# RHCSA
## BOOT CAMP

Web Services

# APACHE CONFIGURATION

- The main apache configuration file is `httpd.conf` and is found in `/etc/httpd/conf/`. This configuration file stores the core configuration of the web server.

- In Apache 2, the `/etc/httpd/conf.d` directory stores configurations that are specific to a particular Apache module. All files in this directory ending in `.conf` will be parsed as a configuration file.

# APACHE CONFIGURATION

- You can find this example Apache VirtualHost definition at the bottom of `httpd.conf`:

```
<VirtualHost _____>

      ServerName name

      ServerAlias alias

      DocumentRoot path

      CustomLog /path/to/access_log combined

      ErrorLog /path/to/error_log

</VirtualHost>
```

- The `NameVirtualHost` directive **must be used** to specify an IP that can host multiple websites.

# LAB

1. Configure two websites on your server. "X" represents your station #.

2. `wwwX.example.com` should be served from `/var/www/html` and should also respond to requests for the short hostname `wwwX`.

3. `vhostX.example.com` should be served from `/home/linus/html` and should also respond to requests for the short hostname `vhostX`.

4. Both should be listening on your primary ip address, but `wwwX.example.com` should be the default site.

# SECURING APACHE

- Apache support access control through `allow` and `deny` directives:

  - `allow from <host|network|ALL>`

  - `deny from <host|network|ALL>`

- These can be applied in the given order:

  - `order allow,deny`     Allows explicitly allowed clients and **denies everyone else**. Anyone matching both the allow and deny are denied.

  - `order deny,allow`     Denies explicitly denied clients and **allows everyone else**. Anyone matching both the allow and deny are allowed.

# SECURING APACHE

- These access control directive are applied through a per-Directory or per-File basis.

- The `allow`, `deny` and `order` directives are placed inside one of the following tags:

    - `<Directory>`

    - `<File>`

# LAB

1.  Reconfigure your two websites such that:

    - `wwwX.example.com` is accessible to everyone except for the person sitting to your left.

    - `vhostX.example.com` is only accessible to the person sitting to your right.

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