

Cisco CMX High Availability Commands

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cmxha info

To view Cisco CMX high availability (HA) information, such as version, IP addresses, and so on, use the **cmxha info** command.

 Syntax Description
 This command has no arguments or keywords.

 Command Default
 None

 Command Modes
 Admin root user

 Command History
 Release

 Cisco CMX Release 10.3
 This command was introduced.

Usage Guidelines This command should be run at the cmxadmin level.

cmxha info

Examples

The following example shows how to print Cisco CMX HA information:

[cmxadmin@CMXHAPrimary ~]\$ cmxha info

| State State Description State Last Updated Time Keepalived State Role Primary IP Address Secondary IP Address Use Virtual IP Address Virtual IP Address Failover Type Email Notify Address | <pre>: Fri Mar 24 02:31:31 2017 : Primary Not Configured : Primary has not been configured with a secondary : Mon Nov 7 13:42:39 2016 : Stopped : Mon Nov 7 13:42:39 2016 : PRIMARY : 192.0.2.1 : : True : : Automatic Failover</pre> |
|--|---|
| MAC Address | : |
| SHA1 Key SHA2 Key | |
| Secondary | WLC Auth |
| MAC Address | : |
| SHA1 Key | : |
| SHA2 Key | : |
| | nformation |
| Total Memory | : 25.0 GB |
| Total Disk | : 157.0 GB |
| Number of CPUs | : 8 Information |
| Redis Version | |

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Postgres Version : 9.3.11 Cassandra Version : 2.1.13

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cmxha config

To configure Cisco CMX high availability (HA), use the cmxha config command.

cmxha config{disable| enable| modify| {*email* | *failover*}| test| {*email*}

| Syntax Description | disable | Disables CMX HA configuration. |
|--------------------|--|---|
| | enable | Enables CMX HA configuration. |
| | modify | Modifies CMX HA configuration. |
| | email | Enter the email address. |
| | failover | Enter the failover type as either Manual or Automatic . |
| | test | Tests the CMX HA configuration. |
| | email | Sends a test email with current email settings. |
| | | |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| | | |
| Usage Guidelines | This command should be run at the cmxa | dmin level. |
| Examples | The following example shows how to ena [cmxadmin@CMXHAPrimary ~]\$ cmxha c | |
| | Are you sure you wish to enable hid Please enter secondary IP address: Please enter the cmxadmin user pass Do you wish to use a virtual IP address Please enter the virtual IP address Please enter failover type [manual Please enter an email address(es) separate): email@cisco.com Attempting to configure high availa | 192.0.2.1 sword for secondary: dress? [y/N]: y s: 192.0.2.2 automatic]: automatic for notifications (Use space, comma or semicolon to |

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Configuring secondary server for HA Synchronizing Postgres data from primary to secondary Synchronizing Cassandra data from primary to secondary Syncing primary files to secondary Successfully started high availability. Primary is syncing with secondary.

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cmxha secondary

To convert the system to a secondary server and display Cisco CMX high availability (HA) information, use the **cmxha secondary** command.

cmxha secondary{ convert | info }

| Syntax Description | convert | Converts the system to a secondary server. |
|--------------------|---|---|
| | info | Displays CMX HA information. |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| Examples | server. If the current server is display the server status in or | arrent server is the primary server, this command will query the remote secondary s the secondary server, the local information is displayed. Use this command to rder to understand the remote status of the server. |
| • | [cmxadmin@CMXHAPrimary ~ | - |
| | State Last Updated Time Keepalived State Keepalived Updated Time Role Primary IP Address Secondary IP Address Use Virtual IP Address Virtual IP Address Failover Type Email Notify Address Primary MAC Address | : Thu Mar 30 21:58:25 2017 : SECONDARY : 192.0.2.1 : True : : Automatic Failover : |
| | SHA1 Key SHA2 Key | |
| | - | WLC Auth |

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| MAC Address | : |
|-------------------|------------------|
| SHA1 Key | : |
| SHA2 Key | : |
| Sys | tem Information |
| Total Memory | : 25.0 GB |
| Total Disk | : 156.0 GB |
| Number of CPUs | : 8 |
| Ver | sion Information |
| Redis Version | : 2.8.6 |
| Postgres Version | : 9.3.11 |
| Cassandra Version | : 2.1.13 |

cmxha events

To view Cisco CMX high availability (HA) events, use the cmxha events command.

cmxha events

- **Syntax Description** This command has no arguments or keywords.
- Command Default None
- **Command Modes** Admin root user

 Command History
 Release
 Modification

 Cisco CMX Release 10.3
 This command was introduced.

Usage Guidelines This command should be run at the cmxadmin level.

Examples

The following example shows how to view CMX HA events:

[cmxadmin@CMXHAPrimary ~]\$ cmxha events

| Time | State | Description |
|--|---|--|
| Fri Dec 2 01:15:02 2016 Fri Dec 2 01:15:17 2016 | Primary Configure Invoke Primary Syncing | d Attempting to initialize primary server Primary Syncing |
| Wed Dec 14 03:19:53 2016 Wed Dec 14 03:24:56 2016 | Primary Initialize Primary Syncing | Attempting to initialize primary server Primary Syncing |
| Wed Dec 14 03:24:36 2016 Wed Dec 14 03:34:38 2016 | Primary Active | Primary synchronizing with |
| secondary server Wed Dec 14 03:34:38 2016 | Primary Active | Successfully enabled high availability. |
| Primary is sync Wed Dec 14 04:00:02 2016 | Drimary Activo | Service check failed for master. Attempt |
| to restart ser | Filmary Accive | Service check failed for master. Attempt |
| Wed Dec 14 04:02:01 2016 agent restart | Primary Active | Service check succeeded for master after |
| Tue Dec 20 04:50:12 2016 | - | Attempting to disable high availability |
| Tue Dec 20 04:52:13 2016 | Primary Disable Invoked | Successfully disabled high availability. |

cmxha failover

To fail over to the secondary server, use the cmxha failover command.

cmxha failover

- **Syntax Description** This command has no arguments or keywords.
- **Command Default** None

Command Modes Admin root user

 Command History
 Release
 Modification

 Cisco CMX Release 10.3
 This command was introduced.

Usage Guidelines The command prompts for confirmation and then initiates the failover to the secondary server.

Examples The following example shows how to initiate the failover to the secondary server:

[cmxadmin@CMXHAPrimary ~]\$ cmxha failover

Are you sure you wish to failover to the secondary? [y/N]: y Starting failover from primary to secondary server: 192.0.2.250 Syncing primary files to secondary Configuring secondary server for Failover Configuring primary server for Failover Failover to secondary server has completed successfully

cmxha failback

To fail back to the primary server, use the cmxha failback command.

cmxha failback

- **Syntax Description** This command has no arguments or keywords.
- **Command Default** None

Command Modes Admin root user

 Command History
 Release
 Modification

 Cisco CMX Release 10.3
 This command was introduced.

Usage Guidelines The command prompts for confirmation and then initiates the failback to the primary server. We recommend that you run this command from the web UI. Note that this command requires a considerable amount of time for execution.

Examples The following example shows how to initiate the failback to the primary server:

[cmxadmin@CMXHAPrimary ~]\$ cmxha failback

cmxha primary

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To convert the system to a primary server and display CMX high availability (HA) information, use the **cmxha primary** command.

cmxha primary{ convert | info }

| Syntax Description | convert | Converts the system to a primary server. |
|--------------------|---|---|
| | info | Displays the CMX HA information. |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| Usage Guidelines | the primary server. If the current server. If the current server is | at the cmxadmin level. This command will retrieve the current information from ent server is a secondary server, this command will query the remote primary the primary server, the local information is displayed. Use this command to der to understand the remote status of the server. |
| Examples | The following example shows | s how to convert the system to a primary server: |
| | [cmxadmin@CMXHAPrimary ~] | <pre>\$ cmxha primary convert</pre> |
| | This command should be ru to convert the system to Starting all services. Th Started all services Successfully completed pr | is may take a while |

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cmxha diag

To collect Cisco CMX high availability (HA) diagnostic information, use the cmaxha diag command.

| | cmxha diag collect | | |
|--------------------|-------------------------|--|--|
| Syntax Description | collect | Collects logs and diagno | stic information from the primary and secondary servers. |
| Command Default | None | | |
| Command Modes | Admin root user | | |
| Command History | Release | | Modification |
| | Cisco CMX Release 10 | 0.3 | This command was introduced. |
| Usage Guidelines | This command should b | e run at the cmxadmin lev | el. |
| Examples | The following example s | shows how to collect CM2 | K HA diagnostic information: |
| | [cmxadmin@CMXHAPrima: | ry ~]\$ cmxha diag coll | ect |
| | Collected local diag | nostic files into file diags/cmx_ha_diag_192. | tic collection: collect : 0.2.1_2017-04-02.tar.gz |

cmxha filesync

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To synchronize files between the primary server and the secondary server, use the **cmxha filesync** command.

cmxha filesync replicate

| Syntax Description | replicate | Replicates files to the secondary server. |
|--------------------|------------------------|---|
| | | |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| | | |

Usage Guidelines This command should be run at the cmxadmin level. We recommend that you run this command with Cisco TAC assistance.

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cmxha init

To configure high availability (HA) at startup, use the cmxha init command.

| | cmxha init | |
|--------------------|--|------------------------------|
| Syntax Description | This command has no arguments or keywords. | |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| | | |

Usage Guidelines This command should be run at the cmxadmin level. We recommend that you run this command with Cisco TAC assistance.

cmxha logging

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To change or view the logging level of Cisco CMX high availability (HA), use the cmxha logging command.

cmxha logging {config { debug | info }| status }

| Syntax Description | config | Changes the logging level of CMX HA. |
|--------------------|---|--|
| | debug | Sets the logging level to debug. |
| | info | Sets the logging level to info. |
| | status | Shows the current logging level. |
| | | |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| | | |
| Usage Guidelines | This command should be run at the TAC assistance. | he cmxadmin level. We recommend that you run this command with Cisco |
| Examples | The following example shows how to view the CMX HA logging level: | |
| | [cmxadmin@CMXHAPrimary ~]\$ c | mxha logging config info |
| | Completed changing logging l | evel to info |

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cmxha splitbrain

To manage the Cisco CMX high availability (HA) split-brain scenario, use the cmxha splitbrain command.

cmxha splitbrain { info | use-primary | use-secondary }

| Syntax Description | info | Displays information about the CMX HA split-brain scenario. |
|--------------------|--------------------------------------|---|
| | use-primary | Uses the primary server in the split-brain scenario. |
| | use-secondary | Uses the secondary server in the split-brain scenario. |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| Usage Guidelines | This command should be run at th | ne cmxadmin level. |
| Examples | The following example shows ho | w to view CMX HA split-brain scenario information: |
| | [cmxadmin@CMXHAPrimary ~]\$ c | mxha splitbrain info |
| | System is not in split-brain | state currently |
| | | |

cmxha web

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To enable or disable the high availability (HA) web services, use the cmxha web command.

cmxha web { disable | enable | status }

| Syntax Description | disable | Disables the HA web service. |
|--------------------|--|---|
| | enable | Enables the HA web service. |
| | status | Shows the status of the HA web services. |
| | | |
| Command Default | None | |
| Command Modes | Admin root user | |
| Command History | Release | Modification |
| | Cisco CMX Release 10.3 | This command was introduced. |
| | | |
| Usage Guidelines | This command should be run at the TAC assistance. | e cmxadmin level. We recommend that you run this command with Cisco |
| Examples | The following example shows how | to view web service status: |
| | cmxadmin@CMXHAPrimary ~]\$ cmx | ha web status |
| | Web service enabled : Tr Web service running : Tr | |

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