

GeNUBox 2.1 – Release-Notes

These release notes contain important information to GeNUBox Version 2.1.

Please read carefully!

We recommend installing this upgrade, since not only a number of new features were added, but also several problems were fixed.

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1 Scope of Delivery

Customers who purchased GeNUBox Management Servers receive:

- These Release Notes
- A GeNUBox 2.1 handbook
- A bootable CD with:
 - GeNUBox 2.1 Management Server Software (for new installations as well as upgrades)
 - a GeNUBox 2.1 Standalone Upgrade Image
 - the GeNUBox 2.1 handbook (as PDF)

2 What's new

2.1 Autoupdate

GeNUBox appliances can now be configured to automatically query the Management Server for new configurations, patches or additional packages. This is especially useful for GeNUBoxes which are hard to reach from the Management Server.

2.2 Additional Applications

It is now possible to register additional software packages on the Management Server and to upload them to GeNUBox appliances.

2.3 Status Display

The Management Server shows an overview of the current software versions and configurations of all managed GeNUBox appliances.

2.4 IPsec Scalability

IPsec VPN scalability is greatly improved by bundling of tunnels. This allows to build very large IPsec VPNs with many subnets.

2.5 Logging GUI

It is now possible to store and analyze logging messages from all GeNUBox appliances centrally at the Management Server.

2.6 Logging on Disk

Logmessages can optionally be stored on a local hard disk of the GeNUBox appliance. This allows to permanently archive logging data without a central syslog server.

2.7 Stricter Access Control for SSH

Access to the SSH server on GeNUBoxes can now be controlled more strictly. The Management server enforces that either an access control list of permissible networks is specified or that unrestricted access is permitted explicitly.

2.8 Extended NTP Support

GeNUBox Appliances can now synchronize their system clocks periodically by OpenNTPD.

2.9 Improved GUI

The Management server has improved searching and better consistency checks.

2.10 Updated Operating System

GeNUBox Appliances, as well as the Management Server are now based on OpenBSD Version 3.7 and OpenSSH Version 4.2.

3 Notes

3.1 Access Control with SSHLD VPNs

Since SSH access is now more strictly controlled, the GUI allows to configure explicit access control lists (ACLs) for VPN partners for the SSHLD VPNs. If SSHLD is run over NAT or proxies, then it can be necessary to define ACLs for the partners.

3.2 Packet Filters

The GeNUBox Appliance packet filter now uses *stateful* filter rules almost always and re-assembles IP-fragments before filtering. This results in a slightly increased memory footprint.

3.3 GeNUBox Appliance Bootstrapping by PXE

If the file `/etc/rc.install/install.cfg` on the Management server contains no ACL (defined by `INSTACL`), then **installation by PXE is not possible**. Inserting a line like

```
INSTACL="10.1.47.*"
```

restricts the permissible address range for initial installations. Bootstrapping by PXE will only be possible after inserting a line like the one above, and releasing the GeNUBox configuration through the GUI.

Further information can be found in Chapter 2.2.4 of the handbook.

3.4 Autoupdate SSH Service

The Autoupdate service on the Management server uses an additional SSH server running on port 1022. This SSH server allows public key authentication for GeNUBox appliances which are configured for Autoupdate. It is restricted to the user `sginstall` exclusively.

Port 1022 on the Management server has to be reachable from the GeNUBox appliances for the Autoupdate service to work. This is described in more detail in Chapter 3.3.9 of the GeNUBox handbook.

3.5 No Floppy Support

GeNUBox appliances do not support floppy disks any more.

4 Upgrade

4.1 Backup

Before starting to upgrade, we advise you to create a backup of your configuration and the database of the Management server

Chapter 2.4 of the GeNUBox handbook version **2.0** explains backup procedures in detail. The following directories are deleted during upgrade. Should you have created any important files in these directories, please **save** them before upgrading.

```
/dev
/bin
/sbin
/var/postgresql
/var/packages
/var/db
/usr (with the exception of /usr/local/genubox/ext)
```

The old version will be saved automatically into the following directories:

```
/etc.2.0
/var/genubox/configs.2.0
/var/genubox/install.2.0
/usr/local/genubox/tftpboot.2.0
```

Please note that packages installed manually cannot be upgraded automatically and have to be installed anew after the upgrade.

4.2 Upgrade Management Server

Upgrading requires the Management server to run at least **version 2.0**. If your Management server should not be patched to at least patchlevel P002, the missing patches will be applied automatically. While patching to patchlevel P001, you will be asked whether to deactivate the unnecessary FTP server. The following request for reboot can be safely ignored.

The update script automatically adopts the important parts of your current configuration. Special modifications of your Management server cannot be adopted, though. For this reason, your configurations are save in `/etc.old`, which you can copy back manually, if necessary.

To upgrade, please go through the following steps:

- Log in as **root** on the Management server.
- Insert the upgrade CD in the drive and mount it:

```
# mount /dev/cd0c /mnt
```

- Start the upgrade script:

```
# sh /mnt/upgrade.sh
```

- After successfully completing the first part of the upgrade, you will be asked to reboot the system. To do this, press **ENTER**. Please make sure that your system boots from the inserted CD.
- After booting from CD, choose 'U' to upgrade.
- The upgrade routines look for the root-partition of your disk. In normal circumstances, the default values suggested by the script should be accurate (i.e. `wd0a` or `sd0a` for SCSI systems).
- The system is updated once you answered all questions. **Please do not interrupt this procedure.**
- You will be asked to reboot the system. Remove the CD ROM and reboot your system.
- The last updating steps are performed at system startup.
- During update, the configuration database is checked for consistency. If there are error messages concerning the consistency, you should check the tunnel and HA configurations of the interfaces and correct them, if necessary.
- Your system is now ready.

Note for customers with manually adapted DHCP servers:

In some cases your modifications will have to be entered in `install.cfg`. See Section 2.2.4 of the handbook.

4.3 Upgrade Standalone GeNUBox

To upgrade a standalone GeNUBox, please follow the steps below:

- Direct your Web browser to the URL:
`https://support.genua.de/boximage/patches/patches.cgi`
- Fill in the form and type the serial number of your GeNUBox and '2.10' as the version. Click on "Show Patches".
- Download the file `B210_000.image.tgz` and save it.
- Log in as **root** on your GeNUBox.
- Create an upgrade partition, using the following commands:

```
# mkdir /var/upgrade
# mount_mfs -o rw -s 24500 swap /var/upgrade
```

- Copy the image to your GeNUBox:

```
$ scp B210_000.image.tgz root@box:/var/upgrade
```

- Change to the upgrade directory:

```
# cd /var/upgrade
```

- Verify the validity of the image:

```
# gzsig verify -v /etc/genua.pub B210_000.image.tgz
```

The output should be:

```
Verified B210_000.image.tgz
```

- Decompress the image and start upgrade:

```
# tar xfvz B210_000.image.tgz  
# sh updbox.sh
```

- After the upgrade you may reboot the system:

```
# reboot
```

- Check the upgrade: After rebooting you can check if the upgrade was successful by the following commands on the GeNUBox:

```
# cat /VERSION  
GeNUBox Version 2.1-P000 (21.D022)
```

5 How to reach us

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