

# **CYBR 4423**

## **Unix/Linux Administration**

### **Internet Services**

# More Internet and Intranet Services

## FTP

FTP Server

FTP client

## SMTP/POP

## SSH

OpenSSH server

PuTTY client



# FTP

## vsftpd as the server

Default port 21

## FTP clients

FileZilla

ftp command

# Install vsftpd

Use atp-get to install

```
atp-get install vsftpd
```

Verify

```
service vsftpd status
```

# Program Files and Directories

## `/usr/sbin/vsftpd`

The main vsftpd executable. It is the daemon itself.

## `/etc/vsftpd.conf`

Major configuration file.

It contains the many directives that control the behavior of the FTP server.

## `/etc/ftpusers`

Text file that stores the list of users not allowed to log into the FTP server.

## `/srv/ftp`

Default directory for anonymous users

# Configure vsftpd

`/etc/vsftpd.conf`

Major configuration file

## Common settings

`anonymous_enable=YES`

`write_enable=YES`

`chroot_local_user=YES`

# Program Files and Directories 2

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# Manage

Use service command to start/stop

`service vsftpd start/stop/restart`



# FTP Clients

## GUI

FileZilla

## Command line (Linux, and Windows)

ftp

open

user

get

put

[File Transfer Protocol](#)

# Remote Host Connection

## Telnet

Provides access to a CLI on a remote host

Not secure (developed in 1960s!), communication is not encrypted

## Secure Shell (SSH)

A network protocol for secure data communication, remote shell services or command execution and other secure network services between two networked computers.

Is secure (using public key cryptography for encryption)

Uses the client-server model

# OpenSSH

OpenSSH (OpenBSD Secure Shell) is a set of programs providing secure communications using the SSH protocol

## Install OpenSSH

```
atp-get install openssh-server
```

## Verify

```
service ssh status
```

# Configuration Files

/etc/ssh/

sshd\_config: server configuration file

ssh\_config: client configuration file

Inetd

Inet.conf

Etc/services

# Additional CLI Internet Client Tools

## wget

GNU Wget is a free software package for retrieving files using HTTP, HTTPS and FTP

## cURL

This is another command line tool to get URL style resources  
Works with wider range of protocols

# Summary

## Key concepts

Apache, PHP

HTTP Server, FTP Server

Virtual host, module

## Key skills

Be able to install and configure Apache HTTP Server on Linux

Be able to install and configure PHP module for Apache HTTP Server

Be able to install and configure vsftpd FTP server and use a FTP client to connect to it

# Good Readings and Resources

<http://httpd.apache.org/docs/2.0/>

Installing and configuring Apache2

[Compiling and Installing](#)

[Ubuntu Server Guide](#)

Installing LAMP

[ApacheMySQLPHP](#)

