

Share Directories using AFP

From Gentoo Linux Wiki

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Introduction

Purpose

This tutorial will describe how to get a AFP share up and running on a Gentoo box, so a Mac client can mount the share.

Scope

This only covers how to use AFP over TCP, so AFP over AppleTalk is not covered.

References

- http://www.gentoo-wiki.info/HOWTO_Share_Directories_via_AFP
- <http://netatalk.sourceforge.net/>

Linux Server set-up

```
# emerge -pv net-fs/netatalk
# cd /etc/netatalk
# nano afpd.conf
# nano AppleVolumes.default
# Remove unused services conf files from /etc/avahi/services
# nano /etc/avahi/services/afpd.service
# /etc/init.d/afpd start
# /etc/init.d/avahi-daemon restart
# rc-update add atalk default
# rc-update add avahi-daemon default
```

- as of netatalk 2.2.1-r1, netatalk.conf doesn't exist. uses separate afpd.conf and cnid_metad.conf.
- /etc/init.d/atalk has become /etc/init.d/afpd

afpd.conf

This is the configuration of the AFP daemon. The default config works fine.

AppleVolumes.default

This file describes the network volumes shown on the Mac.

File: /etc/netatalk/AppleVolumes.default

```
/disk1/movies  MOVIES  allow:htpc,mobby options:ro
/disk1/itunes  AUDIO   allow:mobby
/disk1/pictures PICTURES allow:mobby options:ro
```

'htpc' and 'mobby' are users names both existing on the local server and on the apple client.

Advertising the fileshare via Avahi

Avahi is software that implements the Zeroconf networking standard, so your file shares will show up automatically in the Mac client's Finder.

File: /etc/avahi/services/afpd.service

```
<?xml version="1.0" standalone='no'?><!--*-nxml-*-->
<!DOCTYPE service-group SYSTEM "avahi-service.dtd">
<service-group>
<!-- Customize this to get a different name for your server in the Finder. -->
<name replace-wildcards="yes">%h Gentoo AFP Server</name>
<service>
<type>_device-info._tcp</type>
<port>0</port>
<!-- Customize this to get a different icon in the Finder. -->
<txt-record>model=RackMac</txt-record>
</service>
<service>
<type>_afpovertcp._tcp</type>
<port>548</port>
</service>
</service-group>
```

Troubleshooting

For Avahi to work properly, make sure CONFIG_IP_MULTICAST=y is enabled in the kernel configuration. It is located under Networking Support/Networking Options/TCP IP Networking.

You need Avahi before you use netatalk. Make sure you have the "avahi" and "dbus" USE flags set, and emerge Avahi if you don't already have it.

Your network device must be in "promiscuous mode" for Zeroconf to work (No it doesn't multicast works without promiscuous). Issue the following command and edit these lines in the sysctl config file.

```
ifconfig eth0 promisc
```

File: /etc/sysctl.conf

```
-----  
# Enables source route verification  
net.ipv4.conf.default.rp_filter = 0  
# Enable reverse path  
net.ipv4.conf.all.rp_filter = 0  
-----
```

Mac Client work

Mount the shared volume

Click on Finder, select Go / Connect to Server from the menu. Enter `afp://<server hostname>/<name of share>`. You should be ready to go.

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