



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

**SCHOOL OF COMPUTER SCIENCE ENGINEERING
AND INFORMATION SYSTEMS**

**DEPARTMENT OF COMPUTER APPLICATIONS
&
DEPARTMENT OF INFORMATION TECHNOLOGY**

**VALUE ADDED COURSE
ON
NETWORKING CARDINALS**

ASSESSMENT - 1

SUBMITTED ON: 21 – SEP - 2024

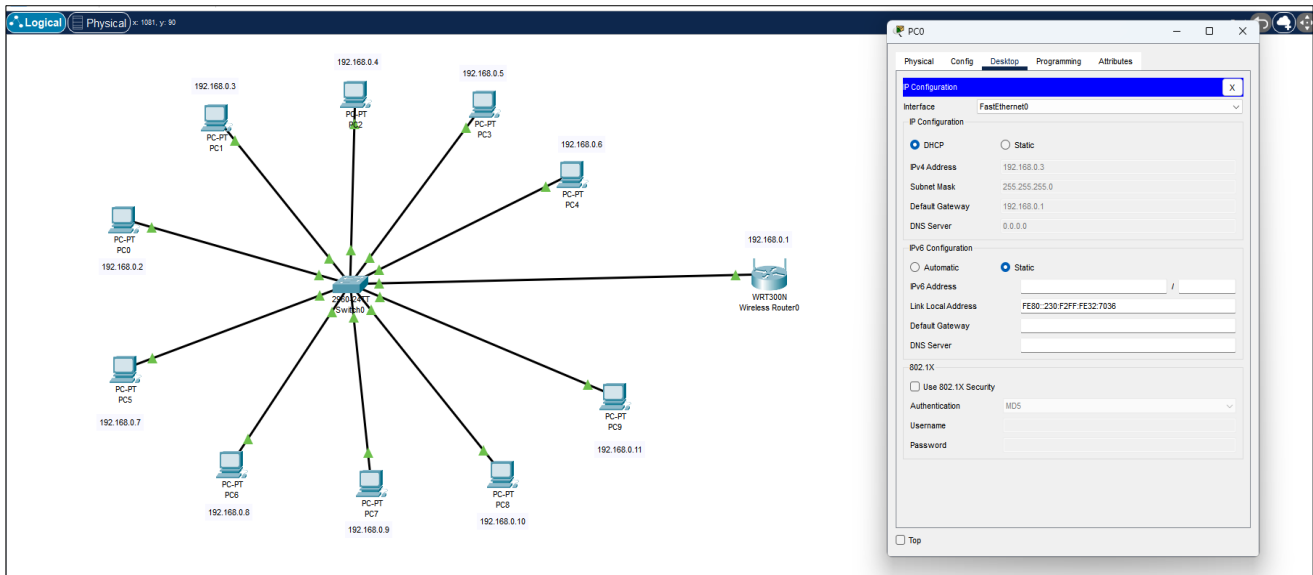
SUBMITTED BY-

AKASH KUMAR BANIK

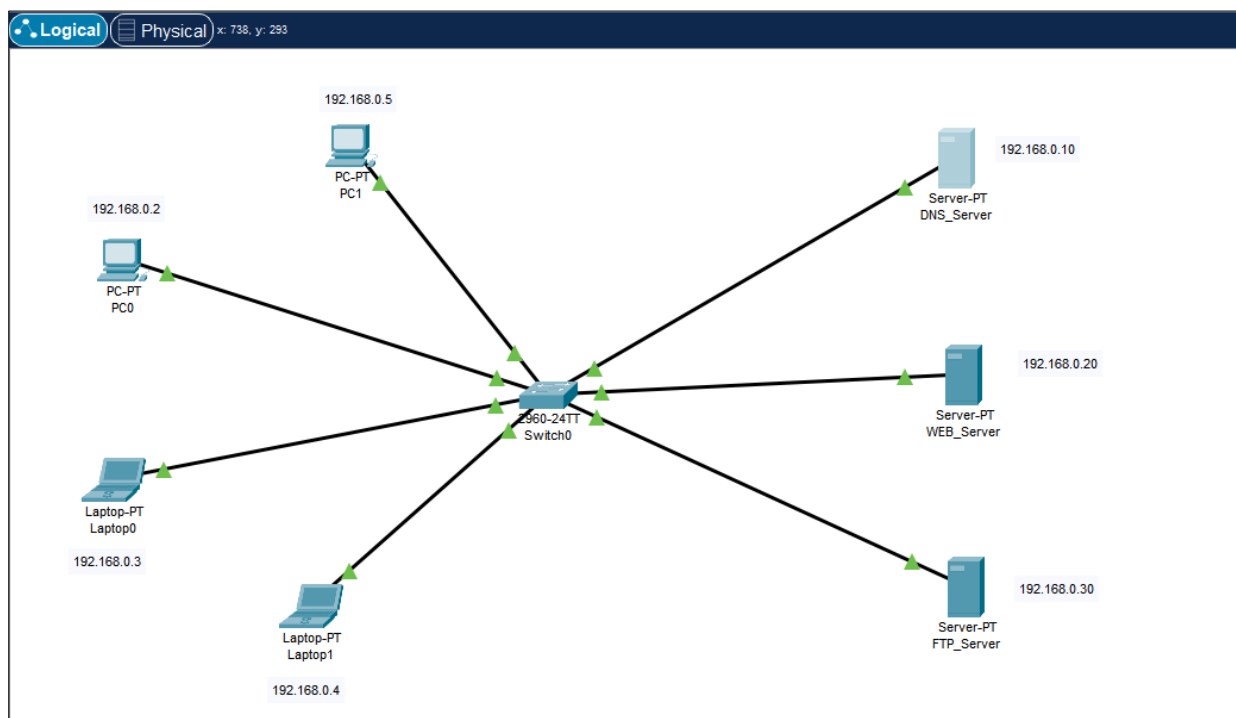
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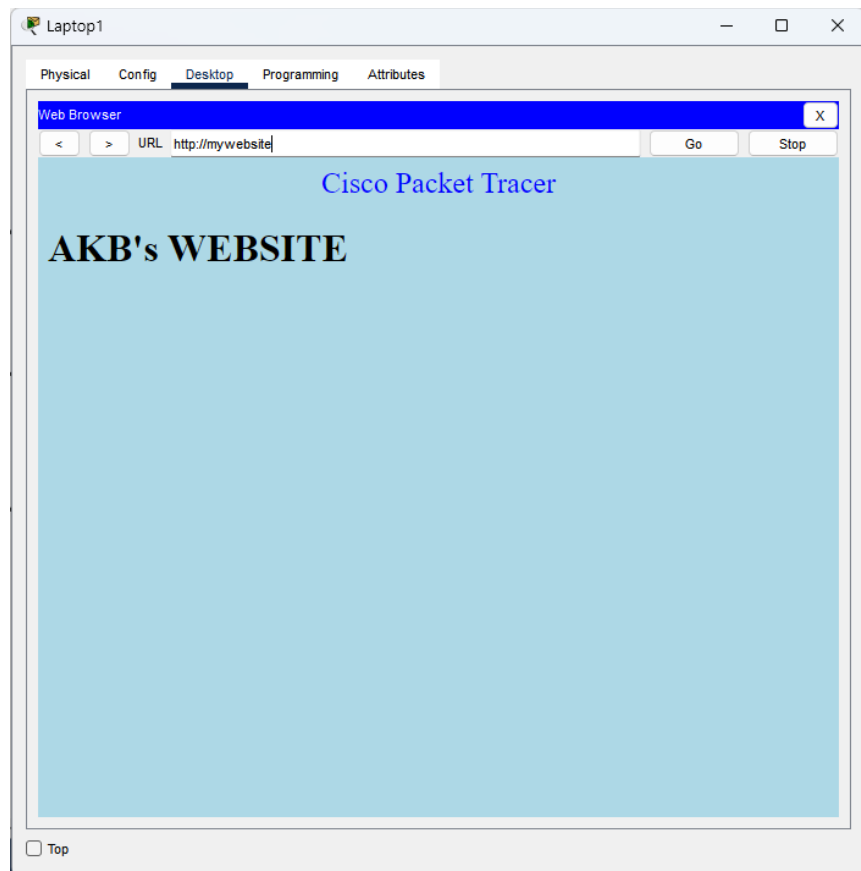
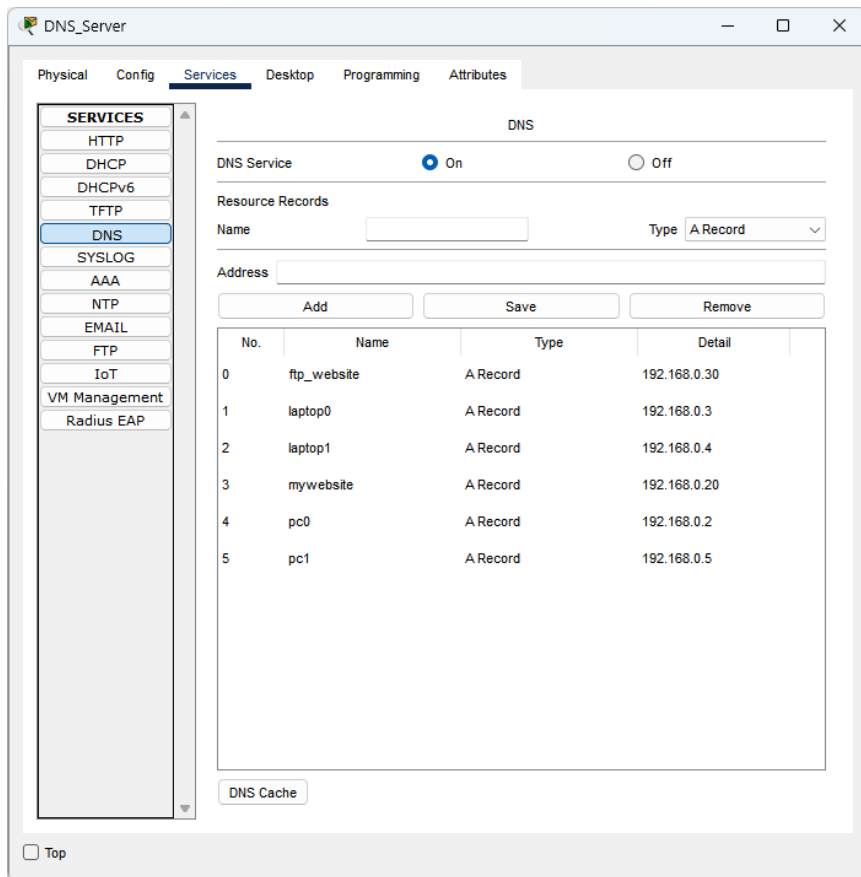
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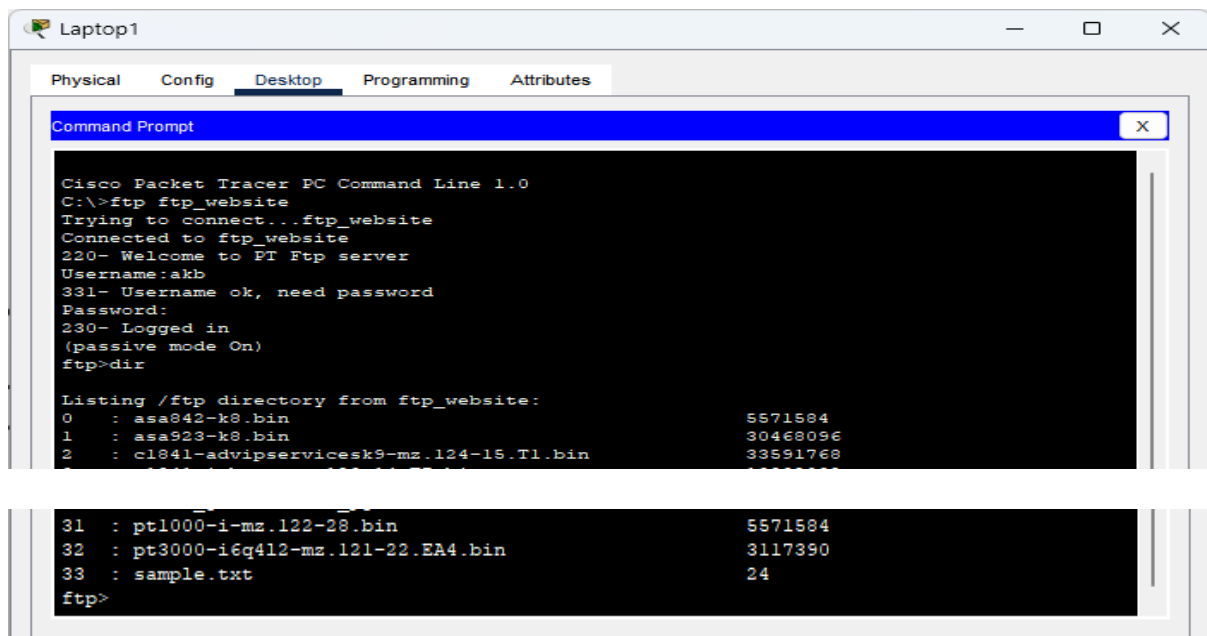
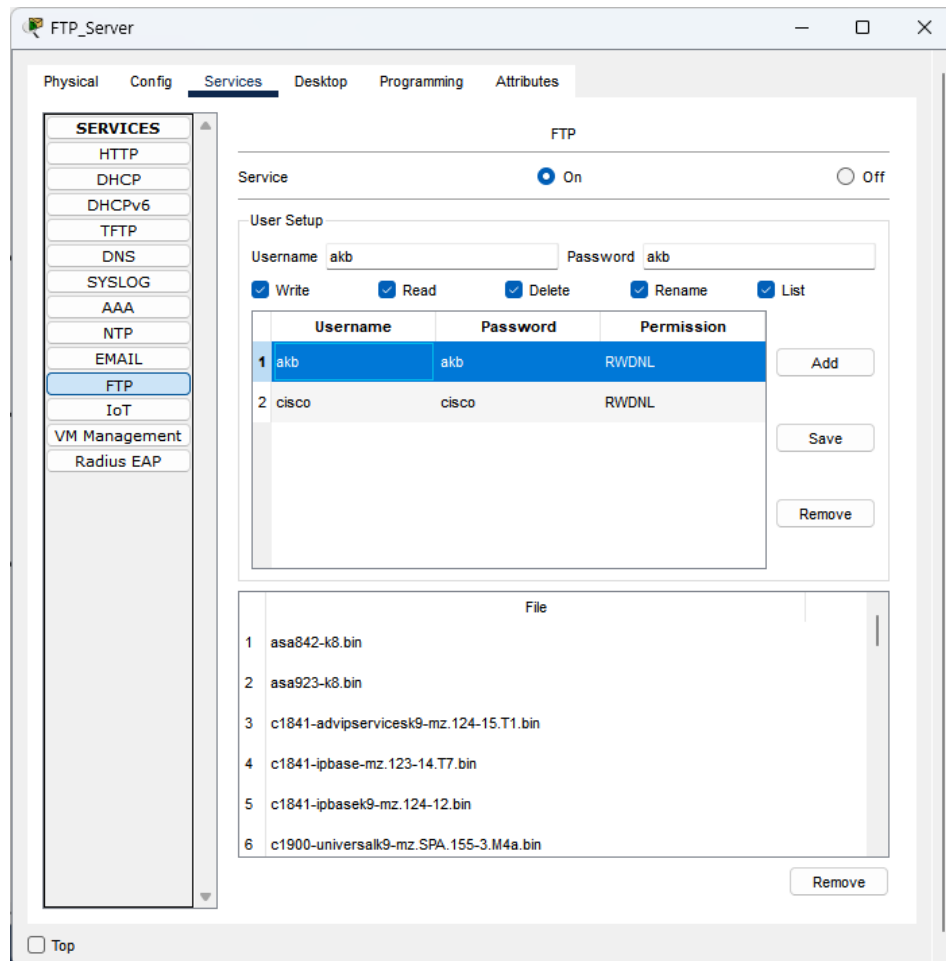
1. A company wants to use a Linksys-WRT300N device to connect ten PCs. The Linksys device should automatically assign each PC an IP address. Implement this scenario using a Cisco packet tracer.



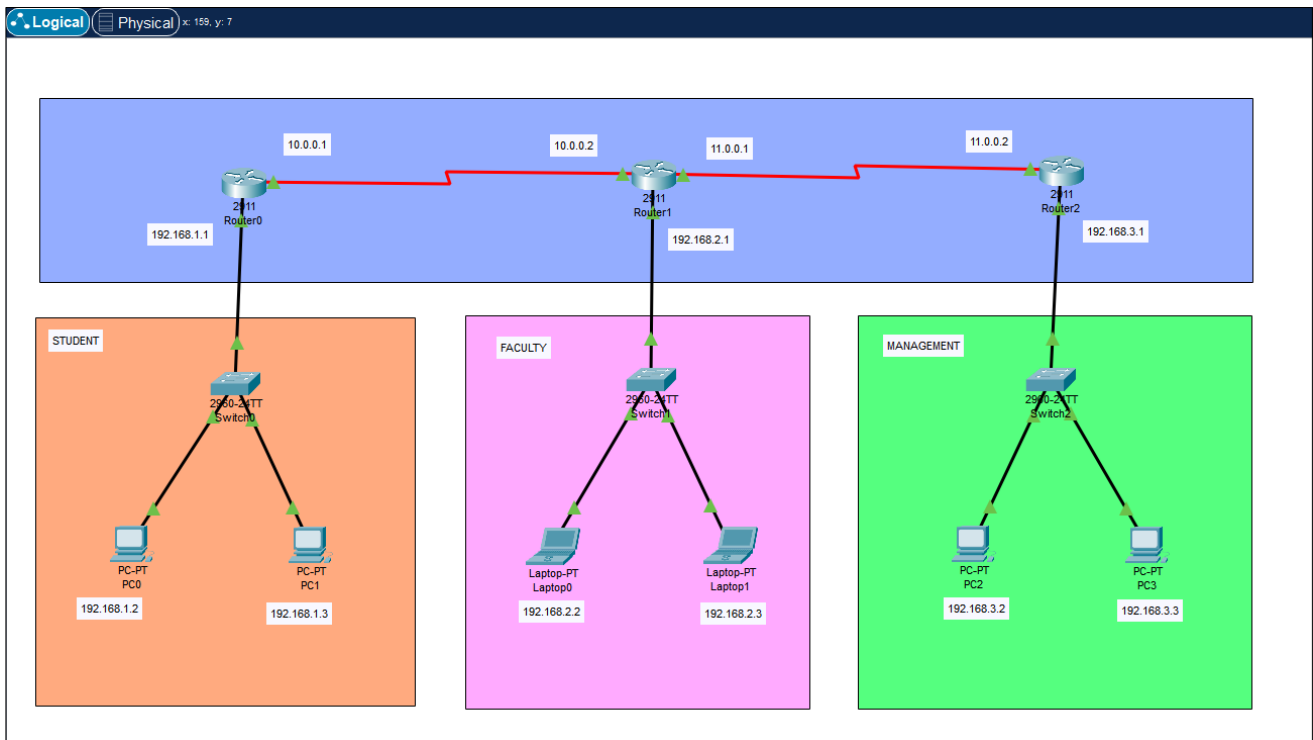
2. Configure a client-server paradigm with DNS, Web, and FTP servers. View the client/server traffic sent from a PC to all servers when requesting web and file transfer services.







3. Implement the simulation of the Access control mechanism using three subnets namely students, faculties, and management.



```
Router1
Physical Config CLI Attributes
IOS Command Line Interface
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 1 permit 192.168.1.0 0.0.0.255
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#ip access-group 1 out
Router(config-if)#exit
Router(config)#
Router(config)#interface GigabitEthernet0/0
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show access-list
Standard IP access list 11
 10 deny 192.168.3.0 0.0.0.255
Standard IP access list 1
 10 permit 192.168.1.0 0.0.0.255

Router#
```

4. Create four class C subnetworks and show the traffic sent from one subnet to another.

