

RHCSA Practice

Objective: *Managing basic networking*

Requirements:

- Install a RHEL 9 virtual machine with one or two network interface cards.

A. Configure IPV4 and IPV6 addresses.

1. Configure the network interface `enp0s3` to have ip addresses `172.25.250.142` with netmask `255.255.255.0`. And add `172.25.250.254` as primary dns server and `172.25.250.253` as secondary server and the search name as `lab.example.com` also it should have the gateway set to `172.25.250.15`, make this interface start up automatically on boot on your VM
2. Configure a secondary IP address on the interface `enp0s3` to have ip addresses `172.25.250.143` with netmask `255.255.255.0` without
3. Check the configuration using `nmcli` and `nmtui` also the `ip` command.
4. Configure the second interface to use the ipv6 address `fd00:0:0:0:0:0:0:1` and make sure the interface is up on reboot and when using `ip` address command you can see that ipv6

B. Configuring hostname and resolution

1. Make sure your server is able to resolve the hostname `repo.lab.example.com` without relying on the network DNS server.
2. Ensure you can still ping the repository server even after you have unset the dns server configure previously.
3. Reconfigure the server to use the Network DNS server (`172.25.250.254` and `172.25.250.253`)
4. To ensure your configuration is working try to ping `repo.lab.example.com` and make sure it resolves to the ip address of the repository server

C. Configuring network services to start automatically and managing firewall.

1. Install the Apache server and ensure it starts automatically on boot.
2. Configure the firewall to make the http server accessible from remote server via port `8082` using a customize firewall service.

3. Configure the firewall to enable accessibility to the http server using a custom firewall configuration file.
4. Ensure all configurations made previously are persistent on reboot of your server.