

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.

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- 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;`
 - 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`