

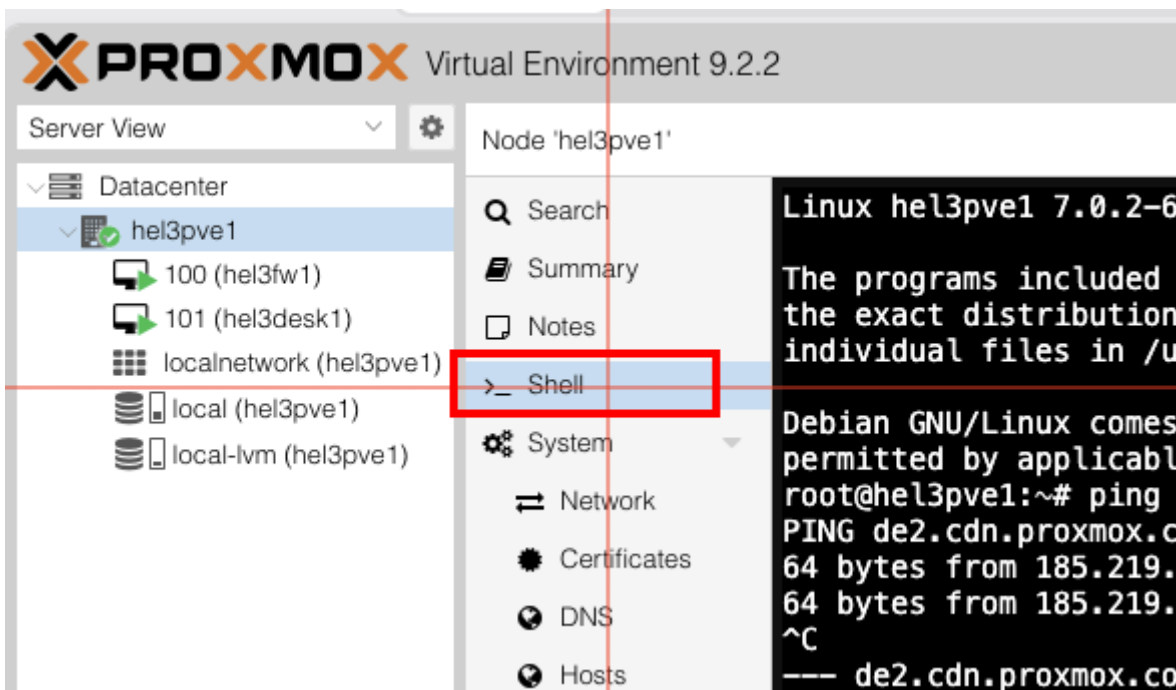
Proxmox Virtual Environment (PVE)

- [Enabling no-subscription repositories](#)
- [Proxmox VE root pass reset \(break the glass\)](#)

Enabling no-subscription repositories

Prepare

Launch shell from hypervisor

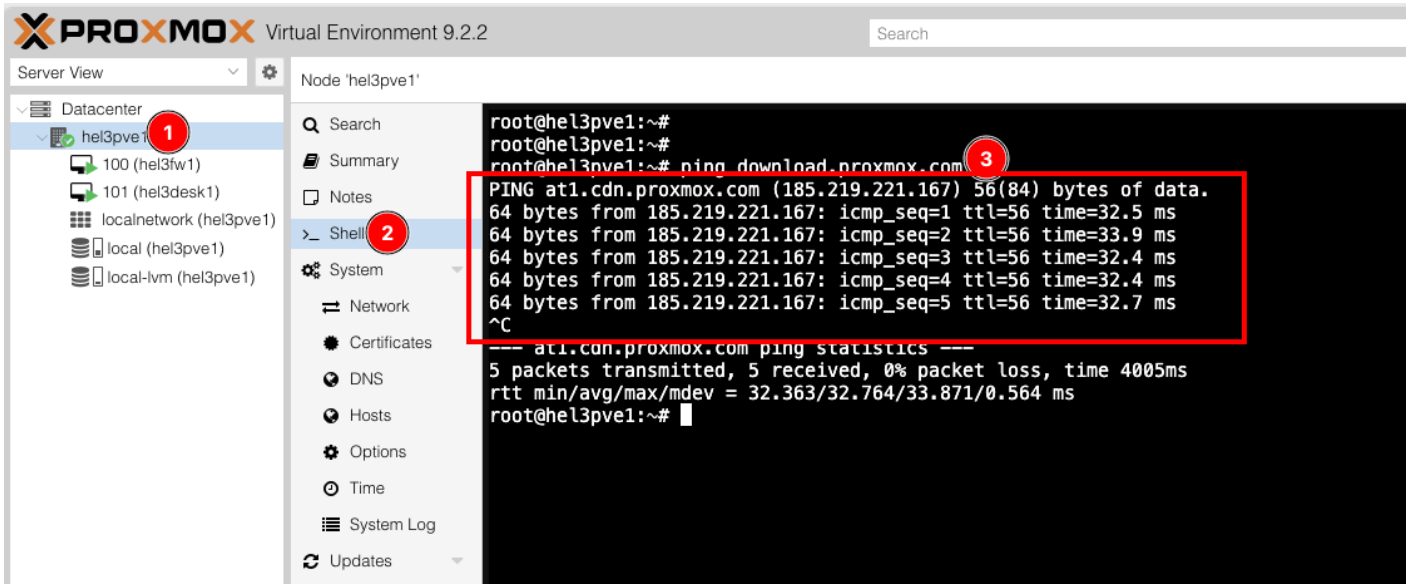


This should provide root shell (priviledged access), if not elevate

```
sudo su
```

Ensure Internet connectivity from hypervisor itself (it can resolve and ping the source)

```
ping download.proxmox.com
```



```
apt update  
apt install tmux  
  
tmux
```

On Debian v13 (trixie)

```
mv /etc/apt/sources.list.d/pve-enterprise.sources /root  
mv /etc/apt/sources.list.d/ceph.sources /root
```

Which version of Debian is running?

```
hostnamectl | grep -i debian
```

```
root@stu1pve1:~# hostnamectl | grep -i debian  
Operating System: Debian GNU/Linux 13 (trixie)
```

Create new file

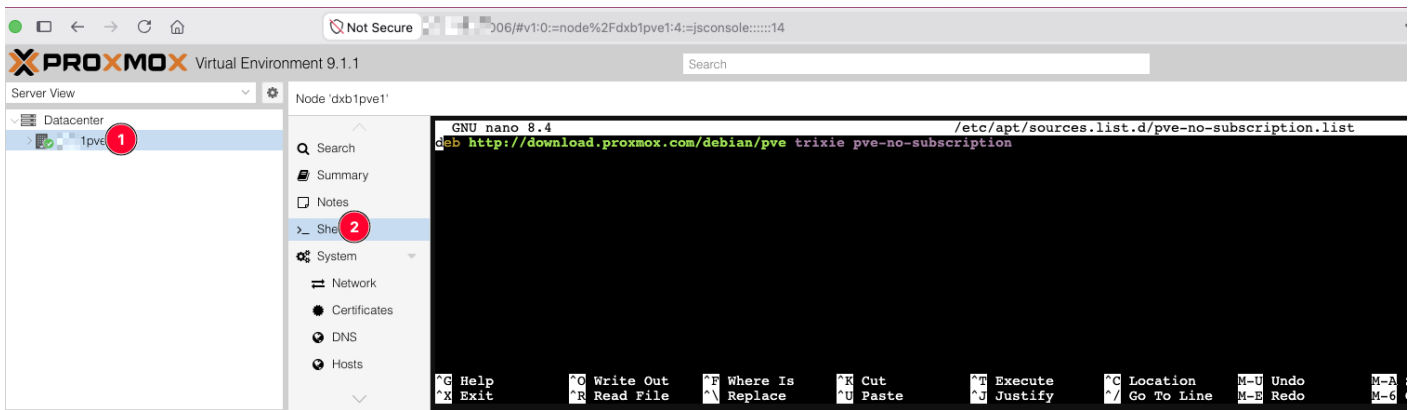
```
nano /etc/apt/sources.list.d/pve-no-subscription.list
```

repos

```
# for Debian GNU/Linux 13 (trixie)  
deb http://download.proxmox.com/debian/pve trixie pve-no-subscription
```

close editor, confirm changes (save)

CTRL+X, y



Adjust Debian repos

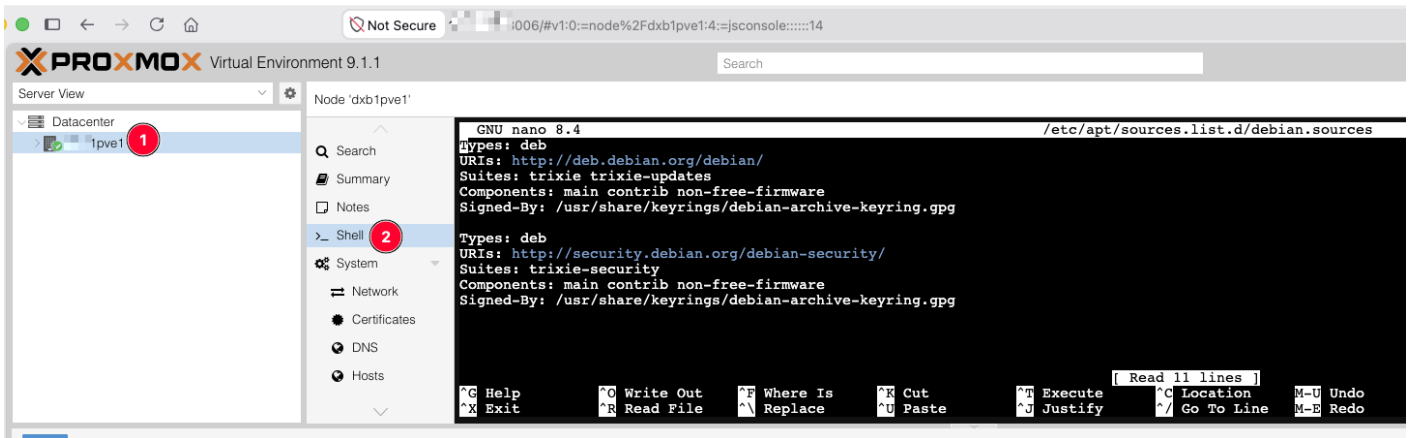
```
nano /etc/apt/sources.list.d/debian.sources
```

verify repos

```
#  
# for Debian GNU/Linux 13 (trixie)  
#  
  
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
```

Close editor, save

CTRL+X, y



Verify that repositories declared properly

apt policy

```
root@omi5pve1:~# apt policy
Package files:
100 /var/lib/dpkg/status
release a=now
500 http://download.proxmox.com/debian/pve trixie/pve-no-subscription amd64 Packages
release o=Proxmox,a=stable,n=trixie,l=Proxmox Debian Repository,c=pve-no-subscription,b=amd64
origin download.proxmox.com
500 http://security.debian.org/debian-security trixie-security/non-free-firmware amd64 Packages
release v=13,o=Debian,a=stable-security,n=trixie-security,l=Debian-Security,c=non-free-firmware,b=amd64
origin security.debian.org
500 http://security.debian.org/debian-security trixie-security/main amd64 Packages
release v=13,o=Debian,a=stable-security,n=trixie-security,l=Debian-Security,c=main,b=amd64
origin security.debian.org
500 http://deb.debian.org/debian trixie-updates/main amd64 Packages
release v=13-updates,o=Debian,a=stable-updates,n=trixie-updates,l=Debian,c=main,b=amd64
origin deb.debian.org
500 http://deb.debian.org/debian trixie/non-free-firmware amd64 Packages
release v=13.4,o=Debian,a=stable,n=trixie,l=Debian,c=non-free-firmware,b=amd64
origin deb.debian.org
500 http://deb.debian.org/debian trixie/contrib amd64 Packages
release v=13.4,o=Debian,a=stable,n=trixie,l=Debian,c=contrib,b=amd64
origin deb.debian.org
500 http://deb.debian.org/debian trixie/main amd64 Packages
release v=13.4,o=Debian,a=stable,n=trixie,l=Debian,c=main,b=amd64
origin deb.debian.org
500 http://security.debian.org/debian-security bookworm-security/non-free-firmware amd64 Packages
release v=12,o=Debian,a=oldstable-security,n=bookworm-security,l=Debian-Security,c=non-free-firmware,b=amd64
origin security.debian.org
500 http://security.debian.org/debian-security bookworm-security/contrib amd64 Packages
release v=12,o=Debian,a=oldstable-security,n=bookworm-security,l=Debian-Security,c=contrib,b=amd64
origin security.debian.org
500 http://security.debian.org/debian-security bookworm-security/main amd64 Packages
release v=12,o=Debian,a=oldstable-security,n=bookworm-security,l=Debian-Security,c=main,b=amd64
origin security.debian.org
500 http://deb.debian.org/debian bookworm-updates/main amd64 Packages
release v=12-updates,o=Debian,a=oldstable-updates,n=bookworm-updates,l=Debian,c=main,b=amd64
origin deb.debian.org
500 http://deb.debian.org/debian bookworm/non-free-firmware amd64 Packages
release v=12.13,o=Debian,a=oldstable,n=bookworm,l=Debian,c=non-free-firmware,b=amd64
origin deb.debian.org
500 http://deb.debian.org/debian bookworm/contrib amd64 Packages
release v=12.13,o=Debian,a=oldstable,n=bookworm,l=Debian,c=contrib,b=amd64
origin deb.debian.org
500 http://deb.debian.org/debian bookworm/main amd64 Packages
release v=12.13,o=Debian,a=oldstable,n=bookworm,l=Debian,c=main,b=amd64
origin deb.debian.org
Pinned packages:
root@omi5pve1:~#
```

another one:

```
root@om5pvel:~# nano /etc/apt/sources.list.d/debian.sources
root@om5pvel:~# apt policy
Package files:
100 /var/lib/dpkg/status
   release a=now
500 http://security.debian.org/debian-security trixie-security/non-free-firmware amd64 Packages
   release v=13,o=Debian,a=stable-security,n=trixie-security,l=Debian-Security,c=non-free-firmware,b=amd64
   origin security.debian.org
500 http://security.debian.org/debian-security trixie-security/main amd64 Packages
   release v=13,o=Debian,a=stable-security,n=trixie-security,l=Debian-Security,c=main,b=amd64
   origin security.debian.org
500 http://deb.debian.org/debian trixie-updates/main amd64 Packages
   release v=13-updates,o=Debian,a=stable-updates,n=trixie-updates,l=Debian,c=main,b=amd64
   origin deb.debian.org
500 http://deb.debian.org/debian trixie/non-free-firmware amd64 Packages
   release v=13.3,o=Debian,a=stable,n=trixie,l=Debian,c=non-free-firmware,b=amd64
   origin deb.debian.org
500 http://deb.debian.org/debian trixie/contrib amd64 Packages
   release v=13.3,o=Debian,a=stable,n=trixie,l=Debian,c=contrib,b=amd64
   origin deb.debian.org
500 http://deb.debian.org/debian trixie/main amd64 Packages
   release v=13.3,o=Debian,a=stable,n=trixie,l=Debian,c=main,b=amd64
   origin deb.debian.org
Pinned packages:
```

Do APT update

apt update

```
root@om5pvel:~# apt update
Get:1 http://security.debian.org/debian-security bookworm-security InRelease [48.0 kB]
Hit:2 http://security.debian.org/debian-security trixie-security InRelease
Get:3 http://security.debian.org/debian-security bookworm-security/main amd64 Packages [294 kB]
Get:4 http://download.proxmox.com/debian/pve trixie InRelease [3,534 B]
Get:5 http://download.proxmox.com/debian/pve trixie/pve-no-subscription amd64 Packages [342 kB]
Get:6 http://deb.debian.org/debian bookworm InRelease [151 kB]
Get:7 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Hit:8 http://deb.debian.org/debian trixie InRelease
Get:9 http://deb.debian.org/debian trixie-updates InRelease [47.3 kB]
Get:10 http://deb.debian.org/debian bookworm/main amd64 Packages [8,792 kB]
Get:11 http://security.debian.org/debian-security bookworm-security/main Translation-en [179 kB]
Get:12 http://security.debian.org/debian-security bookworm-security/contrib amd64 Packages [896 B]
Get:13 http://security.debian.org/debian-security bookworm-security/contrib Translation-en [652 B]
Get:14 http://security.debian.org/debian-security bookworm-security/non-free-firmware amd64 Packages [688 B]
Get:15 http://security.debian.org/debian-security bookworm-security/non-free-firmware Translation-en [472 B]
Get:16 http://deb.debian.org/debian bookworm/main Translation-en [6,108 kB]
Get:17 http://deb.debian.org/debian bookworm/contrib amd64 Packages [53.5 kB]
Get:18 http://deb.debian.org/debian bookworm/contrib Translation-en [48.4 kB]
Get:19 http://deb.debian.org/debian bookworm/non-free-firmware amd64 Packages [6,368 B]
Get:20 http://deb.debian.org/debian bookworm/non-free-firmware Translation-en [20.9 kB]
Get:21 http://deb.debian.org/debian bookworm-updates/main amd64 Packages [6,924 B]
Get:22 http://deb.debian.org/debian bookworm-updates/main Translation-en [5,448 B]
Fetched 16.2 MB in 1min 4s (251 kB/s)
53 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

List packages ready for update, most important that there are new packages from PVE repo.

apt list --upgradable

```
root@omi5pve1:~# apt list --upgradable
corosync/stable 3.1.10-pve2 amd64 [upgradable from: 3.1.9-pve2]
frr-pythontools/stable 10.4.1-1+pve1 all [upgradable from: 10.3.1-1+pve4]
frr/stable 10.4.1-1+pve1 amd64 [upgradable from: 10.3.1-1+pve4]
ifupdown2/stable 3.3.0-1+pmx12 all [upgradable from: 3.3.0-1+pmx11]
inetutils-telnet/stable-security 2:2.6-3+deb13u3 amd64 [upgradable from: 2:2.6-3+deb13u2]
libcfg7/stable 3.1.10-pve2 amd64 [upgradable from: 3.1.9-pve2]
libcm4/stable 3.1.10-pve2 amd64 [upgradable from: 3.1.9-pve2]
libcorosync-common4/stable 3.1.10-pve2 amd64 [upgradable from: 3.1.9-pve2]
libcp4/stable 3.1.10-pve2 amd64 [upgradable from: 3.1.9-pve2]
libnvpair3linux/stable 2.4.1-pve1 amd64 [upgradable from: 2.3.4-pve1]
libpnl6-16t64/stable-security 1.6.48-1+deb13u4 amd64 [upgradable from: 1.6.48-1+deb13u3]
libproxmox-acme-perl/stable 1.7.1 all [upgradable from: 1.7.0]
libproxmox-acme-plugins/stable 1.7.1 all [upgradable from: 1.7.0]
libproxmox-backup-gemu0/stable 2.0.2 amd64 [upgradable from: 2.0.1]
libpve-access-control/stable 9.0.6 all [upgradable from: 9.0.4]
libpve-cluster-api-perl/stable 9.1.1 all [upgradable from: 9.0.7]
libpve-cluster-perl/stable 9.1.1 all [upgradable from: 9.0.7]
libpve-common-perl/stable 9.1.9 all [upgradable from: 9.0.15]
libpve-network-api-perl/stable 1.2.5 all [upgradable from: 1.2.3]
libpve-network-perl/stable 1.2.5 all [upgradable from: 1.2.3]
libpve-notify-perl/stable 9.1.1 all [upgradable from: 9.0.7]
libpve-rs-perl/stable 0.11.4 amd64 [upgradable from: 0.11.3]
libpve-storage-perl/stable 9.1.1 all [upgradable from: 9.0.18]
libquorum5/stable 3.1.10-pve2 amd64 [upgradable from: 3.1.9-pve2]
libssl3t64/stable-security 3.5.5-1+deb13u2 amd64 [upgradable from: 3.5.5-1+deb13u1]
libutil3linux/stable 2.4.1-pve1 amd64 [upgradable from: 2.3.4-pve1]
libvotegorum8/stable 3.1.10-pve2 amd64 [upgradable from: 3.1.9-pve2]
lxc-pve/stable 6.0.5-4 amd64 [upgradable from: 6.0.5-3]
openssh-client/stable-security 1:10.0p1-7+deb13u2 amd64 [upgradable from: 1:10.0p1-7+deb13u1]
openssh-server/stable-security 1:10.0p1-7+deb13u2 amd64 [upgradable from: 1:10.0p1-7+deb13u1]
openssh-sftp-server/stable-security 1:10.0p1-7+deb13u2 amd64 [upgradable from: 1:10.0p1-7+deb13u1]
openssl-provider-legacy/stable-security 3.5.5-1+deb13u2 amd64 [upgradable from: 3.5.5-1+deb13u1]
openssl/stable-security 3.5.5-1+deb13u2 amd64 [upgradable from: 3.5.5-1+deb13u1]
proxmox-backup-client/stable 4.1.5-1 amd64 [upgradable from: 4.0.20-1]
proxmox-backup-file-restore/stable 4.1.5-1 amd64 [upgradable from: 4.0.20-1]
proxmox-default-kernel/stable 2.0.2 all [upgradable from: 2.0.1]
proxmox-kernel-6.17/stable 6.17.13-2 all [upgradable from: 6.17.2-1]
proxmox-widget-toolkit/stable 5.1.9 all [upgradable from: 5.1.2]
pve-cluster/stable 9.1.1 amd64 [upgradable from: 9.0.7]
pve-container/stable 6.1.2 all [upgradable from: 6.0.18]
pve-docs/stable 9.1.2 all [upgradable from: 9.1.0]
pve-firmware/stable 3.18-2 all [upgradable from: 3.17-2]
pve-ha-manager/stable 5.1.3 amd64 [upgradable from: 5.0.8]
pve-ii8n/stable 3.7.0 all [upgradable from: 3.6.2]
pve-manager/stable 9.1.7 all [upgradable from: 9.1.1]
pve-nvidia-vgpu-helper/stable 0.3.1 all [upgradable from: 0.2.0]
pve-gemu-kvm/stable 10.1.2-7 amd64 [upgradable from: 10.1.2-3]
pve-yew-mobile-ii8n/stable 3.7.0 all [upgradable from: 3.6.2]
gemu-server/stable 9.1.6 amd64 [upgradable from: 9.0.30]
ssh/stable-security 1:10.0p1-7+deb13u2 all [upgradable from: 1:10.0p1-7+deb13u1]
zfs-initramfs/stable 2.4.1-pve1 all [upgradable from: 2.3.4-pve1]
zfs-zed/stable 2.4.1-pve1 amd64 [upgradable from: 2.3.4-pve1]
zfsutils-linux/stable 2.4.1-pve1 amd64 [upgradable from: 2.3.4-pve1]
root@omi5pve1:~#
```

another one:

```
root@stulpve1:~# apt list --upgradable
frr-pythontools/stable 10.6.1-1+pve3 all [upgradable from: 10.6.1-1+pve2]
frr/stable 10.6.1-1+pve3 amd64 [upgradable from: 10.6.1-1+pve2]
libjs-extjs/stable 7.0.0-7 all [upgradable from: 7.0.0-5]
libpve-common-perl/stable 9.2.1 all [upgradable from: 9.1.20]
libpve-storage-perl/stable 9.1.8 all [upgradable from: 9.1.7]
proxmox-kernel-7.0/stable 7.0.14-11 amd64 [upgradable from: 7.0.14-8]
proxmox-widget-toolkit/stable 5.2.7 all [upgradable from: 5.2.6]
pve-container/stable 6.1.13 all [upgradable from: 6.1.12]
pve-docs/stable 9.2.4 all [upgradable from: 9.2.3]
pve-edk2-firmware-legacy/stable 4.2025.05-3 all [upgradable from: 4.2025.05-2]
pve-edk2-firmware-ovmf/stable 4.2025.05-3 all [upgradable from: 4.2025.05-2]
pve-edk2-firmware/stable 4.2025.05-3 all [upgradable from: 4.2025.05-2]
pve-lln/stable 3.10.0 all [upgradable from: 3.9.0]
pve-manager/stable 9.2.10 all [upgradable from: 9.2.6]
pve-qemu-kvm/stable 11.0.3-2 amd64 [upgradable from: 11.0.3-1]
pve-yew-mobile-gui/stable 0.8.0 amd64 [upgradable from: 0.7.0]
pve-yew-mobile-lln/stable 3.10.0 all [upgradable from: 3.9.0]
qemu-server/stable 9.2.5 amd64 [upgradable from: 9.2.1]
root@stulpve1:~#
```

Perform upgrade (when needed)

apt upgrade

```
root@stulpve1:~# apt upgrade
Upgrading:
corosync                libnvpair3linux          libpve-network-api-perl  lxc-pve                  proxmox-kernel-6.17      pve-nvidia-vgpu-helper
frr                     libpng16-16t64           libpve-network-perl     openssh-client           proxmox-widget-toolkit  pve-qemu-kvm
frr-pythontools         libproxmox-acme-perl     libpve-notify-perl     openssh-server           pve-cluster             pve-yew-mobile-lln
ifupdown2              libproxmox-acme-plugins  libpve-rs-perl         openssh-sftp-server      pve-container           qemu-server
inetutils-telnet       libproxmox-backup-gemu0  libpve-storage-perl    openssl                 pve-docs                ssh
libcfg7                libpve-access-control    libquorum5             openssl-provider-legacy  pve-firmware            pve-ha-manager
libcmmap4              libpve-cluster-api-perl  libssl3t64             proxmox-backup-client     pve-lln                 pve-manager
libcorosync-common4    libpve-cluster-perl     libutil3linux          proxmox-backup-file-restore
libcpq4                libpve-common-perl       libvotequorum8         proxmox-default-kernel

Installing dependencies:
proxmox-kernel-6.17.13-2-pve-signed

Not upgrading:
zfs-initramfs  zfs-zed  zfsutils-linux

Summary:
Upgrading: 50, Installing: 1, Removing: 0, Not Upgrading: 3
Download size: 426 MB
Space needed: 1,005 MB / 28.2 GB available

Continue? [Y/n]
```

the another one

root@hel3pve1:~# apt upgrade

Upgrading:

base-files	libcurl3t64-gnutls	libpve-common-perl	libzfs7linux	pve-i18n
bind9-dnsutils	libcurl4t64	libpve-guest-common-perl	libzpool7linux	pve-manager
bind9-host	libexpat1	libpve-network-api-perl	login	pve-qemu-kvm
bind9-libs	libfdisk1	libpve-network-perl	mesa-libgallium	pve-xtermjs
bsdextrautils	libgbm1	libpve-notify-perl	mount	pve-yew-mobile-gui
bsdutils	libgcrpt20	libpve-storage-perl	novnc-pve	pve-yew-mobile-i18n
chrony	libgraphite2-3	libpython3.13-minimal	openssl	python3-idna
corosync	libgssapi-krb5-2	libpython3.13-stdlib	openssl-provider-legacy	python3-urllib3
curl	libhtml-parser-perl	libquorum5	postfix	python3.13
dhcpcd-base	libhttp-daemon-perl	librabbitmq4	proxmox-backup-client	python3.13-minimal
dimngr	libjs-extjs	libslirp0	proxmox-backup-file-restore	qemu-server
eject	libk5crypto3	libsmartcols1	proxmox-enterprise-support-keyring	rsync
fdisk	libknet1t64	libsmclient0	proxmox-kernel-7.0	samba-common
frr	libkrb5-3	libssh2-1t64	proxmox-kernel-helper	samba-libs
frr-pythontools	libkrb5support0	libssl3t64	proxmox-mini-journalreader	shim-helpers-amd64-signed
gpg	liblastlog2-2	libtalloc2	proxmox-widget-toolkit	shim-signed
gpg-agent	libldb2	libtasn1-6	pve-cluster	shim-signed-common
gpgconf	liblma5	libtdb1	pve-container	shim-unsigned
gpgsm	libmount1	libtevent0t64	pve-docs	smbclient
krb5-locales	libnozzle1t64	libunbound8	pve-edk2-firmware	util-linux
libblkid1	libnss3	libuuid1	pve-edk2-firmware-aarch64	util-linux-extra
libbytes-random-secure-perl	libnvpair3linux	libuutil3linux	pve-edk2-firmware-legacy	xz-utils
libcfg7	libproxmox-acme-perl	libvotequorum8	pve-edk2-firmware-ovmf	zfs-initramfs
libcmmap4	libproxmox-acme-plugins	libwbclient0	pve-firewall	zfs-zed
libcorosync-common4	libpve-cluster-api-perl	libxml-libxml-perl	pve-firmware	zfsutils-linux
libcpqg4	libpve-cluster-perl	libxml2	pve-ha-manager	

Installing dependencies:

proxmox-kernel-7.0.14-12-pve-signed

Summary:

Upgrading: 129, Installing: 1, Removing: 0, Not Upgrading: 0

Download size: 496 MB

Space needed: 1,105 MB / 27.5 GB available

Continue? [Y/n]

[0] 0:apt+

"hel3pve1" 15:06 20-Aug-20

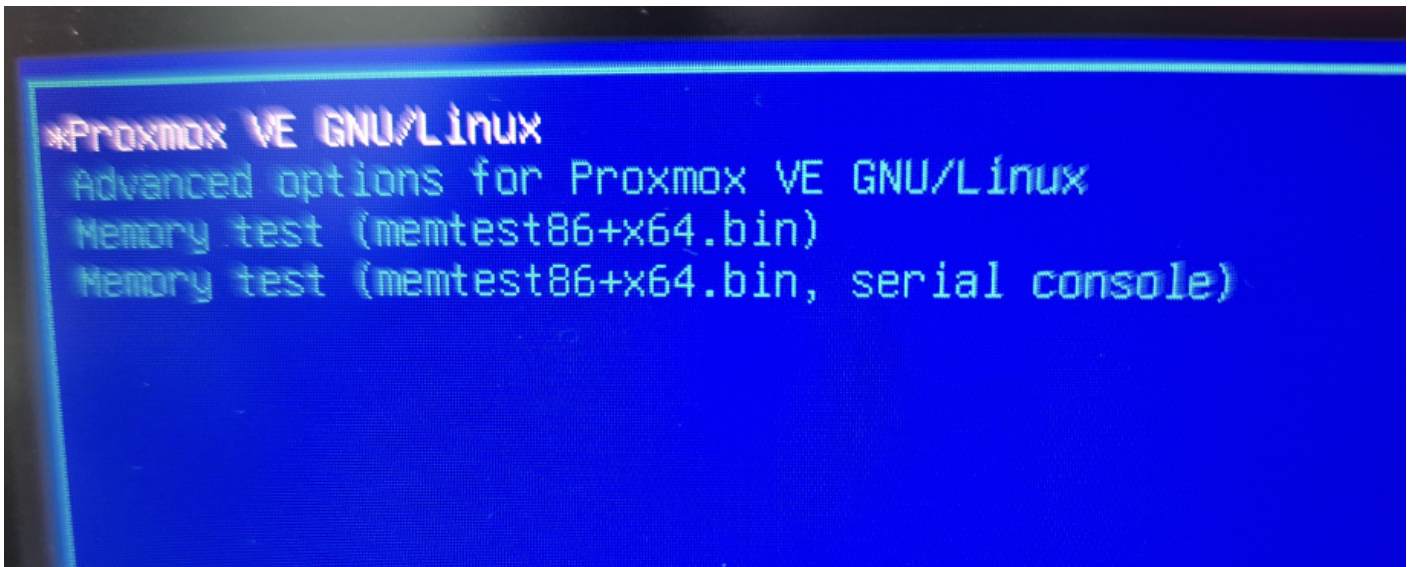
Proxmox VE root pass reset (break the glass)

If you forgot the password, it is possible to change password from the machine's console (physical access required):

Reset root password inside rescue shell:

Boot the server.

In GRUB find `Proxmox VE GNU/Linux` and press `e` to edit boot entry.



Config file will open, Find the line starting with `linux` (to load Linux kernel)

Add at the end of the that same line (not to the end of the file):

```
init=/bin/bash
```

```
setparams 'Proxmox VE GNU/Linux'

load_video
insmod gzio
if [ x$grub_platform = xxen ]; then insmod xzio; insmod lzopio; fi
insmod part_gpt
insmod lvm
insmod ext2
set root='lvmid/rS00NQ-LUcx-Vp4...-q02z-8GEFEh'
if [ x$feature_platform_search_hint = xy ]; then
  search --no-floppy --fs-uuid --set=root --hint='lvmid/rS00NQ-LUcx-Vp4...-q02z-8GEFEh'
else
  search --no-floppy --fs-uuid --set=root 079...ic449
fi
echo 'Loading Linux 6.17.2-1-pve ...'
linux /boot/vmlinuz-6.17.2-1-pve root=/dev/mapper/pve-root ro quiet init=/bin/bash_
echo 'Loading initial ramdisk ...'
initrd /boot/initrd.img-6.17.2-1-pve
```

Boot with

CTRL+X

Remount filesystem in read-write mode:

mount -o remount,rw /

```
Found volume group "pve" using metadata t
3 logical volume(s) in volume group "pve"
/dev/mapper/pve-root: recovering journal
/dev/mapper/pve-root: clean, 60422/4538368 f
bash: cannot set terminal process group (-1)
bash: no job control in this shell
root@(none):/# mount -o remount,rw /
```

Check the disk (optionally) to verify the disk is re-mounted:

df -hT

Change root's password:

passwd

```
proc on /proc type proc (rw,nosuid,nodev,noex
udev on /dev type devtmpfs (rw,nosuid,relative
ode=755,inode64)
devpts on /dev/pts type devpts (rw,nosuid,noex
e=000)
tmpfs on /run type tmpfs (rw,nosuid,nodev,noex
,inode64)
/dev/mapper/pve-root on / type ext4 (rw,relati
root@(none):/# df -hT
Filesystem                Type      Size  Used Avail
udev                      devtmpfs  7.8G   0    7.8G
tmpfs                     tmpfs     1.6G 616K  1.6G
/dev/mapper/pve-root ext4      68G   8.5G   56G
root@(none):/# passwd
New password:
Retype new password:
passwd: password updated successfully
root@(none):/# _
```

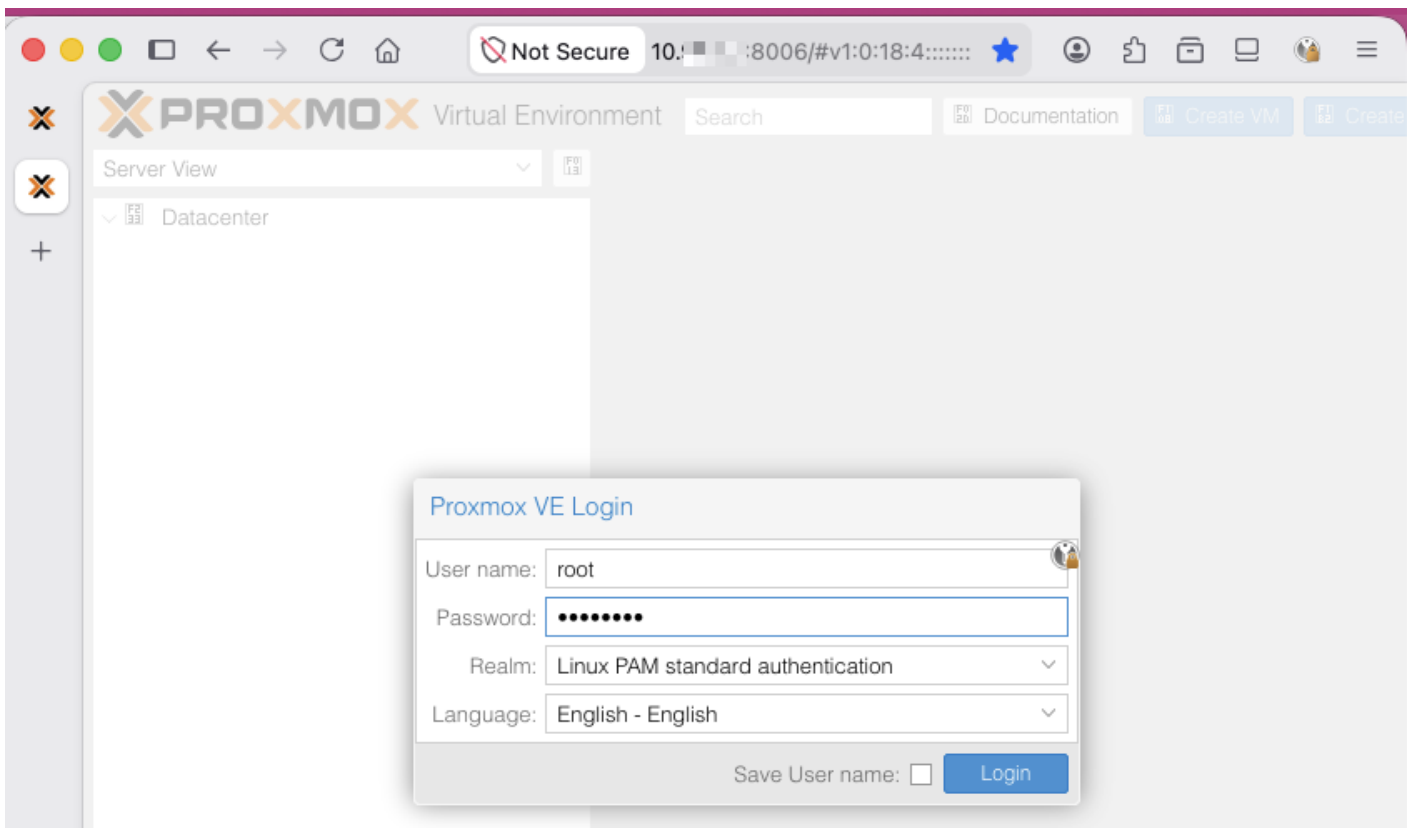
Reboot

```
reboot -f
```

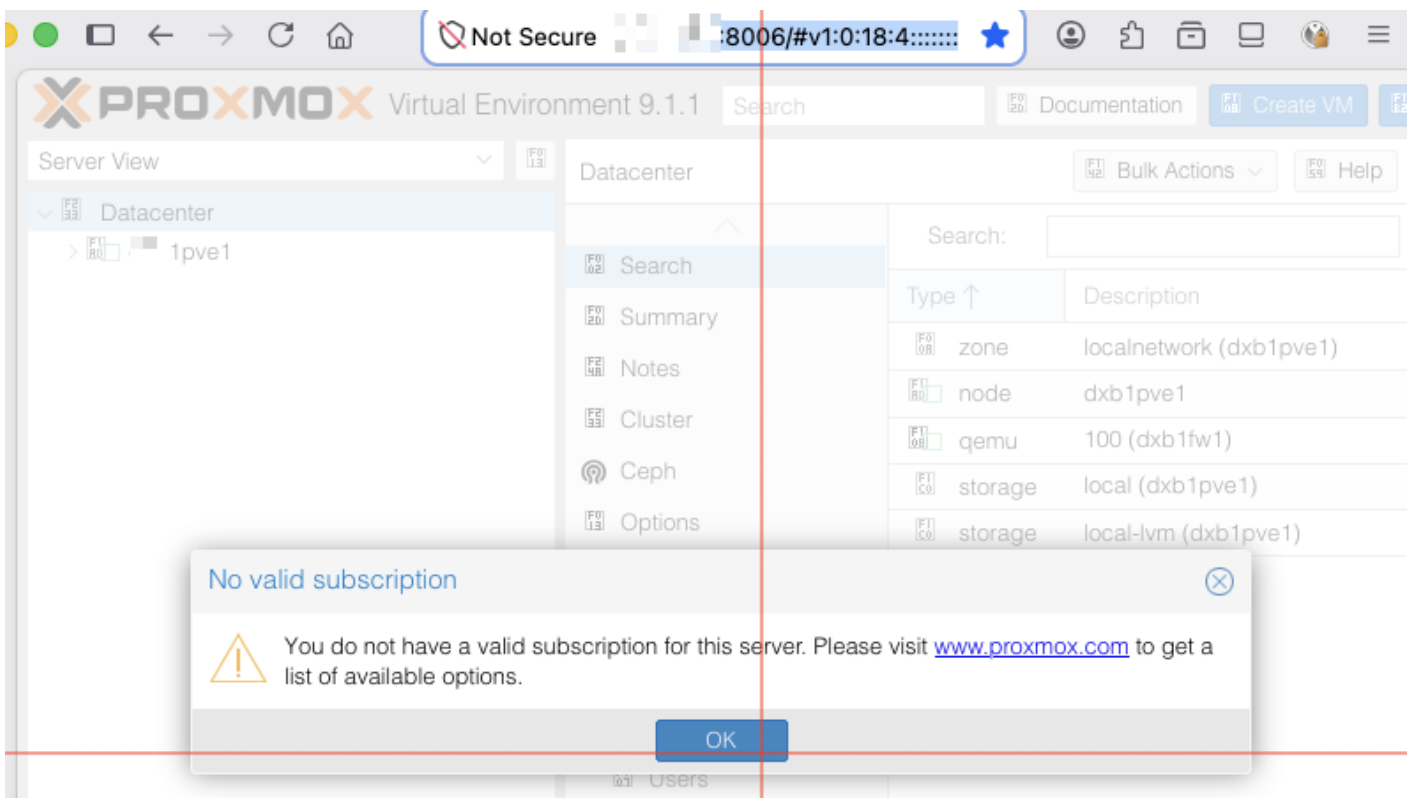
```
root@(none):/#
root@(none):/#
root@(none):/#
root@(none):/# reboot -f_
```

Login with new pass, usually to port 8006

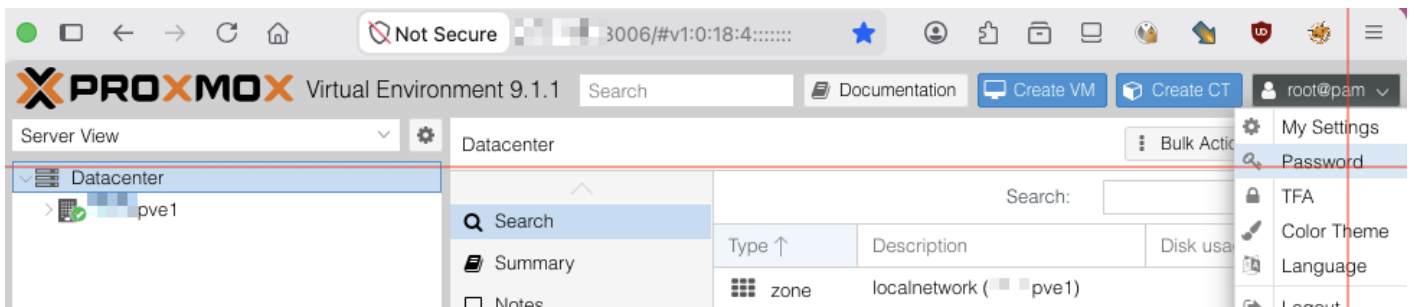
```
https://nn.nn.nn.nn:8006/
```



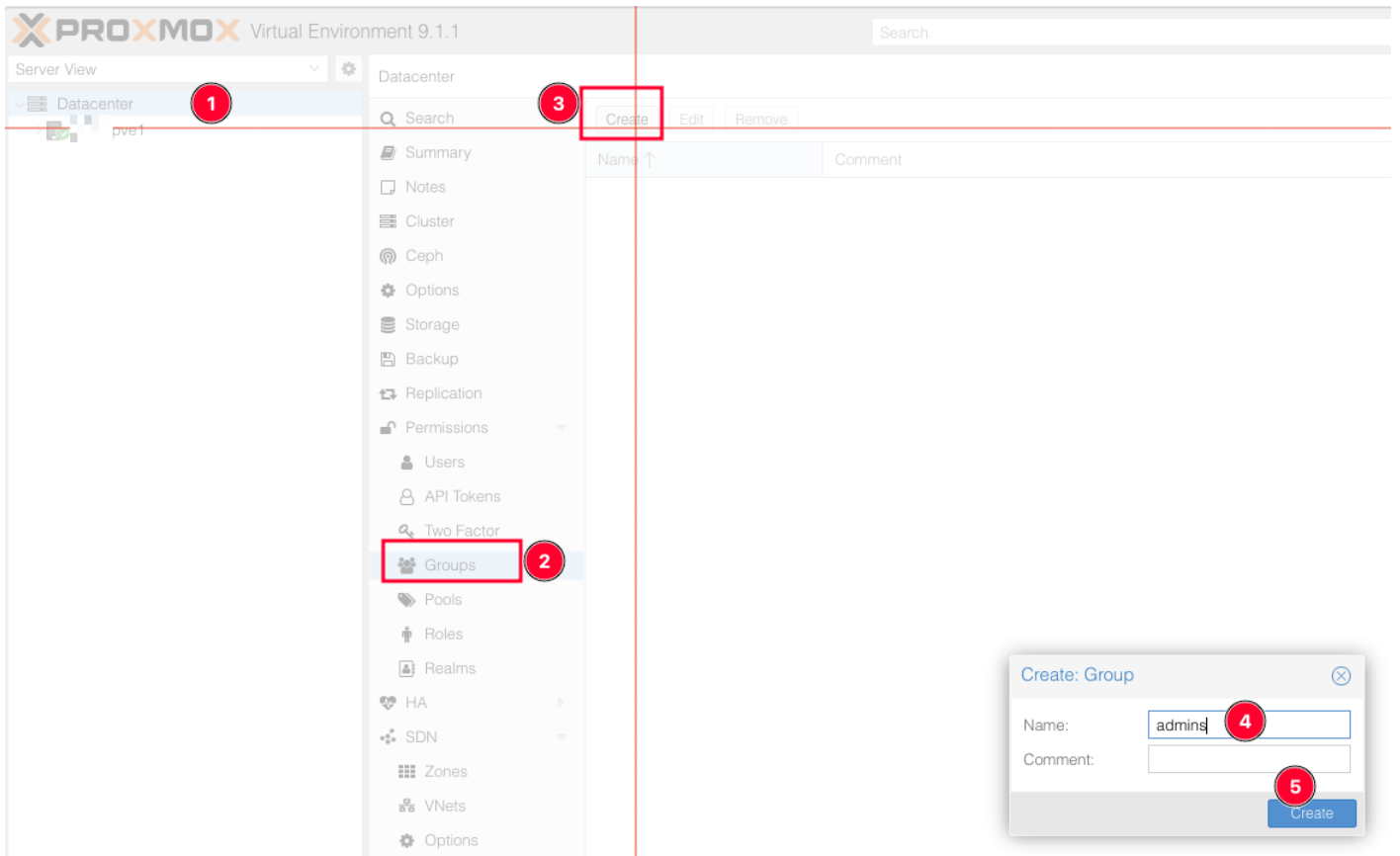
and press [Login]



Change password (top-right, under username and 'Password')



Create admins user group



Create another admin user, add to admin user group created above

PROXMOX Virtual Environment 9.1.1

Server View

Datacenter

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Add User

User name: anton

Realm: Linux PAM standard aut

Group: admins

Enabled: ☒

Comment:

Advanced ☐ Add

User name ↑	Realm ↑	Enabled	Expire	Name	TFA	Groups
root	pam	Yes	never		No	

Define user's password

PROXMOX Virtual Environment 9.1.1

Server View

Datacenter

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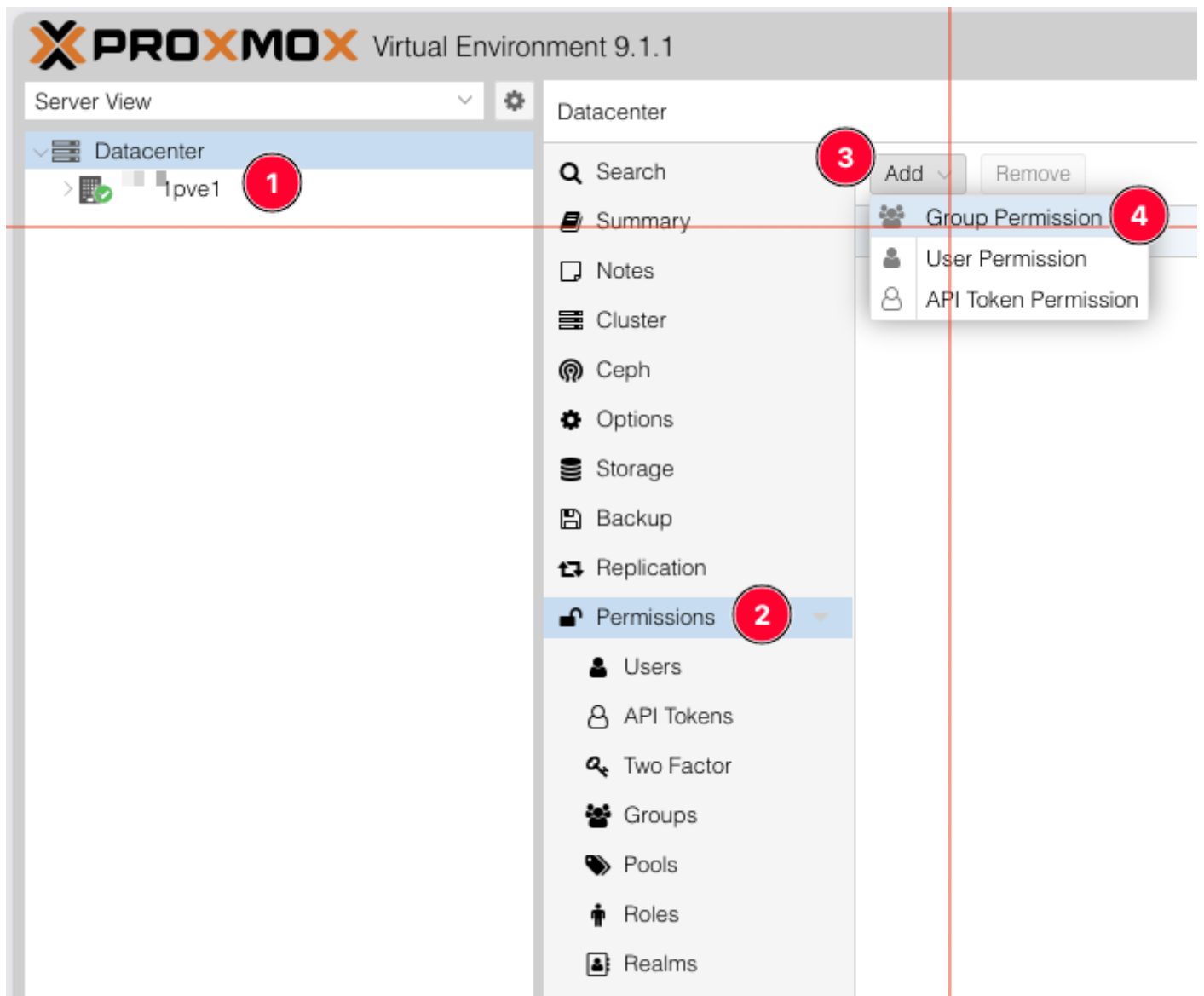
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Define permissions

Add: Group Permission ⓧ

Path:

Group:

Role:

Propagate: ☒

🔍 Help Add