

# On existing Debian

Install Proxmox on ready Debian system. Benefits:

- unusual disk setup (i.e. not using ZFS for raid, only generic MD or LVM raid)
- for lazy people: running system with remote access only

## Setup repositories

[Package Repositories](#) Detailed step-by-step instucion [wiki](#)

It is very important (to SSL key generation), that hostname is resolved do IP address of device:

```
hostname --ip-address  
192.168.15.77 # should return your IP address here
```

```
echo 'deb http://download.proxmox.com/debian/pve buster pve-no-subscription'  
> /etc/apt/sources.list.d/pve-no-sub.list
```

```
wget http://download.proxmox.com/debian/proxmox-ve-release-6.x.gpg -O  
/etc/apt/trusted.gpg.d/proxmox-ve-release-6.x.gpg apt-get update apt-get remove network-manager  
apt-get install ifupdown2 open-iscsi ksmtuned apt-get remove ntp systemctl enable --now systemd-  
timesyncd apt-get install proxmox-ve apt-get install pve-headers
```

To avoid GFX issues disable modeset:

[/etc/default/grub](#)

```
GRUB_CMDLINE_LINUX_DEFAULT="mitigations=off panic=30 nomodeset"
```

Reboot system. System will boot with default Debian kernel, because Buster Backports kernel is newer than Proxmox one. With default Debian kernel there is no ZFS support, and also Docker engine cannot work because of some apparmor issues.

To try to boor PVE kernel once:

[/etc/default/grub](#)

```
GRUB_DEFAULT=saved  
# Comment or disable:  
# GRUB_SAVEDEFAULT=true
```

```
update-grub  
# get menu ids:  
egrep -i "menuentry '|submenu '" /boot/grub/grub.cfg
```

```
# Set grub env using chosen ids. For submenu use '>'
grub-set-default 'gnulinux-simple-21b9a8a1-48e8-4c4d-8420-6c97870f2702'
grub-reboot 'gnulinux-advanced-21b9a8a1-48e8-4c4d-8420-6c97870f2702>gnulinux-5.3.18-3-pve-advanced-21b9a8a1-48e8-4c4d-8420-6c97870f2702'
```

If everything works well, remove Debian kernel.

```
apt remove linux-image-amd64 'linux-image-4.19*' 'linux-image-5.4*'
update-grub
grub-set-default 0
```

## issues

### pveproxy: failed to load local private key

Proxmox was installed with incorrect /etc/hosts configuration. After fixing it still shows errors in journal:

```
pveproxy[26742]: /etc/pve/local/pve-ssl.key: failed to load local private
key (key_file or key) at /usr/share/perl5/PVE/APIServer/AnyEvent.pm line
1727.
pveproxy[26743]: /etc/pve/local/pve-ssl.key: failed to load local private
key (key_file or key) at /usr/share/perl5/PVE/APIServer/AnyEvent.pm line
1727.
```

```
journalctl -u pve-cluster
```

```
systemd[1]: Stopped The Proxmox VE cluster filesystem.
systemd[1]: Starting The Proxmox VE cluster filesystem...
pmxcfs[2398]: [main] crit: Unable to get local IP address
pmxcfs[2398]: [main] crit: Unable to get local IP address
systemd[1]: pve-cluster.service: Control process exited, code=exited,
status=255/EXCEPTION
systemd[1]: pve-cluster.service: Failed with result 'exit-code'.
systemd[1]: Failed to start The Proxmox VE cluster filesystem.
```

Reason cluster FS on /etc/pve was not started, symlinks to nodes points to nowhere:

```
/etc/pve# tree
.
├── local -> nodes/host281
├── lxc -> nodes/host281/lxc
├── openvz -> nodes/host281/openvz
└── qemu-server -> nodes/host281/qemu-server
```

Reboot device

## local-zfs

Missing local-zfs.

From:

<https://niziak.spox.org/wiki/> - **niziak.spox.org**

Permanent link:

[https://niziak.spox.org/wiki/vm:proxmox:on\\_debian](https://niziak.spox.org/wiki/vm:proxmox:on_debian)

Last update: **2020/09/16 07:39**

