

Hitachi Data Ingestor

6.4.7-00

SSH Key Exchange Algorithm Feature Supplement

This document describes and provides instructions for the SSH Key Exchange Algorithm feature of the Hitachi Data Ingestor (HDI) software.

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Preface

This document describes and provides instructions for the SSH Key Exchange Algorithm feature of the Hitachi Data Ingestor (HDI) software.

Please read this document carefully to understand how to use this feature, and maintain a copy for reference purposes.

Intended Audience

This document is intended for system administrators, Hitachi Vantara representatives, and authorized service providers who are involved in installing, configuring, and using the Hitachi Data Ingestor (HDI) software.

This document assumes the user is familiar with the Hitachi Data Ingestor software.

Product Version

This document revision applies to Hitachi Data Ingestor version 6.4.7-00 or later.

Accessing Product Documentation

Product user documentation is available on Hitachi Vantara Support Connect: <https://knowledge.hitachivantara.com/Documents>. Check this site for the most current documentation, including important updates that may have been made after the release of the product.

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Thank you!



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Purpose

The setting feature for SSH key exchange algorithm is a function to set key exchange algorithm to be available between the HDI and clients when the client accesses to the HDI using SSH protocol.

Prerequisite

Applicable Version

This feature is applicable for Hitachi Data Ingestor 6.4.7-00.

Prerequisite Products

No prerequisite products are required to use this feature.

Prerequisite System Configuration

This feature is executable on the physical node in cluster and single node configuration.

Related Manuals

Related Manuals are listed as follows. Please refer to them as needed.

#	Category	Manual Name
1	User's Guide	Hitachi Data Ingestor Installation and Configuration Guide
2		Hitachi Data Ingestor Cluster Administrator's Guide / Single Node Administrator's Guide
3		Hitachi Data Ingestor CLI Administrator's Guide
4		Hitachi Data Ingestor Error Codes
5		Hitachi Data Ingestor Cluster Troubleshooting Guide / Single Node Troubleshooting Guide

Overview

This chapter describes the summary of the setting feature for SSH key exchange algorithm.

Setting feature for SSH key exchange algorithm

This feature is a function to set SSH key exchange algorithm to be used in the SSH communication between HDI and clients. The editable setting by this feature is as follows.

- SSH key exchange algorithm 'diffie-hellman-group1-sha1' to be set enable or disable

The SSH key exchange algorithm 'diffie-hellman-group1-sha1' is set to enable as default.

If you want to change the setting to disable, refer '5. Operation Procedure', and perform the setting change.

Operational Notes

1. The SSH key exchange algorithm setting updated by this feature only applies for the SSH communication that had been started after setting change is completed. It does not apply for the SSH communication already connected before setting change is completed.
2. The SSH key exchange algorithm setting changed by this feature only applies for the SSH communication targeted to the node the setting change is performed on. If you want to set the same setting to both of the nodes, perform the setting change on both nodes.

Operation Procedure

This chapter describes how to set and refer the settings of SSH key exchange algorithm.

Procedure to refer the setting of SSH key exchange algorithm setting feature

This section explains how to refer the setting of SSH key exchange algorithm.

- (1) Log in targeted to the management IP address of the node that settings to be referred by using nasroot account and ssh protocol.
- (2) Execute the sshconflist command to refer the settings.

(a) Result in the case key exchange algorithm 'diffie-hellman-group1-shal' is enable

```
$ sudo sshconflist
SSH key exchange algorithm
diffie-hellman-group1-shal : on
$
```

- (b) Result in the case key exchange algorithm 'diffie-hellman-group1-shal' is disable

```
$ sudo sshconflist
```

Procedure to enable the setting of SSH key exchange algorithm 'diffie-hellman-group1-sha1'

This section explains how to enable the setting of SSH key exchange algorithm.

- (1) Log in targeted to the management IP address of the node that settings to be set by using nasroot account and ssh protocol.
- (2) Execute the sshconfset command to change the settings.

```
$ sudo sshconfset --kexdhgplshal on
$
```

- (3) Log out from the node.
- (4) Perform the steps from (1) to (3) on another node.

Procedure to disable the setting of SSH key exchange algorithm 'diffie-hellman-group1-sha1'

This section explains how to disable the setting of SSH key exchange algorithm.

- (1) Log in targeted to the management IP address of the node that settings to be set by using nasroot account and ssh protocol.
- (2) Execute the sshconfset command to change the settings.

```
$ sudo sshconfset --kexdhgplshal off
$
```

- (3) Log out from the node.
- (4) Perform the steps from (1) to (3) on another node.

Command Specification

sshconflist (Referring the setting of SSH key exchange algorithm setting feature)

Synopsis

```
sshconflist
sshconflist -h
```

Description

This command displays the setting of SSH key exchange algorithm set to the node.

Options and arguments

-h
Show usage of this command.

Displayed information

This command displays the setting of SSH key exchange algorithm as follows.

In the case key exchange algorithm 'diffie-hellman-group1-sha1' is enable

```
SSH key exchange algorithm
diffie-hellman-group1-sha1 : on
```

In the case key exchange algorithm 'diffie-hellman-group1-sha1' is disable

```
SSH key exchange algorithm
diffie-hellman-group1-sha1 : off
```

Return values

Return value of sshconflist

Return value	Descriptions
0	Normal termination
1	The specified value might not be appropriate or the command is specified in an incorrect format. Correct the format, and then retry the operation.
99	The system error has been occurred. Collect all log data and then contact maintenance personnel.

Example

```
$ sudo sshconflist
SSH key exchange algorithm
diffie-hellman-group1-sha1 : on
```

sshconfset (Setting of SSH key exchange algorithm)

Synopsis

```
sshconfset --kexdhgp1sha1 {on | off}
sshconfset -h
```

Description

This command set the setting of SSH key exchange algorithm to the node.

Options and arguments

```
--kexdhgp1sha1 {on | off}
    Change the setting of SSH key exchange algorithm 'diffie-hellman-group1-sha1'
    into enable(on), or disable(off).
-h
    Show usage of this command.
```

Displayed information

Nothing is displayed.

Return values

Return value of sshconfset

Return value	Descriptions
0	Normal termination
1	The specified value might not be appropriate or the command is specified in an incorrect format. Correct the format, and then retry the operation.
99	The system error has been occurred. Collect all log data and then contact maintenance personnel.

Example

```
$ sudo sshconfset --kexdhgp1sha1 off
```



Message reference

Message ID beginning with KAQG53

Message ID	Message	Description and Action
KAQG53009-I	Usage: <i>command-syntax</i>	This message displays the syntax of a command. (O) No action is required.
KAQG53010-E	An invalid parameter is specified. (details = <i>details</i>)	An invalid parameter is specified. (O) Specify valid parameters according to the Help.
KAQG53015-E	An internal error occurred. (details = <i>details</i>)	A system error occurred. (O) Collect all log data, and then contact maintenance personnel.

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