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CN EXPERIMENT NO. 10 (MINI PROJECT)

AIM: To design and simulate a college network scenario using Cisco Packet Tracer.

DESCRIPTION:

This is a network infrastructure of a college which has 4 labs named EXTC Lab, CS Lab, I.T. Lab and Advanced Research Lab, and 2 rooms which are H.O.D Room and Server Room.

There are 12 PCs, 4 Laptops (2 wireless, 2 wires), 3 printers (1 wireless, 2 wired), 5 servers (1 wireless, 4 wired), 5 switches, 3 routers and 1 wireless router.

Labs:

- EXTC Lab
  There are 4 PCs connected to the switch. This LAN is connected to Router 1

- CS Lab
  There are 4 PCs connected to the switch. This LAN is connected to Router 2

- IT Lab
  There are 3 PCs, a server and a printer connected to the switch. This LAN is connected to Router 3

- Advanced Research Lab
  There are 2 wireless laptops, a printer and a server connected to a wireless router.

Rooms:

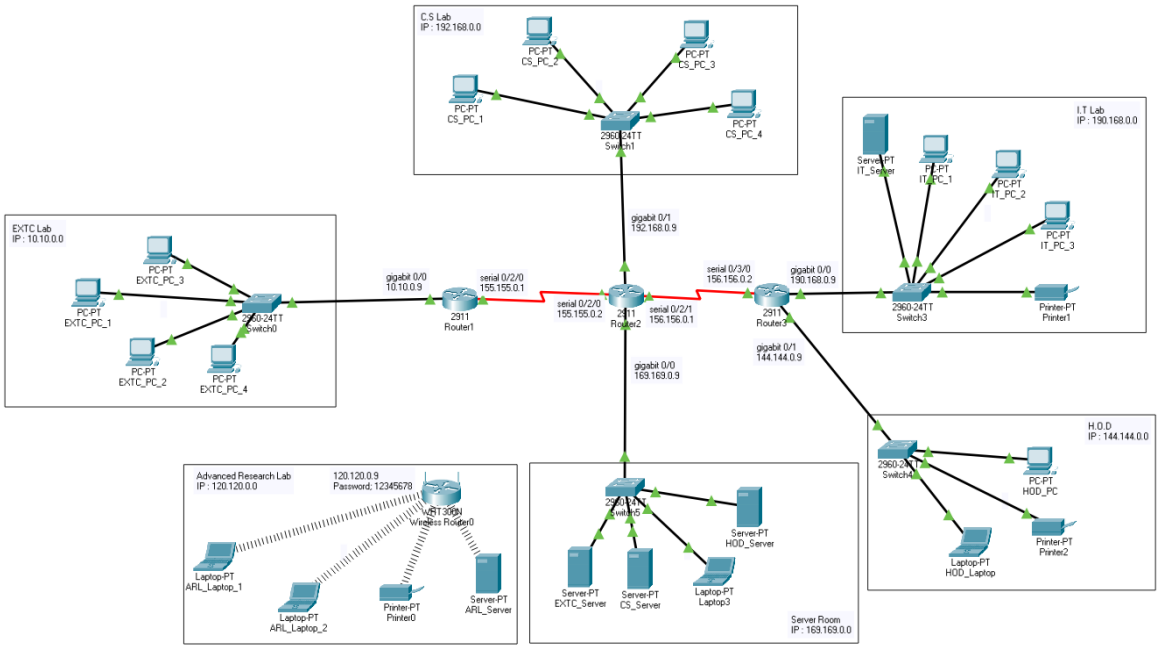
- H.O.D Room
  There is a laptop, a PC and a printer connected to the switch. This LAN is connected to Router 3

- Server Room
  There are 3 servers, corresponding to EXTC, CS and IT lab, and a laptop connected to the switch. This LAN is connected to Router 2

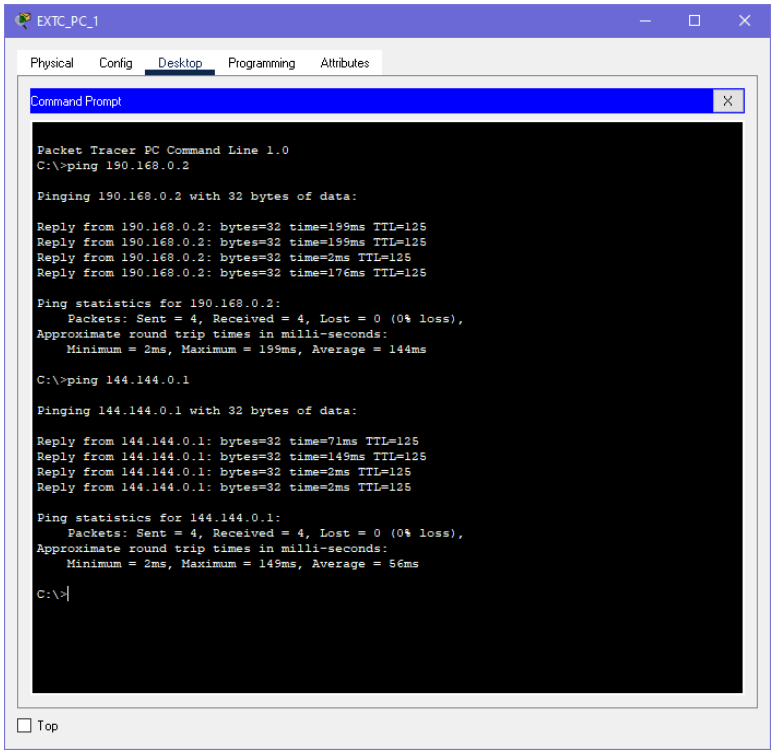
CONCEPTS USED:

- Static IP allocation
- RIP routing protocol
- Subnetting
- SMTP

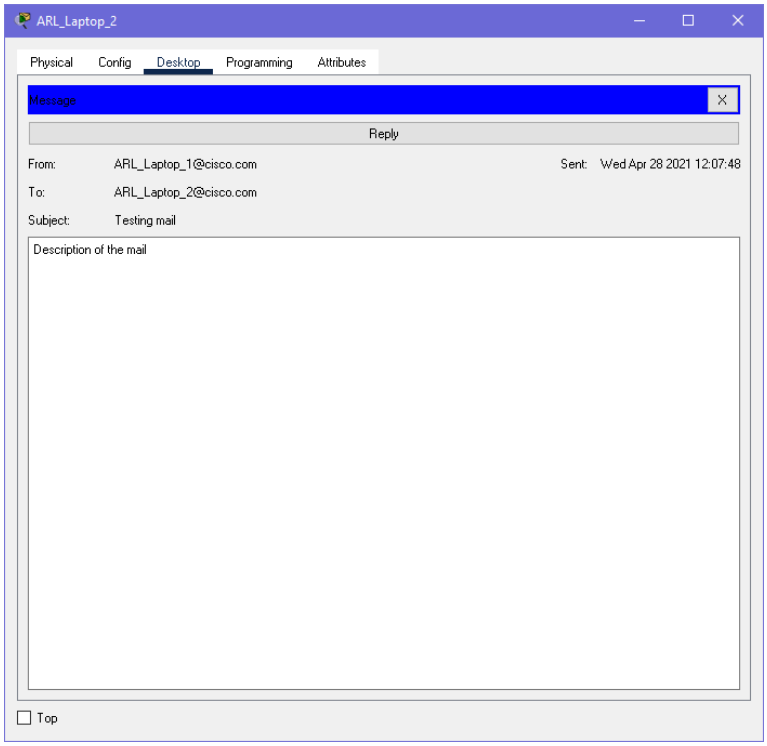
NETWORK:



Ping IT_PC_2 and HOD_PC from EXTC_PC_1



Sending mail from ARL_Laptop_1 to ARL_Laptop_2



Sending mail from IT_PC_1 to IT_PC_3