

Base Setup

OS installation

Download PI OS image and follow the image installation steps.

Enable ssh

In order to be able to remote ssh into the server edit the sshd configuration file. And set the following parameters:

```
# nano /etc/ssh/sshd_config
-----

# Authentication:

LoginGraceTime 2m
AllowUsers root pi
PermitRootLogin yes
StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

-----

# systemctl restart ssh
```

Networking

```
# nano /etc/network/interfaces
-----

auto lo eth0
iface lo inet loopback

#iface eth0 inet manual
iface eth0 inet static
address 192.168.178.xx
netmask 255.255.255.0
network 192.168.178.0
broadcast 192.168.178.255
gateway 192.168.178.1
```

SSD optimization

See chapter [SSD Optimization](#)

Locale

For setting up locales see section [Locale](#). On our Home server the configuration should be as follows:

```
# locale -a
-----
C
C.UTF-8
dutch
en_US.utf8
nl_NL
nl_NL@euro
nl_NL.iso88591
nl_NL.iso885915@euro
nl_NL.utf8
POSIX

# cat /etc/default/locale
-----

# File generated by update-locale
LANG=en_US.UTF-8
LANGUAGE="en_US:en"
LC_TIME="nl_NL.UTF-8"
LC_NUMERIC="nl_NL.UTF-8"
LC_MONETARY="nl_NL.UTF-8"
LC_PAPER="nl_NL.UTF-8"
```

Power Saving

- Disable the blinking cursor: [Cursor blink off](#)
- Configure PowerTop: [Powertop](#)
- Tune ASPM: [ASPM on Linux](#)

For ASPM enabling the following lines are added to the powersave service. However no noticeable difference are measured:

```
# Enable L1 and L0s on PCIe Intel Bridge and Realtek network adapter
# Does not seem to differ anything
setpci -s 00:1c.0 0x50.B=0x43
setpci -s 01:00.0 0x80.B=0x43
```




Install frequently used packages

```
# apt-get install sudo
# apt-get install iputils-ping
# apt-get install nano
# apt-get install less
```

Container prerequisites

Be aware of the following prerequisites for some containers:

- [Mailserver - Redis](#)
- [Prerequisites for Fileserver](#)
- [Prerequisites for Webserver](#)

lxc-menu

Create the lxc-menu in /usr/local/bin

- [LXC-Menu](#)

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<https://wiki.oscardegroot.nl/> - **HomeWiki**

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Last update: **2023/10/19 15:06**

