

# Networks and permissions

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## Accessibility Notice

This document is also available in HTML format at:

<https://aholdengouveia.name/IntroLinux/labs/networking.html>

The HTML version provides enhanced accessibility features including keyboard navigation, screen reader support, responsive design, dark mode support, and high contrast options.

## Objectives:

- Learn basic networking commands (ping, ifconfig/ip)
- Understand how to test network connectivity
- Master Linux file permissions and the chmod command
- Practice setting different permission levels for files

## Complete the following problems

References, a video, a PowerPoint and some notes are available at my website <https://www.aholdengouveia.name/IntroLinux/networking.html>

## Networking

You are going to use two basic commands ping and ifconfig or ip a

1. ping Google.com Was ping successful? What was the result? Take a screenshot
2. ping CNN.com Was ping successful? What was the result? Take a screenshot
3. Use ifconfig or ip a What does it show you? Use man to see what other useful things one of those can do

## File Permissions

Create a subdirectory for this lab and put several files in it either using cp or touch

Use chmod to create files with the following permissions:

1. Everyone can read and write but not execute
2. Owner has full permissions but everyone else can only read
3. No one can do anything including the owner
4. Owner and group have read and write permission, public only has read
5. Owner can read and execute but not write, everyone else can read

Use ls -l to show results, take a screenshot and include in report

Pick one file and explain the permissions in your own words in the lab report

## Deliverables

One file with your name, date, and lab title at the top and all the answers.

- You should have screenshots for each ping, your ifconfig or ip a, and showing your file permissions
- Make sure to include labels for each screenshot so it's clear what you're turning in.
- Don't forget to include the answers to each question asked as well.