3) Configure static IP addresses, modify MAC addresses, and verify network connectivity using ping and ifconfig commands.

Static IP Address

- A **Static IP address** is a manually assigned, fixed IP address that does not change over time. Unlike **Dynamic IPs** (assigned by DHCP), static IPs remain constant, ensuring reliable connectivity.
- Useful for servers, printers, and network devices requiring consistent addresses

Feature	Static IP	Dynamic IP
Assignment	Manually configured	Automatically via DHCP
Changes Over Time	No	Yes
Use Case	Servers, routers, remote access	Home users, temporary devices
Configuration	Requires manual setup	Assigned by the network