Introduction to Packet Tracer and basic configurations

What is packet tracer?

Packet tracer is an application in which students use simulated environments to create, configure, implement and troubleshoot network topologies.

##Image-Download packet tracer home screen image.

Parts of the packet tracer screen

1.Menu bar

2.Main tool bar

3.Common tools bar

4.Logical/Physical workspace and navigation bar

5.Workspace

6.Realtime/Simulation bar

7.Network component box

8.Device type selection

9.Device-specific selection

10.Packet window

Device selection and connection

Choose device from device type selection and then click on any area within the workspace.

Click connections icon from the device type selection and click the appropriate cable type which is connected between the devices by clicking on both of them in succession.

BASIC CONFIGURATIONS

Click on the device to be configured and select the command line mode. This puts a user in the Privileged exec mode in which one shall enable the switch. For example:

Router> **enable**

After enabling the user will be led to the global configuration mode in which commands like configure terminal and hostname are used. For example:

Router(config)# **configure terminal**

Giving the devices hostnames

Router(config)#hostname REDD

Access interface configuration mode;

REDD (config)# **interface FastEthernet0/0**

REDD (config)# **ip address 192.168.10.1 255.255.255.0 ->**Assigning ip address and subnet mask

An example of a basic configuration for a router

Router# **configure terminal**

Router(config)# **interface FastEthernet0/0**

Router(config)# **ip address 192.168.10.1 255.255.255.0**

Router(config)# **no shutdown**

Router(config)# **exit**

Router(config)# **write memory**

**Note; Create simple network and to display what you’ve just said fill out body.**

**Steps for basic router configuration**

**Accessing the command line interface-**Double click on the router in the packet tracer environment.

**Entering the privileged EXEC Mode-**Type enter and press enter. It is not necessary to set a password.

**Entering Global Configuration Mode-**Type the configure terminal command or type config t (click tab key for this one) and press enter.

At this stage you can carry out interface configuration i.e.: interface FastEthernet0/0-> Ip Address 192.168.1.1 255.255.255.0->no shutdown.

You can also set routing protocols and static routes in this mode.

**Saving the configuration-**Type exit to leave the global configuration mode and type write memory to save the configuration.

**NB:** A command known as show commands to verify your configurations and troubleshoot issues.