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Challenges - Networking in Linux

Challenges - Network Interfaces

Challenges - SSH, scp, rsync

Software Management

DPKG (Debian and Ubuntu Based Distros)(9:12)

Intro to APT (1:50)

Using APT (Advanced Package Tool)(11:59)

Quiz for dpkg and apt

Compiling Programs from Source Code via Package Manager(4:58)

Challenges - Network Interfaces

How to solve these challenges:

To be consistent with the filenames and paths run the commands on Ubuntu

Write your solution **in a terminal** and **test it**.

If your solution is not correct, then try to understand the error messages, watch the video again, rewrite the solution and test it again. Repeat this step until you get the correct solution.

Save the solution in a file for future reference or recap.

Do not solve these challenges on a remote machine to which you are connected with SSH.

Run the following commands only on a local machine.

Challenge #1

List the IP address, the Default Gateway, the Mac Address and the DNS Servers.

Use both **ifconfig** and **ip** commands.

Are you stuck?

Do you want to see the solution to this challenge? Click [here](#).

Challenge #2

Using **ifconfig**, disable the Ethernet interface.

Using **ip**, enable the Ethernet interface.

Check its status both with **ifconfig** and **ip**.

Are you stuck?

Do you want to see the solution to this challenge? Click [here](#).

Challenge #3

Set a new temporary IP address using both **ip** and **ifconfig**.

Are you stuck?

Do you want to see the solution to this challenge? Click [here](#).

Challenge #4

Using **ifconfig**, set a secondary IP address on the Ethernet interface.

Are you stuck?

Do you want to see the solution to this challenge? Click [here](#).

Challenge #5

Change the MAC address to a random one.

Are you stuck?

Do you want to see the solution to this challenge? Click [here](#).

Previous Lecture

Complete and Continue