

# Configuring an OpenVPN Client

LPIC-2: Linux Engineer (202-450)

## Objectives:

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

1. Install the OpenVPN client on a Linux system.
2. Use OpenVPN to connect to a VPN server from the Linux command line.

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

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- Configuring an OpenVPN Client
    - Installing OpenVPN
    - Using a client profile
    - Automatically connecting to a VPN
  - Installing OpenVPN
    - OpenVPN client uses the same package as server
    - `sudo apt install openvpn`
  - Loading a client configuration
    - OpenVPN outputs a \*.ovpn file
      - Text file with configuration commands and certificates
      - Should be renamed \*.conf and placed in /etc/openvpn/client
    - Example
      - `sudo cp ~/Dons-Laptop.ovpn /etc/openvpn/client/Dons-Laptop.conf`
  - Connecting to a VPN server
    - Default config is read from /etc/openvpn/client.conf
    - Override with the --config option
    - Example
      - `sudo openvpn --client --config /etc/openvpn/client/Dons-Laptop.conf`
  - Testing client connectivity
    - Test commands
      - `ip route`
      - `ip -br addr`
      - `ping 10.8.0.1`
      - Ctrl-C to stop
    - Logging
      - If logging is enabled on the server
        - /var/log/openvpn/
      - Otherwise
        - `sudo journalctl -xeu openvpn@client`
  - Configuring an "Always On" VPN
    - `sudo cp /etc/openvpn/client/Dons-Laptop.conf /etc/openvpn/client.conf`
    - `sudo systemctl start openvpn@client`