

Upgrade and Migrate Hermes SEG 18.04 to 20.04

Introduction

Hermes SEG version 18.04 is based on Ubuntu Server 18.04 LTS (Bionic Beaver). On May 31, 2023, Ubuntu will reach the end of the standard five year maintenance window for Long Term Support (LTS) for 18.04 which means there will be no more bug fixes or security patches unless you opt to upgrade to Ubuntu Pro which will extend support to 2028 or upgrade your Ubuntu installation to a higher version. **Consequently, Hermes SEG is no longer supported on Ubuntu 18.04 LTS.**

Fortunately, if you have an existing Hermes SEG installation on Ubuntu 18.04 LTS, you can perform a release upgrade to Ubuntu Server 20.04 LTS (Focal Fossa) which will extend the standard maintenance window to May 31, 2028.

Ensure that you have a **recent and valid** backup of your Hermes SEG installation before attempting any of the steps below. **These instructions are offered with absolutely no warranty or guarantee of any kind. We cannot be held liable for any damage that may occur to your system by following the instructions below!**

Install the latest updates and patches on Ubuntu Server 18.04 LTS

- Before you install the latest updates and patches it's a good idea to reboot your system in order for any automatic security updates that may have previously installed to take effect.
- Login to a console prompt as a user in the admin group (it's not recommended to attempt to perform the upgrade from a SSH session) and become root by running the following command and then typing your password when prompted:

```
sudo su
```

- Run the following command to update the repositories, run the latest updates and remove any obsolete packages:

```
apt-get update && apt-get dist-upgrade -y && apt-get auto-remove -y
```

- After the updates have been successfully installed reboot your system.

Perform a release upgrade of Ubuntu Server 18.04 LTS to Ubuntu Server 20.04 LTS

- In a console prompt as root, run the following command to begin the upgrade:

```
do-release-upgrade
```

- You will be prompted to continue with a message regarding disabled third party entries in your sources.list. Press **[ENTER]** to continue:

```
Third party sources disabled
```

```
Some third party entries in your sources.list were disabled. You can re-enable them after the upgrade with the 'software-properties' tool or your package manager.
```

```
To continue please press [ENTER]
```

- Before any changes are made, you will be prompted with a summary of the upgrade before proceeding. enter **y** to continue:

```
Do you want to start the upgrade?
```

```
18 installed packages are no longer supported by Canonical. You can still get support from the community.
```

```
20 packages are going to be removed. 190 new packages are going to be installed. 752 packages are going to be upgraded.
```

```
You have to download a total of 616 M. This download will take about 2 minutes with your connection.
```

```
Installing the upgrade can take several hours. Once the download has finished, the process cannot be canceled.
```

```
Continue [yN] Details [d]
```

- During the upgrade you will be repeatedly prompted to install the newer package configuration files. **It's highly recommended that you always pick the default option by either pressing ENTER or N always keep the currently-installed**

version:

Figure 1

```
Setting up python3-wadllib (1.3.3-3build1) ...
Setting up python3-debian (0.1.36ubuntu1) ...
Setting up libsigsegv2:amd64 (2.12-2) ...
Setting up xz-utils (5.2.4-1ubuntu1.1) ...
Setting up libfribidi0:amd64 (1.0.8-2ubuntu0.1) ...
Setting up libquadmath0:amd64 (10.3.0-1ubuntu1~20.04) ...
Setting up bsdmaintools (11.1.2ubuntu3) ...
Setting up libpng16-16:amd64 (1.6.37-2) ...
Setting up usb-modeswitch-data (20191128-3) ...
Setting up libatomic1:amd64 (10.3.0-1ubuntu1~20.04) ...
Setting up libvorbis0a:amd64 (1.3.6-2ubuntu1) ...
Setting up python3-idna (2.8-1) ...
Setting up libevent-2.1-7:amd64 (2.1.11-stable-1) ...
Setting up patch (2.7.6-6) ...
Setting up usb.ids (2020.03.19-1) ...
Setting up libwebp6:amd64 (0.6.1-2ubuntu0.20.04.2) ...
Setting up sudo (1.8.31-1ubuntu1.5) ...
Setting up libhavege1:amd64 (1.9.1-6ubuntu1) ...
Setting up libfl2:amd64 (2.6.4-6.2) ...
Setting up libpcsc-lite1:amd64 (1.8.26-3) ...
Setting up libsensors5:amd64 (1:3.6.0-2ubuntu1.1) ...
Setting up libjpeg-turbo8:amd64 (2.0.3-0ubuntu1.20.04.3) ...
Setting up python3-dns (3.2.1-1) ...
Setting up busybox-initramfs (1:1.30.1-4ubuntu6.4) ...
Setting up libxtables12:amd64 (1.8.4-3ubuntu2) ...
Setting up lynx-common (2.9.0dev.5-1) ...

Configuration file '/etc/lynx/lynx.cfg'
==> Modified (by you or by a script) since installation.
==> Package distributor has shipped an updated version.
What would you like to do about it? Your options are:
  Y or I : install the package maintainer's version
  N or O : keep your currently-installed version
  D      : show the differences between the versions
  Z      : start a shell to examine the situation
The default action is to keep your current version.
*** lynx.cfg (Y/I/N/O/D/Z) [default=N] ? _
```

- On the **Configuring lxd** prompt, ensure you select the **4.0** LXD snap track to continue:

Figure 2

Package configuration

Configuring lxd

The LXD project puts out monthly feature releases which while backward compatible at an API and CLI level, will contain some behavior change and potentially require manual intervention during an upgrade.

In addition to those, every 2 years a LTS release is made which comes with 5 years of support through frequent bugfix-only releases.

The LXD team recommends you pick "4.0" for production environments and use "latest" if you're interested in getting the latest LXD features.

LXD snap track

3.0
4.0

<Ok>

- Once the upgrade has completed successfully, reboot your system.

Run the Hermes SEG Migrate 18.04 to 20.04 Script

During the release upgrade, several obsolete packages are removed including packages that Hermes SEG requires to operate correctly. You must run the Hermes SEG Migrate 18.04 to 20.04 script in order to install newer versions of those packages and migrate the necessary settings.

- In a console prompt as root, remove any existing Hermes-Secure-Email-Gateway repositories from your system by running the command below:

```
rm -rf Hermes-Secure-Email-Gateway/
```

- Git clone a fresh copy of the Hermes SEG Github repository by running the command below:

```
git clone https://github.com/deeztek/Hermes-Secure-Email-Gateway.git
```

- Change to the newly created Hermes-Secure-Email-Gateway directory:

```
cd Hermes-Secure-Email-Gateway/
```

- Make the hermes_migrate_1804_2004.sh script executable:

```
chmod +x hermes_migrate_1804_2004.sh
```

- Run the hermes_migrate_1804_2004.sh script:

```
./hermes_migrate_1804_2004.sh
```

- Follow the prompts to proceed with installation. Once the script has ran successfully, reboot your system.
- Ensure your system is operating successfully i.e. sending/receiving unencrypted/encrypted e-mail, the Hermes SEG admin/user consoles are working etc.
- Ensure that Ciphemail Web-GUI is operational and you can login successfully by navigating to [https://\[HERMES-SEG\]/ciphemail](https://[HERMES-SEG]/ciphemail) where **[HERMES-SEG]** is the IP or FQDN of your Hermes SEG machine.

Hermes SEG Pro installations will display an INVALID license after the release upgrade due to a mismatch in the device ID. Please send your serial number to support@deeztek.com and we can help you re-activate it.

Issues

If you run into any issues with the upgrade, you can post your question on our [Github Issues](#) page or our [Matrix Community Chat channel](#).

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