Filer. This enables the migration from a current Windows Server-based file system to a HCP Anywhere Enterprise Edge

Filer, without the need to apply any structural changes such as flattening the folder structure or simplifying the permissions scheme. The migration is entirely transparent to the end user.

Transition of the mapped network drives and share names available on the Windows client from the Windows file server location to the HCP Anywhere Enterprise Edge Filer location is performed seamlessly using AD GPO capabilities.

File and folder access continue to be available following the migration in the same way they were in the Windows Server-based file system. Access after the migration is through the SMB protocol provided by the HCP Anywhere Enterprise Edge Filer.

Users continue to access the files and folders through standard Windows client computers; for example, using Windows File Explorer.

192.168.13.11	- 🗆 ×
File Home Share View	~ 📀
Image: Second	Current Wew Gurent Show/hide
× =	Show/hide
A •	
← → ~ ↑ 💻 > Network > 192.168.94.113	✓ (7) Search 192.168.94.113 P ExampleShare
	ExampleShare (\\192.168.13.11) Properties ×
PreviousVersions	General Network Security Previous Versions Customize Object name: \\192.168.13.11\ExampleShare Group or user names: Security Broot (Unix User'root) \\$ SYSTEM To charge permissions, click Edit. Permissions for Everyone Allow Permissions for Everyone Allow Modify
3 items 1 item selected	Read & execute List folder contents Read Wite Snecial nemissions For special permissions or advanced settings. Advanced OK Cancel Apply

To set up shares in the HCP Anywhere Enterprise Edge Filer with NT ACL permissions, you need to do the following:

- Set up the users that will access the file system. HCP Anywhere Enterprise recommends taking the users from Active Directory. For more details, see <u>Configuring Windows File Sharing for</u> <u>Active Directory</u>.
- Set up the share with ACL emulation in the HCP Anywhere Enterprise Edge Filer. For more details, see <u>Managing Network Shares</u>.
- Copy the files from the Windows File Server. For more details, see <u>Copying Files From an</u> <u>External File Server to the HCP Anywhere Enterprise Edge Filer</u>.

To configure Windows File Sharing:

 In the Configuration view, select Shares > Windows File Sharing in the navigation pane. The Windows File Sharing page is displayed.

HITACHI	Configuration Files 🔞 Hello admin 🗸
OB Main + 즙 Cloud Drive +	Windows File Sharing
윤 Users + 《 Shares —	Enable SMB (Windows File Sharing) Packet Signing: Disabled Client (die Disconnect Time (minutes): 10
Shares Windows File Sharing FTP Server	Clerit (ile Disconect Time (minutes): 10 Use compatibility mode: Hide unreadable files and folders:
NFS E Storage +	Save Revert Domain/Workgroup
Logs +	Assigned to: product.net Operation Mode: Domain Advanced Mappings
Security +	Status: OK Connect to Domain/Workgroup
€ System + vGateway- : 27bd 7.6.3111.22	

Where:

Enable SMB (Windows File Sharing) – Enable or disable Windows file sharing. If Windows file sharing is disabled, Windows shared folders, defined via Shares > Shares, as described in <u>Managing Network Settings</u>, are no longer accessible.

Packet Signing – Whether SMB packet signing is required or not, or whether it is dependent on the agreement of the client.

Client Idle Disconnect Time (minutes) – The amount of time in minutes after which a client should be disconnected, if the connection is idle. There is usually no need to change this setting. The default is 10 minutes.

Use compatibility mode – Enable access by Windows versions 2000 or earlier. Enabling this option reduces security.

Hide unreadable files and folders – Hide unreadable files or folders, or shares to which users do not have access, when users access shares via Windows File Sharing.

- 2. Click Save to save the Windows File Sharing settings.
- 3. Specify the **Domain/Workgroup** information:

Assigned to – The name of an Active Directory domain or Windows workgroup to which the HCP Anywhere Enterprise Edge Filer's Windows File Sharing service is connected.
Operation Mode – Whether the HCP Anywhere Enterprise Edge Filer's Windows File Sharing service is connected to an Active Directory domain or to a Windows workgroup.
Status – The status of the connection to an Active Directory domain or Windows workgroup.
Advanced Mappings – When connected to an Active Directory domain. See Defining Users From an Active Directory Domain, Tree or Forest.

- 4. Click **Connect to Domain/Workgroup** to join an Active Directory domain or Windows workgroup:
 - For a network with a Active Directory with either a single domain or multi-domain environment: a tree or forest, see <u>Configuring Windows File Sharing for Active Directory</u>.
 - For a network with no domain controller, see Configuring Windows File Sharing for a

Workgroup.

Configuring Windows File Sharing for Active Directory

To configure Windows file sharing for an individual Active Directory domain and for an Active Directory tree or forest, see <u>Defining Users From an Active Directory Domain, Tree or Forest</u>.

Configuring Windows File Sharing for a Workgroup

To configure Windows file sharing for a workgroup:

- 1. In the **Configuration** view, select **Shares > Windows File Sharing** in the navigation pane. The **Windows File Sharing** page is displayed.
- 2. Click Connect to Domain/Workgroup.

The **Windows File Sharing** wizard opens, displaying the **Connect to Domain/Workgroup** window.

Workgroup: WORKGROUP	
O Domain:	

- **3.** Choose **Workgroup**, and then select the workgroup you want or else type the name of the workgroup in the empty field.
 - **Note:** You must assign this same workgroup name to all of the computers in the network. In most Windows versions, the default workgroup name is WORKGROUP. The HCP Anywhere Enterprise Edge Filer automatically scans for available workgroups in the LAN. The results of these scans can be selected from the **Workgroup** list.
- 4. Click Next and then click Finish.

Configuring FTP Access

Note: By default, the FTP sharing protocol is disabled.

To configure FTP access:

 In the Configuration view, select Shares > FTP Server in the navigation pane. The FTP Server page is displayed.

HITACHI	Configuration Files 🔞 Hello admin ~
00 Main +	FTP Server
전 Cloud Drive + 윤 Users +	Enable the FIP server
් Shares —	Allow only TL5 connections:
Shares Windows File Sharing	Banner Message Welcome to HCP Anywhere Edge Filer FTP.
FTP Server	
NFS +	Anonymous FTP Develoads Anonymous FTP Directory:
Logs +	Limit download bandwidth Kürsec per connection
Alerts +	Save Revert Test
Security +	
🖶 System +	
vGateway- : 27bd 7.6.3111.22	

2. Check Enable the FTP server and specify the FTP details.

Allow only TLS connections – Allow only Transport Layer Security (TLS) connections to the network shares on the FTP Server.

Maximum Connections per Client – Type the maximum number of concurrent FTP connections allowed per client. The default value is 5.

Banner Message – The message to display at the top of the page when accessing the network shares via FTP.

Allow anonymous FTP downloads – Allow users to access and download files from a specific directory on the FTP server, without authenticating.

- Anonymous FTP Directory The directory you want to allow users to download by FTP without authenticating.
- Limit download bandwidth Restrict the bandwidth used for FTP downloads. Enter the maximum bandwidth to use for FTP downloads in kilobytes per second.
- 3. Click Revert, if you made changes that you did not save, to revert to display the saved values.
- 4. Click Save.
- 5. Test the settings. FTP testing is not available if you check Allow only TLS connections.
 - a) Click **Test** and in the **Authentication Required** window, enter the HCP Anywhere Enterprise Edge Filer user name and password.
 - b) Click Login. The FTP index opens, displaying all the shares you have access to that are FTP enabled.

Configuring NFS Access

When Network File System (NFS) access is enabled, clients with certain IP addresses can access network shares on the HCP Anywhere Enterprise Edge Filer as if the shares were located on the client's hard drive. For information, see <u>Mounting Network Shares Using NFS</u>.

Both NFS versions 3 and 4 protocols are supported, depending on the protocol used by the client.

Note: When enabling NFS on the share, the cloud share, /cloud, is not available. To make the cloud share available, contact Hitachi Vantara Support.

To configure NFS access:

1. In the **Configuration** view, select **Shares > NFS Settings** in the navigation pane. The **NFS Settings** page is displayed.

HITACHI		Configuration Fil	es 🕡 Hello admin 🗸
Cloud Drive +	NFS		
원 Users + 《 Shares - Shares Windows File Sharing	Enable NFS Use asynchronous writes: Aggregate write requests: Sove Revert		
FTP Server NFS			
E Storage + Logs + Alerts +			
Security +			
vGateway- : 27bd 7.6.3111.22			

2. Check Enable NFS and specify the details.

Use asynchronous writes – Enable asynchronous writes. When a client attempts to write data to the HCP Anywhere Enterprise Edge Filer, the HCP Anywhere Enterprise Edge Filer sends the client an acknowledgment of the write request, before actually writing the data to the disk. This enables the client to post additional write requests to the HCP Anywhere Enterprise Edge Filer, while the HCP Anywhere Enterprise Edge Filer is still writing data from the first request to disk, thereby improving throughput.

Aggregate write requests – Write requests are aggregated and sent in a single batch, instead of one at a time, to improve throughput.

- 3. Click Revert, if you made changes that you did not save, to revert to display the saved values.
- 4. Click Save.

Managing Network Shares

The **Shares** page allows you to manage all network shares on the HCP Anywhere Enterprise Edge Filer, both for content that is synced with a HCP Anywhere Enterprise Portal and content that is only available locally.

To define a network share:

1. In the **Configuration** view, select **Shares > Shares** in the navigation pane. The **Shares** page is displayed.

HITACHI								Configuration Files (1) H	iello admin 🖌
OO Main	+	Shares							
Cloud Drive									
ഫ്രീ Users		🕀 New Share 🧳	Edit Share 🛱 R	emove Share	Advanced				2
Shares	-	Name	Volume	Path	Access	Protocols	Comment	Status	
Shares		C cloud	vol1	/cloud	Windows ACL Emulation Mode	Q	Auto-generated	ONLINE	
Windows File Shar	ring								
FTP Server									
Storage									
Logs									
🗘 Alerts									
Security									
රුඛු Cloud Services									
🛱 System									
vGateway- 27bd 7.6.3111.22									

2. Click New Share.

The **Select a Folder to Share** window opens, displaying the volumes and folders on the HCP Anywhere Enterprise Edge Filer.

Select the folder to share across the network.	
O New Folder	
▶ 🕞 cloud	
▶ 🗅 vol1	

- 3. Select the volume, folder, or subfolder on which you want to define the share.
 - To create a new subfolder to select as a nested share, select the parent folder, click **New Folder**, and then assign the subfolder a name.
 - You can define nested shares based on subfolders within the own cloud drive, which are available to users based on the permissions defined when creating the share. If the share

has NT ACL settings, these settings are applied to the nested share and to every share below this share. For example, if the administrator has a personal cloud drive named $M_{yGateway}$, to which he migrated a full old Windows File Server with the following structure:

```
/Cloud
/WIN-File-Server
/Share1
/Share2
/My Files
/Shared with me
```

If, before the Windows File Server migration, \\Win-File-Server\Share1 and \\Win-File-Server\Share2 shares were exposed in the old file server, users logged in to MyGateway can access the content of the shares: \\MyGateway\Share1 and \\MyGateway\Share2 after they are defined:

```
Share1 = \\MyGateway\Cloud\WIN-File-Server\Share1
```

- Share2 = \\MyGateway\Cloud\WIN-File-Server\Share2
- 4. Click **Next** and then assign the network share a name.

	ed by users.	e allows you to define a netv	
Network Share Name:	cloud-Books		
Comment (Optional):			
Previous			Next > Cancel

5. Click **Next** and choose through which sharing protocols to expose this share.

Sharing Protocols Select the protocols through v	which you want to expose the selected dir	ectory.	Ľ₩
Windows File Sharing	Windows ACL Emulation Mode	•	
Block the following file extens	ions	0	
Client Side Caching	Disabled	•	
	tion mode, file access through the Web L , is restricted to administrators only	JI, as well	
☐ FTP ♥ Search			
< Previous		Next >	Cancel

Windows File Sharing is checked by default and cannot be deselected. From the drop-down, select one of these access levels for the share:

• Windows ACL Emulation Mode – The share will be a Windows ACL emulation mode share.

Users access the shared files and folders through standard Windows client computers; for example, using Windows File Explorer through the SMB access provided by the HCP

Anywhere Enterprise Edge Filer.

Windows ACL Emulation Mode also allows you to block users from writing specific file types into the HCP Anywhere Enterprise Edge Filer share or gaining control of the content located on it.

To copy the files with their ACLs to the HCP Anywhere Enterprise Edge Filer, see <u>Copying</u> <u>Files From an External File Server to the HCP Anywhere Enterprise Edge Filer</u>.

Only Authenticated Users – Users will be required to authenticate using their HCP Anywhere Enterprise Edge Filer user name and password, in order to access the network share.

			L∉
Windows File Sharing	Only Authenticated Users	-	
Client Side Caching	Disabled	-	

For more information, see Configuring Windows File Sharing.

Block the following file extensions – Prevent the creation of files with the listed extensions, with each extension separated by a comma (,).

Client Side Caching – Server files are designated for off-line work so that a copy of the files is cached on the client computer and can be accessed when the client is off line in exactly the same way as if they were stored on the Windows file server.

Automatic caching for documents – A copy of the files is cached automatically. **Disabled** – The client computer cannot cache files locally and the updated copy must be retrieved from the file server.

Manual caching for documents – Users must cache files manually.

6. Specify how you want to share the files.

FTP – Users will be able to access and download files on this share from the FTP site. To configure the FTP server, go to **Shares > FTP Server**.

 $\ensuremath{\textit{Search}}\xspace - \ensuremath{\textit{macOS}}\xspace$ users will be able to search for files in this share.

7. Click Next.

The NFS (UNIX File Sharing) window is displayed.

you want to offer access.	and host IP addresses. Choos share is: /shares/cloud-Books	e the clients to which	L
Enable NFS Access			•
🕀 New 💼 Remove			
Host 🔺	Netmask	Permission	

Note: The NFS mount path for the share, when NFS access is enabled, is displayed.

- Check the Enable NFS Access option to enable NFS clients to access the share. Both NFS versions 3 and 4 protocols are supported, depending on the protocol used by the client.
 Either click New to configure each client to which you want to grant access. A row is displayed
 - in the table: a) Enter the client's IP address and netmask in the appropriate fields.
 - b) Select the permitted level of access to the network share via NFS. Options are None, Read Only, or Read/Write.

Or,

Click Remove and then select the client's IP address to remove the client from the list.

Note: The NFS mount path for the network share is specified at the top of the window.

9. Click **Next** and set which users can access this network share.

Configure Pern					ļ
A person must have a u the users with whom to	ser account in ore share these files:	der to acc	ess this networ	k share. Choose	L₩
Lomain PRODUCT	Users 👻	Quick	Search		
Name	Permis	sion			
🎗 Everyone	Read/W	írite	â		
Previous				Next>	Cancel

a) In the Local Users drop-down list, select one of the following:

Local Users – Search the users defined locally on the HCP Anywhere Enterprise Edge Filer.

Domain domain Users – Search the users belonging to the domain called *domain*. **Local Groups** – Search the user groups defined locally on the HCP Anywhere Enterprise Edge Filer.

Domain domain Groups – Search the user groups belonging to the domain called *domain*.

b) In the **Quick Search** field, type a string that is displayed anywhere within the name of the user or user group you want to add, or click . . . to list the users.

A list of users or user groups matching the search string is displayed.

c) Select the user or user group in the table.

The user or user group is added to the list of users and user groups who should have access to the network share.

- **d)** For each user and user group, click in the **Permission** field, and then select the access level from the drop-down list.
- 10. Click Next and then Finish to complete the wizard.

НІТАСНІ							Configuration Files) Hello admin 🗸
OD Main +	Shares							
요 Users +	🕀 New Share 🧳	Edit Share 🛛 💼 I	Remove Share 🔹 🌣	Advanced				2
් Shares —	Name	Volume	Path	Access	Protocols	Comment	Status	
	Coud	vol1	/cloud	Windows ACL Emulation Mode	۹	Auto-generated	ONLINE	
Shares	Coud-Books	vol1	/cloud/users/	Windows ACL Emulation Mode	۹		ONLINE	
Windows File Sharing FTP Server	Corol-Music	vol1	/cloud/users/	Windows ACL Emulation Mode	۹		ONLINE	
NFS								
Storage +								
Logs +								
🗘 Alerts +								
💮 Security +								
ζ _⊕ Cloud Services +								
🖶 System +								
vGateway- : 27bd 7.6.3111.22								

Blocking File Types from Network Shares

HCP Anywhere Enterprise Edge Filer administrators can block users from writing specific file types into the HCP Anywhere Enterprise Edge Filer share or gaining control of the content located on it. The file types that are blocked are set per network share.

When file types are blocked, share users cannot create files or write to files with a blocked extension or rename a file to a forbidden extension. However, if you block extensions for a pre-existing share that already contains files with the forbidden extension, the pre-existing files are not deleted.

To block files:

- 1. In the **Configuration** view, select **Shares > Shares** in the navigation pane.
- 2. Click **New Share** to create a new share with blocked file type, or **Edit Share** to block file types on an existing share.
- 3. Proceed through the procedure to define a network share. In the **Sharing Protocols** window:
 - a) Define the access level for Windows File Sharing as Windows ACL Emulation Mode. Users will be able to access the share using the SMB protocol and configure permissions for files and folders in the same way they would on a Windows file server.
 - b) Select the Block the following file extensions check box, and then define the file extensions for the types of files you want to block.
 You can block multiple file extensions, as shown in the image below. List only the letters of each file extension, using a comma to separate between them. For example, to block EXE files, list the exe file extension; to block PDF files, list the pdf file extension. To block both EXE and PDF files, list them as exe, pdf. Blocked extensions are not case sensitive.

Wildcards (for example, *.exe) are not supported.

					L4
Windows File Sharing	Window	vs ACL Emulation Mode	• •		
Block the following file extens	ions	exe, iso		Ø	
Client Side Caching	Disable	d	•		
Notice: In Windows Emula as the following protocols				s well	
FTP					
Search					

4. Click Next and continue with the wizard to create the new share or edit the existing share.

Copying Files From an External File Server to the HCP Anywhere Enterprise Edge Filer

Note: To copy a whole file server (such as a Windows or NetApp file server) by migrating it to the HCP Anywhere Enterprise Edge Filer requires in-depth planning and should be done in conjunction with Hitachi Vantara support.

To copy individual shares from a file server, use the procedure described in *Migrating Shares* in the installation guide. You can also perform a delta migration when you previously set up the migration, as described in the installation guide.

Modifying Shares

Select the share and click Edit Share. Proceed as for defining a new network share.

Removing Shares

Select the share, click **Remove Share** and then **Yes** to confirm. This removes the share from the volume or folder it was defined on.

Accessing Network Shares

This section includes the following topics:

- <u>Viewing Network Shares Using Windows File Sharing</u>
- Accessing Network Shares Using FTP
- Mounting Network Shares Using NFS
- <u>Accessing the Volumes Share</u>

Viewing Network Shares Using Windows File Sharing

Use this procedure to view network shares when Windows File Sharing is configured. For information, see <u>Configuring Windows File Sharing</u>.

- On a computer connected to the same switch as the HCP Anywhere Enterprise Edge Filer, view the network neighborhood. The network neighborhood is accessed in different ways, dependent on the operating system. For example, in Microsoft Windows 10, click Start > Settings and then click Network & Internet.
- 2. Double-click the HCP Anywhere Enterprise Edge Filer icon.
 - A list of network shares is displayed.
 - **Note:** When accessing a network share, if the user name and password on the computer are identical to a user name and password on the HCP Anywhere Enterprise Edge Filer, the computer automatically logs in to the share using that user name and password. You will not be prompted to authenticate. In all other cases, a pop-up window will appear, and you must authenticate using a valid user name and password.

Accessing Network Shares Using FTP

You can access the network shares through the FTP site.

- 1. In a web browser go to ftp://deviceIP. Where deviceIP is the HCP Anywhere Enterprise Edge Filer IP address.
- 2. Enable the FTP server on the HCP Anywhere Enterprise Edge Filer.
- **3.** Enter the user name and password defined for you in the HCP Anywhere Enterprise Edge Filer in order to authenticate the access to the FTP.

If you enabled anonymous (unauthenticated) downloads from a specific directory, authentication is not required in order to access and download from that directory.

Mounting Network Shares Using NFS

When NFS access is configured, use the following procedure to access network shares from a Linux/UNIX computer.

• Run the following command to mount the share: mount deviceIP:mountPath Where:

deviceIP – The HCP Anywhere Enterprise Edge Filer DNS namer or IP address. **mountPath** – The network share's mount name and path.

• Run the following command: mount *deviceIP:mountPath localFolder* Where:

deviceIP – The HCP Anywhere Enterprise Edge Filer DNS namer or IP address. **mountPath** – The network share's mount path.

localFolder – The name of the local folder.

Note: To view a network share's mount path, in the **Shares > Shares** page, click the name of the network share. The **Network Share** wizard's **NFS (UNIX File Sharing)** window displays the network share's mount path in title area.

For example, if the HCP Anywhere Enterprise Edge Filer IP address is 10.1.1.1, the mount path is /shares, and the name is share9 and you want to mount this network share on the local folder /var/mnt/share9, the relevant command is:

```
mount 10.1.1.1:/shares/share9 /var/mnt/share9
```

For more information, see <u>Configuring NFS Access</u>.

You can use the showmount utility with the -e flag to display the path in a friendly way. For example, with NFS version 4 the results are similar to the following:

```
$ showmount -e 192.168.9.137
Export list for 192.168.9.137:
```

/nfs/shares/cloud-My Files 192.168.9.101/255.255.255.255

/nfs/shares/cloud-ACL 192.168.9.176/255.255.255.255,192.168.9.101/255 .255.255.255

Accessing the Volumes Share

Administrators can access a hidden administrative share called */volumes* using Windows File Sharing. Alternatively, they can access this share via the HCP Anywhere Enterprise Edge Filer user interface's **Files** view.

The administrative share allows direct access to the files on each of the HCP Anywhere Enterprise Edge Filer's volume.

To access the volumes share via Windows File Sharing:

 On a computer connected to the same switch as the HCP Anywhere Enterprise Edge Filer, browse to \\devicename\volumes\ where devicename is the name of the HCP Anywhere Enterprise Edge Filer. For information on viewing the HCP Anywhere Enterprise Edge Filer's name, see <u>Viewing HCP</u> Anywhere Enterprise Edge Filer Details.

The administrative share is displayed.

Note: If the user name and password on the computer are identical to a user name and password on the HCP Anywhere Enterprise Edge Filer, the computer automatically logs in to the share using that user name and password. You will not be prompted to authenticate. In all other cases, a pop-up window will appear, and you must authenticate using a valid user name and password.

To access the volumes share via the Files view:

In the Files view, change to the Volumes view.
 The administrative share opens, displaying all volumes.

Enabling Non-administrators to Access Previous Versions

By default, only administrators can browse and retrieve previous file versions. You can enable non-administrator users to browse and retrieve previous versions of files that they have permissions to view.

1. In the **Configuration** view, select **Shares > Shares** in the navigation pane. The **Shares** page is displayed.

HITACHI								Configuration Files	(1) Hello admin 🗸
Cloud Drive	+ +	Shares							
 ஹி Users	+	🕀 New Share 🧳	Edit Share 🛛 📅 F	Remove Share 🔹 🏚	Advanced				2
	-	Name	Volume vol1	Path /cloud	Access Windows ACL Emulation Mode	Protocols Q	Comment Auto-generated	Status	
Shares		Co cloud-Books	vol1	/cloud/users/	Windows ACL Emulation Mode	۹	•	ONLINE	
Windows File Shari FTP Server NFS	ing	Ca cloud-Music	vol1	/cloud/users/	Windows ACL Emulation Mode	۹		ONLINE	
Storage	+								
Logs	+								
🗘 Alerts	+								
Security	+								
දිබු Cloud Services	+								
System	+								
vGateway- 27bd 7.6.3111.22	:								

2. Click Advanced.

The Advanced file sharing settings window is displayed.

f external volume auto created every time a ne				omatically	L⊕
Allow users to browse If a removable drive is				rmissions	
Domain PRODUC			k Search		
Name	Pern	nission			
😰 Everyone	Read	/Write			
a Everyone	Read	/Write			
A Everyone	Read	/Write			
Leveryone	Read	i/Write			
A Everyone	Read	/Write	đ		
🦺 Everyone	Read	/Write			
Everyone	Read	/Write			
Everyone	Read	/Write	đ		

- 3. Check Allow users to browse previous versions of their files.
- 4. Click Finish.

To prevent users from browsing previous versions of their files:

- 1. In the **Configuration** view, select **Shares > Shares** in the navigation pane. The **Shares** page is displayed.
- 2. Click Advanced.

The Advanced file sharing settings window is displayed.

- 3. Uncheck Allow users to browse previous versions of their files.
- 4. Click Finish.

Chapter 7. Protecting the Data

Ransomware Protection

Ransomware attacks have become an increasingly imposing threat to organizations. In most ransomware attacks, encryption restricts access to critical files, systems, and applications. This encryption process happens silently in the background.

Taking proactive measures against ransomware attacks helps safeguard your data and ensures the continuity of your operations. Each user's behavior is monitored and fed in to a machine learning algorithm trained on an extensive dataset of attack flows. Via this monitoring *HCP Anywhere Enterprise Ransom Protect* is able to detect and block ransomware attacks within seconds.

Note: HCP Anywhere Enterprise Ransom Protect monitors Windows File Sharing (SMB) traffic. It does not monitor user behavior on other file sharing protocols such as NFS or FTP.

Key Features of HCP Anywhere Enterprise Ransom Protect include:

- Real-time detection: Advanced machine learning algorithms identify behavioral anomalies suggesting fraudulent file activity, and block offending users within seconds.
- Zero-day protection: HCP Anywhere Enterprise Ransom Protect does not rely on traditional signature update services.
- Incident management: An administrator dashboard provides real-time attack monitoring, comprehensive incident evidence logging and post-attack forensics.
- Instant recovery: Near-instant recovery of any affected files from snapshots.

In addition, HCP Anywhere Enterprise Ransom Protect requires minimal configuration, requiring a single click to activate ransomware protection on the HCP Anywhere Enterprise Edge Filer.

Requirements

HCP Anywhere Enterprise Ransom Protect requires a Portal Plus license on the HCP Anywhere Enterprise Portal.

In order to notify administrators by email when a suspected ransomware attack has happened, the mail server must be correctly configured. For details, see <u>Configuring Email Alerts</u>.

Note: HCP Anywhere Enterprise Ransom Protect operates on the HCP Anywhere Enterprise Edge Filer and does not rely on an Internet connection. It works even when the connection to the HCP Anywhere Enterprise Portal is down.

Setting Up Ransom Protect

Note: To prevent false positive events, Hitachi Vantara recommends initially enabling HCP Anywhere Enterprise Ransom Protect in *Ransomware Detection* mode. In this mode, HCP Anywhere Enterprise Ransom Protect only monitors the traffic without blocking malicious users. After the system has proven to work well for a while, you can then enable *Ransomware mitigation*. If you encounter false positives, refer to <u>Coping with False</u> <u>Positive Detections</u>.

Protecting the Data

To enable Ransom Protect:

1. In the **Configuration** view, select **Security > Ransom Protect** in the navigation pane. The **Ransom Protect** page is displayed.

HITACHI	Configuration Files 🕞 Hello admin v
OO Main	Ransom Protect
ഫ്ര Users	© Disabled Not running
് Shares	
Storage	(a) Settings
Logs	
🗘 Alerts	Blocked Users Excluded Users
Security	
Ransom Protect	
Antivirus	
Quarantine	
ද්ධි Cloud Services	
සි System	
vGateway- ∺ 27bd 7.6.3111.22	

2. Click Settings.

The Ransom Protect Settings window is displayed.

 Ransomware Detection Stay one step ahead of ranso activate 	omware threats wi	th AI based detection. Check the box to	
Ransomware Mitigation Protect your data by enablin automatically blocked and a Advanced		igation. Malicious users will be ed users' group	
	30	suspicious events	
Detection Threshold:			

3. Check Ransomware Detection.

Protecting the Data

			×		
Ransom Protect Sett	ings				
Ransomware Detection					
Stay one step ahead of ransomv activate	vare threats with A	based detection. Check the box to			
Ransomware Mitigation					
	Protect your data by enabling ransomware mitigation. Malicious users will be				
automatically blocked and adde	d to the 'blocked u	sers' group			
Advanced					
Detection Threshold:	30	suspicious events			
Detection Interval:	30	seconds			
		Save Cance			

- 4. Leave the **Advanced** settings with the default values unless you encounter too many false positives. If this happens, see <u>Coping with False Positive Detections</u>.
 - **Note:** The advanced settings default values are based on extensive testing but can be tuned if needed.

Detection Threshold is the number of suspicious events that must occur before ransomware protection is triggered. If the threshold is set too high, an attack could cause more damage than necessary or may go undetected. On the other hand, if it's set too low, the number of false positive detections may increase.

Detection Interval is the number of seconds between checks on user behavior records for potential attacks. Choosing a lower value leads to quicker ransomware detection, but it may also increase CPU load.

5. Click Save.

HCP Anywhere Enterprise Ransom Protect is active.

HITACHI			Configuration Files (2) Hello admin ~
OO Main	+	Ransom Protect	
Cloud Drive			
නී Users		Active No ongoing incidents	Analyzed Events/Minute
్లి Shares			
Storage		(g) Settings	
Logs			
🗘 Alerts		Blocked Users Excluded Users	0
Security			0 11:35 12:15 12:55 13:35 14:15 14:55 15:34
Ransom Protect Antivirus Quarantine		Start Time User IP Files	
රුධි Cloud Services			
System		No incident found	d
27bd 7.6.3111.22			

Note: To disable HCP Anywhere Enterprise Ransom Protect, click **Settings** in the **Ransom Protect** page and uncheck **Ransomware Detection** and then click **Save**.

Coping with False Positive Detections

If you find that you are getting too many false positive results, you can reduce this number by Tuning the <u>Tuning the Detection Threshold</u> or <u>Excluding Specific Users From Detection</u>.

Tuning the Detection Threshold

The **Detection Threshold** is the number of suspicious events that must occur before ransomware protection is triggered. To reduce the detection sensitivity, and as a consequence, the number of false positive results, you can increase the value of **Detection Threshold**.

Excluding Specific Users From Detection

If you get false positive results for specific users, you might find that some users perform actions that are acceptable within the organization but would trigger a false positive result. You can exclude these users from having their actions checked by HCP Anywhere Enterprise Ransom Protect.

To exclude users from ransomware detection:

1. In the **Configuration** view, select **Security > Ransom Protect** in the navigation pane. The **Ransom Protect** page is displayed.

HITACHI		Configuration Files (2) Hello admin 🗸
G Main +	Ransom Protect	
요 Users + 《 Shares +	O Active No ongoing incidents	Analyzed Events/Minute
Storage +		
→ Alerts +	ള്ള Blocked Users Excluded Users 0 0	0 11:35 12:15 12:35 13:35 14:15 14:55 15:34
Ransom Protect Antivirus Quarantine	Start Time User IP Files	
දිබි Cloud Services + ඬ System +	No Incident four	nd
vGateway- : 27bd 7.6.3111.22		

Click the number below Exclude Users.
 The Specify Group Name window is displayed.

Specify Group Specify a name for this this group.	Name group, and optionally enter a descript	tion of
Group Name:	Excluded-Users	
Group GID (Optional):	210	
Comment (Optional):	Members of this group are excluded from triggering ransom protection	
	· · · · · · · · · · · · · · · · · · ·	
		Next > Cancel

3. Click Next.

The Select Group Members window is displayed.

Select Group Men Select the members of this g			
Local Users	-	Quick Search	
Name			

- 4. Select the user to exclude from ransomware detection.
 - a) Select Local Users, Domain domainName Users, or Domain domainName Groups.
 - **b)** In the **Quick Search** box start entering the name of the user or group to exclude or click . . . and select the user from the list.
- 5. Click Next.
 - The Wizard Completed window is displayed.
- 6. Click Finish.

The user is excluded from ransomware detection.

HITACHI		Configuration Files 🛞 Hello admin 🗸
-	+ Ransom Protect	
ඩුඩු Users	+ (c) Active No ongoing incidents +	Analyzed Events/Minute
Storage	+ () Settings	
💭 Alerts	+ + Blocked Users Excluded Users 0 1	0
Security	-	11:35 12:15 12:55 12:35 14:15 14:55 15:34
Antivirus Quarantine	Start Time User IP Files	
ଦ୍ଭେ Cloud Services 🖶 System	+ No Incident f	found
vGateway- 27bd 7.6.3111.22		

A user that has been excluded from being detected can be removed from the excluded group (for example if the user leaves the organization).

To remove a used from the Excluded Users group:

- 1. In the **Configuration** view, select **Security > Ransom Protect** in the navigation pane. The **Ransom Protect** page is displayed.
- 2. Click the number below Exclude Users.

The Specify Group Name window is displayed.

Specify Group I Specify a name for this p this group.	group, and optionally enter a descript	tion of	5
Group Name:	Excluded-Users		
Group GID (Optional):	210		
Comment (Optional):	Members of this group are excluded from triggering ransom protection		
		Next >	Cano

3. Click Next.

The Select Group Members window is displayed.

Select Group Members Select the members of this group:	;			×
Local Users	-	Quick Search		
Name				
1 ro-admin			Đ	
< Previous			Next >	Cancel

4. Select Local Users, Domain *domainName* Users, or Domain *domainName* Groups and click the $\widehat{\square}$ icon next to the user to remove from the list.

The user is removed from the exclude list.

Blocking Malicious Users

Users that you suspect of triggering ransomware attacks can be blocked by adding them to a *Blocked Users* group. Blocked users are prevented from accessing the edge filer by all authenticated protocols, including SMB, NFSv4, FTP and the HCP Anywhere EnterpriseEdge Filer user interface.

Users can be blocked automatically or manually. Users that trigger a ransomware incident can be automatically added to the *Blocked Users* group.

Note: When users are added to the *Blocked Users* group, their existing SMB sessions are immediately closed. Existing connections via other protocols are not immediately terminated, but the user is not able to create a new session.

To block users automatically:

1. In the **Configuration** view, select **Security > Ransom Protect** in the navigation pane. The **Ransom Protect** page is displayed.

HITACHI		Configuration Files (2) Hello admin •
-	+ Ransom Protect +	
윤 Users	+ (S) Active No ongoing incidents	Analyzed Events/Minute
Storage	+ (<i>i) Settings</i>	
	+ + Blocked Users Excluded Users 0 0	
· · · · · · · · · · · · · · · · · · ·		11:35 12:15 12:55 13:35 14:15 14:55 15:34
Ransom Protect Antivirus Quarantine	Start Time User IP Files	
_	+ + No Incident for	pund
vGateway- : 27bd 7.6.3111.22		

2. Click Settings.

The Ransom Protect Settings window is displayed.

			×
Ransom Protect Se	ttings		
_			
Ransomware Detection Stay one step ahead of ranso activate	mware threats with	Al based detection. Check the box to	
 Ransomware Mitigation Protect your data by enabling automatically blocked and ad 			
Advanced			
Detection Threshold:	30	suspicious events	
Detection Interval:	30	seconds	
		Save Cance	

3. Make sure Ransomware Mitigation is checked and click Save.

Any incident that HCP Anywhere Enterprise Ransom Protect identifies as a ransomware attack causes the user who initiated the incident to automatically be added to the **Blocked Users** group.

Note: Hitachi Vantara recommends blocking the user in Active Directory as well.

To block users manually:

1. In the **Configuration** view, select **Security > Ransom Protect** in the navigation pane. The **Ransom Protect** page is displayed.

HITACHI		Configuration Files (2) Hello admin •
OO Main -	Ransom Protect	
윤 Users -	O Active No ongoing incidents	Analyzed Events/Minute
ංදී Shares - චූ Storage -		
🛱 Logs	OO Blocked Users Excluded Users	0
🔄 Security -		0 11:35 12:15 12:55 13:35 14:15 14:55 15:34
Ransom Protect Antivirus Quarantine	Start Time User IP Files	
දිබු Cloud Services සී System	+ + No incident found	
vGateway- : 27bd 7.6.3111.22		

2. Click the number below Blocked Users.

The Specify Group Name window is displayed.

Specify Group I Specify a name for this this group.	Name group, and optionally enter a descr	iption of	×
Group Name:	Blocked-Users		
Group GID (Optional):	209		
Comment (Optional):	Members of this group will be blocked from performing any actions		
		Next	Cancel

3. Click Next.

The Select Group Members window is displayed.

Select Group Members Select the members of this group:				×
Local Users	-	Quick Search		
Name				
< Previous			Next>	Cancel

- 4. Select the user to block.
 - a) Select Local Users, Domain domainName Users, or Domain domainName Groups.
 - **b)** In the **Quick Search** box start entering the name of the user or group to exclude or click . . . and select the user from the list.
- 5. Click Next.

The Wizard Completed window is displayed.

6. Click Finish.

The user is blocked from access to the HCP Anywhere Enterprise Edge Filer.\

HITACHI		Configuration Files 🕡 Helio admin ~
OO Main	+	Ransom Protect
ටි Cloud Drive	+	
ඩුරු Users	+	O Active Analyzed Events/Minute No ongoing incidents
్లి Shares	+	
Storage	+	(a) Settings
Logs	+	
🗘 Alerts	+	Blocked Users Excluded Users
G Security	-	1 0 11.35 12.25 12.15 14.05 14.55 15.47
Ransom Protect		Start Time User IP Files
Antivirus Quarantine		
රුඛි Cloud Services	+	
System	+	No Incident found
vGateway- 27bd 7.6.3111.22	:	

Removing Users From the Blocked Users Group

A user that has been blocked from accessing the edge filer, can be unblocked.

To remove a user from the Blocked Users group:

1. In the **Configuration** view, select **Security > Ransom Protect** in the navigation pane. The **Ransom Protect** page is displayed.

HITACHI		Configuration Files 😡 Helio admit	n v
OO Main 〇〇 Cloud Drive	+ +	Ransom Protect	
윤 Users	+	O Active No ongoing incidents	
≪ Shares	+ +	(i) Settings	
Logs	+ +	Blocked Users Excluded Users	
Security	-	1 0 11:25 12:25 12:15 14:05 14:55 15:47	
Ransom Protect Antivirus Quarantine		Start Time User IP Files	
Cloud Services	+		
5ystem	+	No Incident found	
vGateway- 27bd 7.6.3111.22	:		

Click the number below Blocked Users.
 The Specify Group Name window is displayed.

			×
Specify Group I			
Specify a name for this g this group.	group, and optionally enter a descr	iption of	
Group Name:	Blocked-Users		
Group GID (Optional):	209		
Comment (Optional):	Members of this group will be blocked from performing any actions		
		Next >	Cancel

3. Click Next.

The Select Group Members window is displayed.

Select Group Members Select the members of this group:	;			× L
Local Users	•	Quick Search		
Name				
1 ro-admin			Đ	
< Previous			Next >	Cancel

4. Select Local Users, Domain *domainName* Users, or Domain *domainName* Groups and click the $\widehat{\underline{m}}$ icon next to the user to remove from the list.

The user is removed from the **Blocked Users** list.

Handling a Ransomware Incident

If a ransomware attack is identified by HCP Anywhere Enterprise Ransom Protect, the following occurs:

• The **Ransom Protect** page displays the analyzed events over time and the status changes from **Active** to **Alert**.

HITACHI					Configuration Files (2) H	iello admin 🐱
OO Main බ් Cloud Drive	+ +	Ransom Protect				
 £டி Users		Alert Suspected attack by admim at 11:	49:01 AM : User Blocked	i i i i i i i i i i i i i i i i i i i	Analyzed Events/Minute	
୍ଟ Shares E Storage		(b) Settings			300	
Logs		து Blocked Users Excluded Users			200	
Security	-	0 0			0 13:57 17:05 20:11 23:19 02:41 06:02 0	9:24
Ransom Protect Antivirus Quarantine		Start Time User 07/18/2023 10:18: admim	IP	Files	y_data/AzkabanSiriusBall/agenda.bin and 167 files more	Details >
ද්ධි Cloud Services		• 07/18/2023 10:25: adnim	10.212.134.56	Main/copy_data/cop	y_data/Bezoar/Kreacher.txt and 73 files more	Details>
🔁 System		• 07/19/2023 6:41:3 demo1	10.212.134.44	Main/Data/Bezoar/S	itone.txt and 81 files more	Details >
vGateway- 27bd 7.6.3111.22		• 07/31/2023 11:48: adm	192.168.94.119	Main/Data/Bezoar//	AzkabanSiriusBall/Ron.doc and 60 files more	Details >

• If **Ransomware Mitigation** is checked in the **Ransom Protect Settings** window, the user who initiated the suspected attack is added to the **Blocked Users** group.

					Configuration Files 🕠	Hello admin
O Main	+	Ransom Protect				
Cloud Drive	+					
ቧ Users	+	Alert Suspected attack by admim a	at 11:49:01 AM : Liser Blocke	hd	Analyzed Events/Minute	
o Shares	+	Suspected ditact by damma			500	
Storage	+	(g) Settings			400	
Logs	+				200	
Alerts	+	Blocked Users Excluded Users			100	
Security	-	1 0			0 13:57 17:05 20:11 23:19 02:41 06:02	09:24
Ransom Protect		Start Time User	IP	Files		
Quarantine		• 07/18/2023 10:18: admim	10.212.134.56	Main/copy_data/co	copy_data/AzkabanSiriusBall/agenda.bin and 167 files more	Details>
Cloud Services	+	• 07/18/2023 10:25: adnim	10.212.134.56	Main/copy_data/co	copy_data/Bezoar/Kreacher.txt and 73 files more	Details >
3 System	+	• 07/19/2023 6:41:3 demo1	10.212.134.44	Main/Data/Bezoar	r/Stone.txt and 81 files more	Details >
vGateway- 27bd	:	• 07/31/2023 11:48: adm	192.168.94.119	Main/Data/Bezoar	r/AzkabanSiriusBall/Ron.doc and 60 files more	Details>

An email is also sent to the administrator by the edge filer describing the attack.

Note: The alert status is displayed for one hour.

Recovering From a Ransomware Attack

Once a ransomware attack has been identified, every affected file is listed. You can then go through the list and rollback the affected files to the state immediately prior to the attack. For details, see <u>Accessing Previous File Versions</u>.

You display the list of affected files by clicking **Details** to the right of the attack details.

HITACHI					Configuration Files (2) Hello admin ~
OO Main	+	Ransom Prote	<u>ct</u> › Incident Details (7/3/	(2023, 6:36:20 PM)	
ති Cloud Drive	+				
ഫ്പ് Users	+	Start Time 7/3/2023, 6:	Username IP Address 36:20 PM admim 192.168.14.114	Detection Threshold 0.95	
	+	· · · ·			
Storage	+	Export To Excel			
Logs	+	Time	Operation	Source Path	Destination Path
🗘 Alerts	+	07/03/2023 6:36:20 PM	d	QA/copy_data/bucket/Phoenix/projectm	^
Security	-	07/03/2023 6:36:20 PM	w	QA/copy_data/bucket/Phoenix/projectm	
Antivirus Quarantine		07/03/2023 6:36:21 PM	d	QA/copy_data/bucket/Phoenix/projectm	
Cloud Services	+	07/03/2023 6:36:21 PM	d	QA/copy_data/bucket/Phoenix/projectm	
🗗 System	+	07/03/2023 6:36:21 PM	d	QA/copy_data/bucket/Phoenix/projectm	
		07/03/2023 6:36:22 PM	w	QA/copy_data/bucket/Phoenix/projectm	
vGateway- 27bd 7.6.3111.22	:	07/03/2023 6-36-22 PM	ш.	∩∆/conu.data/huckat/Phoeniv/nrolectm	Displaying logs 1 - 150 < < > ⊙

The Incident Details page is displayed.

The top part of the Incident Details report provides the following information about the incident:
Start Time – The date and time that the suspected ransomware attack started.
Username – The name of the user that initiated the suspected attack.
IP Address – The IP address from where the attack was initiated.
Detection Threshold – A number between zero and one that is used to determine the detection sensitivity.

The second part of the Incident Details report provides detailed information about each operation:
Time – The date and time that the suspect operation started.
Operation – The operation that is suspected of being a ransomware attack.
Source Path – The full path and file name of the file that the suspected attack affected.
Destination Path – If the file was moved, the full path and file name of the destination.

To export the incident details report to Microsoft Excel:

- 1. Access the **Incident Details** page for the ransomware incident.
- 2. Click Export to Excel.

The incident details are exported as an Excel file to your computer.

Investigating Ransomware Incidents

Hitachi Vantara is dedicated to providing the best user experience possible and can investigate false positive incidents to better configure HCP Anywhere Enterprise Ransom Protect.

To analyze ransomware incident, send the support report to Hitachi Vantara support. The support report includes the HCP Anywhere Enterprise Ransom Protect service logs, as well as the incident details report. For details about sending a support report to Hitachi Vantara Support, see <u>Generating a Support Report</u>.

Antivirus File Scanning

Antivirus software is used to prevent malware from infecting files in the organization. When antivirus is enabled, every file that is copied, moved, or edited on the HCP Anywhere Enterprise Edge Filer is automatically and transparently scanned for malware before the user can access the file. HCP Anywhere Enterprise Edge Filers integrate with *McAfee Endpoint Security for Linux Threat Prevention* to ensure data protection.

Note: Stub files are not scanned for viruses until the files are downloaded from the HCP Anywhere Enterprise Portal.

Infected files are quarantined so that they are no longer available and not synced to the HCP Anywhere Enterprise Portal. The administrator is informed so that any action that might be necessary can be determined.

Setting up Antivirus File Scanning

To enable antivirus scanning:

1. In the **Configuration** view, select **Security > Antivirus** in the navigation pane. The **Antivirus** page is displayed.

HITACHI		Configuration Files 🕜 Hello admin v
OO Main	+	Antivirus
ටි Cloud Drive		
ඩු Users		(ii) Disabled Not running
ද ^o Shares		
Storage		Enable antivirus Check for updates Settings
Logs		
🗘 Alerts		
Security	-	
Ransom Protect		
Antivirus		
Quarantine		
ර්ධා Cloud Services		
🗗 System		
vGateway- 27bd 7.6.3111.22		

2. Click Enable antivirus.

Warning: You must not restart the edge filer while the antivirus software is starting up.

HITACHI		Please don't reboot the device until the Antivirus is Active 🗙	Configuration Files (1) Hello admin
OO Main	+ Antivirus		
ි Cloud Drive	+		
නී Users	+ 💮 Starting		
ବ୍ଦି Shares	+	Check for updates 🔞 Settings	
Storage	+ (iii) Disable antivirus (iii) +		
Logs	+		
Security	-		
Ransom Protect			
Antivirus			
Quarantine			
රිබු Cloud Services	+		
🖶 System	+		
vGateway- 27bd 7.6.3111.22	:		

Antivirus scanning is enabled and a check for the latest DAT file is run after which antivirus protection is active.

HITACHI		Configuration Files	(i) Hello admin ~
OO Main 〇〇 Cloud Drive	+ Antivirus		
교 Users 《 Shares E Storage	• •		
Logs	(i) Disable antivirus (ii) Check for updates (iii) Settings		
Ransom Protect Antivirus Quarantine			
ි Cloud Services චී System	+ +		
vGateway- 27bd 7.6.3111.22	:		

Scanning for malware will occur on every file that is accessed from the HCP Anywhere Enterprise Edge Filer.

To disable antivirus scanning:

- 1. In the **Configuration** view, select **Security > Antivirus** in the navigation pane. The **Antivirus** page is displayed.
- 2. Click Disable antivirus.

Antivirus scanning is disabled.

Managing Quarantined Files

Files that have been identified as a threat to the system are placed in quarantine and removed from their source location. These files are also not synced to the HCP Anywhere Enterprise Portal.

An administrator is alerted when a file is quarantined. The administrator can check the list of quarantined files and either delete files permanently or restore them. Quarantined files are only displayed when antivirus has been enabled. If the signature for the file has not changed, it will immediately be added back to quarantine, but a file that an updated DAT file recognizes as not being a virus, can be restored.

To manage quarantined files:

• In the **Configuration** view, select **Security > Antivirus** in the navigation pane. The Quarantine page is displayed.

HITACHI						Configuration Files	(1) Hello admin ~
OO Main 〇〇 Cloud Drive	+ +	Quarantine					
윤 Users	+	🛱 Empty Quarantine 📑	Restore				e
ද් Shares	+	Threat	Quarantine Time	Alias	Original Path		
Storage	+	No results found					
Logs	+						
🗘 Alerts	+						
Security	-						
Ransom Protect Antivirus Quarantine							
ද්ධි Cloud Services	+						
System	+						
vGateway- 27bd 7.6.3111.22	:						

Each quarantined file is displayed with the following information: **Threat** – The name of the threat.

Quarantine Time – The time the file was accessed and then moved to quarantine. **Alias** – The virus alias recognized by the DAT file.

Original Path – The name and location of the file before it was quarantined.

To empty the quarantine of all files:

- 1. Without selecting any of the quarantined files, click the $\overline{\overline{\mathbf{m}}}$ icon.
- 1. Click **Yes** to confirm the delete.

All the quarantined files are permanently deleted. The quarantine folder is cleaned every 30 days.

To select one or more quarantined files to permanently delete:

- 1. Select the files to delete and click the ¹/₁ icon.
- 1. Click **Yes** to confirm the delete. The quarantined files are permanently deleted.

To restore one or more quarantined files to their original location:

- **1.** Select the files to restore and click the $\overline{\mathbf{m}}$ icon.
- Click Yes to confirm the restore. The quarantined files are restored to their original location. If the signature for the file has not changed, it will immediately be added back to quarantine.

Updating the Antivirus DAT File

Antivirus software is constantly being updated to be able to identify the new viruses. Virus definition or DAT files contain virus signatures and other information used to protect the HCP Anywhere Enterprise Edge Filer against existing and new potential threats. Generally, DAT files are released daily.

You can schedule the HCP Anywhere Enterprise Edge Filer to check for new DAT files which are then used when scanning files for viruses. You can also manually check for updates, for example when you think a new DAT file has been released before the scheduled update is set to run.

Note: To check for updates to DAT files, the HCP Anywhere Enterprise Edge Filer must be able to connect to antivirus update site.

To schedule checking for DAT updates:

1. In the **Configuration** view, select **Security > Antivirus** in the navigation pane. The **Antivirus** page is displayed.

HITACHI		Configuration Files (2) Hello admin 🗸
OO Main	+	Antivirus
ටි Cloud Drive		
නීඩ Users		© Active Running OK
් Shares		McAfee Endpoint Security
Storage		Version DAT Version DAT Date Engine Version 10.7.8.12 5533.0 Nov 26, 2023 6300.9389
Logs		
🗘 Alerts		Disable antivirus O Check for updates Settings
Security	-	
Ransom Protect		
Antivirus		
Quarantine		
ර්ඛු Cloud Services		
System		
vGateway- 27bd 7.6.3111.22		

2. Click Settings.

The Antivirus Settings window is displayed.

Antivirus Settings		×
Check for Updates	Daily -	
Time:	2:00 AM 👻	
Server Address:	update.nai.com	
Server Path:	products/commonupdater	
	Save	Cancel

Make sure Check for Updates is checked and then set the update details.
 You can set the scheduler to check for new DAT files daily, weekly or monthly. HCP Anywhere

Enterprise recommends keeping the default daily check.

You set the scheduler to access the antivirus provider to use the latest DAT file from the relevant server, specifying the server address and path.

4. Click Save.

At the selected time, the system checks for the latest DAT file to use when scanning files.

HITACHI		Config	uration	Files	① Hello admin ~
OO Main	+	Antivirus			
Cloud Drive					
윤 Users		Update in progress			
≪ Shares					
Storage		Disable antivirus O Cancel updates Settings			
Logs					
🗘 Alerts					
Security	-				
Ransom Protect					
Antivirus					
Quarantine					
රිබ් Cloud Services					
System					
vGateway- 27bd 7.6.3111.22					

To manually check for DAT updates:

1. In the **Configuration** view, select **Security > Antivirus** in the navigation pane. The **Antivirus** page is displayed.

HITACHI	Configuration Files (2) Helio admin ~
On Main +	Antivirus
요 Users + < Shares +	OActive Running OK McAfee Endpoint Security Version DAT Version DAT Date Engine Version
E Storage + E Logs + Q Alerts +	10.7.8.12 5533.0 Nov 26, 2023 6300.9389 Bisable antivirus Check for updates Settings
Security – Ransom Protect Antivirus Quarantine	
Cloud Services +	
vGateway- : 27bd 7.6.3111.22	

2. Click Check for updates.

The system checks for the latest DAT file to use when scanning files.

Antivirus Logs

Log entries for the antivirus are part of the System log. The System log shows whether a file is in quarantine or has been restored from quarantine.

To view logs:

In the Configuration view, select Logs > Log Viewer in the navigation pane.
 The Log Viewer page opens, displaying the System log that includes any antivirus log entries.

HITACHI				Configuration Files (1) Hello admin ~
OO Main	+	Log Viewer		·
Cloud Drive	+	-	d Sync Access Audit	
윤 Users	+	Minimum Severity: Info	👻 🛞 Settings 📓 Export To Excel	
 Shares 	+	Date	Details	More Information
Storage	+	• 11/27/2023 3:16:3	Periodic antivirus malware DB update initiated	•
Logs	-			
Log Viewer		• 11/27/2023 12:30:	Error	details: Sync Error: Unknown error
Log Settings Syslog		• 11/27/2023 12:30:	Error	details: Sync Error: Unknown error
Audit Logs		• 11/27/2023 12:29:	Connected to portal	name: 192.168.19.199 ,ip: 192.168.19.199
🗘 Alerts	+	• 11/27/2023 12:29:	Disconnected from portal	name: 192.168.19.199 ,ip: 192.168.19.199
🔄 Security ငြည် Cloud Services	++	• 11/27/2023 12:29:	Connection to portal failed	name: 192.168.19.199 ,jp: 192.168.19.199 ,reason: Disconnect after backup
System	+	• 11/27/2023 12:29:	Error	details: Sync Error: Failed to open connection for cloud sync
vGateway-	:	• 11/27/2023 12:13:	Error	details: Sync Error: Unknown error
27bd 7.6.3111.22		• 11/27/2023 12:13:	Error	details: Sync Error: Unknown error

For log details, see <u>Viewing Different Types of Logs</u>.

Chapter 8. Managing Network Settings

To view HCP Anywhere Enterprise Edge Filer's network and port settings:

 In the Configuration view select System > Network in the navigation pane. The Network page is displayed.

HITACHI			Configuration	Files	(1) Hello admin ~
Cloud Drive	+ +	Network			
ඩු Users දේ Shares	+ +	Oconnected IP Address Default Gateway DNS Servers Connection Duration 192.168.18.143 192.168.18.1 192.168.82.87, 192.168.82.88 2 hours			
Logs	+ +	Settings Renew Quagnostics			
🗘 Alerts	+	Ports			
ن Security جن Cloud Services	+ +	Name MAC Address LAN 00:50:56:ad:27:bd			
🗗 System	-				
Firmware					
Network					
SNMP					
Configuration Tools	5				
Support Report Regional Settings					
VGateway					

The Network page displays the following:

- The HCP Anywhere Enterprise Edge Filer's IP address.
- The IP address of the default HCP Anywhere Enterprise Edge Filer.
- The IP addresses of the primary and secondary DNS servers.
- The status of the HCP Anywhere Enterprise Edge Filer's network connection: Connected or Disconnected.
- The amount of time that the HCP Anywhere Enterprise Edge Filer has been connected to the network.
- The MAC address of this HCP Anywhere Enterprise Edge Filer.

Configuring Network Settings

By default, the HCP Anywhere Enterprise Edge Filer is automatically assigned an IP address and DNS settings by the DHCP server. If the network uses static IP addresses instead of DHCP, you must configure the HCP Anywhere Enterprise Edge Filer's network settings.

Note: If a DHCP server is not available, then, after one minute, the HCP Anywhere Enterprise Edge Filer uses IP address 192.168.192.5. You can apply a custom DNS configuration to each HCP Anywhere Enterprise Edge Filer according to its DHCP class identifier.

To configure network settings:

 In the Configuration view select System > Network in the navigation pane. The Network page is displayed.

HITACHI			Configuration Files (2) Hello admin ~
OO Main	+	Network	
ති Cloud Drive ආුඩු Users		Connected IP Address Default Gateway DNS Servers Connection Duration	
ංදී Shares E Storage		192.168.18.148 192.168.18.1 192.168.82.87, 192.168.82.88 2 hours	
Logs		Settings Renew Quadratics	
🗘 Alerts		Ports	
Security		Name MAC Address	
රිබ් Cloud Services	+	LAN 00:50:56:ad:27:bd	
🔁 System	-		
Firmware			
Network			
SNMP			
Configuration Too	ls		
Support Report			
Regional Settings			

2. Click Settings.

The Network Configuration window is displayed.

Network C	Configuration	₽₽
Network	Obtain an IP address automatically O Use the following IP address IP Address:	
P roxy	Netmask:	
Ethernet	Obtain a DNS server address automatically Use the following DNS server address Primary DNS Server: Secondary DNS Server:	
		Save Cancel

3. Configure the settings.

Obtain an IP address automatically – The HCP Anywhere Enterprise Edge Filer obtains an IP address automatically from the DHCP server in the network.

Use the following IP address – Assign the HCP Anywhere Enterprise Edge Filer a static IP address and specify the IP address, netmask, and default HCP Anywhere Enterprise Edge Filer.

Obtain a DNS server address automatically – The HCP Anywhere Enterprise Edge Filer obtains DNS server addresses automatically from the DHCP server in the network. **Use the following DNS server address** – Specify DNS servers for the HCP Anywhere Enterprise Edge Filer and specify the address of the primary and secondary DNS servers.

- **Note:** If you configure these settings incorrectly, you may lose network connectivity to the HCP Anywhere Enterprise Edge Filer.
- 4. Click Save.

Configuring Proxy Server Settings

The HCP Anywhere Enterprise Edge Filer can be configured to connect to the network via a proxy server. To configure proxy settings, see <u>Configuring Access to a Proxy Server</u>.

Configuring Ethernet Port Settings

By default, the HCP Anywhere Enterprise Edge Filer automatically detects the Ethernet port's link speed and duplex. If desired, you can manually restrict the Ethernet port to a specific link speed and duplex.

You can also configure HCP Anywhere Enterprise Edge Filer to use jumbo frames. While the standard Ethernet frame is 1500 bytes, jumbo frames are larger, with the conventional jumbo frame size being 9000 bytes.

Warning: If you enable jumbo frames, you must configure all computers in the HCP Anywhere Enterprise Edge Filer's network segment to use the same Ethernet frame size (maximum transmission unit, or MTU). If you do not set all computers to the same MTU, you may lose connectivity to the HCP Anywhere Enterprise Edge Filer.

To configure the Ethernet port settings:

1. In the **Configuration** view select **System > Network** in the navigation pane. The **Network** page is displayed.

HITACHI						Configuration	Files	(1) Hello admin
OO Main	+ Network	k						
ි Cloud Drive	+							
윤 Users	e e	Connected						
୍ଦ୍ତ Shares			fault Gateway 2.168.18.1	DNS Servers 192.168.82.87, 192.168.82.88	Connection Duration 2 hours			
Storage	+ f@ Settings	🜀 Renew ®, Dia	agnostics					
Logs	+	Whenew Q Dia	agnostics					
🗘 Alerts	+ Ports							
Security	15 21	me MAC Address						
රිබු Cloud Services	+	N 00:50:56:ad:2	27:bd					
ඩ් System	-							
Firmware								
Network								
SNMP								
Configuration Tools								
Support Report								
Regional Settings								

2. Click Settings.

The Network Configuration window is displayed.

Network (Configuration	₽
Network	Obtain an IP address automatically O Use the following IP address IP Address:	
ŧ	Netmask:	
Proxy	Default Gateway: .	
	Obtain a DNS server address automatically O Use the following DNS server address	
Ethernet	Primary DNS Server:	
	Secondary DNS Server:	

3. Select the Ethernet option.

Network C	onfiguration		ŪJ.
Network	Manual MTU	1500	
† Proxy			
Ethernet			
			Save Cancel

4. Specify the Ethernet settings.

Manual MTU – Manually set the maximum transmission unit (MTU), for example for jumbo frames.

- **MTU** The maximum transmission unit in bytes. The minimum MTU for jumbo frames is 1500.
- 5. Click Save.

Renewing the DHCP Lease

The DHCP lease is renewed automatically as needed. However, you can manually renew the DHCP lease, if necessary.

To manually renew the DHCP lease:

1. In the **Configuration** view select **System > Network** in the navigation pane. The **Network** page is displayed.

HITACHI			Configuration	Files	(1) Hello admin ~
OO Main	+	Network			
ි Cloud Drive	+				
ഫ്ര <mark>്</mark> Users	+	Connected IP Address Default Gateway DNS Servers Connection Duration			
ංදී Shares	+	IP Address Default Gateway DVS Servers Connection Duration 192.168.18.148 192.168.82.87, 192.168.82.88 2 hours			
Storage	+	(a) Settings (b) Renew (c) Diagnostics			
Logs	+				
🗘 Alerts	+	Ports			
Security	+	Name MAC Address			
දිඩු Cloud Services	+	LAN 00:50:56:ad:27:bd			
🔁 System	-				
Firmware					
Network					
SNMP					
Configuration Tool	ls				
Support Report					
Regional Settings					

2. Click Renew.

Network Diagnostics

The HCP Anywhere Enterprise Edge Filer provides diagnostic tools directly through the user interface for network troubleshooting:

Ping – Tests the reachability of a host on the network.

DNS lookup – Queries the DNS.

Traceroute – Displays the route packets across the network.

TCP Connect – Tests whether a specific TCP port is open.

Wake - Remotely awakens computers using the WoL (Wake on LAN) command.

iPerf – Measures the maximum achievable upload and download bandwidths using either TCP or UDP.

To use network diagnostics:

1. In the **Configuration** view select **System > Network** in the navigation pane. The **Network** page is displayed.

HITACHI			Configuration Files (i) Hello admin ~
Cloud Drive	+ +	Network	
ඩුඩු Users ඳ Shares		O Connected IP Address Default Gateway DNS Servers Connection Duration 192.168.18.148 192.168.82.87, 192.168.82.88 2 hours	
Storage		(§) Settings (◎) Renew (€), Diagnostics	
🗘 Alerts		Ports	
Security Cloud Services		Name MAC Address LAN 00:50:56:ad:27:bd	
🗗 System	-		
Firmware			
Network SNMP			
Configuration Tool			
Support Report			
Regional Settings			

2. Click Diagnostics.

The Network Diagnostics window is displayed.

Network Diagr	ostics	_∕∧
Diagnostic Tool:	⇒ Ping	
Address:		
Go		

3. In the **Diagnostic Tool** field, select the tool you want to use.

		-\M-
Diagnostic Tool:		
Address:	🔶 Ping	
Auuress.	۸۰- DNS Lookup	
Go	₽b Traceroute	
	🔉 TCP Connect	
	🌲 Wake	
	🛠 iPerf	

The window changes to reflect the diagnostic test requested. **Ping**, **DNS Lookup**, and **Traceroute** all require an address.

Ping – Tests the reachability of a host on the network.

DNS Lookup – Queries the DNS.

Traceroute – Displays the route packets across the network. For example:

Netv	vork Diagno	stics			-∕∕∕-
Diagnostic Tool:		Po Traceroute •			
Address:		192.168.28.	34		
Go	>				
Нор	IP Address	Time	Info	Hostname	
1	192.168.18.1	0.119ms	ок	192.168.18.1	
2	192.168.28.34	0.619ms	DONE	192.168.28.34	
					Close

TCP Connect – Tests whether a specific TCP port is open.

Network Diagr	ostics	_∕∧
Diagnostic Tool:	✗ TCP Connect ▼	
Address:	192.168.18.144 Port: 8	30
	ОК	
		Close

```
Or:
```

Network Diagr	nostics	_M
Diagnostic Tool:	🖋 TCP Connect 👻	
Address:	192.168.18.254 Port: 80	
Go		
	\bigotimes	
	\bigcirc	
	Destination Unreachable	
		Close

Wake – Remotely awakens computers using the WoL (Wake on LAN) command based on the MAC address of the computer. For more details, see <u>Remotely Awakening Computers</u>. **iPerf** – Measures the maximum achievable upload and download bandwidths using either TCP or UDP.

Network Diagn	ostics	_M~_*
Diagnostic Tool:	🛠 i Perf 👻	
Address:	Port: 5201	
Threads:	1 TCP 👻 Measure Upload 💌	
Go		
		Close

Where:

Address - The address of the computer to measure. Port - The port to measure. Threads - The number of threads to test the connection. TCP or UDP - The protocol to measure. Measure Upload or Measure Download - The direction to measure. The following command is run: iperf -c {Address} -fM -m -i5 -t25 -p {Port} If the number of threads is changed from the default, 1, the command is run with the -P flag with the thread number. For example, iperf -c {Address} -fM -m -i5 -t25 -p {Port} -P 10 If UDP is specified, the command is run with the -u flag. For example: iperf -c {Address} -fM -m -i5 -t25 -p {Port} -u

- 4. Enter the information required for the test, such as the IP address you want to ping.
- 5. Click Go.

The test results are displayed in the window, under the tool details.

6. Click Close when you have completed the diagnostic tests.

Remotely Awakening Computers

Administrators can remotely turn on or awaken computers via using the WoL (Wake on LAN) command. This is useful, for example, when there is a need to release a software update. The command wakes up a single device, so must be run multiple times to wake up more than one computer.

To wake up a device:

1. In the **Configuration** view select **System > Network** in the navigation pane. The **Network** page is displayed.

HITACHI			Configuration	Files	(1) Hello admin ~
OO Main	+	Network			
Cloud Drive					
윤 Users		早 ⊙ Connected 自日			
ද ^ර Shares		IP Address Default Gateway DNS Servers Connection Duration 192.168.18.148 192.168.18.1 192.168.82.87, 192.168.82.88 2 hours			
Storage		(a) Settings (C) Renew (R) Diagnostics			
Logs		gi setuligs 🕑 keinew 🥰 Diagnosucs			
🗘 Alerts		Ports			
Security		Name MAC Address			
රු Cloud Services		LAN 00:50:56:ad:27:bd			
සි System	-				
Firmware					
Network					
SNMP					
Configuration Too	ls				
Support Report					
Regional Settings					

2. Click Diagnostics.

The Network Diagnostics window is displayed.

Network Diagn			-∕∿-
Diagnostic Tool:	€Ping	•	
Address:			
Go			

3. Select Wake as the diagnostic tool.

Network Diagn	ostics		-//~ [`]
Diagnostic Tool:	🐥 Wake	-	
MAC Address:			
Broadcast IP			
Go			
			Close

- **4.** Enter the device's MAC address.
- 5. Optionally, check Broadcast IP and enter a broadcast address for the broadcast.
- 6. Click Go.

An **OK** message is displayed when the device is awakened.

7. Click Close.

Chapter 9. Monitoring the HCP Anywhere Enterprise Edge Filer

The HCP Anywhere Enterprise Edge Filer dashboard provides an overview of the HCP Anywhere Enterprise Edge Filer's current status.

To view the status dashboard:

 In the Configuration view, select Main > Dashboard in the navigation pane. The dashboard page is displayed.

HITACHI			Configuration Files (2) Hello admin ~
OO Main	-	Edge Filer Status: vGateway-27bd	
Dashboard This Edge Filer Active Sessions		vGateway-27bd.192.168.19.199	Notifications
Cloud Drive		Cache License Cloud Connections Active Migrations 100GB EV16 873KB 0 0	
ይይ Users			
ද <mark>රි</mark> Shares		Edge Filer Activity	
Storage		Load Cache Cache Hits Hit Rate Connections Local I/O Cloud I/O 🔛 Vie	
Logs		Utilization (%)	Everything is OK
🗘 Alerts		90	
Security		80	
රුඛු Cloud Services		70	
🛱 System		50	
		40	View Log
vGateway- 27bd		30	
7.6.3111.22		20	Setup Wizard

The dashboard displays the following information:

- An overview of the edge filer:
 - The edge filer name and IP.
 - The total storage available locally on the edge filer.
 - The license.
 - The amount of storage that is synced from the portal.
 - The number of connections to the edge filer.
 - The number of active migrations.
- Device Activity The edge filer activity over time, displayed graphically
 - Load The CPU and RAM usage.
 - When the Load activity is displayed, you can also display the processes currently running: Click **View Processes**.

The Top Processes window is displayed.

PID	Name	RAM	RAM (%)	CPU (%)	Threads Count	
1	/usr/lib/systemd/systemd	5.8MB	0%	0%	1	
448	/usr/lib/systemd/system	3.4MB	0%	0%	1	
773	/usr/lib/systemd/system	2.9MB	0%	0%	1	
774	/usr/sbin/smartd	4.7MB	0%	0%	1	
775	csrrdd:	25.4MB	0%	0%	1	
777	/usr/bin/vmtoolsd	7.7MB	0%	0%	2	
779	php	25.8MB	0%	0%	1	
					Total Rows: 9	3

Where:

PID – The process identifier.

Name – The process name.

RAM – The amount of RAM used by this process.

RAM (%) – The percentage of the RAM used by this process.

CPU – The percentage of CPU used by this process.

Threads Count – The number of threads spawned by the process.

- **Cache** The amount of storage used in the cache.
- **Cache Hits** The cache hits, misses and thrashing when accessing files and performing operations, such as *write*, on the files.

Hit – The file was accessed from the cache: it was not a stub file.

Miss – The file was a stub file that was downloaded from the portal. However, the file had not been accessed within the last 24 hours.

Thrashing – The file was a stub file that was downloaded from the portal. The file was not in the cache for less than 24 hours. Thrashing means that files that were recently evicted are needed.

• **Hit Rate** – The hit rate: A measurement of how many content requests a cache is able to fill successfully, *hits*, compared to how many requests it receives. The higher the cache hit ratio, the healthier the system.

Note: You can use the cache hit rate to determine peak usage times.

- **Connections** The number of SMB/CIF and NFS connections.
- Local I/O The I/O between the HCP Anywhere Enterprise Edge Filer and local connections.
- **Cloud I/O** The I/O between the HCP Anywhere Enterprise Edge Filer and HCP Anywhere Enterprise Portal.
- Notifications Notifications for the administrator about the edge filer. You can go straight to the Log Viewer to get more information by clicking View Log.
- Links to the Setup Wizard and File Server Migration.

Viewing Session Activity

To view edge filer Activity:

 In the Configuration view, select Main > Active Sessions in the navigation pane. The Active Sessions page is displayed.

HITACHI						Configuration	Files 🔞 Hello admin 🖌
OO Main	—	Active Sess	ions				
Dashboard This Edge Filer		Туре	User	Source IP	Duration	More Info	
Active Sessions		WebBrowser	admin	10.212.134.46	4 minutes		
ටි Cloud Drive	+						
ഫ്ഫ് Users	+						
Shares	+						
Storage	+						
Logs	+						
🗘 Alerts	+						
Security	+						
රු Cloud Services	+						
🗗 System	+						
vGateway- 27bd 7.6.3111.22	:						

The following information is displayed:

- **Type** The session type:
- NFS
- **CIFS** (Windows File Sharing)
- Web Browser

User – The user connected to the HCP Anywhere Enterprise Edge Filer.

Source IP – The IP address from which the user connected to the HCP Anywhere Enterprise Edge Filer.

Duration – The amount of time that the user has been connected to the HCP Anywhere Enterprise Edge Filer.

More Info – Additional information about the session, such as the client port when the type is NFS.

Note: The data is refreshed automatically every few seconds.

Using SNMP Monitoring

You can configure the HCP Anywhere Enterprise Edge Filer for monitoring using SNMP. This enables you to gather a wide range of information about the devices.

SNMP can be used with all HCP Anywhere Enterprise Edge Filers. SNMP v1, v2c, and v3 are supported. SNMPv3 security level is set to Authentication and Privacy with SHA + AES algorithms.

HCP Anywhere Enterprise Edge Filer includes Net-SNMP. For details, refer to <u>http://www.net-snmp.org</u>.

Monitoring the HCP Anywhere Enterprise Edge Filer

Information is collected for the following MIBS:

- MIB-II (IF-MIB): Basic description of the monitored system, such as the system name, uptime, and network interfaces. For details of this MIB, refer to <u>http://www.net-snmp.org/docs/mibs/interfaces.html</u> and <u>http://www.net-snmp.org/docs/mibs/ifMIBObjects.html</u>.
- HOST-RESOURCES-MIB: Computer management information, hardware and software configuration, such as information regarding system initialization, processes, storage, memory, processors, and devices. For details of this MIB, refer to <u>http://www.net-snmp.org/docs/mibs/host.html</u>.
- UCD-SNMP-MIB: System performance data, such as system statistics and performance. For details of this MIB, refer to http://www.net-snmp.org/docs/mibs/ucdavis.html.

The MIBs are stored on the SNMP server on the HCP Anywhere Enterprise Edge Filer. You can monitor the HCP Anywhere Enterprise Edge Filer MIBs using a management tool, such as the tool from <u>https://www.paessler.com/</u>.

Setting Up SNMP Monitoring on the HCP Anywhere Enterprise Edge Filer

To set up SNMP monitoring:

1. In the **Configuration** view, select **System > SNMP** in the navigation pane. The **SNMP** page is displayed.

HITACHI					Configuration Files	(1) Hello admin ~
OO Main	+	SNMP				
ි Cloud Drive	+					
දුහු Users	+	SNMP Enabled				
Shares	+	SNMP Port:	161			
Storage	+	SNMP Engine ID:				
Logs	+	Read Community:	public			
🗘 Alerts	+	Enable SNMPV3 Username:				
Security	+	Authentication Password:				
දිබු Cloud Services	+	Privacy Password:				
合 System	-					
Firmware			Save Revert			
Network						
SNMP						
Configuration Too	ls					
Support Report						
Regional Settings						
VEsteway						

2. Check the **SNMP Enabled** check box to activate SNMP, and then configure the following settings:

SNMP Port – The default is TCP 161.

Note: SNMP Engine ID is defined automatically based on the MAC address and cannot be changed.

Read Community – Configure as Read-Only. The SNMP Read-Only Community String is like a password. It is sent along with each SNMP Get-Request and allows or denies access to device.

If you are using SNMP v3, check the Enable SNMPV3 check box, and then enter a user name,

Monitoring the HCP Anywhere Enterprise Edge Filer

authentication password, and the privacy password, which must be a minimum of 8 characters.Click Save to save the settings and activate SNMP monitoring.

Monitoring the HCP Anywhere Enterprise Edge Filer

Chapter 10. HCP Anywhere Enterprise Edge Filer Logs

Each HCP Anywhere Enterprise Edge Filer includes logs to facilitate managing the site.

The HCP Anywhere Enterprise Edge Filer contains a log viewer that displays the different actions on the HCP Anywhere Enterprise Edge Filer. You can change what is displayed, such as the log levels to display.

To access the Log Viewer:

 In the Configuration view, select Logs > Log Viewer in the navigation pane. The Log Viewer page is displayed.

HITACHI			Configuration Files (a) Hello admin ~			
OO Main	+	Log Viewer	- -			
ධි Cloud Drive		System Backup Cloud Sync Access Audit				
ഫ്ഫ് Users		Minimum Severity: Info KSettings KSettin				
Shares		Date Details	More Information			
Storage	+	 11/27/2023 12:30: Error 	details: Sync Error: Unknown error			
Logs			details. Sync Liftit, Onknown enfor			
Log Viewer		• 11/27/2023 12:30: Error	11/27/2023 12:30: Error details: Sync Error: Unknown error			
Log Settings Syslog		• 11/27/2023 12:29: Connected to portal	name: 192.168.19.199.jp: 192.168.19.199			
Audit Logs		11/27/2023 12:29: Disconnected from portal	name: 192.168.19.199.jp: 192.168.19.199			
🗘 Alerts		• 11/27/2023 12:29: Connection to portal failed	name: 192.168.19.199 ,ip: 192.168.19.199 ,reason: Disconnect after backup			
Security		• 11/27/2023 12:29: Error	Error details: Sync Error: Failed to open connection for cloud sync			
🗳 System		• 11/27/2023 12:13: Error	details: Sync Error: Unknown error			
vGateway- 27bd 7.6.3111.22		• 11/27/2023 12:13: Error	details: Sync Error: Unknown error			
		11/27/2023 11:36: CloudSync state changed to normal	Details: CloudSync exited stall state			

HCP Anywhere Enterprise Edge Filer Logs

Configuring Logging

To configure log settings:

 In the Configuration view, in the navigation pane: Either, select Logs > Log Settings, Or, select Logs > Log Viewer and click Log Settings. The Log Settings page is displayed.

HITACHI			Configuration Files (1) Hello admin ~
Cloud Drive	+ +	Log Settings	
윤 Users	+	Keep logs for: 10 days	
≪ Shares ■ Storage	+ +	Store logs in: Automatic + Log level: Info +	
Logs	-	Save Revert	
Log Settings Syslog			
Audit Logs			
🗘 Alerts	+ +		
Cloud Services	+		
System	+		
vGateway- 27bd 7.6.3111.22	:		

2. Configure the settings as required:

Keep logs for – The number of days that the HCP Anywhere Enterprise Edge Filer stores logs. **Store logs in** – The volume where the HCP Anywhere Enterprise Edge Filer stores logs. If you choose Memory, the logs are deleted each time you reboot the HCP Anywhere Enterprise Edge Filer.

Log Level – The minimum log level to display in the HCP Anywhere Enterprise Edge Filer user interface. For example, if you select **Critical**, then only **Critical**, **Alert**, and **Emergency** logs are displayed in the HCP Anywhere Enterprise Edge Filer user interface. The logs are filtered accordingly.

3. Click Save.

You can also configure the HCP Anywhere Enterprise Edge Filer to send logs to a syslog server, described in <u>Configuring Syslog Settings</u>. While the HCP Anywhere Enterprise Edge Filer log is limited by the amount of available storage space, a syslog server can store an unlimited number of logs.

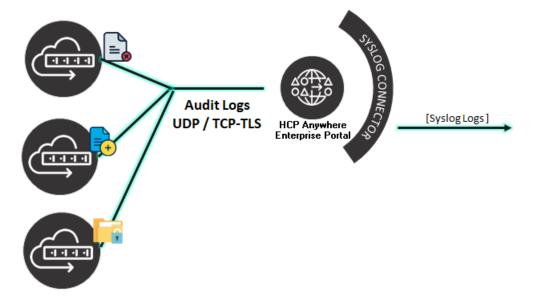
Note: Free syslog servers are available, such as Kiwi Syslog Daemon: <u>http://www.kiwisyslog.com/</u>.

Configuring Syslog Settings

You can configure syslog logging only for this edge file, or, using the HCP Anywhere Enterprise Portal *Edge Filer Syslog* service, HCP Anywhere Enterprise Portal can function as a centralized hub to collect logs from all the edge filers and send these logs to one or more syslog servers.

The protocol used to send logs from a HCP Anywhere Enterprise Edge Filer to the HCP Anywhere Enterprise Portal uses a protocol that ensures messages are not lost. By using the *Edge Filer Syslog* service:

- You can manage multiple HCP Anywhere Enterprise Edge Filer logs to Syslog.
- You ensure that logs are never lost. For example, when a HCP Anywhere Enterprise Edge Filer connects directly to Syslog, if the WAN connection goes down to a Syslog server in the cloud, logs will be lost. Using the Edge Filer Syslog server, the logs are not lost, and when the WAN connection is re-established, sending logs resumes with no loss.
- You can use multiple Syslog destinations by defining more than one Syslog server.



For details, see *Managing the Edge Filer Sylog Service* in the *Hitachi Content Platform Anywhere Enterprise Portal Global Administration Guide*.

HCP Anywhere Enterprise Edge Filer Logs

To configure syslog logging only for this HCP Anywhere Enterprise Edge Filer:

 In the Configuration view, select Logs > Syslog in the navigation pane. The Syslog page is displayed.

HITACHI	1	Configuration Files	(1) Hello admin ~
_	Syslog		
୍ଟ୍ Shares - E Storage -	Image: Description of the severity: Inflo Server Address:		
Alerts			

- 2. Select the Use Syslog option to enable syslog logging.
- 3. Configure the syslog:

Minimum Event Severity – The minimum event level to send to the Syslog server. For example, if you select **Critical**, then only **Critical**, **Alert**, and **Emergency** log entries are sent to the syslog server.

Server Address – The syslog server's IP address.

Sysiog Port – The sysiog server's port number. The default port used by a sysiog server when Protocol Type is UDP is 514. The default port used by a sysiog server when Protocol Type is TCP/TLS is 6514.

Protocol Type – The protocol to use for sending logs to the syslog server: UDP or TCP/TLS. **4.** Click Save.

Configuring Audit Log Settings

See Auditing SMB File Access.

Viewing Different Types of Logs

To view different types of logs:

 In the Configuration view, select Logs > Log Viewer in the navigation pane. The Log Viewer page is displayed.

HITACHI				Configuration Files (2) Helio admin ~
OO Main	+	Log Viewer		
ටි Cloud Drive	+	0	nc Access Audit	
ഫ്പ് Users	+	Minimum Severity: Info	✓ ¾ Settings Export To Excel	
୍ଟ୍ଦ Shares	+	Date Di	etails	More Information
Storage	+	• 11/27/2023 12:30: Er	ror	details: Sync Error: Unknown error
Logs	—	• 11/27/2023 12:30: Er	ror	details: Sync Error: Unknown error
Log Settings Syslog		• 11/27/2023 12:29: Co	onnected to portal	name: 192.168.19.199. jp: 192.168.19.199
Audit Logs		• 11/27/2023 12:29: Di	isconnected from portal	name: 192.168.19.199 ,ip: 192.168.19.199
🗘 Alerts	+	• 11/27/2023 12:29: Co	onnection to portal failed	name: 192.168.19.199 ,ip: 192.168.19.199 ,reason: Disconnect after backup
 Security Cloud Services 	++	• 11/27/2023 12:29: Er	ror	details: Sync Error: Failed to open connection for cloud sync
System	+	• 11/27/2023 12:13: Er	ror	details: Sync Error: Unknown error
vGateway-	:	• 11/27/2023 12:13: Er	ror	details: Sync Error: Unknown error
27bd 7.6.3111.22		• 11/27/2023 11:36: CI	oudSync state changed to normal	Details: CloudSync exited stall state

2. Select the type of log you want to view:

System – General HCP Anywhere Enterprise Edge Filer events, including starting up, connecting to the network and the HCP Anywhere Enterprise Portal, disconnecting from the network and the HCP Anywhere Enterprise Portal, and antivirus events. **Backup** – For future use.

Cloud Sync – Events related to cloud drive synchronization operations.

Access – Events related to user access to the HCP Anywhere Enterprise Edge Filer. **Audit** – Changes to the HCP Anywhere Enterprise Edge Filer configuration.

3. Optionally, change the minimum severity that is displayed. Ordered from most severe to least severe:

Red – Error Orange – Warning Green – Info

System Log

The System log displays the following details:

An icon indicating whether the event was successful (a green icon) or not (a red icon) or a warning (an orange icon).

Date - The date and time at which the event occurred.

Details - A description of the event

More Information – Additional information about the event.

Cloud Sync Log

The Cloud Sync log displays the following details:

An icon indicating whether the event was successful (a green icon) or not (a red icon) or a warning (an orange icon).

File Name – The name of the file and the folder it is in, transferred during the synchronization operation.

Operation – The synchronization operation performed and the direction: inbound or outbound. **Start Time** – The date and time at which the synchronization operation started.

Duration – The amount of time the synchronization operation took.

Size – The size of the synchronized file and the percentage saved.

Result – The result of the synchronization operation, such as the file was renamed.

More Information – Additional information about the event.

Access Log

The Access log displays the following details:

An icon indicating whether the event was successful (a green icon) or not (a red icon) or a warning (an orange icon).

Date – The date and time at which the event occurred.

User – The user who triggered the event.

Protocol – The protocol used when triggering the event.

Details – A description of the event.

Client Address – The IP address from which the user triggered the event.

More Information – Additional information about the event.

Audit Log

The Audit log displays the following details for the HCP Anywhere Enterprise Edge Filer:

Action – The action type.

Date – The date and time at which the event occurred.

User – The user who performed the action.

Type – The type of setting that was affected by the action. For example, if user Johns was deleted, this column displays Users.

Target – The object that was affected by the action. For example, if user JohnS was deleted, this column displays JohnS.

More Information – Additional information about the event.

Filtering Logs

For a log, you can filter the log so that only those with a specific minimum log level are displayed.

Note: For information on configuring the default minimum log level to display in all log pages, see <u>Configuring Logging</u>.

To filter logs:

1. In the **Configuration** view, select **Logs > Log Viewer** in the navigation pane. The **Log Viewer** page is displayed.

HITACHI				Configuration Files (Hello admin ~
OO Main	+	Log Viewer		·
ටි Cloud Drive	+	-	d Sync Access Audit	
ඩුඩු Users	+	Minimum Severity: ● Info	▼ ¾ Settings 🖾 Export To Exc.	el
 Shares 	+	Date	Details	More Information
Storage	+	11/27/2023 12:30:	Error	details: Sync Error: Unknown error
Logs	-			
Log Viewer		• 11/27/2023 12:30:	Error	details: Sync Error: Unknown error
Log Settings Syslog		• 11/27/2023 12:29:	Connected to portal	name: 192.168.19.199 ,ip: 192.168.19.199
Audit Logs		• 11/27/2023 12:29:	Disconnected from portal	name: 192.168.19.199 ,ip: 192.168.19.199
🗘 Alerts	+	• 11/27/2023 12:29:	Connection to portal failed	name: 192.168.19.199 ,ip: 192.168.19.199 ,reason: Disconnect after backup
Security	+	• 11/27/2023 12:29:	Error	details: Sync Error: Failed to open connection for cloud sync
্ধি Cloud Services 🖶 System	+ +	• 11/27/2023 12:13:	Error	details: Sync Error: Unknown error
vGateway-	:	• 11/27/2023 12:13:	Error	details: Sync Error: Unknown error
27bd 7.6.3111.22		• 11/27/2023 11:36:	CloudSync state changed to normal	Details: CloudSync exited stall state

- **2.** Select the type of log.
- 3. Click **Minimum Severity** and select from the list the minimum log level to display.

The logs are filtered accordingly.

Exporting Logs

You can export the most recent 10000 log entries to a Comma-Separated Values (CSV) file on your computer. You can then view the file as a worksheet in Microsoft Excel.

Note: The export only exports the most recent 10000 log entries.

To export logs in a log category:

1. In the **Configuration** view, select **Logs > Log Viewer** in the navigation pane. The **Log Viewer** page is displayed.

HITACHI				Configuration Files (2) Hello admin 🗸
OO Main	+	Log Viewer		
ටි Cloud Drive	+	-	d Sync Access Audit	
ഫ്പ് Users	+	Minimum Severity:	✓ ¾ Settings 📾 Export To Exce	a
ද ⁰ Shares	+	Date	Details	More Information
E Storage	+	• 11/27/2023 12:30:	Error	details: Sync Error: Unknown error
Log Viewer		• 11/27/2023 12:30:	Error	details: Sync Error: Unknown error
Log Settings Syslog		• 11/27/2023 12:29:	Connected to portal	name: 192.168.19.199 .jp: 192.168.19.199
Audit Logs		• 11/27/2023 12:29:	Disconnected from portal	name: 192.168.19.199 ,ip: 192.168.19.199
🗘 Alerts	+	• 11/27/2023 12:29:	Connection to portal failed	name: 192.168.19.199 ,ip: 192.168.19.199 ,reason: Disconnect after backup
Security Cloud Services	+ +	• 11/27/2023 12:29:	Error	details: Sync Error: Failed to open connection for cloud sync
System	+	• 11/27/2023 12:13:	Error	details: Sync Error: Unknown error
vGateway-	:	• 11/27/2023 12:13:	Error	details: Sync Error: Unknown error
27bd 7.6.3111.22		• 11/27/2023 11:36:	CloudSync state changed to normal	Details: CloudSync exited stall state

- 2. Select the type of log.
- 3. Click Export to Excel.

Understanding HCP Anywhere Enterprise Log File Entries

HCP Anywhere Enterprise products generate log messages upon various events. The log messages are divided by severity levels.

Level	Required Response
Emergency	System is unusable.
Alert	Action must be taken immediately.
Critical	Critical condition. A situation such as storage nearing full capacity has occurred. Action should be taken as soon as possible.
Error	Error condition. Action must be taken as soon as possible.
Warning	Warning messages. An indication that an error may occur if action is not taken.
Notice	Normal but significant condition.
Info	Informational message.
Debug	Debug-level messages, useful for debugging and troubleshooting.

Within each severity level, the log messages are divided into topics. These topics enable you to understand the source of the message. For example, messages dealing with signing-in are included in the access topic.

Log messages are divided into one of the following topics:

- access
- accounting
- allTopics
- antivirus
- audit
- cloudsync
- files
- sync
- system

Auditing SMB File Access

The HCP Anywhere Enterprise Edge Filer provides audit logs of the SMB file access operations performed on the HCP Anywhere Enterprise Edge Filer. This enables organizations to ensure compliance with internal policies and regulations.

Note: The SMB audit log does not record sync operations between the HCP Anywhere Enterprise Edge Filer and a HCP Anywhere Enterprise Portal.

To enable SMB audit logs:

1. In the **Configuration** view, select **Log Viewer > Audit Logs** in the navigation pane. The **Audit Logs** page is displayed.

HITACHI				Configuration Files	(1) Hello admin 🖌
OO Main 〇〇 Cloud Drive	+ Audit Logs				
ඩු Users දේ Shares	+ Enable CIFS/SMB Audit Logs Save log files to:		Required		
Storage	+ Rotate files every 1 Rotate files every 100	days MB	* *		
Logs	Keep closed log files for 30	days	•		
Log Settings Syslog	Events to Log Ust Folder Read Data				
Audit Logs	Create Files Write Data Create Folders Append Data				
Security	+ Read Extended Attributes				
රබා Cloud Services ඩී System	Write Extended Attributes Cog permission changes in human	eadable format			
vGateway- 27bd 7.6.3111.22	:	Save Revert			

2. Select the Enable CIFS/SMB Audit Logs option.

- 3. In the Save log files to field, click . . .
 - If you have created network shares, the following window is displayed, listing the network shares.

Select the network share for the destination to save the log files.

Click **Close** if you want to create a different network share for the audit logs and then create the network share, as described in <u>Managing Network Shares</u>.

• If you have not created a network share, the following window is displayed.

HITACHI		Configuration Files (2) Hello admin ~
OO Main 〇〇 Cloud Drive	+ Audit Logs	
ඩුඩු Users දේ Shares	+ Save log files to: Required	
E Storage	Rotate files every 1 days	
Log Viewer Log Settings Syslog Audit Logs	Events to Log Utst Folder Read Data No network shares available. Create Files Write Data Want to create one now?	
لَي Alerts الله Security المه Cloud Services	Create Folders Append Data Read Exembed Attributes White Extended Attributes Close	
System vGateway- 27bd 7.6.3111.22	+ I Log permission changes in human readable format Silve Revert	

a) To create a network share to use as the destination for the audit logs, click the Want to create one now? link.

The **Select a Folder to Share** wizard opens, displaying the volumes and folders on the HCP Anywhere Enterprise Edge Filer.

b) Follow the wizard to define the network share, as described in <u>Managing Network Shares</u>. The network share is selected as the destination to save the log files.

Click **Close** if you do not want to create a network share for the audit logs.

The audit log will be saved to /network_share/audit.log.dir/audit.log.

4. Optionally, change the logging details as desired.

Rotate files every (time limit) – How often to rollover the log files. You can define the rotation time in minutes, hours or days.

Rotate files every (size limit) – When to rollover the log files if they grow large. You can define the rotate size in KB, MB, or GB.

Keep closed files for – The number of days to keep closed log files.

A background task is run every 10 minutes and checks these values. For example, if the time to rotate the file has passed or if the size is over the specified size the log file is rotated. Note that this can mean that the file can be larger than the specified value as it will grow until the 10-minute check is performed.

The task also checks if closed log files have exceeded the specified time and any closed log file that has exceeded this time is deleted.

Note: If closed log files have exceeded the time specified in **Keep closed files for** and are deleted, and these deleted log files were not sent to the portal, the information in these deleted log files is lost. An example of when this might happen is when the connection to the portal is down for a long time.

This should never normally happen if the default for **Keep closed files for** is not set to too short a time.

5. In the **Events to log** area, optionally change the events to log, based on your organization's needs. To add or delete events to log, scroll through the list and select or clear the appropriate check boxes. The events you can log are:

Flag in User Interface	Meaning
List Folder Read Data	Log when data is read from a file.
Create Files Write Data	Log when data is written or appended to a file.
Create Folders Append Data	Log when a directory is created.
Read Extended Attributes	Log when an extended attribute is fetched.
Write Extended Attributes	Log when an extended attribute is replaced or a new extended attribute is created.
Traverse Folder Execute File	Log an attempt to open a file.
Delete Subfolders and Files	—
Write Attributes	Log when the file attributes, such as the system and hidden attributes, are changed.
Delete	Log when a file or directory is deleted.
Change Permissions	Log any change to a file or directory access permission.
Change Owner	Log when the owner of a file or directory is modified.

6. Optionally, check Log permission changes in human readable format, for changes in ACL permissions to files and folders to be reported in the audit log in an understandable format. Where:

ace-type indicates the type of ACE (allow/deny) ace-rights indicates the type of permissions/AccessMask ace-flags indicates the ACE behavior

Warning: Setting the log to be readable degrades performance. Hitachi Vantara recommends not setting this option, unless you really need it.

7. Click Save.

HCP Anywhere Enterprise Edge Filer generates audit log messages upon various operations.

Example Log Entries

open

```
July 30 08:33:42 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|ok|0x00000000|user=2022EDGEFILER\admin|sid=S
-1-5-21-2761415951-3033486807-2004858877-
1402|op=open|timestamp=1609310022|local_time=1609302822|rootPath=/var/vo
l/syncgateway/ cloudshare|share=cloud|path=users/portal admin/My
Files/Photos/CopiedFile -
Copy.png|access=011010011000000010010000000000|remote
hostname=10.212.134.55||
```

OpenDenied

read

```
July 30 08:33:41 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|ok|0x00000000|user=2022EDGEFILER\admin|sid=S
-1-5-21-
2761415951-3033486807-2004858877-1402|op=read|timestamp=1609310021|local
_time=1609302821|rootPath=/var/vol/syncgateway/
cloudshare|share=cloud|path=users/portal admin/My
Files/Photos/CopiedFile - Copy.png|type=file|remote
hostname=10.212.134.55|fileSize=148071|dataRW=4096||
```

write

```
July 30 08:33:51 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|ok|0x00000000|user=2022EDGEFILER\admin|sid=S
-1-5-21-
2761415951-3033486807-2004858877-1402|op=write|timestamp=1609310031|loca
1_time=1609302831|rootPath=/var/vol/syncgateway/cloudshare|share=cloud|p
ath=users/portal admin/My Files/Photos/~$w Microsoft Word
Document1.docx|type=file|remote
hostname=10.212.134.55|fileSize=54|dataRW=113||
```

move

```
July 30 08:34:06 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|ok|0x00000000|user=2022EDGEFILER\admin|sid=S
-1-5-21-
2761415951-3033486807-2004858877-1402|op=move|timestamp=1609310046|local
_time=1609302846|rootPath=/var/vol/syncgateway/
cloudshare|share=cloud|source path=users/portal admin/My
Files/Photos/New Microsoft Word Document1.docx|destination
path=users/portal admin/My Files/Photos/E0EAEC4D.tmp|type=file|remote
hostname=10.212.134.55||
```

create

```
July 30 08:33:51 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|ok|0x00000000|user=2022EDGEFILER\admin|sid=S
-1-5-21-
2761415951-3033486807-2004858877-1402|op=create|timestamp=1609310031|loc
```

```
al_time=1609302831|rootPath=/var/vol/syncgatewa
y/cloudshare|share=cloud|path=users/portal admin/My Files/Photos/~$w
Microsoft Word Document1.docx|type=file|remote hostname=10.212.134.55||
```

delete

fail operation

```
July 30 08:33:42 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|fail|0xc0000034|user=2022EDGEFILER\admin|sid
=S-1-5-21-
2761415951-3033486807-2004858877-1402|op=delete|timestamp=1609310022|loc
al_time=1609302822|rootPath=/var/vol/syncgatewa
y/cloudshare|share=cloud|path=users/portal admin/My
Files/Photos/._CopiedFile - Copy.png|type=file|remote
hostname=10.212.134.55|fileSize=10000|dataRW=18446744073709551615||
```

ok operation

```
July 30 08:33:42 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|ok|0x00000000|user=2022EDGEFILER\admin|sid=S
-1-5-21-
2761415951-3033486807-2004858877-1402|op=delete|timestamp=1609310022|loc
al_time=1609302822|rootPath=/var/vol/syncgatewa
y/cloudshare|share=cloud|path=users/portal admin/My
Files/Photos/CopiedFile - Copy.png|type=file|remote
hostname=10.212.134.55|fileSize=10000|dataRW=18446744073709551615||
```

setattrib

```
July 30 08:33:42 2022EdgeFiler smbd:
|2022EdgeFiler|hcp_audit|fs|ok|0x0000000|user=2022EDGEFILER\admin|sid=S
-1-5-21-
2761415951-3033486807-2004858877-1402|op=setattrib|timestamp=1609310022|
local_time=1609302822|rootPath=/var/vol/syncgat
eway/cloudshare|share=cloud|path=users/portal_admin/My
Files/Photos/CopiedFile -
```

getea

```
July 29 10:30:47 2022EdgeFiler smbd:

|2022EdgeFiler|hcp_audit|fs|fail|0xc0000225|user=2022EDGEFILER\admin|sid

=S-1-5-21-

2761415951-3033486807-2004858877-1402|op=getea|timestamp=1609230647|loca

1_time=1609223447|rootPath=/var/vol/syncgateway/cloudshare|share=cloud|p

ath=/var/vol/syncgateway/cloudshare|att=org.netatalk.Metadata|remote

hostname=10.212.134.70||
```

Each field in the message is separated by the | character. The fields in the examples have the following meaning:

Timestamp and edge filer name – Each line in the audit log starts with the timestamp when it was written to the log and the edge filer connected to. For example, July 30 08:33:42

2022EdgeFiler smbd: Edge filer name – The name of the device on which the operation was executed. For example, 2022EdgeFiler Log name - The name of the audit log: hcp audit. **Type** – The audit type. **Operation result** – The result, either **ok** or **fail**. Operation result code – The result code for the operation. 0xc0000000 for ok. fail is 0xc0000225. **User name** – The name of the user who executed the operation. For example, user=2022EDGEFILER\admin User SID - The security identifier. For example, sid=S-1-5-21-2278938113-1352723297-1199027263-1402 **Operation** – The operation that was executed. For example, op=open Timestamp – The UTC time the operation was executed. For example, timestamp=1609230647 Local time – The local time the operation was executed. For example, local time=1609223447 **Root Path** – The root path for the share. For example, rootPath=/var/vol/syncgateway/cloudshare|share=cloud Share – The name of the share. For example, share=cloud **Path** – The path to a file being handled. For example, path=users/portal admin/My Files/Photos/New Microsoft Word Document1.docx Destination - The destination for a move or copy operation. For example, destination path=users/portal admin/My Files/Photos/E0EAEC4D.tmp **Type** – Whether the operation is on a folder or file. Attributes – The attributes, either in readable format, for example, att=org.netatalk.Metadata or machine readable, for example, dosattrib=0000dosattrib=0000 Access code - The access code. For example, **Remote hostname** – The IP address of the device connected using SMB to the HCP Anywhere Enterprise Edge Filer. For example, remote hostname=10.212.134.70 File size – The size of the file being operated on. For example, Size=18446744073709551615 Data Read/Write – For example, dataRW=18446744073709551615 **Directory** – Whether the operation is on a directory or not. For example, isDir=1 The operations have the following meanings:

Operation in Log	Description	Flag in User Interface
read, OpenDenied	Open a file for reading	List Folder Read Data
create, write, createDenied, OpenDenied, move	Create or write to a file Create Files	Write Data
create, createDenied, OpenDenied	Create a folder	Create Folders Append Data
getea	Get the extended attributes	Read Extended Attributes
setea	Set the extended attributes	Write Extended Attributes
delea	Delete an extended attribute	Write Extended Attributes

Operation in Log	Description	Flag in User Interface
open	Open a file	Traverse Folder
delete, move	Delete a file or folder	Delete
getattrib	Get the attributes	—
setattrib	Set the attributes	Write Attributes
ACEChanged	Change permissions	Change Permissions
ACLAdded, ACLDeleted, ACLProtectionAdded, ACLProtectionDeleted	Change access permissions	Change Permissions
setdacl	Set permissions	Change Permissions
getsd	The security descriptor of a file or directory is fetched	
setsd, AcIDenied	The security descriptor of a file or directory is set	Change Permissions
chown, AclDenied	Change the owner	Change Owner
deleteDenied	Don't allow deleting a file or folder	Delete Subfolders and Files

Chapter 11. Configuring Email Alerts

You can configure the HCP Anywhere Enterprise Edge Filer to send alerts upon important events. The alerts can be sent to up to two email addresses.

To configure the HCP Anywhere Enterprise Edge Filer to send email alerts:

1. In the **Configuration** view, select **Alerts > Mail Server** in the navigation pane. The **Mail Server** page is displayed.

HITACHI			Configuration	Files	Hello admin ~
OO Main	+	Mail Server			
Cloud Drive					
ഫ്ഫ് Users		Deliver email using a custom SMTP server			
్లి Shares		SMTP Server:			
Storage		SMTP Port: 25			
Logs		Server requires authentication Username:			
🗘 Alerts	-	Password:			
Email Alerts					
Mail Server		Enable TLS:			
Security		Save Revert			
ද්ධි Cloud Services					
ඩ් System					
vGateway- 27bd 7.6.3111.22					

- 2. Configure the settings according to the requirements:
 - Deliver email using a custom SMTP server Enable email alerts.
 - SMTP Server The SMTP server's IP address.
 - SMTP Port The SMTP server's port number. The default is 25.

Server requires authentication – The SMTP server requires authentication.

- **Username** The user name when authenticating to the SMTP server.
- **Password** The password for the user.

Enable TLS – Use Transport Layer Security (TLS) encryption for sending email messages from the HCP Anywhere Enterprise Edge Filer.

- 3. Click Save.
- In the Configuration view, select Alerts > Email Alerts in the navigation pane. The Email Alerts page is displayed.

HITACHI					Configuration	Files	(1) Hello admin ~
이어 Main 이어 Cloud Drive	+ +	Email Alerts					
윤 Users	+	Email Recipient 1:					
୍ଦ୍ତ Shares	+	Email Recipient 2:					
Storage	+	Sender Email:	alert-no-reply@hitach	nivant			
Logs	+	Alert Events					
🗘 Alerts	-	Log message of severity	Critical -	or higher			
Email Alerts		Vo cloud connectivity	6	hours			
Mail Server		Z Last Cloud Sync was more than	5	hours ago			
Security	+	Volume Full	90 🗘	96			
රිබ් Cloud Services	+	Additional Event Notifications					
🛱 System	+	Firmware Updated					
		Device shutdown/started					
			Save Revert	Test			
vGateway- 27bd 7.6.3111.22	:						

5. Configure the settings according to the requirements:

Email Recipient 1 – An email address to which email alerts are sent.
Email Recipient 2 – A second email address to which email alerts are sent.
Sender Email – The email address for the From field of email alerts.
Log message of severity – The minimum event severity level for which to send email alerts.

For example, if you select **Critical**, then only **Critical**, **Alert**, and **Emergency** logs are sent to the email recipients.

Select each type of alert event for which you want emails to be sent:

- **No cloud connectivity** When there is no cloud connectivity for more than the specified number of hours.
- Last Cloud Sync was more than When the last cloud synchronization operation was performed more than the specified number of hours ago.

Select each type of additional event for which you want emails to be sent:

- **Firmware Updated** When the HCP Anywhere Enterprise Edge Filer firmware has been updated.
- **Device shutdown/started** When the HCP Anywhere Enterprise Edge Filer starts up and shuts down.
- 6. Click Revert, if you made changes that were not saved, to revert to display the saved values.
- 7. Click Save.
- 8. To test the configuration, click **Test**.

A test email is sent to the specified email addresses.

Chapter 12. Generating a Support Report

If a problem arises with the HCP Anywhere Enterprise Edge Filer, you can generate a report for Hitachi Vantara support to use to identify and resolve the problem.

To generate a support report:

1. In the Configuration view, select System > Support Report in the navigation pane. The Support Report page is displayed.

HITACHI			Configuration	Files	(1) Hello admin ~
ටි Cloud Drive	+	Support Poport			
ഫ്ഫ് Users	+	Support Report			
Shares	+	Automatic crash reporting is disabled			
Storage	+	You can still generate reports manually			
Logs	+	Enable () What's this?			
🗘 Alerts	+				
🔄 Security	+	🗒 Generate Standard Report 📋 Generate Advanced Report			
දිණි Cloud Services	+	Type Date Size			
🗗 System	-				
Firmware					
Network		No Support Report found			
SNMP					
Configuration Tool	s				
Support Report					
Regional Settings					
vGateway-	:				

2. Click either Generate Standard Report or Generate Advanced Report.

The report is generated displaying the type of report. **Standard** or **Advanced**, and with the status, for example **Collecting Data**. On completion the status is **Download Report**.

HITACHI						Configuration	Files	① Hello admin ~	~
ති Cloud Drive නී Users	++	Support R	eport						
Shares Storage	+ +	Automatic crash reporting is disabled You can still generate reports manually							
Logs	+	(i) Enable	What's this?						
Security	+ +	Generate Sta	ndard Report 🛛 🔲 Generate	e Advanced Report					
Cloud Services	+	Standard	Nov 27, 2023 1:50 PM	3126	Collecting Data — 17.82%				
Firmware		Advanced	Nov 17, 2023 2:05 PM	9.1MB	Download Report				
Network		Advanced	Nov 15, 2023 5:46 PM	8.9MB	Download Report				
Configuration Tool	s	🗮 Advanced	Nov 13, 2023 10:15 PM	8.6MB	Download Report				
Regional Settings									
vGateway- 27bd	:								

Generating a Support Report

3. Click Download Report to download the report to the local PC.

Send the report to Hitachi Vantara support.

Automatically Sending Crash Reports to Support

If an edge filer crash occurs, you can have the edge filer automatically send a report to Hitachi Vantara support so that analysis of the crash can begin as early as possible.

Crash reports do not include sensitive or personal information. The reports are sent encrypted. The only identifying content in the crash report is the DNS name.

Click **Enable** to have the HCP Anywhere Enterprise Edge Filer automatically upload crash reports to the Hitachi Vantara support center in the event of a crash.

Click **Disable** if you no longer need to use this service after you enabled it.

Generating a Support Report

Chapter 13. Maintaining a HCP Anywhere Enterprise Edge Filer

Upgrading the Edge Filer

You can configure the HCP Anywhere Enterprise Edge Filer to automatically download firmware updates from the HCP Anywhere Enterprise Portal it is connected to and install this download. Alternatively, you can install firmware updates manually.

Note: The recommended method to update the HCP Anywhere Enterprise Edge Filer firmware is by pushing new firmware from the HCP Anywhere Enterprise Portal. For details refer to the HCP Anywhere Enterprise Portal documentation.

After an upgrade, the previous version is saved. When starting up the HCP Anywhere Enterprise Edge Filer the new version is selected and after a couple of seconds, it is started. If you need to revert to the previous version, during the startup, when both versions are displayed, select the previous version.

Configuring Automatic Firmware Updates

To configure automatic firmware updates:

1. In the **Configuration** view, select **System > Firmware** in the navigation pane. The **Firmware** page is displayed.

HITACHI		Configuration Files (2) Hello admin 🛩
Cloud Drive	+ +	Firmware
 మ్రో Users <్రి Shares		O The currently installed firmware is up to date Current Firmware Version
Storage		7.6.3111.22
Logs		Install from File
↓ Alerts		
Security		
System	-	
Firmware		
Network		
SNMP Configuration Too	ds	
Support Report		
Regional Settings		

The following information can be displayed:

- Whether the current firmware is the latest version or not.
- The available newer version if there is one.
- The most recent available firmware version from the HCP Anywhere Enterprise Portal firmware repository.
- The progress of an upgrade. This information is displayed if firmware has been

downloaded, and Download and install updates automatically has been set in he **Automatic Update Settings** window.

2. Click Settings.

The Automatic Update Settings window is displayed.

Automatic Updat	e Setting	s		1	4
Download and install u Restart automatically a			2		
 As soon as possible During these hours 		*		÷	
On Days:	Every Day			¥	
			Sav	e	Cancel

3. To specify that the HCP Anywhere Enterprise Edge Filer should download and install firmware updates automatically, click **Download and install updates automatically**.

If you do not select this option, you must perform firmware updates manually, as described in <u>Manually Upgrading the Firmware</u>.

- **4.** To specify that the HCP Anywhere Enterprise Edge Filer should automatically reboot after installing new firmware updates, do the following:
 - a) Click Restart automatically after installing new firmware.
 - b) Specify when automatic rebooting should occur, by doing one of the following: To reboot as soon as possible after a firmware update, choose As soon as possible. In this case, the HCP Anywhere Enterprise Edge Filer will reboot as soon as it is recommended to do so. For example, the automatic reboot might be deferred, if the HCP Anywhere Enterprise Edge Filer is undergoing system maintenance that should not be interrupted.

To reboot only during specific hours, choose **During these hours**, then use the drop-down lists to specify the desired time range. If you do not enable automatic rebooting, then you will need to reboot the HCP Anywhere Enterprise Edge Filer as described in <u>Restarting the HCP Anywhere Enterprise Edge Filer</u>, when this page indicates that a new update has been installed.

5. Click Save.

Manually Upgrading the Firmware

- 1. In the **Configuration** view, select **System > Firmware** in the navigation pane.
- The **Firmware** page is displayed, showing the currently installed firmware version.
- 2. Either,
 - a) Click **Install from Portal** to install the latest version from the HCP Anywhere Enterprise Portal.

Install from Portal is only available if the portal repository includes firmware to use.

b) Click Yes.

Or,

a) Click Install from File.

The Firmware Update window is displayed.

Firmware Update Select a file (*.firm) to update the firmware image.	O
Select a file to upload:	Upload
	Cancel

b) Click Upload and browse to the required firmware (*.firm) file.

The firmware file is uploaded. A progress bar displays the percentage upload.

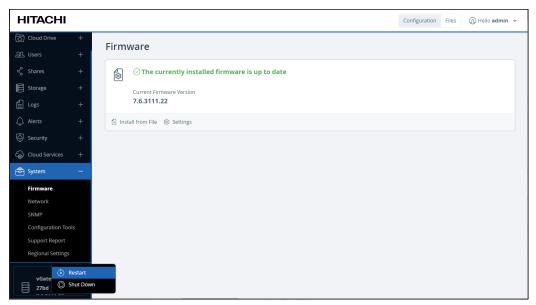
On completion, the HCP Anywhere Enterprise Edge Filer automatically reboots after a few minutes. The page displays the current firmware version until after the reboot, the new firmware version after the reboot, and the time until the reboot starts automatically.

Restarting the HCP Anywhere Enterprise Edge Filer

If you are experiencing problems with the HCP Anywhere Enterprise Edge Filer, restarting it may solve the problems.

To restart the HCP Anywhere Enterprise Edge Filer via the user interface:

1. At the bottom of the navigation pane, next to the HCP Anywhere Enterprise Edge Filer name, click the three dots menu and then click **Restart**.



A confirmation message is displayed.

2. Click Reboot.

The HCP Anywhere Enterprise Edge Filer restarts.

Shutting Down the HCP Anywhere Enterprise Edge Filer

To shut down a HCP Anywhere Enterprise Edge Filer via the user interface:

1. At the bottom of the navigation pane, next to the HCP Anywhere Enterprise Edge Filer name, click the three dots menu and then click **Shut Down**.

HITACHI		Configuration Files (2) Helio admin 🛩
ටි Cloud Drive	+	Firmware
ഫ്രീ Users		Finiware
≪° Shares		ⓓ ☉ The currently installed firmware is up to date
Storage		Current Firmware Version
Logs		7.6.3111.22
🗘 Alerts		Install from File
Security		
ර්ධා Cloud Services		
🔁 System		
Firmware		
Network		
SNMP		
Configuration Too	ls	
Support Report		
Regional Settings		
vGate	lestart ihut Dow	

A confirmation message is displayed.

2. Click Shut Down.

The HCP Anywhere Enterprise Edge Filer shuts down.

Resetting a HCP Anywhere Enterprise Edge Filer to its Default Settings

You can reset the HCP Anywhere Enterprise Edge Filer to its factory default settings. This action does not reset the version, which is taken from the HCP Anywhere Enterprise Portal.

Warning: This action erases all of your passwords and settings, and you will need to reconfigure the HCP Anywhere Enterprise Edge Filer. To reconfigure, run the setup wizard, described in *Initial HCP Anywhere Enterprise Edge Filer Setup*, in the installation guide.

To reset the HCP Anywhere Enterprise Edge Filer to its default settings via the user interface:

1. In the **Configuration** view, select **System > Configuration Tools** in the navigation pane. The **Configuration Tools** page is displayed.

HITACHI	Configuration Files (2) Helio admit	n v
OD Main +	Configuration Tools	
요 Users + 약 Shares +	O Configuration Backup is Active To restore configuration backup click "View Backup" Last Backup Backup Result Next Backup Nov 26, 2023 9:07 PM O Success in 10 hours	
E Storage +	ⓒ Backup Now ④ Disable Configuration Backup 📓 View Log 🖒 View Backup	
	Import Import the Edge Filer configuration from a file	
Security +	Export Export Export the Edge Filer configuration to a file	
System – Firmware Network	Reset to Defaults > Reset the Edge Filer configuration to default values >	
SNMP Configuration Tools Support Report		
Regional Settings		

- 2. Click Reset to Defaults.
- A confirmation message is displayed.
- 3. Click Yes.

The HCP Anywhere Enterprise Edge Filer is reset to its default settings, and the initial Login page is displayed.

To reconfigure the HCP Anywhere Enterprise Edge Filer, run the setup wizard, described in the *Initial HCP Anywhere Enterprise Edge Filer Setup*, in the installation guide.

Changing the HCP Anywhere Enterprise Edge Filer License

A HCP Anywhere Enterprise Edge Filer requires a license to operate, which it receives from HCP Anywhere Enterprise Portal. You can change the license to another license that is available in your HCP Anywhere Enterprise Portal account.

To change the HCP Anywhere Enterprise Edge Filer license:

 In the Configuration view, select Main > This Edge Filer in the navigation pane. The This Edge Filer page opens, displaying the HCP Anywhere Enterprise Edge Filer details.

HITACHI		Configuration Files (2) Hello admin 🗸
OO Main Dashboard	-	This Edge Filer
This Edge Filer Active Sessions		This Edge Filer License Storage RAM Hardware Model EV16 99.00GB of 16.00TB licensed 8.00GB of 8.00GB licensed vGateway
ටි Cloud Drive		% Change License
ඩුවු Users		
		MAC Address Serial Number 00:50:56:ad:27:bd VMware-42 2d 5b c6 25 2c 44 5a-60 f6 14 3d 89 d4 5f b2
Storage		
Logs		Firmware Version This Edge Filer Name Physical Location
🗘 Alerts		7.6.3111.22 vGateway-27bd / Not set /
Security		🛃 Update Firmware
ද්ධි Cloud Services		
System		
vGateway- 27bd 7.6.3111.22		

2. In the license area click Change License.

The Select License window is displayed.

Note: When there is no choice, determined by the licenses available in the HCP Anywhere Enterprise Portal account, the current license is displayed. Click **Done** to exit the procedure.

following license	was obtained for your virtual gate	eway	
Туре	Maximum Sto	rage Maximum P	RAM
EV16	16.00 TB	8.00 GB	
	irrently installed capacity is 3 irrently installed RAM is 8 GB		

3. Select the new license and click **Save**.

Chapter 14. macOS: Accessing a HCP Anywhere Enterprise Edge Filer

When using a Mac computer to search for files in a share on the edge filer, you can search for these files using Mac Finder. Enabling file searches requires a file index. After indexing completes, you can search for files even when the HCP Anywhere Enterprise Edge Filer syncing is suspended. For details, see <u>macOS: Enabling Using Finder to Search in the HCP Anywhere Enterprise Edge Filer</u>.

Before connecting a Mac computer to a HCP Anywhere Enterprise Edge Filer configured as a Caching Gateway, you have to configure the Mac computer:

- Hidden .DS_Store files are not enabled.
 - **Note:** Apple uses .DS_Store files to store the custom attributes of folders. By default, Finder creates a .DS_Store file in every folder that it accesses. Disabling the .DS_Store setting is required when connected to the HCP Anywhere Enterprise Edge Filer.
- To display icons in Finder for stub files and folders.

To configure the Mac computer when connecting to the HCP Anywhere Enterprise Edge Filer:

- **1.** Update the Mac OS X to macOS 10.14 (Mojave) or higher.
 - **Note:** You can check the version by right-clicking the Apple icon, **I**, in the right of the menu bar and choosing **About This Mac** to display the version. If required, you can also update the software from this window.
 - Hitachi Vantara recommends using either of the latest 2 versions of macOS.
- 2. Open the Terminal application, located under Applications > Utilities.
- 3. Execute the following command:

defaults write com.apple.desktopservices DSDontWriteNetworkStores true

. 🔴 😑 😁	🏠 administrator — -bash — 98×8
adms-Mac:∼ administrator\$ defaults adms-Mac:∼ administrator\$	write com.apple.desktopservices DSDontWriteNetworkStores true

4. Restart the Mac computer.

Using HCP Anywhere Enterprise Cache Assist

HCP Anywhere Enterprise provides a macOS Finder extension, HCP Anywhere Enterprise Cache Assist, for enhanced display of cached network share for the purpose of providing a consistent user experience across any desktop and HCP Anywhere Enterprise Edge Filer.

For details about how to install and use HCP Anywhere Enterprise Cache Assist, see *Hitachi Content Platform Anywhere Enterprise Cache Assist.*

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