

# **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.

#### cmxha info

Syntax Description	This command has no arguments or keywords.		
Command Default	None		
Command Modes	CMX admin 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 print Cisco CMX HA information:

[cmxadmin@cmx]# <b>cmxha in</b>	fo
Version	: 10.3.0-599
Current Server Time	: 10.3.0-599 : Fri Mar 24 02:31:31 2017
	: Primary Not Configured
State Description	: Primary has not been configured with a secondary
	: Mon Nov 7 13:42:39 2016
Keepalived State	: Stopped
	: Mon Nov 7 13:42:39 2016
Role	: PRIMARY
Primary IP Address	: 192.0.2.1
Secondary IP Address	:
Use Virtual IP Address	: True
Virtual IP Address	
Failover Type	: Automatic Failover
Email Notify Address	
Primary	WLC Auth
MAC Address	:
SHA1 Key	:
SHA2 Key	:
Secondary	WLC Auth
MAC Address	:
SHA1 Key	:
SHA2 Key	:
	nformation
Total Memory	: 25.0 GB
Total Disk	
Number of CPUs	
	Information
Redis Version	
Postgres Version	
Cassandra Version	: 2.1.13

# cmxha config

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

 $\label{eq:cmxha} config \{ disable \mid enable \mid modify \mid \{ \mathit{email failover} \} \mid test \mid \{ \mathit{email} \} \}$ 

yntax 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 <b>Manual</b> or <b>Automatic</b> .	
	test		Tests the CMX HA configuration.	
	email		Sends a test email with current email settings.	
Command Default	None.			
Command Modes	CMX admin user			
Command History	Release	Modification	_	
	Cisco CMX Relea	ase 10.3 This command was introduced	 1.	
Jsage Guidelines	This command sh	ould be run at the cmxadmin level.	_	
	Examples			
	The following example shows how to enable CMX HA:			
	Are you sure yo Please enter se Please enter th Do you wish to Please enter th Please enter fa Please enter an separate): emai Attempting to c	l@cisco.com configure high availability with mary server for HA	condary: y automatic cions (Use space, comma or semicolon to	
	Configuring secondary server for HA Synchronizing Postgres data from primary to secondary			
	Synchronizing Postgres data from primary to secondary Synchronizing Cassandra data from primary to secondary			
	Synchronizing cusseneric duct from primary to secondary Syncing primary files to secondary Successfully started high availability. Primary is syncing with secondary.			

### 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	convertConverts the system to a secondary server.infoDisplays CMX HA information.		
Command Default	None		
Command Modes	CMX admin user		
Command History	Release Modification		
	Cisco CM	AX Release 10.3	This command was introduced.

Usage Guidelines This command should be run at the cmxadmin level. This command will retrieve the current information from the secondary server. If the current server is the primary server, this command will query the remote secondary server. If the current server is the secondary server, the local information is displayed. Use this command to display the server status in order to understand the remote status of the server.

#### **Examples**

The following example shows how to view secondary server information:

```
[cmxadmin@cmx] # cmxha secondary info
                : 10.3.0-600
Version
Current Server Time: Sun Apr 2 23:21:07 2017State: Secondary Not ConfiguredState Description: Secondary has not been configured with a primary
State Last Updated Time : Thu Mar 30 21:58:25 2017
Keepalived State : Stopped
Keepalived Updated Time : Thu Mar 30 21:58:25 2017
                     : SECONDARY
Role
Primary IP Address
Secondary IP Address : 192.0.2.1
Use Virtual IP Address : True
Virtual IP Address :
Email Notify Address :
----- Primary WLC Auth ------
MAC Address
                      :
SHA1 Kev
                      :
SHA2 Kev
                      :
----- Secondary WLC Auth ------
MAC Address
SHA1 Key
                       :
SHA2 Key
                      :
----- System Information -----
Total Memory : 25.0 GB
```

Total Disk Number of CPUs	: 156.0 GB : 8
Version	Information
Redis Version	: 2.8.6
Postgres Version	: 9.3.11
Cassandra Version	: 2.1.13

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Successfully enabled high availability.

Service check failed for master. Attempt

Service check succeeded for master after

### cmxha events

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

Tue Dec 20 04:50:12 2016 Primary Disable Invoked Attempting to disable high availability Tue Dec 20 04:52:13 2016 Primary Disable Invoked Successfully disabled high availability.

cmxha events This command has no arguments or keywords. Syntax Description None **Command Default** CMX admin user **Command Modes Command History** Release Modification Cisco CMX Release 10.3 This command was introduced. This command should be run at the cmxadmin level. **Usage Guidelines** Example The following example shows how to view CMX HA events: [cmxadmin@cmx] # cmxha events Time State Description \_\_\_\_\_ \_\_\_\_\_ Fri Dec 2 01:15:02 2016 Primary Configure Invoked Attempting to initialize primary server Fri Dec 2 01:15:17 2016 Primary Syncing Primary Syncing Wed Dec 14 03:19:53 2016 Primary Initialize Attempting to initialize primary server Wed Dec 14 03:24:56 2016 Primary Syncing Primary Syncing Wed Dec 14 03:34:38 2016 Primary Active Primary is actively synchronizing with secondary server

Wed Dec 14 03:34:38 2016 Primary Active

Wed Dec 14 04:00:02 2016 Primary Active

Wed Dec 14 04:02:01 2016 Primary Active

Primary is sync

to restart ser

agent restart

## cmxha failover

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

	cmxha failover			
Syntax Description	This command has no arg	This command has no arguments or keywords.		
Command Default	None			
Command Modes	CMX admin user			
Command History	Release	Modification	-	
	Cisco CMX Release 10.3	This command was introduced.	-	
Usage Guidelines	The command prompts for	or confirmation and then initiates	s the failover to the secondary server.	
	Example			
	The following example shows how to initiate the failover to the secondary server:			
		to failover to the seconda m primary to secondary serv		

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	CMX admin user		
Command History	Release	Modification	
	Cisco CMX Release 10.3	This command was introduced.	
Usage Guidelines			the failback to the primary server. We recommend s command requires a considerable amount of time
	Example		
	The following example s	hows how to initiate the failback	to the primary server:
	Starting to failback	failback to failback to the primary to primary server from seco ze data from secondary to p	ndary server: 192.0.2.250
			•••••••••••••••••••••••••••••••••••••••

Completed synchronization of data from secondary to primary server Starting to synchronize data from primary to secondary server

Completed failback to primary server

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### cmxha primary

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	<b>convert</b> Converts the system to a primary server.		
	info Displays the CM	IX HA information.	
Command Default	None		
Command Modes	CMX admin 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. This command will retrieve the current information from the primary server. If the current server is a secondary server, this command will query the remote primary server. If the current server is the primary server, the local information is displayed. Use this command to display the server status in order to understand the remote status of the server.

#### Example

The following example shows how to convert the system to a primary server:

```
[cmxadmin@cmx]# cmxha primary convert
This command should be run when HA is disabled and not configured. Are you sure you wish
to convert the system to a primary? [y/N]: y
Starting all services. This may take a while..
Started all services
Successfully completed primary convert
```

# cmxha diag

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

cmxha diag collect

Syntax Description	<b>collect</b> Collects logs and diagnostic information from the primary and secondary servers.			
Command Default	None			
Command Modes	CMX admin user	r		
Command History	Release	Modification	_	
	Cisco CMX Rele	ease 10.3 This command was introduced		
Usage Guidelines	This command should be run at the cmxadmin level.			
	Example			
	The following example shows how to collect CMX HA diagnostic information:			
	Please enter a	<pre># cmxha diag collect   description for the diagnostic c   diagnostic files into file.</pre>	ollection: collect	

Collected local diagnostic files into file: /opt/cmx/srv/cmx-ha-diags/cmx\_ha\_diag\_192.0.2.1\_2017-04-02.tar.gz [cmxadmin@CMX-LowEnd-2 ~]\$

# cmxha filesync

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

	cmxha filesync replicate	
Syntax Description	replicate Replica	tes files to the secondary server.
Command Default	None	
Command Modes	CMX admin user	
Command History	Release	Modification
	Cisco CMX Relea	se 10.3 This command was introduced
Usage Guidelines	This command she	ould be run at the cmxadmin level. We

TAC assistance.

# 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	CMX admin user		
Command History	Release	Modification	
	Cisco CMX Release 10.3	This command was introduced.	
Usage Guidelines	This command should be TAC assistance.	run at the cmxadmin level. We r	ecommend that you run this command with Ca

**Cisco CMX High Availability Commands** 

# cmxha logging

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

	cmxha logging	{config { debug   info }   sta	tus }
Syntax Description	config Changes t	he logging level of CMX HA.	
	debug Sets the lo	ogging level to debug.	
	info Sets the lo	ogging level to info.	
	status Shows the	e current logging level.	
Command Default	None		
Command Modes	CMX admin user		
Command History	Release	Modification	
	Cisco CMX Rele	ase 10.3 This command was int	roduced.
Usage Guidelines	This command sh TAC assistance.	ould be run at the cmxadmin le	evel. We recommend that you run this command with Cisco
	Examples		
	The following exa	ample shows how to view the C	CMX HA logging level:

[cmxadmin@cmx]# cmxha logging config info

Completed changing logging level to info

# cmxha splitbrain

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

Syntax Description	info	Displays information about the CMX HA split-brain scenario					
	use-primary	<b>ry</b> Uses the primary server in the split-brain scenario.					
	use-secondary	<b>ary</b> Uses the secondary server in the split-brain scenario.					
Command Default	None						
Command Modes	CMX admin user						
Command History	Release	Modification					
	Cisco CMV Pa	lease 10.3 This command was introduced.					

### Examples

The following example shows how to view CMX HA split-brain scenario information:

[cmxadmin@cmx]# cmxha splitbrain info
System is not in split-brain state currently

## cmxha web

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

	cmxha { disab	web le   enable   stat	us }				
Syntax Description	<b>disable</b> Disables the HA web service.						
	enable Enables the HA web service.						
	status	status Shows the status of the HA web services.					
Command Default	None						
Command Modes	CMX a	dmin user					
Command History	Releas	6	Modification				
	Cisco (	CMX Release 10.3	This command was introduced.				
Usage Guidelines	This co	mmand should be	run at the cmxadmin level. We				

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

### Examples

The following example shows how to view web service status:

CMX	admin@cmz	<]#	cmxha	web	st	tatus
Web	service	ena	abled		:	True
Web	service	rur	nning		:	True

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