

Installing the Squid Proxy 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 a proxy server.
2. Install and configure the squid proxy server in Linux.

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

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- Installing the Squid Proxy Server
 - Introduction to squid
 - Installing squid
 - Enabling caching
 - Verify squid is functioning
 - Introduction to squid
 - <http://www.squid-cache.org/>
 - Open source proxy server
 - Features
 - Caching
 - Filtering
 - Authentication
 - Installing squid
 - `sudo apt install squid`
 - `sudo systemctl enable --now squid`
 - `sudo systemctl status squid`
 - Initial configuration
 - Default configuration
 - `/etc/squid/squid.conf`
 - Edit the configuration
 - `sudoedit /etc/squid/conf.d/local.conf`
 - Changing the listening port
 - Defaults to 3128
 - `http_port 8080`
 - Firewall configuration
 - `sudo ufw allow 8080 comment "Squid Proxy"`
 - Enabling caching
 - Define cache directory
 - `cache_dir <filesystem> <path> <max-size-mb> <max-folders> <max-subfolders>`
 - Default values
 - `cache_dir ufs /var/spool/squid 100 16 256`
 - Verify squid is functioning
 - Log files
 - `sudo systemctl status squid`
 - `journalctl -xe -u squid.service`
 - Network listeners

- `sudo ss -natp`
- Connect a client (FireFox)
 - Won't work until an ACL is configured
 - Settings -> Network Settings -> Proxy