Implementing NginX as a Web Server

LPIC-2: Linux Engineer (202-450)

Objectives:

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

- 1. Describe the NginX web server and differentiate it from Apache.
- 2. Install and configure a basic web server using NginX.

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

- Implementing NginX as a Web Server
 - Introduction to NginX
 - Installing NginX
 - Configuring NginX as a web server
- Introduction to NginX
 - Pronounced "Engine X"
 - Written multiple ways
 - nginx
 - NginX
 - NGINX
 - High performance
 - Simple configuration
 - OpenSource NginX
 - https://nginx.org
 - Commercial NginX Plus
 - https://www.nginx.com/
 - Web Application Firewall
 - Active/Active HA
 - Health Checks
 - Static content
 - Can work with PHP. but not ideal
 - Better used as a cache for static elements
 - Most commonly used as a load balancer or proxy
- Installing NginX
 - Included with most distros
 - Installing the binary
 - sudo apt install nginx
 - Enabling the service
 - sudo systemctl enable --now nginx
 - sudo ufw allow 80/tcp comment "NginX"
 - sudo systemctl enable --now nginx
- Configuring NginX as a web server
 - Editing the NginX configuration
 - sudoedit /etc/nginx/sites-available/default
 - Change root folder
 - root /usr/share/nginx/html;
 - o Other common changes

- listen 80 default_server;
- index index.html index.htm;
- server_name lab.itpro.tv;
- Testing a configuration
 - Check the configuration for errors
 - sudo nginx -t
 - Restarting NginX
 - sudo systemctl restart nginx
 - Reviewing log files
 - sudo systemctl status nginx
 - sudo journalctl -xe -u nginx.service