Installing the Apache Web Server

LPIC-2: Linux Engineer (202-450)

Objectives:

At the end of this episode, I will be able to:

1. Describe the purpose and function of the Apache web server.
2. Install and configure the Apache web server on Ubuntu Linux.

> Additional resources used during the episode can be obtained using the download link on the overview episode.

- Apache

    - The world's most popular web server
    - Frequently used with NginX
    - Serves up HTML content
    - Provides encrypted connections
    - Supports other features through a module system

        - PHP
        - CGI Gateway
        - Authentication

- Installing Apache

    - Package name

        - **httpd** - RHEL-based distros
        - **apache2** - Debian-based distros

    - Installing

        - `sudo apt install apache2`

- Starting Apache

    - `sudo systemctl enable --now apache2`
    - `sudo ufw allow http`

- Verifying Apache

    - Browse to `http://<servername>`
    - `systemctl status apache2`

- Modifying the Apache configuration

    - Global config

        - `sudoedit /etc/apache2/apache2.conf`
        - Server name

            - `ServerName "10.0.222.51"`

    - Site config

        - `sudoedit /etc/apache2/sites-available/000-default.conf`
        - Content location

            - `DocumentRoot "/var/www/html"`

        - Default index files

            - `DirectoryIndex index.html index.php`

- Checking your configuration

    - `apachectl configtest`