



Naples Linux Quickstart Guide

Version 1.1

Install Naples

Follow all standard safety and electro-static procedures for installing Naples into the server.

Upgrade Considerations

When upgrading from a previous installation of Pensando drivers and firmware, **ALWAYS** use the **CURRENT** device-drivers and “penctl” to upgrade to the **newer** version of firmware.

Download and Un-tar the Release Distribution

Use ‘wget’ to download, based on the URL given by a Pensando Contact.

Use ‘tar xzvf’ to un-tar the release distribution, which should have the following general directory structure:

```
./PNSO/  
./PNSO/drivers/  
./PNSO/drivers/drivers-linux.tar.xz  
./PNSO/fw/  
./PNSO/fw/naples_fw_0.6.0-E.tar  
./PNSO/bin/  
./PNSO/bin/penctl  
./PNSO/docs/  
./PNSO/docs/Naples_Linux_Driver_Guide.pdf
```

Build and Install Linux Drivers

```
cd ./PNSO/drivers  
xz -d drivers-linux.tar.xz  
tar xvf drivers-linux.tar  
cd drivers-linux/drivers  
make  
insmod eth/ionic/ionic.ko
```

Take the appropriate action to ensure that IONIC drivers are loaded after each reboot.

Ex:

```
# cat <<EOF > /etc/sysconfig/modules/ionic.modules  
#!/bin/sh  
insmod [...]drivers-linux/drivers/eth/ionic/ionic.ko  
EOF  
chmod 755 /etc/sysconfig/modules/ionic.modules
```

Set the Naples Management Interface

```
PCIDEV=`lspci -d 1dd8:1004 | awk '{print $1}'`  
MNIC=`lshw -c network -businfo | grep $PCIDEV | awk '{print $2}'`  
ifconfig $MNIC 169.254.0.2/24  
export NAPLES_URL=http://169.254.0.1
```

Take appropriate action to ensure that the IP Address and the NAPLES_URL environment variable is made persistent across login sessions and reboots. For the IP Address, follow standard practices (i.e. “/etc/sysconfig/network-scripts”). For persisting NAPLES_URL, Ex:

```
echo "export NAPLES_URL=http://169.254.0.1" >> ~/.bashrc
```

Install ‘penctl’

```
cp ./PNSO/bin/penctl.linux /usr/local/bin/penctl
```

Useful ‘penctl’ commands

```
penctl show firmware-version
```

```
penctl show naples
```

Upgrade Firmware

```
penctl system firmware-install -f ./PNSO/fw/naples_fw_<version>.tar
```

Where <version> corresponds to the version for a given release

A system reboot is **required** for the firmware update to take effect.