

Cloudpath

Enrollment System

Command Reference

Software Release 4.3

April 2016

Summary: This document describes the command line interface commands available for Cloudpath ES from the VMware client console or an SSH login, and the specifications for logging into the command line interface. Each command table provides a description, parameters, if needed, and an example command.

Document Type: Reference

Audience: Network Administrator



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Cloudpath ES Command Reference

Overview

This document describes the commands that are available to manage Cloudpath ES.

After the initial setup, an administrator can log into the system using SSH on port 8022 and use the command line interface to execute Cloudpath ES service commands.

Note >>

You need a service password to access the command line interface. The service password is set during the initial configuration of the system.

The following sections describe the command, syntax, parameter, and provides examples for using the Cloudpath ES command line interface.

Cloudpath ES Commands

You can access the Cloudpath ES command line interface using SSH on port 8022 or 22. Log in to the service account (*cpn_service*) and enter the service password.

Tip >>

The default SSH port number is 8022, but can be changed to port 22 on the Cloudpath ES *Administration > System > System Services* page.

After a successful login to the service account, the command-line configuration utility prompt (#) displays. Enter ? to view the list of available commands.

Tip >>

From the command-line configuration utility, enter the **console** command to access the Linux shell. From the Linux shell, enter the **config** command to access the command-line configuration utility.

Command List

config commands

console command

diag commands

maintenance commands
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config commands

The **config** commands allow you to change the configuration of the system.

TABLE 1. **config** commands

Command	Description	Parameters and Examples
config	From the Linux shell, this command provides access to the command line configuration utility.	No parameters. <code>[<serviceacctlogin@<fqdnhost name>]\$ config</code>
config admin allow-access	Clears restrictions to the administrative functionality so that an administrator can access the ES Admin UI from any IP address.	No parameters. <code>config admin allow-access</code>
config admin restrict-access	Restricts which IP addresses have administrative access to the ES Admin UI.	[Comma separated list of IP addresses/CIDR] <code>config admin restrict-access 172.16.4.20, 172.16.5.18</code> or <code>config admin restrict-access 172.16.4.20/24</code>
config allow-apache-ssl3	Permits SSLv3 protocol on https connections.	[<i>true</i> to permit SSLv3, <i>false</i> to permit SSLv3] <code>config allow-apache-ssl3 true</code>
config bootpassword	Enables or disables the boot password upon startup.	No parameters. <code>config bootpassword enable</code> <code>config bootpassword disable</code>
config clear-apache-servername	Clears a changed apache server name and reverts it back to the FQDN.	No parameters. <code>config clear-apache-servername</code>

TABLE 1. **config commands**

Command	Description	Parameters and Examples
config clear-proxy	Clears the proxy server setting.	No parameters. <code>config clear-proxy</code>
config hostname	Sets the hostname.	[System's network name] <code>config hostname companyA.local</code>
config hostname-restricted	If enabled, requests that do not match the hostname receive an HTTP 404 error.	[<i>true</i> to enable, <i>false</i> to disable.] <code>config hostname-restricted true</code>
config https	Sets whether the Apache server should be run as HTTP or HTTPS.	[<i>enabled</i> to enable HTTPS, <i>disabled</i> to run HTTP] <code>config https enabled</code>
config network DHCP	Configures whether you want DHCP to assign network IP addresses.	[<i>true</i> to use DHCP, <i>false</i> to use STATIC IP addresses] <code>config network DHCP true</code> This command causes the system to toggle the eth0 and loopback interfaces.
config network restart	Restarts the network after making configuration changes to DHCP settings.	No parameters. <code>config network restart</code>
config network STATIC dns	Configures the STATIC IP addresses for the DNS server.	[IP address of the DNS server] <code>config network STATIC dns 172.16.4.202</code>
config network STATIC gateway	Configures the STATIC IP addresses for the gateway.	[IP address of the gateway] <code>config network STATIC gateway 172.16.4.1</code>
config network STATIC ip-netmask	Configures the STATIC IP addresses for the system's eth0 interface and subnet mask.	[IP address and subnet mask for the eth0 interface] <code>config network STATIC ip-netmask 172.16.6.35 255.255.252.0</code>
config ntp	Sets the NTP server	[IP address of the NTP server] <code>config ntp 172.16.2.106</code>
config ntp-sync-now	Forces an ntpdate to the configured NTP server.	No parameters. <code>config ntp-sync-now</code>

TABLE 1. **config commands**

Command	Description	Parameters and Examples
config proxy	Sets the HTTP proxy. Requires a reboot. The [proxy-bypass-hosts] parameter (optional) is a comma-separated list of hosts that should bypass the proxy.	[HTTP hostname] [HTTP port] [HTTPS hostname] [HTTPS port] [proxy-bypass-hosts] <code>config proxy hostA 8080 hostB 443 hostC,hostD</code>
config set-apache-servername	Set the apache server name in the httpd.conf file. This is typically used when operating behind a load balancer.	[Apache Server Name] <code>config set-apache-servername test22.company.net</code>
config ssh	Enables or disables SSH access.	[true to enable, false to disable.] <code>config ssh true</code>
config timezone	Sets the timezone to be used.	[Zone name] This command displays a list of acceptable timezones. When prompted, enter the desired timezone as shown. For example, for Mountain Standard time, enter MST , and for Mountain Daylight time, enter MST7MDT . <code>config timezone</code> Enter the timezone you would like to use: MST

console command

TABLE 2. **console command**

Command	Description
console	Provides access to the Linux shell (command line).

diag commands

The **diag** commands provide diagnostic tests for network connectivity.

TABLE 3. **diag commands**

Command	Description	Parameters and Examples
diag arp-table	Displays arp table.	No parameters. <code>diag arp-table</code>
diag dns-lookup	Performs a DNS lookup.	[IP address of the host to resolve] <code>diag dns-lookup 172.16.4.64</code>
diag interfaces	Displays network interfaces.	No parameters. <code>diag interfaces</code>
diag ping	Sends ICMP IPv4 messages to network hosts.	[IP address of the host] <code>diag ping 172.16.2.1</code>
diag routing-table	Displays routing table.	No parameters. <code>diag routing-table</code>
diag rpm-version	Displays the current version for the rpms.	No parameters. <code>diag rpm-version</code>
diag schema-version	Displays the status of database updates	No parameters. <code>diag schema-version</code>

maintenance commands

The **maintenance** commands import or export the Cloudpath ES database.

TABLE 4. **maintenance commands**

Command	Description	Parameters and Examples
maintenance export-database	Dumps the Cloudpath ES database in to a zipped tar.gz file and transfers it using SCP to a remote server.	[IP address or hostname of the remote server] [Port number] [Remote username] [Path to file location on the remote system] <code>maintenance export-database 172.16.4.20 22 username /home/db/file</code>
maintenance import-database	Allows you to copy the database file from a remote Cloudpath ES to overwrite the database on a new system. The new system must have the same network settings as the old system, from which the database was exported. The ES uses the SSH port configured in the new system to transfer the database files.	[IP address or hostname of the remote server] <code>maintenance import-database 172.16.4.20</code>
maintenance restore-backup	Copies the database backup file, using SCP, overwriting the existing database.	[IP address or hostname of the remote server] [Remote port number] [Remote username] [Path to the remote system to place the backup file] <code>maintenance restore-backup 172.16.4.20 22 username /home/db/file</code>
maintenance scheduled-backup mount remove	Removes the previously set up cron job for copying the system database to a remote server via mounted (CIFS) drive.	No parameters. <code>maintenance scheduled-backup mount remove</code>

TABLE 4. maintenance commands

Command	Description	Parameters and Examples
maintenance scheduled-backup mount setup	Sets up a cron job to copy the system database via mounted (CIFS) drive to a remote server.	[Username for the remote drive] [Password for the remote drive] [Path to mount] [Path within the mount to the backup directory] [Type of drive, like cifs] <code>maintenance scheduled-backup mount setup username password path/to/mount mount/backupdir cifs</code>
maintenance scheduled-backup scp remove	Removes the previously set up cron job for copying the system database to a remote server via SCP.	No parameters. <code>maintenance scheduled-backup scp remove</code>
maintenance scheduled-backup scp setup	Sets up a cron job to copy the system database via SCP to a remote server. The [pattern for the cron schedule] parameter uses traditional cron format, consisting of 5 fields; <Minute><Hour><Day_of_the_Month><Month_of_the_Year><Day_of_the_Week>.	[IP address or hostname of the remote server] [Remote port number] [Remote username] [Path to the remote system to place the backup file] [Pattern for the cron schedule] <code>maintenance scheduled-backup scp setup 172.16.4.20 22 username /path/to /file 0 0 * * 3</code> (Note the space between minute, hour, day, month schedule parameters.) For more information about cron schedule parameters, refer to Linux documentation.

replication commands

The replication commands are designed for members of the support team to use for troubleshooting. Customers would typically not be required to run these commands unless requested by the support team.

Note >>

In most cases, gathering log data through the ES Admin UI, *Collect Replication Logs* button, is sufficient for troubleshooting purposes.

TABLE 5. replication commands

Command	Description	Parameters and Examples
replication force-cleanup	Forces the removal of the replication setup.	No parameters. <code>replication force-cleanup</code>
replication replicator	Perform an operation on the replication server.	[start][stop][restart][status][offline][online] <code>replication replicator restart</code> or <code>replication replicator status</code>
replication show-cluster	Displays the state of the cluster.	No parameters. <code>replication show-cluster</code>
replication show-log	Show log.	No parameters. <code>replication show-log</code>
replication trepctl	Performs an operation on a service (ex. alpha, bravo, charlie).	[FQDN of the server node][service name][status/online/offline] <code>replication trepctl</code> <code>test23.company.net alpha status</code> or <code>replication trepctl</code> <code>test23.company.net bravo</code> <code>offline</code>
replication validate-cluster	Displays whether replication can be set up on this server. Note: This command should only be used before replication is set up.	No parameters. <code>replication validate-cluster</code>

show commands

The **show** commands display the current configuration.

TABLE 6. **show commands**

Command	Description
show config	Shows currently operating configuration.
show date	Shows current date.
show logs	Shows application and server logs.
show logs apache-access	Shows contents of Apache server access logs.
show logs apache-error	Shows contents of Apache server error logs.
show logs application	Shows contents of JBoss logs.
show logs config	Shows contents of config log.
show proxy	Shows HTTP proxy information.
show timezone	Shows currently configured timezone.

support commands

The **support** commands enable or disable the support tunnel.

TABLE 7. **support commands**

Command	Description
support activate-ui-recovery	Activates a temporary password to allow you to log into the ES Admin UI. This command requires the <i>service</i> password. The recovery user credentials are only valid for 5 minutes.
support apply-patches	Applies patches for the current version. The system will reboot.
support benchmark	Perform CPU and disk IO tests.
support clean-disk	The ES runs a clean-disk script on a schedule. This command allows an administrator to clean up the <i>jboss.log</i> manually.
support db	Allows you to log into the database. The password for this command is only available to support staff.
support disable-support-tunnel-access	Stops support tunnel.

TABLE 7. **support commands**

Command	Description
support enable-support-tunnel-access	Starts support tunnel on port 8022.
support reset-schema-version	Sets the database schema version to 1.
support restore-https-certificate	Resets HTTPS to self-signed certificate.
support restore-https-ciphers-and-protocols	Resets https to default SSL ciphers and protocol.
support shrink-database	Moves application data to the database partition.
support view-schema-version	Lists the status of the database schema version.

system commands

The **system** commands control system operations

Note >>

If the boot password requirement has been set, you must enter a password to complete these commands.

TABLE 8. **system commands**

Command	Description
system reboot	Reboots system.
system restart	Restarts the JBoss and Apache servers.
system shutdown	Shuts down the system. This command requires VMware access to boot the system.

Recovery

If you are locked out of the ES Admin UI, you can log in via SSH and use the **activate-ui-recovery** command from the service account. This activates a temporary password for a short time period to allow you to log into the ES Admin UI and set up a new Administrator account, or reset a password for an existing account.

If you are locked out of the service account, you can log in via SSH to a *Recovery* account.

Note >>

You must contact Cloudpath Networks *Support* to obtain a recovery password.

To receive a recovery password for the service account, you must provide the *System Identifier* and current *Version* on your system.

How To Find Your System Identifier

1. Log into the ES Admin UI.
2. Go to *Administration > Advanced > Admin Console Link*.
3. The *System Identifier* is listed on the *Administrative Console Linkage* page.

FIGURE 1. System Identifier

The screenshot shows the 'Administrative Console Linkage' page. It displays the following information:

- Server: `https://bvt.cloudpath.net`
- Link Established: `Yes since 01/08/2014 1038`
- System Identifier: `{000000-6E048D52-1A79-5252-DEF5-C53B22F45969-DEA24B60-19EF-2DBA-FF10}` (highlighted in a red box)
- Link State: `Connected` with a `refresh` button.

Below this information is a table titled 'Networks' with the following data:

Status	Server	Network
	Enrollment System	BVT ES With TLS
	Test Wizard Only	BVT Wizard with TLS
	Test Wizard Only	Wizard Only With PEAP

How To Find Your Current ES Version

1. Go to *Administration > System > System Services > Application* component.
2. The current build is listed in the *Version* field.

FIGURE 2. Current ES Version

Component:	Application	
<p>Status: Running Version: 3.0.1833</p>		
<p>iOS Certificate Public Key: Missing Private Key: Missing Chain: Missing</p>		
<p>Log Level: Normal <input type="button" value="Debug"/></p>		
<p>Downloads: <input type="button" value="Log"/> <input type="button" value="Backup"/></p>		
Component:	Web Server	   
Component:	RADIUS Server	 
Component:	Network	
Component:	SSH	
Component:	Support Tunnel	
Component:	Outbound Email	
Component:	Outbound SMS	
Component:	Logs	 
Component:	Replication	 

Additional Documentation

You can find detailed information in the Cloudpath ES configuration guides, located on the left-menu *Support* tab of the ES Admin UI.

About Cloudpath

Cloudpath Networks, Inc. provides software solutions and services that simplify the adoption of standards-based security, including WPA2-Enterprise and 802.1X, in diverse BYOD environments. Our goal is to make secure as simple as insecure; simple for network administrators to deploy and simple for users to access.

To learn more about the Cloudpath ES and how it can simplify your wireless environment, visit www.cloudpath.net or contact a Cloudpath representative.

If you need technical assistance, discover a bug, or have other technical questions, email support at support@cloudpath.net.

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