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Release notes: Roadmap#Proxmox VE 9.1

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 9 to latest 9.1

Here is the how-to for the CLI:

Check your `debian.sources` file, should look like this:

```
Types: deb
URIs: http://deb.debian.org/debian/
Suites: trixie trixie-updates
Components: main contrib non-free-firmware
Signed-By: /usr/share/keyrings/debian-archive-keyring.gpg

Types: deb
URIs: http://security.debian.org/debian-security/
Suites: trixie-security
Components: main contrib non-free-firmware
Signed-By: /usr/share/keyrings/debian-archive-keyring.gpg
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.sources
```

```
Types: deb
URIs: https://enterprise.proxmox.com/debian/pve
Suites: trixie
Components: pve-enterprise
Signed-By: /usr/share/keyrings/proxmox-archive-keyring.gpg
```

The Ceph Squid enterprise repository:

```
cat /etc/apt/sources.list.d/ceph.sources
```

```
Types: deb
URIs: https://enterprise.proxmox.com/debian/ceph-squid
Suites: trixie
Components: enterprise
Signed-By: /usr/share/keyrings/proxmox-archive-keyring.gpg
```

Update your repository and packages:

```
apt update
```

If you get any errors, your `sources.list` (or your network or subscription key status) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 9.1.0 (running kernel: 6.17.2-1-pve)
pve-manager: 9.1.1 (running version: 9.1.1/42db4a6cf33dac83)
                            ernel-6.17.2-1-pve-signed: 6.17.2-1
```

```
proxmox-kernel-6.17: 6.17.2-1
amd64-microcode: 3.20250311.1
ceph-fuse: 19.2.3-pve2
corosync: 3.1.9-pve2
criu: 4.1.1-1
frr-pythontools: 10.3.1-1+pve4
ifupdown2: 3.3.0-1+pmx11
ksm-control-daemon: 1.5-1
libjs-extjs: 7.0.0-5
libproxmox-acme-perl: 1.7.0
libproxmox-backup-qemu0: 2.0.1
libproxmox-rs-perl: 0.4.1
libpve-access-control: 9.0.4
libpve-apiclient-perl: 3.4.2
libpve-cluster-api-perl: 9.0.7
libpve-cluster-perl: 9.0.7
libpve-common-perl: 9.0.15
libpve-guest-common-perl: 6.0.2
libpve-http-server-perl: 6.0.5
libpve-network-perl: 1.2.3
libpve-rs-perl: 0.11.3
libpve-storage-perl: 9.0.18
libspice-server1: 0.15.2-1+b1
lvm2: 2.03.31-2+pmx1
lxc-pve: 6.0.5-3
lxcfs: 6.0.4-pve1
novnc-pve: 1.6.0-3
proxmox-backup-client: 4.0.20-1
proxmox-backup-file-restore: 4.0.20-1
proxmox-backup-restore-image: 1.0.0
proxmox-firewall: 1.2.1
proxmox-kernel-helper: 9.0.4
proxmox-mail-forward: 1.0.2
proxmox-mini-journalreader: 1.6
proxmox-offline-mirror-helper: 0.7.3
proxmox-widget-toolkit: 5.1.2
pve-cluster: 9.0.7
pve-container: 6.0.18
pve-docs: 9.1.1
pve-edk2-firmware: 4.2025.05-2
pve-esxi-import-tools: 1.0.1
pve-firewall: 6.0.4
pve-firmware: 3.17-2
pve-ha-manager: 5.0.8
pve-i18n: 3.6.2
pve-qemu-kvm: 10.1.2-3
pve-xtermjs: 5.5.0-3
qemu-server: 9.1.0
smartmontools: 7.4-pve1
spiceterm: 3.4.1
swtpm: 0.8.0+pve3
vncterm: 1.9.1
zfsutils-linux: 2.3.4-pve1
pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repositories work out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 9.0 (ISO Image)

Release notes: Roadmap#Proxmox VE 9.0

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 9 to latest 9.0

Here is the how-to for the CLI:

Check your `debian.sources` file, should look like this:

```
Types: deb
URIs: http://deb.debian.org/debian/
Suites: trixie trixie-updates
Components: main contrib non-free-firmware
Signed-By: /usr/share/keyrings/debian-archive-keyring.gpg

Types: deb
URIs: http://security.debian.org/debian-security/
Suites: trixie-security
Components: main contrib non-free-firmware
Signed-By: /usr/share/keyrings/debian-archive-keyring.gpg
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.sources
```

```
Types: deb
URIs: https://enterprise.proxmox.com/debian/pve
Suites: trixie
Components: pve-enterprise
Signed-By: /usr/share/keyrings/proxmox-archive-keyring.gpg
```

The Ceph Squid enterprise repository:

```
cat /etc/apt/sources.list.d/ceph.sources
```

```
Types: deb
URIs: https://enterprise.proxmox.com/debian/ceph-squid
Suites: trixie
Components: enterprise
Signed-By: /usr/share/keyrings/proxmox-archive-keyring.gpg
```

Update your repository and packages:

```
apt update
```

If you get any errors, your `sources.list` (or your network or subscription key status) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 9.0.0 (running kernel: 6.14.8-2-pve)
pve-manager: 9.0.3 (running version: 9.0.3/025864202ebb6109)
proxmox-kernel-helper: 9.0.3
proxmox-kernel-6.14: 6.14.8-2
proxmox-kernel-6.14.8-2-pve: 6.14.8-2
ceph: 19.2.3-pve2
ceph-fuse: 19.2.3-pve2
corosync: 3.1.9-pve2
criu: 4.1.1-1
frr-pythontools: 10.3.1-1+pve4
ifupdown2: 3.3.0-1+pmx9
ksm-control-daemon: 1.5-1
libjs-extjs: 7.0.0-5
libproxmox-acme-perl: 1.7.0
libproxmox-backup-qemu0: 2.0.1
libproxmox-rs-perl: 0.4.1
libpve-access-control: 9.0.3
libpve-apiclient-perl: 3.4.0
libpve-cluster-api-perl: 9.0.6
libpve-cluster-perl: 9.0.6
libpve-common-perl: 9.0.9
libpve-guest-common-perl: 6.0.2
libpve-http-server-perl: 6.0.3
libpve-network-perl: 1.1.6
libpve-rs-perl: 0.10.7
libpve-storage-perl: 9.0.13
libqb0: 1.0.5-1
libspice-server1: 0.15.2-1+b1
lvm2: 2.03.31-2
lxc-pve: 6.0.4-2
lxcfs: 6.0.4-pve1
novnc-pve: 1.6.0-3
proxmox-backup-client: 4.0.9-1
proxmox-backup-file-restore: 4.0.9-1
proxmox-backup-restore-image: 1.0.0
proxmox-firewall: 1.1.1
proxmox-kernel-helper: 9.0.3
proxmox-mail-forward: 1.0.2
proxmox-mini-journalreader: 1.6
proxmox-offline-mirror-helper: 0.7.0
proxmox-widget-toolkit: 5.0.4
pve-cluster: 9.0.6
pve-container: 6.0.9
pve-docs: 9.0.7
pve-edk2-firmware: 4.2025.02-4
pve-esxi-import-tools: 1.0.1
pve-firewall: 6.0.3
pve-firmware: 3.16-3
pve-ha-manager: 5.0.4
pve-i18n: 3.5.2
pve-qemu-kvm: 10.0.2-4
pve-xtermjs: 5.5.0-2
qemu-server: 9.0.16
smartmontools: 7.4-pve1
spiceterm: 3.4.0
swtpm: 0.8.0+pve2
vncterm: 1.9.0
zfsutils-linux: 2.3.3-pve1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repositories work out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 9.0 beta1 (ISO Image)

Release notes: Roadmap#Proxmox VE 9.0 beta1

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://enterprise.proxmox.com/iso/
- Upgrade How-To: Upgrade from 8 to 9

Proxmox Virtual Environment 8.4 (ISO Image)

Release notes: Roadmap#Proxmox VE 8.4

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 8.x to latest 8.4

Here is the how-to for the CLI:

Check your `sources.list` file, should look like this:

```
deb http://deb.debian.org/debian bookworm main contrib

deb http://deb.debian.org/debian bookworm-updates main contrib

# security updates
deb http://security.debian.org bookworm-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bookworm pve-enterprise
```

The Ceph Reef enterprise repository:

Update your repository and packages:

```
apt update
```

If you get any errors, your `sources.list` (or your network or subscription key status) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 8.4.0 (running kernel: 6.8.12-9-pve)
pve-manager: 8.4.0 (running version: 8.4.0/ec58e45e1bcdf2ac)
proxmox-kernel-helper: 8.1.1
proxmox-kernel-6.8: 6.8.12-9
proxmox-kernel-6.8.12-9-pve-signed: 6.8.12-9
ceph: 19.2.1-pve3
ceph-fuse: 19.2.1-pve3
corosync: 3.1.9-pve1
criu: 3.17.1-2+deb12u1
dnsmasq: 2.90-4~deb12u1
glusterfs-client: 10.3-5
ifupdown: residual config
ifupdown2: 3.2.0-1+pmx11
intel-microcode: 3.20250211.1~deb12u1
ksm-control-daemon: 1.5-1
libjs-extjs: 7.0.0-5
libknet1: 1.30-pve2
libproxmox-acme-perl: 1.6.0
libproxmox-backup-qemu0: 1.5.1
libproxmox-rs-perl: 0.3.5
libpve-access-control: 8.2.2
libpve-apiclient-perl: 3.3.2
libpve-cluster-api-perl: 8.1.0
libpve-cluster-perl: 8.1.0
libpve-common-perl: 8.3.1
libpve-guest-common-perl: 5.2.2
libpve-http-server-perl: 5.2.2
libpve-network-perl: 0.11.2
libpve-rs-perl: 0.9.4
libpve-storage-perl: 8.3.6
libspice-server1: 0.15.1-1
lvm2: 2.03.16-2
lxc-pve: 6.0.0-1
lxcfs: 6.0.0-pve2
novnc-pve: 1.6.0-2
proxmox-backup-client: 3.3.7-1
proxmox-backup-file-restore: 3.3.7-1
proxmox-firewall: 0.7.1
proxmox-kernel-helper: 8.1.1
proxmox-mail-forward: 0.3.2
proxmox-mini-journalreader: 1.4.0
proxmox-offline-mirror-helper: 0.6.7
proxmox-widget-toolkit: 4.3.10
pve-cluster: 8.1.0
pve-container: 5.2.6
pve-docs: 8.4.0
pve-edk2-firmware: 4.2025.02-3
pve-esxi-import-tools: 0.7.3
pve-firewall: 5.1.1
pve-ha-manager: 4.0.7
pve-i18n: 3.4.2
```

```
  pve-qemu-kvm: 9.2.0-5
  pve-xtermjs: 5.5.0-2
  qemu-server: 8.3.12
  smartmontools: 7.3-pve1
  spiceterm: 3.3.0
  swtpm: 0.8.0+pve1
  vncterm: 1.8.0
  zfsutils-linux: 2.2.7-pve2

  pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repositories work out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 8.3 (ISO Image)

Release notes: Roadmap#Proxmox VE 8.3

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 8.x to latest 8.3

Here is the how-to for the CLI:

Check your `sources.list` file, should look like this:

```
deb http://deb.debian.org/debian bookworm main contrib

deb http://deb.debian.org/debian bookworm-updates main contrib

# security updates
deb http://security.debian.org bookworm-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bookworm pve-enterprise
```

The Ceph Reef enterprise repository:

```
deb https://enterprise.proxmox.com/debian/ceph-reef bookworm enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your `sources.list` (or your network or subscription key status) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 8.3.0 (running kernel: 6.8.12-4-pve)
pve-manager: 8.3.0 (running version: 8.3.0/c1689ccb1065a83b)
proxmox-kernel-helper: 8.1.0
proxmox-kernel-6.8: 6.8.12-4
proxmox-kernel-6.8.12-4-pve-signed: 6.8.12-4
ceph-fuse: 18.2.4-pve3
corosync: 3.1.7-pve3
criu: 3.17.1-2
glusterfs-client: 10.3-5
ifupdown2: 3.2.0-1+pmx11
ksm-control-daemon: 1.5-1
libjs-extjs: 7.0.0-5
libknet1: 1.28-pve1
libproxmox-acme-perl: 1.5.1
libproxmox-backup-qemu0: 1.4.1
libproxmox-rs-perl: 0.3.4
libpve-access-control: 8.2.0
libpve-apiclient-perl: 3.3.2
libpve-cluster-api-perl: 8.0.10
libpve-cluster-perl: 8.0.10
libpve-common-perl: 8.2.9
libpve-guest-common-perl: 5.1.6
libpve-http-server-perl: 5.1.2
libpve-network-perl: 0.10.0
libpve-rs-perl: 0.9.0
libpve-storage-perl: 8.2.9
libspice-server1: 0.15.1-1
lvm2: 2.03.16-2
lxc-pve: 6.0.0-1
lxcfs: 6.0.0-pve2
novnc-pve: 1.5.0-1
proxmox-backup-client: 3.2.9-1
proxmox-backup-file-restore: 3.2.9-1
proxmox-firewall: 0.6.0
proxmox-kernel-helper: 8.1.0
proxmox-mail-forward: 0.3.1
proxmox-mini-journalreader: 1.4.0
proxmox-offline-mirror-helper: 0.6.7
proxmox-widget-toolkit: 4.3.1
pve-cluster: 8.0.10
pve-container: 5.2.2
pve-docs: 8.3.1
pve-edk2-firmware: 4.2023.08-4
pve-esxi-import-tools: 0.7.2
pve-firewall: 5.1.0
pve-firmware: 3.14-1
pve-ha-manager: 4.0.6
pve-i18n: 3.3.1
pve-qemu-kvm: 9.0.2-4
pve-xtermjs: 5.3.0-3
qemu-server: 8.3.0
smartmontools: 7.3-pve1
swtpm: 0.8.0+pve1
vncterm: 1.8.0
```

```
zfsutils-linux: 2.2.6-pve1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repositories work out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 8.2 (ISO Image)

Release notes: Roadmap#Proxmox VE 8.2

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 8.x to latest 8.2

Here is the how-to for the CLI:

Check your `sources.list` file, should look like this:

```
deb http://deb.debian.org/debian bookworm main contrib

deb http://deb.debian.org/debian bookworm-updates main contrib

# security updates
deb http://security.debian.org bookworm-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bookworm pve-enterprise
```

The Ceph Reef enterprise repository:

```
deb https://enterprise.proxmox.com/debian/ceph-reef bookworm enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your `sources.list` (or your network or subscription key status) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 8.2.0 (running kernel: 6.8.4-2-pve)
pve-manager: 8.2.2 (running version: 8.2.2/9355359cd7afbae4)
proxmox-kernel-helper: 8.1.0
proxmox-kernel-6.8: 6.8.4-2
proxmox-kernel-6.8.4-2-pve-signed: 6.8.4-2
ceph-fuse: 17.2.7-pve3
corosync: 3.1.7-pve3
criu: 3.17.1-2
glusterfs-client: 10.3-5
ifupdown2: 3.2.0-1+pmx8
ksm-control-daemon: 1.5-1
libjs-extjs: 7.0.0-4
libknet1: 1.28-pve1
libproxmox-acme-perl: 1.5.0
libproxmox-backup-qemu0: 1.4.1
libproxmox-rs-perl: 0.3.3
libpve-access-control: 8.1.4
libpve-apiclient-perl: 3.3.2
libpve-cluster-api-perl: 8.0.6
libpve-cluster-perl: 8.0.6
libpve-common-perl: 8.2.1
libpve-guest-common-perl: 5.1.1
libpve-http-server-perl: 5.1.0
libpve-network-perl: 0.9.8
libpve-rs-perl: 0.8.8
libpve-storage-perl: 8.2.1
libspice-server1: 0.15.1-1
lvm2: 2.03.16-2
lxc-pve: 6.0.0-1
lxcfs: 6.0.0-pve2
novnc-pve: 1.4.0-3
proxmox-backup-client: 3.2.0-1
proxmox-backup-file-restore: 3.2.0-1
proxmox-kernel-helper: 8.1.0
proxmox-mail-forward: 0.2.3
proxmox-mini-journalreader: 1.4.0
proxmox-offline-mirror-helper: 0.6.6
proxmox-widget-toolkit: 4.2.1
pve-cluster: 8.0.6
pve-container: 5.0.10
pve-docs: 8.2.1
pve-edk2-firmware: 4.2023.08-4
pve-esxi-import-tools: 0.7.0
pve-firewall: 5.0.5
pve-firmware: 3.11-1
pve-ha-manager: 4.0.4
pve-i18n: 3.2.2
pve-qemu-kvm: 8.1.5-5
pve-xtermjs: 5.3.0-3
qemu-server: 8.2.1
smartmontools: 7.3-pve1
spiceterm: 3.3.0
swtpm: 0.8.0+pve1
vncterm: 1.8.0
zfsutils-linux: 2.2.3-pve2

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repositories work out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 8.1 (ISO Image)

Release notes: Roadmap#Proxmox VE 8.1

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 8.x to latest 8.1

Here is the how-to for the CLI:

Check your `sources.list` file, should look like this:

```
deb http://deb.debian.org/debian bookworm main contrib

deb http://deb.debian.org/debian bookworm-updates main contrib

# security updates
deb http://security.debian.org bookworm-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bookworm pve-enterprise
```

The Ceph Reef enterprise repository:

```
deb https://enterprise.proxmox.com/debian/ceph-reef bookworm enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your `sources.list` (or your network or subscription key status) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 8.1.0 (running kernel: 6.5.11-4-pve)
pve-manager: 8.1.3 (running version: 8.1.3/b46aac3b42da5d15)
proxmox-kernel-helper: 8.0.9
pve-kernel-6.2: 8.0.5
proxmox-kernel-6.5.11-4-pve-signed: 6.5.11-4
proxmox-kernel-6.5: 6.5.11-4
ceph: 17.2.7-pve1
ceph-fuse: 17.2.7-pve1
corosync: 3.1.7-pve3
criu: 3.17.1-2
glusterfs-client: 10.3-5
ifupdown2: 3.2.0-1+pmx7
ksm-control-daemon: 1.4-1
libjs-extjs: 7.0.0-4
libknet1: 1.28-pve1
libproxmox-acme-perl: 1.5.0
libproxmox-backup-qemu0: 1.4.0
libproxmox-rs-perl: 0.3.1
libpve-access-control: 8.0.7
libpve-apiclient-perl: 3.3.1
libpve-common-perl: 8.1.0
libpve-guest-common-perl: 5.0.6
libpve-http-server-perl: 5.0.5
libpve-network-perl: 0.9.4
libpve-rs-perl: 0.8.7
libpve-storage-perl: 8.0.5
libspice-server1: 0.15.1-1
lvm2: 2.03.16-2
lxc-pve: 5.0.2-4
lxcfs: 5.0.3-pve3
novnc-pve: 1.4.0-3
proxmox-backup-client: 3.0.4-1
proxmox-backup-file-restore: 3.0.4-1
proxmox-kernel-helper: 8.0.9
proxmox-mail-forward: 0.2.2
proxmox-mini-journalreader: 1.4.0
proxmox-offline-mirror-helper: 0.6.2
proxmox-widget-toolkit: 4.1.3
pve-cluster: 8.0.5
pve-container: 5.0.8
pve-docs: 8.1.3
pve-edk2-firmware: 4.2023.08-1
pve-firewall: 5.0.3
pve-firmware: 3.9-1
pve-ha-manager: 4.0.3
pve-i18n: 3.1.2
pve-qemu-kvm: 8.1.2-4
pve-xtermjs: 5.3.0-2
qemu-server: 8.0.10
smartmontools: 7.3-pve1
spiceterm: 3.3.0
swtpm: 0.8.0+pve1
vncterm: 1.8.0
zfsutils-linux: 2.2.0-pve3

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repositories work out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 8.0 (ISO Image)

Release notes: Roadmap#Proxmox VE 8.0

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 8.x to latest 8.x

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian bookworm main contrib

deb http://deb.debian.org/debian bookworm-updates main contrib

# security updates
deb http://security.debian.org bookworm-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bookworm pve-enterprise
```

The Ceph enterprise repository:

```
deb https://enterprise.proxmox.com/debian/ceph-quincy bookworm enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network or subscription key status) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 8.0.2 (running kernel: 6.2.16-10-pve)
pve-manager: 8.0.4 (running version: 8.0.4/d258a813cfa6b390)
proxmox-kernel-helper: 8.0.3
proxmox-kernel-6.2.16-10-pve: 6.2.16-10
proxmox-kernel-6.2: 6.2.16-10
ceph-fuse: 17.2.6-pve1+3
```

```
glusterfs-client: 10.3-5
ifupdown2: 3.2.0-1+pmx3
ksm-control-daemon: 1.4-1
libjs-extjs: 7.0.0-4
libknet1: 1.25-pve1
libproxmox-acme-perl: 1.4.6
libproxmox-backup-qemu0: 1.4.0
libproxmox-rs-perl: 0.3.0
libpve-access-control: 8.0.4
libpve-apiclient-perl: 3.3.1
libpve-common-perl: 8.0.7
libpve-guest-common-perl: 5.0.3
libpve-http-server-perl: 5.0.4
libpve-rs-perl: 0.8.4
libpve-storage-perl: 8.0.2
libspice-server1: 0.15.1-1
lvm2: 2.03.16-2
lxc-pve: 5.0.2-4
lxcfs: 5.0.3-pve3
novnc-pve: 1.4.0-2
proxmox-backup-client: 3.0.2-1
proxmox-backup-file-restore: 3.0.2-1
proxmox-kernel-helper: 8.0.3
proxmox-mail-forward: 0.2.0
proxmox-mini-journalreader: 1.4.0
proxmox-widget-toolkit: 4.0.6
pve-cluster: 8.0.2
pve-container: 5.0.4
pve-docs: 8.0.4
pve-edk2-firmware: 3.20230228-4
pve-firewall: 5.0.3
pve-firmware: 3.7-1
pve-ha-manager: 4.0.2
pve-i18n: 3.0.5
pve-qemu-kvm: 8.0.2-4
pve-xtermjs: 4.16.0-3
qemu-server: 8.0.6
smartmontools: 7.3-pve1
spiceterm: 3.3.0
swtpm: 0.8.0+pve1
vncterm: 1.8.0
zfsutils-linux: 2.1.12-pve1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repositories work out of the box. For more details about the Proxmox VE repositories, see Package repositories

Update a running Proxmox Virtual Environment 7.4 to latest 8.x

Please follow exactly the upgrade guide: Upgrade_from_7_to_8

Proxmox Virtual Environment 8.0 beta1 (ISO Image)

Release notes: Roadmap#Proxmox VE 8.0 beta1

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

  - Download via https://enterprise.proxmox.com/iso/
  - Upgrade How-To: Upgrade from 7 to 8

Proxmox Virtual Environment 7.4 (ISO Image)

Release notes: Roadmap#Proxmox VE 7.4

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

  - Download via https://www.proxmox.com/downloads
  - Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 7.x to latest 7.4

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian bullseye main contrib

deb http://deb.debian.org/debian bullseye-updates main contrib

# security updates
deb http://security.debian.org bullseye-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bullseye pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v
```

More information

```
        er: 7.4-3 (running version: 7.4-3/9002ab8a)
```

```
pve-kernel-5.15: 7.3-3
pve-kernel-5.15.102-1-pve: 5.15.102-1
ceph-fuse: 15.2.13-pve1
corosync: 3.1.7-pve1
criu: 3.15-1+pve-1
glusterfs-client: 9.2-1
ifupdown2: 3.1.0-1+pmx3
ksm-control-daemon: 1.4-1
libjs-extjs: 7.0.0-1
libknet1: 1.24-pve2
libproxmox-acme-perl: 1.4.4
libproxmox-backup-qemu0: 1.3.1-1
libproxmox-rs-perl: 0.2.1
libpve-access-control: 7.4-1
libpve-apiclient-perl: 3.2-1
libpve-common-perl: 7.3-3
libpve-guest-common-perl: 4.2-4
libpve-http-server-perl: 4.2-1
libpve-rs-perl: 0.7.5
libpve-storage-perl: 7.4-2
libspice-server1: 0.14.3-2.1
lvm2: 2.03.11-2.1
lxc-pve: 5.0.2-2
lxcfs: 5.0.3-pve1
novnc-pve: 1.4.0-1
proxmox-backup-client: 2.3.3-1
proxmox-backup-file-restore: 2.3.3-1
proxmox-kernel-helper: 7.4-1
proxmox-mail-forward: 0.1.1-1
proxmox-mini-journalreader: 1.3-1
proxmox-offline-mirror-helper: 0.5.1-1
proxmox-widget-toolkit: 3.6.3
pve-cluster: 7.3-3
pve-container: 4.4-3
pve-docs: 7.4-2
pve-edk2-firmware: 3.20221111-1
pve-firewall: 4.3-1
pve-firmware: 3.6-4
pve-ha-manager: 3.6.0
pve-i18n: 2.11-1
pve-qemu-kvm: 7.2.0-8
pve-xtermjs: 4.16.0-1
qemu-server: 7.4-2
smartmontools: 7.2-pve3
spiceterm: 3.2-2
swtpm: 0.8.0~bpo11+3
vncterm: 1.7-1
zfsutils-linux: 2.1.9-pve1
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 7.3 (ISO Image)

Release notes: Roadmap#Proxmox VE 7.3

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads

- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 7.x to latest 7.3

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian bullseye main contrib

deb http://deb.debian.org/debian bullseye-updates main contrib

# security updates
deb http://security.debian.org bullseye-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bullseye pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 7.3-1 (running kernel: 5.15.74-1-pve)
pve-manager: 7.3-3 (running version: 7.3-3/c3928077)
pve-kernel-5.15: 7.2-14
pve-kernel-helper: 7.2-14
pve-kernel-5.15.74-1-pve: 5.15.74-1
ceph-fuse: 15.2.13-pve1
corosync: 3.1.7-pve1
criu: 3.15-1+pve-1
glusterfs-client: 9.2-1
ifupdown2: 3.1.0-1+pmx3
ksm-control-daemon: 1.4-1
libjs-extjs: 7.0.0-1
libknet1: 1.24-pve2
libproxmox-acme-perl: 1.4.2
libproxmox-backup-qemu0: 1.3.1-1
libpve-access-control: 7.2-5
libpve-apiclient-perl: 3.2-1
libpve-common-perl: 7.2-8
libpve-guest-common-perl: 4.2-3
libpve-http-server-perl: 4.1-5
libpve-storage-perl: 7.2-12
```

```
libspice-server1: 0.14.3-2.1
lvm2: 2.03.11-2.1
lxc-pve: 5.0.0-3
lxcfs: 4.0.12-pve1
novnc-pve: 1.3.0-3
proxmox-backup-client: 2.2.7-1
proxmox-backup-file-restore: 2.2.7-1
proxmox-mini-journalreader: 1.3-1
proxmox-offline-mirror-helper: 0.5.0-1
proxmox-widget-toolkit: 3.5.3
pve-cluster: 7.3-1
pve-container: 4.4-2
pve-docs: 7.3-1
pve-edk2-firmware: 3.20220526-1
pve-firewall: 4.2-7
pve-firmware: 3.5-6
pve-ha-manager: 3.5.1
pve-i18n: 2.8-1
pve-qemu-kvm: 7.1.0-4
pve-xtermjs: 4.16.0-1
qemu-server: 7.3-1
smartmontools: 7.2-pve3
spiceterm: 3.2-2
swtpm: 0.8.0~bpo11+2
vncterm: 1.7-1
zfsutils-linux: 2.1.6-pve1
pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 7.2 (ISO Image)

Release notes: Roadmap#Proxmox VE 7.2

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 7.x to latest 7.2

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian bullseye main contrib

deb http://deb.debian.org/debian bullseye-updates main contrib

# security updates
deb http://security.debian.org bullseye-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bullseye pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 7.2-1 (running kernel: 5.15.60-2-pve)
pve-manager: 7.2-11 (running version: 7.2-11/b76d3178)
pve-kernel-helper: 7.2-13
pve-kernel-5.15: 7.2-12
pve-kernel-5.15.60-2-pve: 5.15.60-2
ceph-fuse: 15.2.13-pve1
corosync: 3.1.5-pve2
criu: 3.15-1+pve-1
glusterfs-client: 9.2-1
ifupdown2: 3.1.0-1+pmx3
ksm-control-daemon: 1.4-1
libjs-extjs: 7.0.0-1
libknet1: 1.24-pve1
libproxmox-acme-perl: 1.4.2
libproxmox-backup-qemu0: 1.3.1-1
libpve-access-control: 7.2-4
libpve-apiclient-perl: 3.2-1
libpve-common-perl: 7.2-3
libpve-guest-common-perl: 4.1-3
libpve-http-server-perl: 4.1-4
libpve-storage-perl: 7.2-10
libspice-server1: 0.14.3-2.1
lvm2: 2.03.11-2.1
lxc-pve: 5.0.0-3
lxcfs: 4.0.12-pve1
novnc-pve: 1.3.0-3
proxmox-backup-client: 2.2.7-1
proxmox-backup-file-restore: 2.2.7-1
proxmox-mini-journalreader: 1.3-1
proxmox-widget-toolkit: 3.5.1
pve-cluster: 7.2-2
pve-container: 4.2-2
pve-docs: 7.2-2
pve-edk2-firmware: 3.20220526-1
pve-firewall: 4.2-6
pve-firmware: 3.5-4
pve-ha-manager: 3.4.0
pve-i18n: 2.7-2
pve-qemu-kvm: 7.0.0-3
pve-xtermjs: 4.16.0-1
qemu-server: 7.2-4
smartmontools: 7.2-pve3
```

```
zfsutils-linux: 2.1.6-pve1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 7.1 (ISO Image)

Release notes: Roadmap#Proxmox VE 7.1

Download the ISO image and burn it to CD-ROM or Install from USB Stick and boot your server from CD-ROM or USB stick. For a quick how-to see Quick installation or check out the detailed Installation article.

- Download via https://www.proxmox.com/downloads
- Alternative download https://enterprise.proxmox.com/iso/

Update a running Proxmox Virtual Environment 7.x to latest 7.1

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian bullseye main contrib

deb http://deb.debian.org/debian bullseye-updates main contrib

# security updates
deb http://security.debian.org bullseye-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bullseye pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

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More information

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 7.1-1 (running kernel: 5.13.19-6-pve)
pve-manager: 7.1-12 (running version: 7.1-12/b3c09de3)
pve-kernel-helper: 7.1-14
pve-kernel-5.13: 7.1-9
pve-kernel-5.13.19-6-pve: 5.13.19-15
ceph-fuse: 15.2.13-pve1
corosync: 3.1.5-pve2
criu: 3.15-1+pve-1
glusterfs-client: 9.2-1
ifupdown2: 3.1.0-1+pmx3
ksm-control-daemon: 1.4-1
libjs-extjs: 7.0.0-1
libknet1: 1.22-pve2
libproxmox-acme-perl: 1.4.1
libproxmox-backup-qemu0: 1.2.0-1
libpve-access-control: 7.1-7
libpve-apiclient-perl: 3.2-1
libpve-common-perl: 7.1-5
libpve-guest-common-perl: 4.1-1
libpve-http-server-perl: 4.1-1
libpve-storage-perl: 7.1-1
libspice-server1: 0.14.3-2.1
lvm2: 2.03.11-2.1
lxc-pve: 4.0.11-1
lxcfs: 4.0.11-pve1
novnc-pve: 1.3.0-2
proxmox-backup-client: 2.1.5-1
proxmox-backup-file-restore: 2.1.5-1
proxmox-mini-journalreader: 1.3-1
proxmox-widget-toolkit: 3.4-7
pve-cluster: 7.1-3
pve-container: 4.1-4
pve-docs: 7.1-2
pve-edk2-firmware: 3.20210831-2
pve-firewall: 4.2-5
pve-firmware: 3.3-6
pve-ha-manager: 3.3-3
pve-i18n: 2.6-2
pve-qemu-kvm: 6.1.1-2
pve-xtermjs: 4.16.0-1
qemu-server: 7.1-4
smartmontools: 7.2-1
spiceterm: 3.2-2
swtpm: 0.7.1~bpo11+1
vncterm: 1.7-1
zfsutils-linux: 2.1.4-pve1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 7.0 (ISO Image)

Release notes: Roadmap#Proxmox VE 7.0

Download the ISO image and burn it to CD-ROM or <u>Install from USB Stick</u> and boot your server from CD-ROM or USB stick. For a quick how-to see <u>Quick installation</u> or check out the detailed <u>Installation</u> article.

- Download via <u>https://www.proxmox.com/downloads</u>
- Alternative download <u>https://enterprise.proxmox.com/iso/</u>

Update a running Proxmox Virtual Environment 7.x to latest 7.0

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian bullseye main contrib

deb http://deb.debian.org/debian bullseye-updates main contrib

# security updates
deb http://security.debian.org bullseye-security main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve bullseye pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 7.0-2 (running kernel: 5.11.22-5-pve)
pve-manager: 7.0-11 (running version: 7.0-11/63d82f4e)
pve-kernel-helper: 7.1-2
pve-kernel-5.11: 7.0-8
pve-kernel-5.11.22-5-pve: 5.11.22-10
ceph-fuse: 15.2.13-pve1
corosync: 3.1.5-pve1
criu: 3.15-1+pve-1
glusterfs-client: 9.2-1
ifupdown2: 3.1.0-1+pmx3
ksm-control-daemon: 1.4-1
libjs-extjs: 7.0.0-1
libproxmox-acme-perl: 1.4.0
libproxmox-backup-qemu0: 1.2.0-1
```

```
    libpve-access-control: 7.0-5
    libpve-apiclient-perl: 3.2-1
    libpve-common-perl: 7.0-10
    libpve-guest-common-perl: 4.0-2
    libpve-http-server-perl: 4.0-3
    libpve-storage-perl: 7.0-12
    libspice-server1: 0.14.3-2.1
    lvm2: 2.03.11-2.1
    lxc-pve: 4.0.9-4
    lxcfs: 4.0.8-pve2
    novnc-pve: 1.2.0-3
    proxmox-backup-client: 2.0.11-1
    proxmox-backup-file-restore: 2.0.11-1
    proxmox-mini-journalreader: 1.2-1
    proxmox-widget-toolkit: 3.3-6
    pve-cluster: 7.0-3
    pve-container: 4.1-1
    pve-docs: 7.0-5
    pve-edk2-firmware: 3.20200531-1
    pve-firewall: 4.2-4
    pve-firmware: 3.3-2
    pve-ha-manager: 3.3-1
    pve-i18n: 2.5-1
    pve-qemu-kvm: 6.0.0-4
    pve-xtermjs: 4.12.0-1
    qemu-server: 7.0-14
    smartmontools: 7.2-1
    spiceterm: 3.2-2
    vncterm: 1.7-1
    zfsutils-linux: 2.0.5-pve1

    pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Update a running Proxmox Virtual Environment 6.4 to latest 7.x

Please follow exactly the upgrade guide: Upgrade_from_6.x_to_7.0

Proxmox Virtual Environment 7.0 beta1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_7.0_beta1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http://download.proxmox.com/iso/
- https://pve.proxmox.com/wiki/Upgrade_from_6.x_to_7.0

Proxmox Virtual Environment 6.4 (ISO Image)

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 6.x to latest 6.4

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian buster main contrib

deb http://deb.debian.org/debian buster-updates main contrib

# security updates
deb http://security.debian.org buster/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve buster pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 6.4-1 (running kernel: 5.4.128-1-pve)
pve-manager: 6.4-13 (running version: 6.4-13/9f411e79)
pve-kernel-5.4: 6.4-5
pve-kernel-helper: 6.4-5
pve-kernel-5.4.128-1-pve: 5.4.128-2
ceph-fuse: 12.2.11+dfsg1-2.1+b1
corosync: 3.1.2-pve1
criu: 3.11-3
glusterfs-client: 5.5-3
ifupdown: 0.8.35+pve1
ksm-control-daemon: 1.3-1
libjs-extjs: 6.0.1-10
libknet1: 1.20-pve1
libproxmox-acme-perl: 1.1.0
libpve-access-control: 6.4-3
libpve-apiclient-perl: 3.1-3
```

```
libpve-common-perl: 6.4-3
libpve-guest-common-perl: 3.1-5
libpve-http-server-perl: 3.2-3
libpve-storage-perl: 6.4-1
libqb0: 1.0.5-1
libspice-server1: 0.14.2-4~pve6+1
lvm2: 2.03.02-pve4
lxc-pve: 4.0.6-2
lxcfs: 4.0.6-pve1
novnc-pve: 1.1.0-1
proxmox-backup-client: 1.1.13-2
proxmox-mini-journalreader: 1.1-1
proxmox-widget-toolkit: 2.6-1
pve-cluster: 6.4-1
pve-container: 3.3-6
pve-docs: 6.4-2
pve-edk2-firmware: 2.20200531-1
pve-firewall: 4.1-4
pve-firmware: 3.2-4
pve-ha-manager: 3.1-1
pve-i18n: 2.3-1
pve-qemu-kvm: 5.2.0-6
pve-xtermjs: 4.7.0-3
qemu-server: 6.4-2
smartmontools: 7.2-pve2
spiceterm: 3.1-1
vncterm: 1.6-2
zfsutils-linux: 2.0.5-pve1~bpo10+1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 6.3 (ISO Image)

Release notes: Roadmap#Proxmox_VE_6.3

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 6.x to latest 6.3

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian buster main contrib

deb http://deb.debian.org/debian buster-updates main contrib

# security updates
deb http://security.debian.org buster/updates main contrib
```

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve buster pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 6.3-1 (running kernel: 5.4.106-1-pve)
pve-manager: 6.3-6 (running version: 6.3-6/2184247e)
pve-kernel-5.4: 6.3-8
pve-kernel-helper: 6.3-8
pve-kernel-5.4.106-1-pve: 5.4.106-1
ceph-fuse: 12.2.11+dfsg1-2.1+b1
corosync: 3.1.0-pve1
criu: 3.11-3
glusterfs-client: 5.5-3
ifupdown: 0.8.35+pve1
ksm-control-daemon: 1.3-1
libjs-extjs: 6.0.1-10
libknet1: 1.20-pve1
libproxmox-acme-perl: 1.0.8
libproxmox-backup-qemu0: 1.0.3-1
libpve-access-control: 6.1-3
libpve-apiclient-perl: 3.1-3
libpve-common-perl: 6.3-5
libpve-guest-common-perl: 3.1-5
libpve-http-server-perl: 3.1-1
libpve-storage-perl: 6.3-8
libqb0: 1.0.5-1
libspice-server1: 0.14.2-4~pve6+1
lvm2: 2.03.02-pve4
lxc-pve: 4.0.6-2
lxcfs: 4.0.6-pve1
novnc-pve: 1.1.0-1
proxmox-backup-client: 1.1.1-1
proxmox-mini-journalreader: 1.1-1
proxmox-widget-toolkit: 2.4-9
pve-cluster: 6.2-1
pve-container: 3.3-4
pve-docs: 6.3-1
pve-edk2-firmware: 2.20200531-1
pve-firewall: 4.1-3
pve-firmware: 3.2-2
pve-ha-manager: 3.1-1
pve-i18n: 2.3-1
pve-qemu-kvm: 5.2.0-5
pve-xtermjs: 4.7.0-3
qemu-server: 6.3-10
smartmontools: 7.2-pve2
```

```
pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 6.2 (ISO Image)

Release notes: Roadmap#Proxmox_VE_6.2

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 6.x to latest 6.2

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian buster main contrib

deb http://deb.debian.org/debian buster-updates main contrib

# security updates
deb http://security.debian.org buster/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve buster pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 6.2-2 (running kernel: 5.4.65-1-pve)
pve-manager: 6.2-15 (running version: 6.2-15/48bd51b6)
pve-kernel-5.4: 6.2-7
pve-kernel-helper: 6.2-7
pve-kernel-5.4.65-1-pve: 5.4.65-1
ceph-fuse: 12.2.11+dfsg1-2.1+b1
corosync: 3.0.4-pve1
criu: 3.11-3
glusterfs-client: 5.5-3
ifupdown: 0.8.35+pve1
ksm-control-daemon: 1.3-1
libjs-extjs: 6.0.1-10
libknet1: 1.16-pve1
libproxmox-acme-perl: 1.0.5
libpve-access-control: 6.1-3
libpve-apiclient-perl: 3.0-3
libpve-common-perl: 6.2-4
libpve-guest-common-perl: 3.1-3
libpve-http-server-perl: 3.0-6
libpve-storage-perl: 6.2-9
libqb0: 1.0.5-1
libspice-server1: 0.14.2-4~pve6+1
lvm2: 2.03.02-pve4
lxc-pve: 4.0.3-1
lxcfs: 4.0.3-pve3
novnc-pve: 1.1.0-1
proxmox-backup-client: 1.0.1-1
proxmox-mini-journalreader: 1.1-1
proxmox-widget-toolkit: 2.3-10
pve-cluster: 6.2-1
pve-container: 3.2-2
pve-docs: 6.2-6
pve-edk2-firmware: 2.20200531-1
pve-firewall: 4.1-3
pve-firmware: 3.1-3
pve-ha-manager: 3.1-1
pve-i18n: 2.2-2
pve-qemu-kvm: 5.1.0-6
pve-xtermjs: 4.7.0-2
qemu-server: 6.2-19
smartmontools: 7.1-pve2
spiceterm: 3.1-1
vncterm: 1.6-2
zfsutils-linux: 0.8.4-pve2

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 6.1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_6.1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 6.x to latest 6.1

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian buster main contrib

deb http://deb.debian.org/debian buster-updates main contrib

# security updates
deb http://security.debian.org buster/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve buster pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 6.1-2 (running kernel: 5.3.18-3-pve)
pve-manager: 6.1-8 (running version: 6.1-8/806edfe1)
pve-kernel-helper: 6.1-8
pve-kernel-5.3: 6.1-6
pve-kernel-5.3.18-3-pve: 5.3.18-3
ceph-fuse: 12.2.11+dfsg1-2.1+b1
corosync: 3.0.3-pve1
criu: 3.11-3
glusterfs-client: 5.5-3
ifupdown: 0.8.35+pve1
ksm-control-daemon: 1.3-1
libjs-extjs: 6.0.1-10
libknet1: 1.15-pve1
libpve-access-control: 6.0-6
libpve-apiclient-perl: 3.0-3
libpve-common-perl: 6.0-17
libpve-guest-common-perl: 3.0-5
libpve-http-server-perl: 3.0-5
libpve-storage-perl: 6.1-5
libqb0: 1.0.5-1
libspice-server1: 0.14.2-4~pve6+1
```

```
lvm2: 2.03.02-pve4
lxc-pve: 3.2.1-1
lxcfs: 3.0.3-pve60
novnc-pve: 1.1.0-1
proxmox-mini-journalreader: 1.1-1
proxmox-widget-toolkit: 2.1-3
pve-cluster: 6.1-4
pve-container: 3.0-23
pve-docs: 6.1-6
pve-edk2-firmware: 2.20200229-1
pve-firewall: 4.0-10
pve-firmware: 3.0-7
pve-ha-manager: 3.0-9
pve-i18n: 2.0-4
pve-qemu-kvm: 4.1.1-4
pve-xtermjs: 4.3.0-1
qemu-server: 6.1-7
smartmontools: 7.1-pve2
spiceterm: 3.1-1
vncterm: 1.6-1
zfsutils-linux: 0.8.3-pve1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 6.0 (ISO Image)

Release notes: Roadmap#Proxmox_VE_6.0

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 6.x to latest 6.0

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://deb.debian.org/debian buster main contrib

deb http://deb.debian.org/debian buster-updates main contrib

# security updates
deb http://security.debian.org buster/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 6.0-2 (running kernel: 5.0.21-5-pve)
pve-manager: 6.0-12 (running version: 6.0-12/0a603350)
pve-kernel-helper: 6.0-12
pve-kernel-5.0: 6.0-11
pve-kernel-5.0.21-5-pve: 5.0.21-10
ceph-fuse: 12.2.11+dfsg1-2.1+b1
corosync: 3.0.2-pve4
criu: 3.11-3
glusterfs-client: 5.5-3
ksm-control-daemon: 1.3-1
libjs-extjs: 6.0.1-10
libknet1: 1.13-pve1
libpve-access-control: 6.0-3
libpve-apiclient-perl: 3.0-2
libpve-common-perl: 6.0-7
libpve-guest-common-perl: 3.0-2
libpve-http-server-perl: 3.0-3
libpve-storage-perl: 6.0-9
libqb0: 1.0.5-1
libspice-server1: 0.14.2-4~pve6+1
lvm2: 2.03.02-pve3
lxc-pve: 3.2.1-1
lxcfs: 3.0.3-pve60
novnc-pve: 1.1.0-1
proxmox-mini-journalreader: 1.1-1
proxmox-widget-toolkit: 2.0-9
pve-cluster: 6.0-7
pve-container: 3.0-10
pve-docs: 6.0-8
pve-edk2-firmware: 2.20190614-1
pve-firewall: 4.0-7
pve-firmware: 3.0-4
pve-ha-manager: 3.0-2
pve-i18n: 2.0-3
pve-qemu-kvm: 4.0.1-5
pve-xtermjs: 3.13.2-1
qemu-server: 6.0-13
smartmontools: 7.0-pve2
spiceterm: 3.1-1
vncterm: 1.6-1
zfsutils-linux: 0.8.2-pve2

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Update a running Proxmox Virtual Environment 5.4 to latest 6.0

Please follow exactly the upgrade guide: Upgrade from 5.x to 6.0

Proxmox Virtual Environment 6.0 beta1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_6.0_beta1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http://download.proxmox.com/iso/

Proxmox Virtual Environment 5.4 (ISO Image)

Release notes: Roadmap#Proxmox_VE_5.4

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 5.x to latest 5.4

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian stretch main contrib

deb http://ftp.at.debian.org/debian stretch-updates main contrib

# security updates
deb http://security.debian.org stretch/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve stretch pve-enterprise
```

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 5.4-2 (running kernel: 4.15.18-30-pve)
pve-manager: 5.4-15 (running version: 5.4-15/d0ec33c6)
pve-kernel-4.15: 5.4-19
pve-kernel-4.15.18-30-pve: 4.15.18-58
corosync: 2.4.4-pve1
criu: 2.11.1-1~bpo90
glusterfs-client: 3.8.8-1
ksm-control-daemon: 1.2-2
libjs-extjs: 6.0.1-2
libpve-access-control: 5.1-12
libpve-apiclient-perl: 2.0-5
libpve-common-perl: 5.0-56
libpve-guest-common-perl: 2.0-20
libpve-http-server-perl: 2.0-14
libpve-storage-perl: 5.0-44
libqb0: 1.0.3-1~bpo9
lvm2: 2.02.168-pve6
lxc-pve: 3.1.0-7
lxcfs: 3.0.3-pve1
novnc-pve: 1.0.0-3
proxmox-widget-toolkit: 1.0-28
pve-cluster: 5.0-38
pve-container: 2.0-42
pve-docs: 5.4-2
pve-edk2-firmware: 1.20190312-1
pve-firewall: 3.0-22
pve-firmware: 2.0-7
pve-ha-manager: 2.0-9
pve-i18n: 1.1-4
pve-libspice-server1: 0.14.1-2
pve-qemu-kvm: 3.0.1-4
pve-xtermjs: 3.12.0-1
qemu-server: 5.0-56
smartmontools: 6.5+svn4324-1
spiceterm: 3.0-5
vncterm: 1.5-3
zfsutils-linux: 0.7.13-pve1~bpo2

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 5.3 (ISO Image)

Release notes: Roadmap#Proxmox_VE_5.3

More information

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 5.x to latest 5.3

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian stretch main contrib

deb http://ftp.at.debian.org/debian stretch-updates main contrib

# security updates
deb http://security.debian.org stretch/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve stretch pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 5.3-1 (running kernel: 4.15.18-12-pve)
pve-manager: 5.3-11 (running version: 5.3-11/d4907f84)
pve-kernel-4.15: 5.3-3
pve-kernel-4.15.18-12-pve: 4.15.18-35
corosync: 2.4.4-pve1
criu: 2.11.1-1~bpo90
glusterfs-client: 3.8.8-1
ksm-control-daemon: 1.2-2
libjs-extjs: 6.0.1-2
libpve-access-control: 5.1-3
libpve-apiclient-perl: 2.0-5
libpve-common-perl: 5.0-47
libpve-guest-common-perl: 2.0-20
libpve-http-server-perl: 2.0-12
libpve-storage-perl: 5.0-3-1~bpo9
lvm2: 2.02.168-pve6
```

More information

```
lxc-pve: 3.1.0-3
lxcfs: 3.0.3-pve1
novnc-pve: 1.0.0-3
proxmox-widget-toolkit: 1.0-23
pve-cluster: 5.0-33
pve-container: 2.0-35
pve-docs: 5.3-3
pve-edk2-firmware: 1.20181023-1
pve-firewall: 3.0-18
pve-firmware: 2.0-6
pve-ha-manager: 2.0-8
pve-i18n: 1.0-9
pve-libspice-server1: 0.14.1-2
pve-qemu-kvm: 2.12.1-2
pve-xtermjs: 3.10.1-2
qemu-server: 5.0-47
smartmontools: 6.5+svn4324-1
spiceterm: 3.0-5
vncterm: 1.5-3
zfsutils-linux: 0.7.13-pve1~bpo2

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 5.2 (ISO Image)

Release notes: Roadmap#Proxmox_VE_5.2

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 5.x to latest 5.2

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian stretch main contrib

deb http://ftp.at.debian.org/debian stretch-updates main contrib

# security updates
deb http://security.debian.org stretch/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve stretch pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 5.2-2 (running kernel: 4.15.18-9-pve)
pve-manager: 5.2-11 (running version: 5.2-11/13c2da63)
pve-kernel-4.15: 5.2-12
pve-kernel-4.15.18-9-pve: 4.15.18-30
corosync: 2.4.4-pve1
criu: 2.11.1-1~bpo90
glusterfs-client: 3.8.8-1
ksm-control-daemon: 1.2-2
libjs-extjs: 6.0.1-2
libpve-access-control: 5.0-8
libpve-apiclient-perl: 2.0-5
libpve-common-perl: 5.0-41
libpve-guest-common-perl: 2.0-18
libpve-http-server-perl: 2.0-11
libpve-storage-perl: 5.0-30
libqb0: 1.0.3-1~bpo9
lvm2: 2.02.168-pve6
lxc-pve: 3.0.2+pve1-3
lxcfs: 3.0.2-2
novnc-pve: 1.0.0-2
proxmox-widget-toolkit: 1.0-20
pve-cluster: 5.0-30
pve-container: 2.0-29
pve-docs: 5.2-10
pve-edk2-firmware: 1.20181023-1
pve-firewall: 3.0-14
pve-firmware: 2.0-6
pve-ha-manager: 2.0-5
pve-i18n: 1.0-6
pve-libspice-server1: 0.14.1-1
pve-qemu-kvm: 2.12.1-1
pve-xtermjs: 1.0-5
qemu-server: 5.0-40
smartmontools: 6.5+svn4324-1
spiceterm: 3.0-5
vncterm: 1.5-3
zfsutils-linux: 0.7.12-pve1~bpo1

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 5.1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_5.1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 5.x to latest 5.1

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian stretch main contrib

# security updates
deb http://security.debian.org stretch/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve stretch pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 5.1-42 (running kernel: 4.13.16-2-pve)
pve-manager: 5.1-51 (running version: 5.1-51/96be5354)
pve-kernel-4.13: 5.1-44
pve-kernel-4.13.16-2-pve: 4.13.16-47
                         1.1-1~bpo90
```

```
  glusterfs-client: 3.8.8-1
  ksm-control-daemon: 1.2-2
  libjs-extjs: 6.0.1-2
  libpve-access-control: 5.0-8
  libpve-apiclient-perl: 2.0-4
  libpve-common-perl: 5.0-30
  libpve-guest-common-perl: 2.0-14
  libpve-http-server-perl: 2.0-8
  libpve-storage-perl: 5.0-18
  libqb0: 1.0.1-1
  lvm2: 2.02.168-pve6
  lxc-pve: 3.0.0-2
  lxcfs: 3.0.0-1
  novnc-pve: 0.6-4
  proxmox-widget-toolkit: 1.0-15
  pve-cluster: 5.0-25
  pve-container: 2.0-21
  pve-docs: 5.1-17
  pve-firewall: 3.0-8
  pve-firmware: 2.0-4
  pve-ha-manager: 2.0-5
  pve-i18n: 1.0-4
  pve-libspice-server1: 0.12.8-3
  pve-qemu-kvm: 2.11.1-5
  pve-xtermjs: 1.0-2
  qemu-server: 5.0-25
  smartmontools: 6.5+svn4324-1
  spiceterm: 3.0-5
  vncterm: 1.5-3
  zfsutils-linux: 0.7.7-pve1~bpo9

  pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 5.0 (ISO Image)

Release notes: Roadmap#Proxmox_VE_5.0

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 5.x to latest 5.0

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian stretch main contrib

# security updates
deb http://security.debian.org stretch/updates main contrib
```

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian/pve stretch pve-enterprise
```

Update your repository and packages:

```
apt update
```

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 5.0-24 (running kernel: 4.10.17-4-pve)
pve-manager: 5.0-32 (running version: 5.0-32/2560e073)
pve-kernel-4.10.17-4-pve: 4.10.17-24
libpve-http-server-perl: 2.0-6
lvm2: 2.02.168-pve3
corosync: 2.4.2-pve3
libqb0: 1.0.1-1
pve-cluster: 5.0-14
qemu-server: 5.0-15
pve-firmware: 2.0-2
libpve-common-perl: 5.0-18
libpve-guest-common-perl: 2.0-12
libpve-access-control: 5.0-6
libpve-storage-perl: 5.0-15
pve-libspice-server1: 0.12.8-3
vncterm: 1.5-2
pve-docs: 5.0-9
pve-qemu-kvm: 2.9.1-1
pve-container: 2.0-16
pve-firewall: 3.0-3
pve-ha-manager: 2.0-2
ksm-control-daemon: 1.2-2
glusterfs-client: 3.8.8-1
lxc-pve: 2.1.0-2
lxcfs: 2.0.7-pve4
criu: 2.11.1-1~bpo90
novnc-pve: 0.6-4
smartmontools: 6.5+svn4324-1
zfsutils-linux: 0.6.5.11-pve18~bpo90

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 5.0 beta2 (ISO Image)

Release notes: Roadmap#Proxmox_VE_5.0_beta2

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http https://www.proxmox.com/downloads

Proxmox Virtual Environment 5.0 beta1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_5.0_beta1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http https://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 5.x beta to latest 5.x beta

Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian stretch main contrib

# security updates
deb http://security.debian.org stretch/updates main contrib
```

The beta repository:

```
cat /etc/apt/sources.list.d/pve-test.list
```

```
deb http://download.proxmox.com/debian stretch pvetest
```

Update your repository and packages:

If you get any errors, your sources.list (or your network) has a problem.

Now upgrade the packages:

```
apt dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 5.0-9 (running kernel: 4.10.11-1-pve)
pve-manager: 5.0-10 (running version: 5.0-10/0d270679)
pve-kernel-4.10.11-1-pve: 4.10.11-9
libpve-http-server-perl: 2.0-4
lvm2: 2.02.168-pve2
corosync: 2.4.2-pve2
libqb0: 1.0.1-1
pve-cluster: 5.0-7
qemu-server: 5.0-4
pve-firmware: 2.0-2
libpve-common-perl: 5.0-12
libpve-guest-common-perl: 2.0-1
libpve-access-control: 5.0-4
libpve-storage-perl: 5.0-3
pve-libspice-server1: 0.12.8-3
vncterm: 1.4-1
pve-docs: 5.0-1
pve-qemu-kvm: 2.9.0-1
pve-container: 2.0-6
pve-firewall: 3.0-1
pve-ha-manager: 2.0-1
ksm-control-daemon: 1.2-2
glusterfs-client: 3.8.8-1
lxc-pve: 2.0.8-1
lxcfs: 2.0.7-pve1
criu: 2.11.1-1~bpo90
novnc-pve: 0.5-9
smartmontools: 6.5+svn4324-1
zfsutils-linux: 0.6.5.9-pve16~bpo90

pve-server:~#
```

Proxmox Virtual Environment 4.4 (ISO Image)

Release notes: Roadmap#Proxmox_VE_4.4

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 4.x to latest 4.4

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian jessie main contrib

# security updates
deb http://security.debian.org jessie/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian jessie pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you upgrade your system, you should stop all your running VM´s and LXC containers.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 4.4-112 (running kernel: 4.4.134-1-pve)
pve-manager: 4.4-24 (running version: 4.4-24/08ba4d2d)
pve-kernel-4.4.134-1-pve: 4.4.134-112
lvm2: 2.02.116-pve3
corosync-pve: 2.4.2-2~pve4+2
libqb0: 1.0.1-1
pve-cluster: 4.0-55
qemu-server: 4.0-115
pve-firmware: 1.1-12
libpve-common-perl: 4.0-96
libpve-access-control: 4.0-23
libpve-storage-perl: 4.0-76
pve-libspice-server1: 0.12.8-2
vncterm: 1.3-2
pve-docs: 4.4-4
pve-qemu-kvm: 2.9.1-9~pve4
pve-container: 1.0-106
pve-firewall: 2.0-33
pve-ha-manager: 1.0-41
ksm-control-daemon: 1.2-1
glusterfs-client: 3.5.2-2+deb8u3
lxc-pve: 2.0.7-4
lxcfs: 2.0.8-2~pve4
criu: 1.6.0-1
novnc-pve: 0.5-9
smartmontools: 6.5+svn4324-1~pve80
zfsutils: 0.6.5.9-pve15~bpo80

pve-server:~#
```

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 4.3 (ISO Image)

Release notes: Roadmap#Proxmox_VE_4.3

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 4.x to latest 4.3

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian jessie main contrib

# security updates
deb http://security.debian.org jessie/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian jessie pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you upgrade your system, you should stop all your running VM´s and LXC containers.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v
proxmox-ve: 4.3-72 (running kernel: 4.4.24-1-pve)
pve-manager: 4.3-12 (running version: 4.3-12/6894c9d9)
pve-kernel-4.4.24-1-pve: 4.4.24-72
```

```
lvm2: 2.02.116-pve3
corosync-pve: 2.4.0-1
libqb0: 1.0-1
pve-cluster: 4.0-47
qemu-server: 4.0-96
pve-firmware: 1.1-10
libpve-common-perl: 4.0-83
libpve-access-control: 4.0-19
libpve-storage-perl: 4.0-68
pve-libspice-server1: 0.12.8-1
vncterm: 1.2-1
pve-docs: 4.3-17
pve-qemu-kvm: 2.7.0-8
pve-container: 1.0-85
pve-firewall: 2.0-31
pve-ha-manager: 1.0-38
ksm-control-daemon: 1.2-1
glusterfs-client: 3.5.2-2+deb8u2
lxc-pve: 2.0.6-1
lxcfs: 2.0.5-pve1
criu: 1.6.0-1
novnc-pve: 0.5-8
smartmontools: 6.5+svn4324-1~pve80
zfsutils: 0.6.5.8-pve13~bpo80


pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 4.2 (ISO Image)

Release notes: Roadmap#Proxmox_VE_4.2

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 4.x to latest 4.2

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian jessie main contrib

# security updates
deb http://security.debian.org jessie/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian jessie pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you upgrade your system, you should stop all your running VM´s and LXC containers.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 4.2-64 (running kernel: 4.4.16-1-pve)
pve-manager: 4.2-18 (running version: 4.2-18/158720b9)
pve-kernel-4.4.16-1-pve: 4.4.16-64
lvm2: 2.02.116-pve3
corosync-pve: 2.4.0-1
libqb0: 1.0-1
pve-cluster: 4.0-44
qemu-server: 4.0-86
pve-firmware: 1.1-9
libpve-common-perl: 4.0-72
libpve-access-control: 4.0-19
libpve-storage-perl: 4.0-57
pve-libspice-server1: 0.12.8-1
vncterm: 1.2-1
pve-qemu-kvm: 2.6.1-2
pve-container: 1.0-73
pve-firewall: 2.0-29
pve-ha-manager: 1.0-33
ksm-control-daemon: 1.2-1
glusterfs-client: 3.5.2-2+deb8u2
lxc-pve: 2.0.4-1
lxcfs: 2.0.3-pve1
cgmanager: 0.39-pve1
criu: 1.6.0-1
novnc-pve: 0.5-8
zfsutils: 0.6.5.7-pve10~bpo80

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 4.1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_4.1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 4.x to latest 4.1

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian jessie main contrib

# security updates
deb http://security.debian.org jessie/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian jessie pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you upgrade your system, you should stop all your running VM´s and LXC containers.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v

proxmox-ve: 4.1-39 (running kernel: 4.2.8-1-pve)
pve-manager: 4.1-22 (running version: 4.1-22/aca130cf)
pve-kernel-4.2.8-1-pve: 4.2.8-39
lvm2: 2.02.116-pve2
corosync-pve: 2.3.5-2
libqb0: 1.0-1
pve-cluster: 4.0-36
qemu-server: 4.0-64
pve-firmware: 1.1-7
libpve-common-perl: 4.0-54
libpve-storage-perl: 4.0-45
```

```
    pve-libspice-server1: 0.12.5-2
    vncterm: 1.2-1
    pve-qemu-kvm: 2.5-9
    pve-container: 1.0-52
    pve-firewall: 2.0-22
    pve-ha-manager: 1.0-25
    ksm-control-daemon: 1.2-1
    glusterfs-client: 3.5.2-2+deb8u1
    lxc-pve: 1.1.5-7
    lxcfs: 2.0.0-pve2
    cgmanager: 0.39-pve1
    criu: 1.6.0-1
    zfsutils: 0.6.5-pve7~jessie


    pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 4.0 (ISO Image)

Release notes: Roadmap#Proxmox_VE_4.0

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 4.x to latest 4.0

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. Here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian jessie main contrib

# security updates
deb http://security.debian.org jessie/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian jessie pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

proxmox-ve: 4.0-21 (running kernel: 4.2.3-2-pve)
pve-manager: 4.0-57 (running version: 4.0-57/cc7c2b53)
pve-kernel-4.2.3-2-pve: 4.2.3-21
lvm2: 2.02.116-pve1
corosync-pve: 2.3.5-1
libqb0: 0.17.2-1
pve-cluster: 4.0-24
qemu-server: 4.0-35
pve-firmware: 1.1-7
libpve-common-perl: 4.0-36
libpve-access-control: 4.0-9
libpve-storage-perl: 4.0-29
pve-libspice-server1: 0.12.5-2
vncterm: 1.2-1
pve-qemu-kvm: 2.4-12
pve-container: 1.0-21
pve-firewall: 2.0-13
pve-ha-manager: 1.0-13
ksm-control-daemon: 1.2-1
glusterfs-client: 3.5.2-2+deb8u1
lxc-pve: 1.1.4-3
lxcfs: 0.10-pve2
cgmanager: 0.39-pve1
criu: 1.6.0-1
zfsutils: 0.6.5-pve6~jessie

pve-server:~#
```

Important Note

If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box. For more details about the Proxmox VE repositories, see Package repositories

Update a running Proxmox Virtual Environment 3.x to latest 4.0

See Upgrade from 3.x to 4.0

Proxmox Virtual Environment 3.4 (ISO Image)

Release notes: Roadmap#Proxmox_VE_3.4

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 3.x to latest 3.4

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. All updates should be applied via CLI only (if you tried via GUI, please check this forum post (http://forum.proxmox.com/threads/210 45-grub2-update-problems-%28GUI-only%29-leading-to-not-correctly-installed-packages)). here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://http.at.debian.org/debian wheezy main contrib

# security updates
deb http://security.debian.org/ wheezy/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian wheezy pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

proxmox-ve-2.6.32: 3.4-185 (running kernel: 2.6.32-48-pve)
pve-manager: 3.4-16 (running version: 3.4-16/40ccc11c)
pve-kernel-2.6.32-48-pve: 2.6.32-185
lvm2: 2.02.98-pve4
clvm: 2.02.98-pve4
corosync-pve: 1.4.7-1
openais-pve: 1.1.4-3
libqb0: 0.11.1-2
redhat-cluster-pve: 3.2.0-2
resource-agents-pve: 3.9.2-4
fence-agents-pve: 4.0.10-3
pve-cluster: 3.0-20
qemu-server: 3.4-9
pve-firmware: 1.1-6
pve-access-control: 3.0-16
```

```
  libpve-storage-perl: 3.0-35
  pve-libspice-server1: 0.12.4-3
  vncterm: 1.1-8
  vzctl: 4.0-1pve6
  vzprocps: 2.0.11-2
  vzquota: 3.1-2
  pve-qemu-kvm: 2.2-28
  ksm-control-daemon: 1.1-1
  glusterfs-client: 3.5.2-1

  pve-server:~#
```

Important Note

Due to changes in our repositories in 3.1 you need to check your apt configuration. If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box.

For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 3.3 (ISO Image)

Release notes: Roadmap#Proxmox_VE_3.3

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 3.x to latest 3.3

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. All updates can be applied via GUI or via CLI, here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://http.at.debian.org/debian wheezy main contrib

# security updates
deb http://security.debian.org/ wheezy/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian wheezy pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

proxmox-ve-2.6.32: 3.3-139 (running kernel: 2.6.32-34-pve)
pve-manager: 3.3-5 (running version: 3.3-5/bfebec03)
pve-kernel-2.6.32-34-pve: 2.6.32-139
lvm2: 2.02.98-pve4
clvm: 2.02.98-pve4
corosync-pve: 1.4.7-1
openais-pve: 1.1.4-3
libqb0: 0.11.1-2
redhat-cluster-pve: 3.2.0-2
resource-agents-pve: 3.9.2-4
fence-agents-pve: 4.0.10-1
pve-cluster: 3.0-15
qemu-server: 3.3-3
pve-firmware: 1.1-3
libpve-common-perl: 3.0-19
libpve-access-control: 3.0-15
libpve-storage-perl: 3.0-25
pve-libspice-server1: 0.12.4-3
vncterm: 1.1-8
vzctl: 4.0-1pve6
vzprocps: 2.0.11-2
vzquota: 3.1-2
pve-qemu-kvm: 2.1-10
ksm-control-daemon: 1.1-1
glusterfs-client: 3.5.2-1

pve-server:~#
```

Important Note

Due to changes in our repositories in 3.1 you need to check your apt configuration. If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box.

For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 3.2 (ISO Image)

Release notes: Roadmap#Proxmox_VE_3.2

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 3.x to latest 3.2

Make sure that you have uploaded a valid subscription key to your Proxmox VE host. All updates can be applied via GUI or via CLI, here is the howto for the CLI:

Check your sources.list file, should look like this:

```
deb http://http.at.debian.org/debian wheezy main contrib

# security updates
deb http://security.debian.org/ wheezy/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian wheezy pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

proxmox-ve-2.6.32: 3.2-132 (running kernel: 2.6.32-31-pve)
pve-manager: 3.2-4 (running version: 3.2-4/e24a91c1)
pve-kernel-2.6.32-31-pve: 2.6.32-132
lvm2: 2.02.98-pve4
clvm: 2.02.98-pve4
corosync-pve: 1.4.5-1
openais-pve: 1.1.4-3
libqb0: 0.11.1-2
redhat-cluster-pve: 3.2.0-2
resource-agents-pve: 3.9.2-4
fence-agents-pve: 4.0.5-1
pve-cluster: 3.0-12
qemu-server: 3.1-16
pve-firmware: 1.1-3
libpve-common-perl: 3.0-18
libpve-access-control: 3.0-11
libpve-storage-perl: 3.0-19
pve-libspice-server1: 0.12.4-3
vncterm: 1.1-6
vzctl: 4.0-1pve5
vzprocps: 2.0.11-2
vzquota: 3.1-2
pve-qemu-kvm: 1.7-8
ksm-control-daemon: 1.1-1
glusterfs-client: 3.4.2-1

pve-server:~#
```

Important Note

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More information

Due to changes in our repositories in 3.1 you need to check your apt configuration. If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box.

For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 3.1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_3.1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 3.x to latest 3.1

Make sure that you have uploaded a valid subscription key to your Proxmox VE host.

Check your sources.list file, should look like this:

```
deb http://http.at.debian.org/debian wheezy main contrib

# security updates
deb http://security.debian.org/ wheezy/updates main contrib
```

The enterprise repository:

```
cat /etc/apt/sources.list.d/pve-enterprise.list
```

```
deb https://enterprise.proxmox.com/debian wheezy pve-enterprise
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v
proxmox-ve-2.6.32: 3.1-114 (running kernel: 2.6.32-26-pve)
pve-manager: 3.1-24 (running version: 3.1-24/060bd5a6)
```

```
pve-kernel-2.6.32-26-pve: 2.6.32-114
lvm2: 2.02.98-pve4
clvm: 2.02.98-pve4
corosync-pve: 1.4.5-1
openais-pve: 1.1.4-3
libqb0: 0.11.1-2
redhat-cluster-pve: 3.2.0-2
resource-agents-pve: 3.9.2-4
fence-agents-pve: 4.0.0-2
pve-cluster: 3.0-8
qemu-server: 3.1-8
pve-firmware: 1.0-23
libpve-common-perl: 3.0-9
libpve-access-control: 3.0-8
libpve-storage-perl: 3.0-18
pve-libspice-server1: 0.12.4-2
vncterm: 1.1-6
vzctl: 4.0-1pve4
vzprocps: 2.0.11-2
vzquota: 3.1-2
pve-qemu-kvm: 1.4-17
ksm-control-daemon: 1.1-1
glusterfs-client: 3.4.1-1

pve-server:~#
```

Important Note

Due to changes in our repositories you need to update your apt configuration. If you already use your Proxmox VE Subscription Key, access to the Enterprise repository works out of the box.

For more details about the Proxmox VE repositories, see Package repositories

Proxmox Virtual Environment 3.0 (ISO Image)

Release notes: Roadmap#Proxmox_VE_3.0

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http or bittorrent: http://www.proxmox.com/downloads

Update a running Proxmox Virtual Environment 3.x to latest 3.0

Check your sources.list file, should look like this:

```
deb http://http.at.debian.org/debian wheezy main contrib

# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian wheezy pve

# security updates
deb http://security.debian.org/ wheezy/updates main contrib
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

pve-manager: 3.0-23 (pve-manager/3.0/957f0862)
running kernel: 2.6.32-22-pve
proxmox-ve-2.6.32: 3.0-107
pve-kernel-2.6.32-22-pve: 2.6.32-107
lvm2: 2.02.95-pve3
clvm: 2.02.95-pve3
corosync-pve: 1.4.5-1
openais-pve: 1.1.4-3
libqb0: 0.11.1-2
redhat-cluster-pve: 3.2.0-2
resource-agents-pve: 3.9.2-4
fence-agents-pve: 4.0.0-1
pve-cluster: 3.0-4
qemu-server: 3.0-20
pve-firmware: 1.0-23
libpve-common-perl: 3.0-4
libpve-access-control: 3.0-4
libpve-storage-perl: 3.0-8
vncterm: 1.1-4
vzctl: 4.0-1pve3
vzprocps: 2.0.11-2
vzquota: 3.1-2
pve-qemu-kvm: 1.4-13
ksm-control-daemon: 1.1-1

pve-server:~#
```

Update a running Proxmox Virtual Environment 2.3 to 3.0

See Upgrade from 2.3 to 3.0

Proxmox Virtual Environment 2.3 (ISO Image)

Release notes: Roadmap#Proxmox_VE_2.3

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http: Proxmox VE 2.3 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/136-proxmox-ve-2)
- Download via bittorrent: Proxmox VE 2.3 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/137-proxmox-ve-2)

(MD5SUM for the ISO is e27f57028bde04b67cfb8182499124e0)

Update a running Proxmox Virtual Environment 2.x to latest 2.3

Check your sources.list file, should look like this:

```
deb http://http.at.debian.org/debian squeeze main contrib

# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian squeeze pve

# security updates
deb http://security.debian.org/ squeeze/updates main contrib
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

pve-manager: 2.3-13 (pve-manager/2.3/7946f1f1)
running kernel: 2.6.32-19-pve
proxmox-ve-2.6.32: 2.3-96
pve-kernel-2.6.32-19-pve: 2.6.32-96
lvm2: 2.02.95-1pve2
clvm: 2.02.95-1pve2
corosync-pve: 1.4.4-4
openais-pve: 1.1.4-2
libqb: 0.10.1-2
redhat-cluster-pve: 3.1.93-2
resource-agents-pve: 3.9.2-3
fence-agents-pve: 3.1.9-1
pve-cluster: 1.0-36
qemu-server: 2.3-20
pve-firmware: 1.0-21
libpve-common-perl: 1.0-49
libpve-access-control: 1.0-26
libpve-storage-perl: 2.3-7
vncterm: 1.0-4
vzctl: 4.0-1pve2
vzprocps: 2.0.11-2
vzquota: 3.1-1
pve-qemu-kvm: 1.4-10
ksm-control-daemon: 1.1-1
```

```
pve-server:~#
```

Proxmox Virtual Environment 2.2 (ISO Image)

Release notes: Roadmap#Proxmox_VE_2.2

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http: Proxmox VE 2.2 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/132-proxmox-ve-2)
- Download via bittorrent: Proxmox VE 2.2 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/133-proxmox-ve-2)

(MD5SUM for the ISO is 6a4ba41035dc32da36a08ec421ea6fb2)

Update a running Proxmox Virtual Environment 2.x to latest 2.2

Check your sources.list file, should look like this:

```
deb http://http.at.debian.org/debian squeeze main contrib

# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian squeeze pve2.2

# security updates
deb http://security.debian.org/ squeeze/updates main contrib
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
apt-get dist-upgrade
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

pve-manager: 2.2-32 (pve-manager/2.2/3089a616)
running kernel: 2.6.32-17-pve
proxmox-ve-2.6.32: 2.2-83
pve-kernel-2.6.32-17-pve: 2.6.32-83
lvm2: 2.02.95-1pve2
clvm: 2.02.95-1pve2
             ve: 1.1.4-2
```

```
libqb: 0.10.1-2
redhat-cluster-pve: 3.1.93-2
resource-agents-pve: 3.9.2-3
fence-agents-pve: 3.1.9-1
pve-cluster: 1.0-34
qemu-server: 2.0-71
pve-firmware: 1.0-21
libpve-common-perl: 1.0-40
libpve-access-control: 1.0-25
libpve-storage-perl: 2.0-36
vncterm: 1.0-3
vzctl: 4.0-1pve2
vzprocps: 2.0.11-2
vzquota: 3.1-1
pve-qemu-kvm: 1.3-10
ksm-control-daemon: 1.1-1

pve-server:~#
```

Proxmox Virtual Environment 2.1 (ISO Image)

Release notes: Roadmap#Proxmox_VE_2.1

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http: Proxmox VE 2.1 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/114-proxmox-ve-2)
- Download via bittorrent: Proxmox VE 2.1 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/115-proxmox-ve-2)

(MD5SUM for the ISO is 940919e832e64c29e67d89233a11b88b)

Update a running Proxmox Virtual Environment 2.x to latest 2.1

Check your sources.list file, should look like this:

```
deb http://ftp.at.debian.org/debian squeeze main contrib

# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian squeeze pve2.1

# security updates
deb http://security.debian.org/ squeeze/updates main contrib
```

Update your repository and packages:

```
apt-get update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v

pve-manager: 2.1-14 (pve-manager/2.1/f32f3f46)
running kernel: 2.6.32-14-pve
proxmox-ve-2.6.32: 2.1-74
pve-kernel-2.6.32-14-pve: 2.6.32-74
lvm2: 2.02.95-1pve2
clvm: 2.02.95-1pve2
corosync-pve: 1.4.3-1
openais-pve: 1.1.4-2
libqb: 0.10.1-2
redhat-cluster-pve: 3.1.92-3
resource-agents-pve: 3.9.2-3
fence-agents-pve: 3.1.8-1
pve-cluster: 1.0-27
qemu-server: 2.0-49
pve-firmware: 1.0-18
libpve-common-perl: 1.0-30
libpve-access-control: 1.0-24
libpve-storage-perl: 2.0-31
vncterm: 1.0-3
vzctl: 3.0.30-2pve5
vzprocps: 2.0.11-2
vzquota: 3.0.12-3
pve-qemu-kvm: 1.1-8
ksm-control-daemon: 1.1-1


pve-server:~#
```

Update a running Proxmox Virtual Environment 1.9 to 2.x

See Upgrade_from_1.9_to_2.0

Proxmox Virtual Environment 2.0 (ISO Image)

Release notes: Roadmap#Proxmox_VE_2.0

Download the ISO image and burn it to CD-ROM or Install_from_USB_Stick and boot your server from CD-ROM or USB stick. For details see Quick_installation

- Download via http: Proxmox VE 2.0 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/112-proxmox-ve-2)
- Download via bittorrent: Proxmox VE 2.0 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/113-proxmox-ve-2)

(MD5SUM for the ISO is 5c1bf16973ee06a293be2bd2b2c648fa)

Update a running Proxmox Virtual Environment to 2.0

See Upgrade_from_1.9_to_2.0

Proxmox Virtual Environment 1.9 (ISO Image)

Release notes: Roadmap#Proxmox_VE_1.9

Download the ISO image and burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- Download via http: Proxmox VE 1.9 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/98-proxmox-ve-1)
- Download via bittorrent: Proxmox VE 1.9 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/99-proxmox-ve-1)

(MD5SUM for the ISO is 910f69b2ab450a304a4bae835ffa858e)

Update a running Proxmox Virtual Environment to 1.9

Check your sources.list file, should look like this:

```
deb http://ftp.debian.org/debian lenny main contrib
# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian lenny pve
# security updates
deb http://security.debian.org/ lenny/updates main contrib
```

Update your repository and packages:

```
aptitude update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
aptitude full-upgrade
```

Choose your preferred Proxmox VE kernel branch, see Proxmox_VE_Kernel If you want to switch to the 2.6.32 kernel branch just install the Proxmox VE virtual package for 2.6.32:

```
aptitude install proxmox-ve-2.6.32
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~#pveversion -v
pve-manager: 1.9-26 (pve-manager/1.9/6567)
proxmox-ve-2.6.32: 1.9-55+ovzfix-2
pve-kernel-2.6.32-7-pve: 2.6.32-55+ovzfix-2
```

```
qemu-server: 1.1-32
pve-firmware: 1.0-15
libpve-storage-perl: 1.0-19
vncterm: 0.9-2
vzctl: 3.0.29-3pve1
vzdump: 1.2-16
vzprocps: 2.0.11-2
vzquota: 3.0.11-1
pve-qemu-kvm: 0.15.0-2
ksm-control-daemon: 1.0-6

pve-server:~#
```

Proxmox Virtual Environment 1.8 (ISO Image)

Release notes: Roadmap#Proxmox_VE_1.8

Download the ISO image and burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- Download via http: Proxmox VE 1.8 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/89-proxmox-ve-1)
- Download via bittorrent: Proxmox VE 1.8 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/90-proxmox-ve-1)

(MD5SUM for the ISO is 82f2dbab4ca5e467278e0717ed7c861f)

Update a running Proxmox Virtual Environment to 1.8

Check your sources.list file, should look like this:

```
deb http://ftp.debian.org/debian lenny main contrib
# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian lenny pve
# security updates
deb http://security.debian.org/ lenny/updates main contrib
```

Update your repository and packages:

```
aptitude update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
aptitude safe-upgrade
```

Choose your preferred Proxmox VE kernel branch, see Proxmox_VE_Kernel If you want to switch to the 2.6.32 kernel branch just install the Proxmox VE virtual package for 2.6.32:

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v
pve-manager: 1.8-18 (pve-manager/1.8/6070)
running kernel: 2.6.32-4-pve
proxmox-ve-2.6.32: 1.8-33
pve-kernel-2.6.32-4-pve: 2.6.32-33
qemu-server: 1.1-30
pve-firmware: 1.0-11
libpve-storage-perl: 1.0-17
vncterm: 0.9-2
vzctl: 3.0.27-1pve1
vzdump: 1.2-13
vzprocps: 2.0.11-2
vzquota: 3.0.11-1
pve-qemu-kvm: 0.14.1-1
ksm-control-daemon: 1.0-6
pve-server:~#
```

Proxmox Virtual Environment 1.7 (ISO Image)

Release notes: Roadmap#Proxmox_VE_1.7

Download the ISO image and burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- Download via http: Proxmox VE 1.7 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/83-proxmox-ve-1)
- Download via bittorrent: Proxmox VE 1.7 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/84-proxmox-ve-1)

(MD5SUM for the ISO is 5d9d02499c96f89fd93e58cf010e4282)

Update a running Proxmox Virtual Environment to 1.7

Check your sources.list file, should look like this:

```
deb http://ftp.debian.org/debian lenny main contrib
# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian lenny pve
# security updates
deb http://security.debian.org/ lenny/updates main contrib
```

Update your repository and packages:

```
aptitude update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now upgrade the packages:

```
aptitude safe-upgrade
```

If you want to switch to the 2.6.32 kernel branch just install the Proxmox VE virtual package for 2.6.32:

```
aptitude install proxmox-ve-2.6.32
```

Reboot to activate the new Kernel, to check if you got all packages, run 'pveversion -v' and compare your output (all packages should have equal or higher version numbers):

```
pve-server:~# pveversion -v
pve-manager: 1.7-10 (pve-manager/1.7/5323)
running kernel: 2.6.32-4-pve
proxmox-ve-2.6.32: 1.7-30
pve-kernel-2.6.32-4-pve: 2.6.32-30
qemu-server: 1.1-28
pve-firmware: 1.0-10
libpve-storage-perl: 1.0-16
vncterm: 0.9-2
vzctl: 3.0.24-1pve4
vzdump: 1.2-10
vzprocps: 2.0.11-1dso2
vzquota: 3.0.11-1
pve-qemu-kvm: 0.13.0-3
ksm-control-daemon: 1.0-4

pve-server:~#
```

Proxmox Virtual Environment 1.6 (ISO Image updated on 18.10.2010)

Release   notes: Roadmap#Proxmox_VE_1.6_.28updated.29_-
_ISO_Installer_with_2.6.32_Kernel_with_OpenVZ_including_KVM_0.12.5

Download the ISO image (Note: update to the ISO on 18.10.2010) burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- Download via http: Proxmox VE 1.6 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/ 81-proxmox-ve-1)
- Download via bittorrent: Proxmox VE 1.6 (http://www.proxmox.com/downloads/proxmox-ve/iso-im ages/82-proxmox-ve-1)

(MD5SUM for the ISO is 83be9d05f7bf8f2f438659f2ec891e56)

Important note

If you run windows KVM guests your operating system will recognize some hardware changes on the first boot. Under some circumstances reactivation of your windows license can be necessary.

Proxmox VE 1.5 - New Kernel 2.6.24 and 2.6.32 (17.5.2010)

Release   notes: Roadmap#Proxmox_VE_1.5_-_New_Kernel_2.6.24_and_2.6.32.2C_including_KVM_0.12.4_and_gPXE

Update a running Proxmox Virtual Environment 1.5

Update your repository and packages:

```
aptitude update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now you can install the new Proxmox VE virtual package:

```
aptitude upgrade && aptitude install proxmox-ve-2.6.32
```

(alternative: proxmox-ve-2.6.24)

Proxmox Virtual Environment 1.5 (ISO Image) - updated on 3.2.2010

Release notes: Roadmap#Proxmox_VE_1.5

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- Download via http: Proxmox VE 1.5 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/37-proxmox-ve-1)
- Download via bittorrent: Proxmox VE 1.5 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/39-proxmox-ve-1)

(MD5SUM for the ISO is 9f886782022b3408a625cb35ea34bab2)

Update a running Proxmox Virtual Environment 1.x to 1.5

Check your sources.list file:

```
nano /etc/apt/sources.list
```

Note: If you still run a Debian Etch based system (0.9, 1.0 or 1.1) think of a re-installation or do a dist-upgrade.

```
deb http://ftp.debian.org/debian lenny main contrib
# PVE packages provided by proxmox.com
deb http://download.proxmox.com/debian lenny pve
# security updates
deb http://security.debian.org/ lenny/updates main contrib
```

Update your repository and packages:

```
aptitude update
```

If you get any errors, your sources.list (or your network) has a problem. Before you update your system, you should stop all your running VM´s.

Now you can install the new Proxmox VE virtual package:

```
aptitude upgrade && aptitude install proxmox-ve-2.6.18
```

(alternative: proxmox-ve-2.6.24 or proxmox-ve-2.6.32)

Now, check the bootloader grub to make sure that the system boots the right kernel.

```
nano /boot/grub/menu.lst
```

Finally reboot into your new kernel and check if you got the latest Proxmox VE packages with 'pveversion -v':

```
pveversion -v

pve-manager: 1.5-7 (pve-manager/1.5/4660)
running kernel: 2.6.18-2-pve
proxmox-ve-2.6.18: 1.5-5
pve-kernel-2.6.18-2-pve: 2.6.18-5
qemu-server: 1.1-11
pve-firmware: 1.0-3
libpve-storage-perl: 1.0-10
vncterm: 0.9-2
vzctl: 3.0.23-1pve8
vzdump: 1.2-5
vzprocps: 2.0.11-1dso2
vzquota: 3.0.11-1
pve-qemu-kvm-2.6.18: 0.9.1-5
```

Proxmox Virtual Environment 1.4 (ISO Image)

Release notes: Roadmap#Proxmox_VE_1.4

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- Download via http: Proxmox VE 1.4 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/36-proxmox-ve-1)

(MD5SUM for the ISO is 0bef854dcca1718f73ff64e383df280a)

Proxmox Virtual Environment 1.4 beta2

Release notes: Roadmap#Proxmox_VE_1.4_beta2

This is the second beta release and therefore not intended for production systems.

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- no download, outdated

Proxmox Virtual Environment 1.4 beta1 (ISO Image updated on 17.9.2009)

Release notes: Roadmap#Proxmox_VE_1.4_beta1

This is a beta release and therefore not intended for production systems.

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- no download, outdated

Proxmox Virtual Environment 1.3 (ISO Image)

Release notes: Roadmap#Proxmox_VE_1.3

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see Installation

- Download via http: Proxmox VE 1.3 (http://www.proxmox.com/downloads/proxmox-ve/iso-images/ 28-proxmox-ve-1)

(MD5SUM is 6ddefdba42121ea24b4e1a3b17d93355)

Important note

If you run windows KVM guests your operating system will recognize some hardware changes on the first boot and windows shows a new network card in the device manager. (e.g. you need to reassign the fixed IP setup to the new network card. if you have DHCP setup there should be no issues). Under some circumstances reactivation of your windows license can be necessary.

Proxmox Virtual Environment 1.2 (ISO Image)

Release notes: Roadmap#Proxmox_VE_1.2

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see <u>Installation</u>

- no download, outdated

Proxmox Virtual Environment 1.1 (ISO Image)

Release notes: <u>Roadmap#Proxmox_VE_1.1</u>

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see <u>Installation</u>

- no download, outdated

Proxmox Virtual Environment 1.0 (ISO Image)

Release notes: <u>Roadmap#Proxmox VE 1.0 - First stable release</u>

Download the ISO image, burn it to CD-ROM and boot your server from CD-ROM. For details see <u>Installation</u>

- no download, outdated

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