

Install a Puavo-Bootserver

Résumé

After installing 64bit Ubuntu 14.04 on the bootserver, you just need to install puavo-register and puavo-vpn-client packages from archive.opinsys.fi and register the server with our Puavo server. After that you puavo-vpn-client opens a VPN tunnel to our servers. private-archive.opinsys.fi is located behind the tunnel and it has packages that have our configurations like firewall settings. The VPN tunnel is also needed to synchronise LDAP data from our master server to the bootserver.

Images are located on images.opinsys.fi that accessible only through VPN. We use an rsync script to transfer the images to bootservers.

Step by Step

Basic Install

To install the bootserver, you can use normal Ubuntu (Current Issue: trusty) install CD. The preseeded image that you tried to use has only the following settings:

Partitioning

2G /boot no LVM

30G /, 100G /opt/ltsp/images, 15G /tmp, 30G /var, xxxG /home, swap 16G using LVM

Locale Settings

Whatever you need.

Network Settings

Install bridge-utils

```
# apt-get install bridge-utils
```

Use the following /etc/hosts (adapt hostname!):

```
127.0.0.1    localhost
```

```
10.249.15.254 bootserver.basel.opinsys.fi bootserver
```

```
10.246.133.12 ldap1.opinsys.fi kerberos.opinsys.fi
10.246.133.22 private-archive.opinsys.fi
10.246.133.131 images.opinsys.fi
```

The following lines are desirable for IPv6 capable hosts

```
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

Use this /etc/network/interfaces (adapt inet0):

The loopback network

```
auto lo
iface lo inet loopback
```

The primary network interface

```
auto eth0
iface eth0 inet manual
```

```
auto eth1
iface eth1 inet manual
```

```
auto inet0
iface inet0 inet static
    address 172.16.1.2
    netmask 255.255.255.0
    gateway 172.16.1.1
    dns-nameservers 62.241.198.245 62.241.198.246
    bridge_ports eth0
    bridge_stp off
```

```
bridge_fd 0
bridge_maxwait 0

auto ltsp0
iface ltsp0 inet static
    address 10.249.15.254
    netmask 255.255.240.0
    bridge_ports eth1
    bridge_stp off
    bridge_fd 0
    bridge_maxwait 0
```

```
auto wlan0
iface wlan0 inet static
    address 10.249.239.254
    netmask 255.255.240.0
    bridge_ports none
    bridge_stp off
    bridge_fd 0
    bridge_maxwait 0
```

Register

After installing you can use our repositories to get the packages:

(Adapt issue: precise → trusty)

```
deb http://archive.opinsys.fi/git- trusty main restricted universe multiverse
deb-src http://archive.opinsys.fi/git- trusty main restricted universe multiverse
```

After adding those to your sources, run:

```
sudo apt-get install puavo-client openvpn
sudo puavo-register
```

VPN (this is the old version)

After the registration is done, configure openvpn:

```
----- /etc/openvpn/puavo.conf -----
```

```
client
dev tap
proto tcp-client
remote 217.112.254.9 443

ca /etc/puavo/certs/orgcabundle.
cert /etc/puavo/certs/host.crt
key /etc/puavo/certs/host.key
ns-cert-type server
```

```
verb 3
```

```
comp-lzo
keepalive 10 60
persist-tun
persist-key
up-delay
```

```
-----
```

```
sudo /etc/init.d/openvpn start
```

```
-----
```

Finish

At this point you have a VPN connection to our Puavo servers that is needed for LDAP synchronisation. Once this works, we can go over the rest of the steps.