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# Gemini Central Command Reference

Version 3.0

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## CLI Commands

**Gemini Central** (formerly Manage), supports a series of shell commands that can be executed locally from a terminal.

Authentication using one of two built-in User accounts (see [Default Passwords for CLI Operations](#) for details) is required in order to use these commands over SSH.

We recommend that you use the **'sbox'** OS user account for the majority of the commands listed here. For **Splunk** specific issues, you should use the **'splunk'** OS user account.

Once authenticated, simply type **'sbox'** at the command prompt for an overview of the **top-level** commands available in Manage as shown below.

```
sbox
```

### Usage: sbox [OPTIONS] [COMMAND]

#### [OPTIONS]

--version	Show Gemini Central version.
--service-tag	Display service tag of server.
--model	Display model name of server.

#### [COMMAND]

help	Display help for each command.
admin	Configure Gemini Central.
agent	Manage Gemini Agent.
config	Configure appliance.
diag	Generate diag information.
license	Manage Gemini Central licenses.
network	Setup for specific network interface.
server	Manage appliance server to reboot or shutdown.
service	Control services.
splunk	Manage Splunk deployed on the current node.
system	Display system information and patch.

### The help Command

To display more detail regarding the top-level commands use the **'help'** command;

```
sbox help
```

### Usage: sbox admin [OPTIONS]

[OPTIONS]

- `--reset-password`      Reset password of web UI admin user.
- `-set-password`        Set password for web UI admin user.
- `--gen-ssl`            Regenerate SSL keys for web server.
- `--installed-packages` Display installed packages in web server.
- `--skip-wizard`        Skip the setup wizard on access.
- `--restart`            Restart sbox-admin service.

### Usage: sbox agent [OPTIONS]

[OPTIONS]

- `--download-link`      Enable Agent distribution and display the download URI.

### Usage: sbox config [OPTIONS]

[OPTIONS]

- `--accept-eula`        To accept End User License Agreement.
- `-hostname`            Set hostname.
- `-timezone`            Set system timezone.
- `--trial-license`      Start trial license for web admin.
- `-license-file`        Import license file.  
Argument: <path\_to\_license\_file>
- `-license-server`      Indicate remote license server.  
Argument: <server\_host>:<token\_string>

### Usage: sbox diag [OPTIONS]

[OPTIONS]

- `--generate`          Generate diagnostics zip file.

### Usage: sbox license [OPTIONS]

[OPTIONS]

- `--trial-license`      Grant trial license for Gemini Central.
- `--revoke-trial`        Revoke trial license.
- `-license-file`        Import license file.  
Argument: <path\_to\_license\_file>
- `-license-server`      Indicate remote license server.  
Argument: <server\_host>:<token\_string>

**Usage: sbox network [OPTIONS]**

## [OPTIONS]

--reset	Reset all network interfaces to their default value.
-nic	Setup specific network interface, required for the options below
--disable	Disable specific NIC, when given it ignores --dhcp, -ip, -netmask and -gateway options.
--dhcp	Config the specific NIC as DHCP.
-ip	Set IP address for specific NIC.
-netmask	Set subnet mask for specific NIC, required when set IP address.
-gateway	Set gateway on specific NIC. (optional param)

**Usage: sbox service [OPTIONS]**

## [OPTIONS]

--reboot	Reboot server.
--shutdown	Shutdown server.

**Usage: sbox service [OPTIONS]**

## [OPTIONS]

--status	Display status of services.
--listen-port	Display the listening ports of services.
--restart	Restart all services.

**Usage: sbox splunk [OPTIONS]**

## [OPTIONS]

--kill	Remove Splunk instance.
--reset_environments	Clean up Splunk environment settings.
--backup_setting <file>	Backup Splunk settings.
--restore_setting <file>	Restore Splunk settings.

**Usage: sbox system [OPTIONS]**

## [OPTIONS]

--info	Display system information.
-patch <file_path>	Apply patch file with <file_path>.

---

## Commands for initial setup

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### The network Command

The '**sbox network**' command allows you to complete the basic network settings, including both DHCP and static network settings.

We recommend that you create a permanent static IP address for Gemini Central.

If necessary, identify the name of the device network interface using the following command at the terminal:

```
ip a
```

Output from this command is shown below to reveal in this case; an **interface name** of 'nic0', and current **ip address** of **192.168.1.100**.

```
[sbox@sboxnode1 ~]$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: nic0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP qlen 1000
    link/ether 08:00:27:9e:96:c0 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.100/24 brd 192.168.1.255 scope global dynamic nic0
        valid_lft 68091sec preferred_lft 68091sec
```

If you wish to configure or change the **static network** settings, use the following command;

```
sbox network -nic <network_interface_name> -ip <ip_address>
-netmask <netmask> -gateway <gateway_ip>
```

An example of setting the Network Interface 'nic0' to create a static ip address is shown below;

```
sbox network -nic nic0 -ip 192.168.1.100 -netmask 255.255.255.0
-gateway 192.168.1.1
```

Alternatively, if you wish to configure the network interface to use **DHCP** use the following command;

```
sbox network -nic <network_interface_name> --dhcp
```

For security reasons, consider omitting the **-gateway** param for a host-only IP address that has no access to the Public environment.

A summary of the '**network**' command and options is given below, and can be shown at the terminal at any time by typing '**sbox network**'.

#### Usage: sbox network [OPTIONS]

##### [OPTIONS]

--reset	Reset all network interfaces to default value.
-nic	Setup specific network interface, required for below options.

<code>--disable</code>	Disable specific NIC, when given it ignores <code>--dhcp</code> , <code>-ip</code> , <code>-netmask</code> and <code>-gateway</code> options.
<code>--dhcp</code>	Config a specific NIC for DHCP, ie. <code>sbox network -nic eth0 --dhcp</code>
<code>-ip</code>	Set IP address for specific NIC.
<code>-netmask</code>	Set subnet mask for specific NIC, required when set IP address.
<code>-gateway</code>	Set gateway on specific NIC. (optional param).

## The config Command

Together with the **'network'** command, the **'config'** command provides additional configuration at deployment, such as setting the instance hostname and timezone. This would normally be set up in the **Manage UI**, but this offers an alternative.

It can also be used to apply a Licence file, and set a Licence Server.

A summary of the **'config'** command and options is given below, and can be shown at the terminal at any time by typing **'sbox config'**.

<b>Usage: sbox config [OPTIONS]</b>	
[OPTIONS]	
<code>--accept-eula</code>	To accept End User License Agreement.
<code>-hostname</code>	Set hostname.
<code>-timezone</code>	Set system timezone.
<code>--trial-license</code>	Grant trial license for Gemini Central.
<code>--revoke-trial</code>	Revoke trial license.
<code>-license-file</code>	Import license file. Argument: <path_to_license_file>
<code>-license-server</code>	Indicate remote license server. Argument: <server_host>:<token_string>

### Note

Note that the license file has to be uploaded to the instance before it can be applied.

## The admin Command (setup options)

This command can be used to control **Manage web interface** administration. This includes resetting a custom installed SSL certificate or disabling the web-based setup wizard when all settings have been applied using the CLI.

A summary of the **'admin'** command and options is given below, and can be shown at the terminal at any time by typing **'sbox admin'**.

**Usage: sbox admin [OPTIONS]**

[OPTIONS]

<code>--reset-password</code>	Reset password of web admin user.
<code>-set-password</code>	Set password for web admin user.
<code>--gen-ssl</code>	Regenerate SSL keys for web server.
<code>--installed-packages</code>	Display installed packages in the web server.
<code>--skip-wizard</code>	Skip the setup wizard on access.
<code>--restart</code>	Restart the sbox-admin service.

**Note**

Use these commands with caution as some may restart the web UI.

## The agent Command - Management Center Node

**Gemini Agents** are a new feature of Manage available from Version 2.7 and above. For more details, refer to the separate **'Gemini Central - Gemini Agents Quick Start Guide'**.

The ability to distribute **Gemini Agents** to remote Splunk instances for integration into a **Management Center** is disabled by default.

To enable the **Gemini Agent distribution** feature and receive confirmation of the download URI;

Login at the terminal interface of your **Management Center** instance using the **'sbox'** account, and type the following command;

```
sbox agent --download-link
```

This will return the **download URI** link which can be used at any remote instance. Be sure to copy this for easy reference.

```
[sbox@gemini-1c8d22 ~]$ sbox agent --download-link
https://10.2.x.x:4444/download/agent/gemini-agent-20.06-15.tar.gz
```

Alternatively, please obtain the latest **Gemini Agent** binary from [support@gemini.com](mailto:support@gemini.com)



## The agent Command - Splunk Host Node

Please refer to the **Gemini Central - Gemini Agents Quick Start Guide** for more details on the following commands, if required.

*The following 'agent' commands are relevant to the **remote** Splunk host running the **Gemini Agent** binary and these should be run from a Terminal session local to the Splunk installation.*

### agent stop/start

If you need to stop or start the agent manually, use the following commands;

```
sudo /opt/gemini/agent/bin/agent stop
sudo /opt/gemini/agent/bin/agent start
```

The above process is also applicable to host machines without Splunk already installed. Splunk will be installed with the attributes specified during the Gemini Agent configuration.

### agent status

If at any time you want to verify whether the **Gemini Agent** service is active, use the following command;

```
sudo /opt/gemini/agent/bin/agent status
```

A typical response from this command would be the following message

```
+ Gemini Agent is running.
```

### agent --version

If at any time you wish to know which **Gemini Agent** version is active on this instance, run the following command to return the date of the Agent release. Note, that this does not require privileged access to run;

```
/opt/gemini/agent/bin/agent --version
```

The output will return the date and version of the Agent in the format: **<YY>.<MM>-<Version>**

## agent restart

If you wish to restart the existing Gemini Agent service, run the following command;

```
sudo /opt/gemini/agent/bin/agent restart
```

## agent configure

If you wish to go through the initial Gemini Agent configuration script again, for instance if the local Splunk admin password has been changed, run the following command;

```
sudo /opt/gemini/agent/bin/agent configure
```

## agent uninstall

If for any reason you need to uninstall the **Gemini Agent** use the following command. Note that in order to upgrade the Gemini Agent it is first required that the existing Gemini Agent is first uninstalled.

```
sudo /opt/gemini/agent/bin/agent uninstall
```

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# Commands for Information Gathering

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## The version Operator

Used with the sbox command, this operator will display the currently installed version of Gemini Central;

```
sbox --version
```

## The model Operator

Used with the sbox command, this operator will acquire the model of this appliance;

```
sbox --model
```

On virtualized environments or on public clouds, the returned string represents the Hypervisor type (ie. vmware) or on Amazon EC2, "HVM domU" will be returned.

## The service-tag Operator

Used with the `sbox` command, this operator returns the unique service tag of the appliance. This could be useful during a Support issue, and Customer Support may ask for this value when contacted.

```
sbox --service-tag
```

### Notes

Please ensure you include all these details, when opening a Customer Support Request.

This information is automatically included within the **Diagnostic Report** created using the Manage web UI.

## The admin Command (installed-packages operator)

The `'admin'` command can be used with the `'--installed-packages'` operator to produce a list of installed packages and their versions. This could be useful for audit purposes.

Use the command with the `'--installed-packages'` operator as shown below;

```
sbox admin --installed-packages
```

The screen below shows a typical output from this command;

```
[sbox@gemini-0800277c2740 ~]$ sbox admin --installed-packages
-----
Installed package
-----
sbox-core-2.2-126.x86_64
sbox-uno-2.2-62.x86_64
sbox-hadoop-2.2-228.x86_64
sbox-driver-2.2-21.x86_64
sbox-pepsi-2.2-27.x86_64
sbox-admin-2.2-116.x86_64
sbox-license-2.2-50.x86_64
sbox-console-2.2-63.x86_64
sbox-splmgr-2.2-64.x86_64
sbox-os-2.2-68.x86_64
sbox-failover-2.2-29.x86_64
sbox-solution-2.2-124.x86_64
sbox-theme-2.2-29.x86_64
```

## The service Command (status operator)

The `'service'` command can be used with the `'status'` operator to obtain the status of Gemini components.

Use the command with the `'status'` operator as shown below;

```
sbox service --status
```

The screen below shows a typical output from this command;

```
[[sbox@gemini ~]$ sbox service --status
=====
Service                Status  Boot-start
-----
sbox-pepsi             True    True
gemini-intcenter-client True    True
gemini-deployment-manager True    True
gemini-deployment-client True    True
sbox-hadoop            True    True
sbox-core              True    True
sbox-admin             True    True
=====
```

### The service Command (listen-port operator)

This administrative command operator could be used to find exposed network ports. Exposed ports would normally include the Web UI TCP port exposed to the connected network. To obtain a full list of the open ports and their exposure, run the '--listen-port' operator as shown below;

```
sbox service --listen-port
```

The screen below shows a typical output from this command;

```
[[sbox@gemini ~]$ sbox service --listen-port
=====
Process                Port    Host
-----
Admin Web              443     *
Admin API              4444    *
Hadoop Manager API    8797    *
Core API               8686    127.0.0.1
Deployment Client      8888    *
Deployment Manager     8889    *
PEPSI                  9321    *
Integration Center Client 59000   127.0.0.1
=====
```

#### Notes

The wildcard '\*' character means that the related network port is open on **all** active network interfaces.

If '127.0.0.1' is shown in the Host column, it means that the port is not exposed to any externally connected network and will allow only 'Host' based communication.

### The system Command (info operator)

The '**system**' command can be used with the '--info' operator to display hardware and software information. This is useful for collecting system information.

Use the command with the '--info' operator as shown below;

```
sbox system --info
```

The screen below shows a typical output from this command;

```
[sbox@gemini-0f2fd9 ~]$ sbox system --info
java_home      /usr/lib/jvm/jre/
memory_usage
  total        3079756
  cache        734144
  used         1031596
  free         1308720
  buffers      5296

virt_what      vmware
java_version   java version "1.8.0_192"
Java(TM) SE Runtime Environment (build 1.8.0_192-b12)
Java HotSpot(TM) 64-Bit Server VM (build 25.192-b12, mixed mode)

boot_id        a130a300-86d1-4e64-9c9a-ff250e9f4c82
java_directory /usr/lib/jdk1.8.0_192
open_ports
  22
  111
  323
  443
  760
  768
  2534
  4444
```

---

## Commands for Troubleshooting

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### The admin Command (Troubleshooting)

A summary of the 'admin' command and options is given below, and can be shown at the terminal at any time by typing 'sbox admin'.

#### Usage: sbox admin [OPTIONS]

#### [OPTIONS]

--reset-password	Reset password of web UI admin user.
-set-password	Set password for web UI admin user.
--gen-ssl	Regenerate SSL keys for web server.
--installed-packages	Display installed packages in web server.
--skip-wizard	Skip the setup wizard on access.
--restart	Restart sbox-admin service.

### The admin Command (reset-password operator)

The 'admin' command can be used with the '--reset-password' operator to reset the Manage Web UI 'admin' password.

This can be invaluable if the Customer has forgotten their web UI password. It will unlock the account and set a randomly generated password.

Use the command with the '--reset-operator' operator as shown below;

```
sbox admin --reset-password
```

The screen below shows a typical output from this command;

```
[sbox@gemini-0800277c2740 ~]$ sbox admin --reset-password
+ Set admin password...
Now you can login Gemini Enterprise Manager by 'admin' user and password '92b8bf67'.
```

### The admin Command (set-password operator)

The **'admin'** command can be used with the **'-set-password'** operator to set a new password instead of using a randomly generated string as with the **'--reset-password'** operator. **Note:** that only one hyphen (-) is used with this operator, not two (--).

Use the command with the **'-set-password'** operator as shown below;

```
sbox admin -set-password <new_password>
```

where **'<new\_password>'** has to be replaced with the desired password.

It is generally recommended to change the admin password using the Web UI, and then to change it using the CLI as shown here.

### The admin Command (gen-ssl operator)

The **'admin'** command can be used with the **'--gen-ssl'** operator to reset the SSL certificate used by the web UI.

This can be useful if the web UI is unavailable due to certificate issues (e.g. expired or invalid certificate).

Use the command with the **'--gen-ssl'** operator as shown below to reset the SSL certificate;

```
sbox admin --gen-ssl
```

```
[sbox@gemini-0800277c2740 ~]$ sbox admin --gen-ssl
+ Generating admin SSL key file...
Generating RSA private key, 4096 bit long modulus
.....++
.....++
e is 65537 (0x10001)
writing RSA key
+ Restart admin web service...
Done!
```

**Important:** This will overwrite any custom private key and certificate installed using the Manage Web GUI. It is recommended to backup private keys and certificates using the Manage backup feature from the Web UI before performing this operation.

### The network Command (reset operator)

The **'network'** command can be used with the **'--reset'** operator to reset the network interface settings and remove any IP bondings.

Following the running of this command, basic network settings will be set to default and will have to be configured again (see **The network Command** section of the **Gemini Central Administration Guide V3.0** for details);

```
sbox network --reset
```

## The service Command (restart operator)

The **'service'** command can be used with the **'--restart'** operator to restart the administrative services of Manage. This may be requested by the Gemini Customer Support department during a technical issue.

Additionally, this action could be performed if the Web UI is unresponsive for some reason.

Use the command with the **'--restart'** operator as shown below to restart Gemini services with immediate effect;

```
sbox service --restart
```

The screen below shows a typical output from this command;

```
[sbox@gemini-08800277c2740 ~]$ sbox service --restart
+ Restarting services.....
+ All services have been restarted.
```

## The splunk Command

A summary of the **'splunk'** command and options is given below, and can be shown at the terminal at any time by typing **'sbox splunk'**.

### Usage: sbox splunk [OPTIONS]

#### [OPTIONS]

--kill	Remove Splunk instance.
--reset_environments	Clean up Splunk environment settings.
--backup_setting <file>	Backup Splunk settings.
--restore_setting <file>	Restore Splunk settings.

The **'splunk'** command can be used with the **'--kill'** operator to remove the installed Splunk instance in its entirety; including the binary file, configurations, and all ingested data.

```
sbox splunk --kill
```

#### Notes

**Warning!** All Splunk configs and data will be deleted.  
This is not a recoverable action. Use with caution.

## Reset Splunk Environments

The **'splunk'** command can be used with the **'--reset\_environments'** operator to reset the Splunk Environments database.

This is designed to remove the Splunk Environments information from Manage. During the process, you will be asked if you also want to remove Splunk. This is an important question to which you would normally respond **'NO'**.

This might be necessary if unintended actions have in some way corrupted the **Splunk Environments** dashboard.

Use the command with the **'--reset\_environments'** operator as shown below to reset the Splunk Environments database;

```
sbox splunk --reset_environments
```

### Notes

Use with care, and watch for the prompts at the console. If answered incorrectly, all Splunk installations in the environment will also be removed.

Read any prompt messages with care and act accordingly.

This command replaces the previous commands (Ver <2.6)

```
sbox splunk --kill
```

```
sbox splunk --undo-manager
```

## The system Command (patch operator)

The **'system'** command can be used with the **'--patch'** operator to apply patches to Manage. This could be in the case that the Manage Web UI is inaccessible.

Upload the patch to Gemini Central before running this command.

Use the command with the **'--patch'** operator as shown below to apply a patch without relying on the web interface;

```
sbox system -patch <patch_file>
```

The screen below shows a typical output from this command;

```
[sbox@gemini-0f2fd9 ~]$ sbox system
Usage: sbox system [OPTIONS]

[OPTIONS]
  --info          Display system information.
  -patch <file_path> Apply patch file with <file_path>.

[sbox@gemini-0f2fd9 ~]$ sbox system -patch all_match.patch
.....Patching completed.
[sbox@gemini-0f2fd9 ~]$
```



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## Commands for System Operations

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Additional commands are available specific to interactive shells from the console.

### Note

**Note:** The commands listed below related to System Operations are restricted from being used through SSH sessions and have to be typed at the terminal!

### System Reboot

To reboot the Gemini instance, just type;

```
reboot
```

### System Power Off

The shut down the Gemini instance, just type;

```
poweroff
```

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## Default Passwords for CLI Operations

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Only two accounts are provisioned for command-line access to the instance by default. If **Tableau** has been installed the default suggested password is suggested below:

OS account	default password	Description
sbox	facing jet function drive	Used for Manage administration
splunk	think adventure kitchen chest	Used for Splunk administration
tableau	tableau	(when Tableau has been installed)

All users will be required to change their password upon initial login;

```
sbox login: sbox
Password:
You are required to change your password immediately (root enforced)
Changing password for sbox.
(current) UNIX password:
New password:
Retype new password:
[sbox@sbox ~]$_
```

To access the **Gemini Support** Documentation and Knowledge Base, or to open a support ticket, please visit <https://support.geminidata.com> or contact [support@geminidata.com](mailto:support@geminidata.com)

Use this site frequently to check for updates, patches and other information related to your instance.

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