Perform step 1 to 3 on the terminal and GUI

1. Find out your IP address
2. Configure a static IP address. Configure the IP address of all computers in your team within the same subnet and make sure you can ping each other.
3. Configure so that your ubuntu image can get the IP address automatically from DHCP server.
4. Set up multiple IP addresses on a single NIC card.
5. Change the host name.
6. Find out the nameserver IP address configured in your image.
7. Deny any connection from host 192.168.100.2, 192.168.33.2.
8. Deny any connections from the domain testing.com.
9. Deny SSH connection from host 192.168.55.2.
10. Deny FTP connections from the range 192.168.77.0/24.
11. Add a DNS host.

* www.google.com = 173.194.115.19
* www.facebook.com = 31.13.74.128
* www.gmail.com = 74.125.25.245
* www.youtube.com = 173.194.115.6

1. Find out whether the network interface has the following configurations.

* Duplex (full or not)
* auto-negotiations (on or off)
* Find out the speed of the network interface

1. Find out any route that are configured by default in your ubuntu image.
2. Add permanent static routes to network 192.168.50.0/24 via gateway 192.168.1.254.
3. Add a permanent static route to host 192.168.40.99 via gateway 192.168.1.254.
4. Verify the status of firewall. If turned off, turn it on.
5. Find out the version of ufw.
6. Deny all default incoming connections.
7. Allow all default outgoing connections.
8. Allow incoming ssh connections.
9. Allow incoming ftp connections.
10. Allow tcp to run on ports from 4400 to 5500.
11. Allow incoming http connections.
12. Do not allow tcp connections from 192.168.1.5 and 192.168.6.2.
13. Do not allow ssh connections from 192.168.100.0/24.
14. Turn on logging to high.
15. Find the runlevel you are logged on as.
16. List the services that start up automatically on your desktop.
17. List the services that are started for your runlevel and write the first and the last service that is started.
18. restart networking service.
19. Change the sudo service in your run level so that it does not start on startup.
20. Backup the /home directory.
21. Create cron jobs to create backup for each user’s home directory. Backup should be done every day at 12.00 AM.