

# How to upgrade Cluster EVE PE (Professional Edition) version 5 to version 6

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The EVE-NG Professional Edition (PE) Cluster upgrade can be done in two ways. Actual EVE upgrade, or the new EVE V6 installation restoring all data from backup.

# I. Actual EVE Cluster V5 upgrade to the EVE Cluster V6

- Mandatory Prerequisites: Internet and DNS must be reachable from your Server. This upgrade process requires internet access to get updates and install the latest EVE PE version from the EVE-NG repository. DNS must resolve names!
- 1. Upgrade current Master EVE PE to the latest version 5.0.1-144
- Important NOTE: Make sure all labs/nodes are stopped in your EVE cluster system, and nothing is running on it.
- Important NOTE: DO NOT run upgrade simultaneously/parallel sessions on Master and Satellite servers at the same time. EVE Cluster System upgrade must be done in following sequence:
  - Master upgrade (completed)
  - Satellite upgrade (completed)
  - Next Satellite upgrade (completed)
- 1.1. Check your current Master EVE PE version.

SSH to your EVE CLI as root user and issue: dpkg -l eve-ng-pro This will display your PE EVE current version. It must be version **5.0.1-XX** 

1.2. Update your current EVE to the latest version EVE PE 5.0.1-144.

SSH to your EVE CLI as root user and issue following commands:

```
apt update

apt upgrade
    [answer y if required]

apt dist-upgrade
    [answer y if required]

apt autoremove
    [answer y if required]

reboot
```



1.3. Check your updated EVE PE version. It must be 5.0.1-144.

2. Upgrade current Satellite EVE PE to the latest version 5.0.1-144

## Repeat the following procedure for all satellite servers

- Important NOTE: Make sure all labs/nodes are stopped in your EVE cluster system, and nothing is running on it.
- Important NOTE: DO NOT run upgrade simultaneously/parallel sessions on Master and Satellite servers at the same time. EVE Cluster System upgrade must be done in following sequence:
  - Master upgrade (completed)
  - Satellite upgrade (completed)
  - Next Satellite upgrade (completed)
- 2.1. Check your current Satellite EVE PE version.

SSH to your EVE CLI as root user and issue: dpkg -1 eve-agent This will display your PE EVE current version. It must be version **5.0.1-XX** 

2.2. Update your current EVE to the latest version EVE PE 5.0.1-144.

SSH to your EVE CLI as root user and issue following commands:

```
apt update

apt upgrade
    [answer y if required]

apt dist-upgrade
    [answer y if required]

apt autoremove
    [answer y if required]

reboot
```



2.3. Check your updated EVE PE version. It must be 5.0.1-144.

- 3. Upgrade Master EVE PE to the EVE version 6.0.1-XX
- Important NOTE: Make sure all labs/nodes are stopped in your EVE server, and nothing is running on it.
- Important NOTE: DO NOT run upgrade simultaneously/parallel sessions on Master and Satellite servers at the same time. EVE Cluster System upgrade must be done in following sequence:
  - Master upgrade (completed)
  - Satellite upgrade (completed)
  - Next Satellite upgrade (completed)
- 3.1. Check your current EVE PE version.

SSH to your EVE CLI as root user and issue: dpkg -l eve-ng-pro, It must be version 5.0.1-144

3.2. Start the upgrade with a single command. After the upgrade process is completed, the reboot prompt will appear.

wget -O - http://www.eve-ng.net/jammy/update-eve-pro.sh > /tmp/update-eve-pro.sh && chmod +x /tmp/update-eve-pro.sh && /tmp/update-eve-pro.sh

```
root@eve-pe5:~# wget -O - http://www.eve-ng.net/jammy/update-eve-pro.sh >
/tmp/update-eve-pro.sh && chmod +x /tmp/update-eve-pro.sh && /tmp/update-
eve-pro.sh

This will launch the Major upgrade to EVE 6.0
Requirements:
- EVE must be up to date ( 5.0.1-144 )
- All Ubuntu packages must be up to date
- External repositories are no supported ( only ubuntu and eve-ng are valids )
```



```
type yes to continue: yes
---Output ommitted---
Reading state information...
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Upgrade process done. Press Enter to reboot
```

#### If the upgrade process is rejected!

3.3. If your EVE has extra Linux applications and repositories installed, they must be removed before upgrading. Example below is showing that *megacmd* apt is installed.

```
root@eve-pe5:~# wget -0 - http://www.eve-ng.net/jammy/update-eve-pro.sh >
/tmp/update-eve-pro.sh && chmod +x /tmp/update-eve-pro.sh && /tmp/update-eve-pro.sh
---Output ommitted---
Upgrade REJECT !!!!!
external repository detected
Fresh install is recommended
rejected repository:
/var/lib/apt/lists/mega.nz_linux_repo_xUbuntu%5f20.04_._Packages
root@eve-pe5:~#
```

- 3.4. Extra repo and package removal. (Example, megacmd app)
  - Find the app repo belongs to this apt installation.
  - Remove app repo from your EVE
  - Find the app package name
  - Remove apt, y

```
root@eve-pe5:~# grep mega -r /etc/apt
/etc/apt/sources.list.d/megasync.list:deb [signed-
by=/usr/share/keyrings/meganz-archive-keyring.gpg]
https://mega.nz/linux/repo/xUbuntu 20.04/ ./
root@eve-pe5:~# rm /etc/apt/sources.list.d/megasync.list
root@eve-pe5:~# dpkg -1 mega*
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/half-conf/Half-inst/trig-aWait/Trig-
pend
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)
_____
ii megacmd 1.6.3-2.1 amd64 MEGA Command Line Interactive
and Scriptable Application
root@eve-pe5:~# apt remove megacmd
Reading package lists... Done
Building dependency tree
--- Output ommitted ---
After this operation, 39.7 MB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 118032 files and directories currently installed.)
Removing megacmd (1.6.3-2.1) ...
root@eve-pe5:~#
```

- 3.4.1. Complete the steps above if you have other apps installed to your EVE.
- 3.5. Re-run upgrade script 3.2



- 4. Upgrade Satellite EVE PE to the EVE version 6.0.1-XX
- Important NOTE: Make sure all labs/nodes are stopped in your EVE server, and nothing is running on it.
- Important NOTE: DO NOT run upgrade simultaneously/parallel sessions on Master and Satellite servers at the same time. EVE Cluster System upgrade must be done in following sequence:
  - Master upgrade (completed)
  - Satellite upgrade (completed)
  - Next Satellite upgrade (completed)
- 4.1. Check your current EVE PE version.

SSH to your EVE CLI as root user and issue: dpkg -1 eve-agent, It must be version 5.0.1-144

4.2. Start the upgrade with a single command. After the upgrade process is completed, the reboot prompt will appear.

 $wget\ https://www.eve-ng.net/jammy/update-sat-pro.sh\ -O\ /tmp/upgrade.sh\ \&\&\ chmod\ +x\ /tmp/upgrade.sh\ \&\&\ /tmp/upgrade.sh\ &\&\ /$ 

```
root@eve-sat-01:~# wget https://www.eve-ng.net/jammy/update-sat-pro.sh -0
/tmp/upgrade.sh && chmod +x /tmp/upgrade.sh && /tmp/upgrade.sh

This will launch the Major upgrade to EVE 6.0
Requirements:
- EVE must be up to date ( 5.0.1-144 )
- All Ubuntu packages must be up to date
- External repositories are no supported ( only ubuntu and eve-ng are valids )
type yes to continue: yes
---Output ommitted---
Reading state information...
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Upgrade process done. Press Enter to reboot
```

#### If the upgrade process is rejected!

4.3. If your EVE has extra Linux applications and repositories installed, they must be removed before upgrading. example below is showing that *megacmd* apt is installed.

```
root@eve-sat-01:~# wget https://www.eve-ng.net/jammy/update-sat-pro.sh -0
/tmp/upgrade.sh && chmod +x /tmp/upgrade.sh && /tmp/upgrade.sh
---Output ommitted---
Upgrade REJECT !!!!!
external repository detected
```



```
Fresh install is recommended rejected repository: /var/lib/apt/lists/mega.nz_linux_repo_xUbuntu%5f20.04_._Packages root@eve-sat-01:~#
```

- 4.4. Extra repo and package removal. (Example, megacmd app)
  - Find the app repo belongs to this apt installation.
  - Remove app repo from your EVE
  - · Find the app package name
  - Remove apt, y

```
root@eve-sat-01:~# grep mega -r /etc/apt
/etc/apt/sources.list.d/megasync.list:deb [signed-
by=/usr/share/keyrings/meganz-archive-keyring.gpg]
https://mega.nz/linux/repo/xUbuntu 20.04/ ./
root@eve-sat-01:~# rm /etc/apt/sources.list.d/megasync.list
root@eve-sat-01:~# dpkg -l mega*
Desired=Unknown/Install/Remove/Purge/Hold
| Status=Not/Inst/Conf-files/Unpacked/half-conf/Half-inst/trig-aWait/Trig-
pend
|/ Err?=(none)/Reinst-required (Status, Err: uppercase=bad)
______
ii megacmd
               1.6.3-2.1 amd64
                                     MEGA Command Line Interactive
and Scriptable Application
root@eve-sat-01:~# apt remove megacmd
Reading package lists... Done
Building dependency tree
--- Output ommitted ---
After this operation, 39.7 MB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 118032 files and directories currently installed.)
Removing megacmd (1.6.3-2.1) ...
root@eve-sat-01:~#
```

- 4.5. Complete the steps above if you have other apps installed to your EVE.
- 4.6. Re-run upgrade script 3.2
- 5. Troubleshooting Cluster EVE PE after upgrade
- 5.1. Cannot Login in the Web UI or HTML5 Console does not work after upgrade. SSH to your EVE CLI as root user and issue:

```
systemctl stop tomcat9
sync
rm -fr /var/lib/tomcat9/webapps/guacamole
sync
systemctl start tomcat9
```

5.2. Master EVE has <none> dockers in the list.

root@eve-ng-mas:~#	dc images			
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
registry	2	9363667f8aec	6 weeks ago	25.4MB
eve-gui-server	latest	d819486ab729	6 weeks ago	7.07GB



eve-desktop	latest	aaab99abf9b9	6 weeks ago	6.88GB
eve-firefox	latest	01c3151ae759	6 weeks ago	4.69GB
eve-wireshark	latest	030d66992f3d	2 months ago	4.24GB
eve-dind-rootless	latest	02520db653e4	12 months ago	382MB
<none></none>	<none></none>	8db46f9d7550	13 months ago	24.2MB
root@eve-ng-mas:~#				

### SSH to your EVE CLI as root user and remove:

```
eve-wireshark latest 030d66992f3d 2 months ago 4.24GB
eve-dind-rootless latest 02520db653e4 12 months ago 382MB
<none> <none> 8db46f9d7550 13 months ago 24.2MB
root@eve-ng-mas:~# dc rmi -f 8db46f9d7550
```

5.3. Satellite EVE has <none> or old dockers in the list. NOTE: It is strongly recommended to remove all dockers from satellite server.

```
root@eve-sat-01:~# dc images

REPOSITORY TAG IMAGE ID CREATED SIZE
registry 2 9363667f8aec 6 weeks ago 25.4MB
eve-gui-server latest d819486ab729 6 weeks ago 7.07GB
<none> <none> 8db46f9d7550 13 months ago 24.2MB
root@eve-sat-01:~#
```

#### SSH to your EVE CLI as root user and remove:

# II. New EVE V6 installation with backup restore

- Mandatory Prerequisites: Internet and DNS must be reachable from your Server. This upgrade process requires internet access to get updates and install the latest EVE PE version from the EVE-NG repository. DNS must resolve names!
- 1. Upgrade your current Cluster EVE PE to the latest version 5.0.1-144
- Important NOTE: Make sure all labs/nodes are stopped in your EVE server, and nothing is running on it.
- 1.1. Check your current Master EVE PE version.

SSH to your EVE CLI as root user and issue: dpkg -l eve-ng This will display your CE EVE current version. It must be version **5.0.1-XX** 



1.2. Update your current EVE to the latest version EVE PE 5.0.1-144.

SSH to your EVE CLI as root user and issue following commands:

```
apt update

apt upgrade
    [answer y if required]

apt dist-upgrade
    [answer y if required]

apt autoremove
    [answer y if required]

reboot
```

1.3. Check your updated Master EVE PE version. Must be 5.0.1-144.

- 2. Upgrade EVE PE backup manager.
- 2.1. Upgrade EVE PE backup manager.

```
root@eve-pe5:~# apt install --reinstall eve-backup-manager
---Output Ommitted---
Unpacking eve-backup-manager (5.0.1-143-12) over (5.0.1-143-12) ...
Setting up eve-backup-manager (5.0.1-143-12) ...
root@eve-pe5:~#reboot
```

- 3. Create the EVE backup
- 3.1. Follow the EVE PE Cookbook, chapter 18 https://www.eve-ng.net/index.php/documentation/professional-cookbook/
  - 4. Install new EVE PE
- 4.1. Follow the EVE PE Cookbook, chapter 3 <a href="https://www.eve-ng.net/index.php/documentation/professional-cookbook/">https://www.eve-ng.net/index.php/documentation/professional-cookbook/</a>
  - 5. Restore all data from backup

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5.1. Follow the EVE PE Cookbook, chapter 18 <a href="https://www.eve-ng.net/index.php/documentation/professional-cookbook/">https://www.eve-ng.net/index.php/documentation/professional-cookbook/</a>