

Experiment - 1

Aim: Understanding how a router works

Procedure:

- Make connections using 2 PC's and one router. ~~They can~~ On connections the ends are in red as they need to be configured.
- To make things easy we need to label each PC with its IP address.
- Click on the PC(PC0) and go to config then fastethernet, and configure the IP address and click on subnet mask. (it auto configs). Follow the same procedure for the other PC (PC1)
- In the config tab click on settings and configure the gateway too, which is the place that allow a PC to communicate with the outside world.
- Now the IP and gateways of both PC0 & PC1 are configured we need to configure the interface of the router.
 - Click on the router, followed by a click on CLI, we must follow the below instructions
 - enable
 - config terminal
 - interface ~~of~~ fastethernet 0/0 ↗ Gateway of PC0
 - ip address → 10.0.0.10 255.0.0.0
 - no shut
- Same procedure for the other interface of router.

Observation:

By pinging we can communicate b/w the PC's via the router