

INFORMATION SECURITY MANAGEMENT LAB DA-1

BY:

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STANDARD ACCESS CONTROL LIST

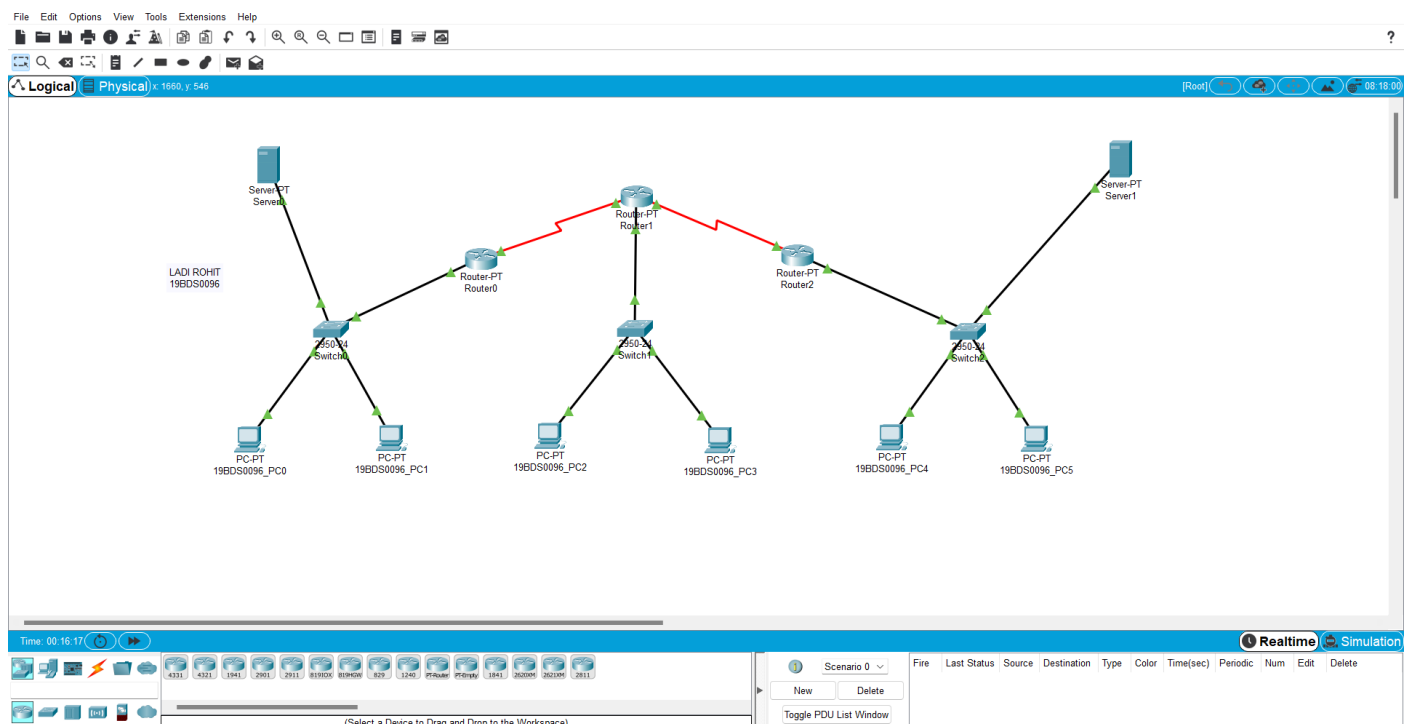
Aim:

To implement Standard ACL using Cisco packet tracer.

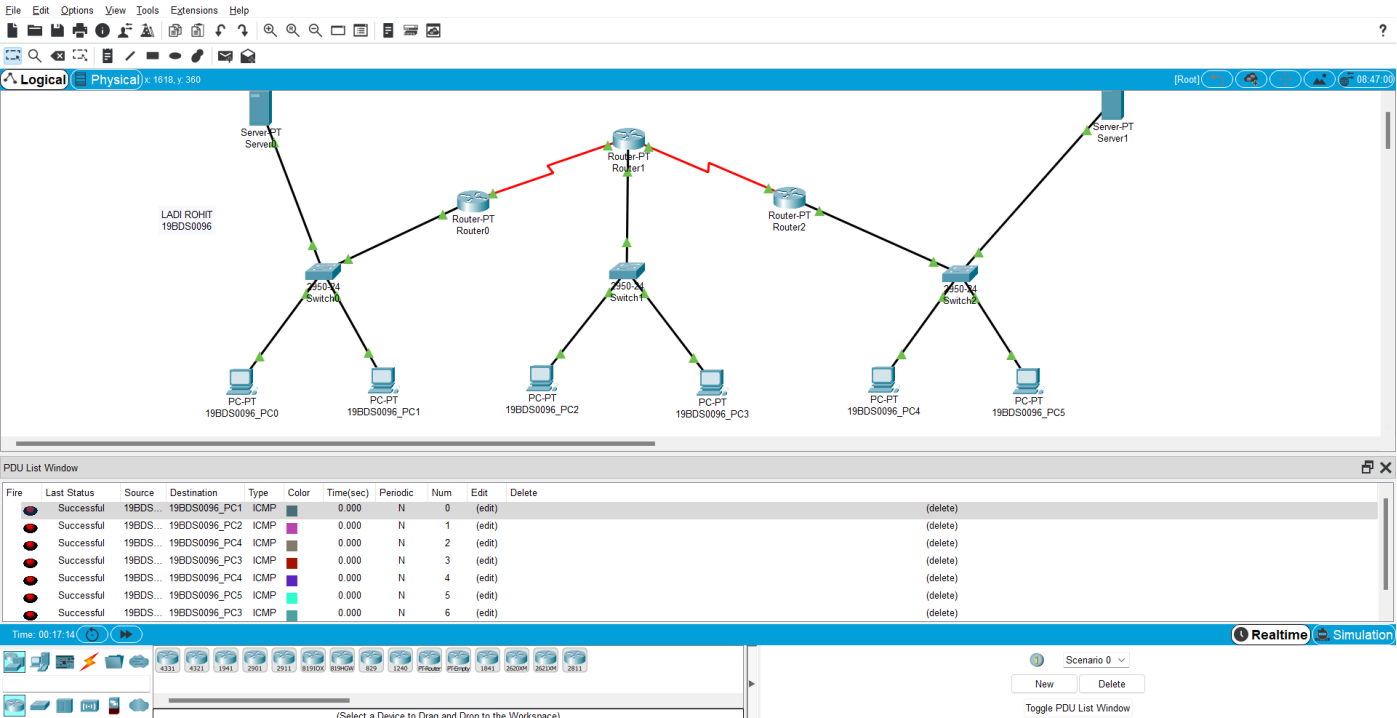
Scenario:

Develop and list the IP addresses of PCs for a network topology with 6 laptops, 3 switches, 2 servers and 3 routers. Each switch must be connected with 2 PCs and a router. Assume a case in which the services of entire 2 PCs of any router (R1) are being denied. But the PCs are able to communicate with each other in a switch and not able to communicate with the any one of the router (in the scenario). At the same time, the remaining PCs are able to communicate with each other and the other routers. Configure the network appropriately, Use ACLs (standard), and also provide the configuration code for switches and routers.

OUTPUT:



(a) Data communication before applying Standard ACL



PC2, PC3 are Denied and PC0, PC1, PC4, PC5 are Permitted

Run Configuration

Router0

PhysicalConfigCLIAttributes

IOS Command Line Interface

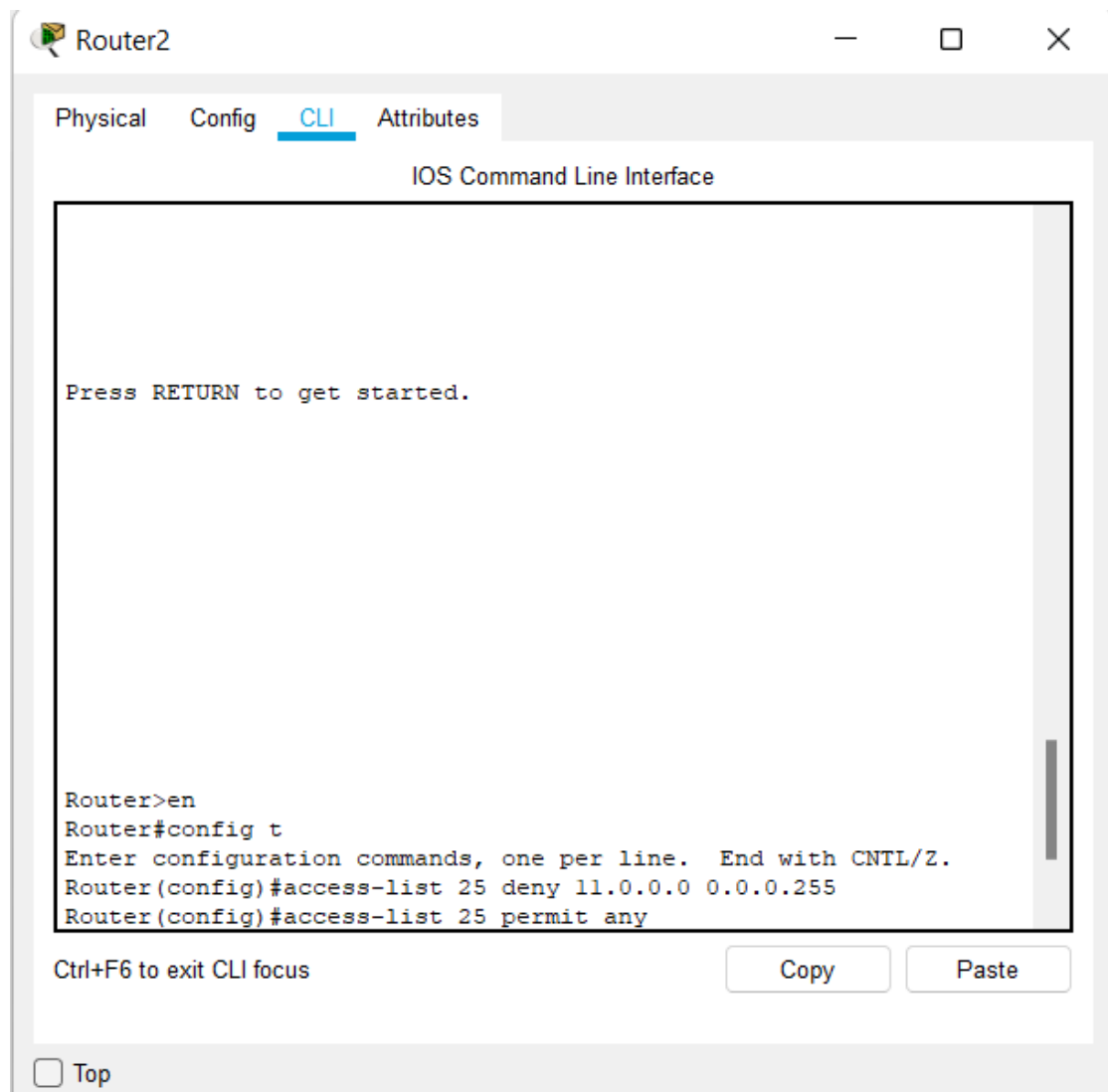
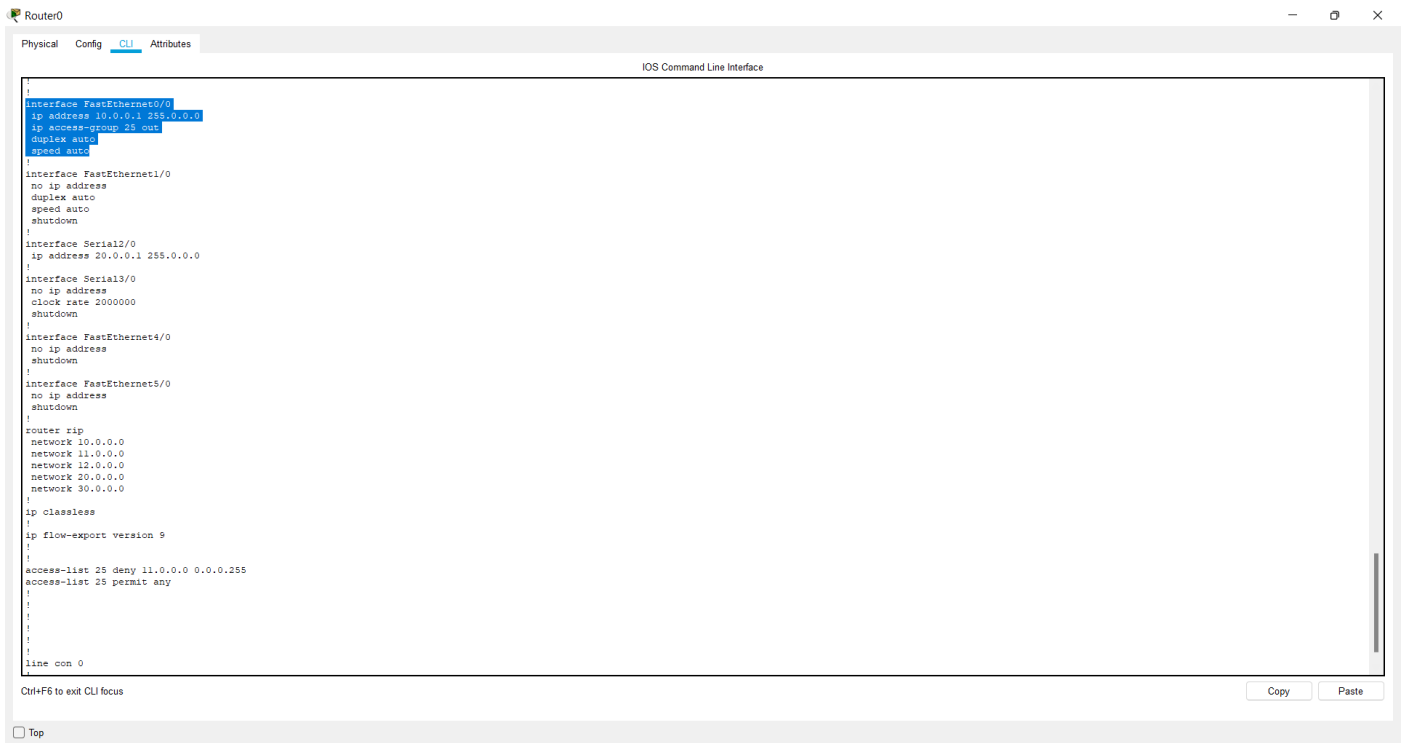
```
Router#
Router#
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#no access-list 25
Router(config)#exit
Router#
$SYS-S-CONFIG_I: Configured from console by console

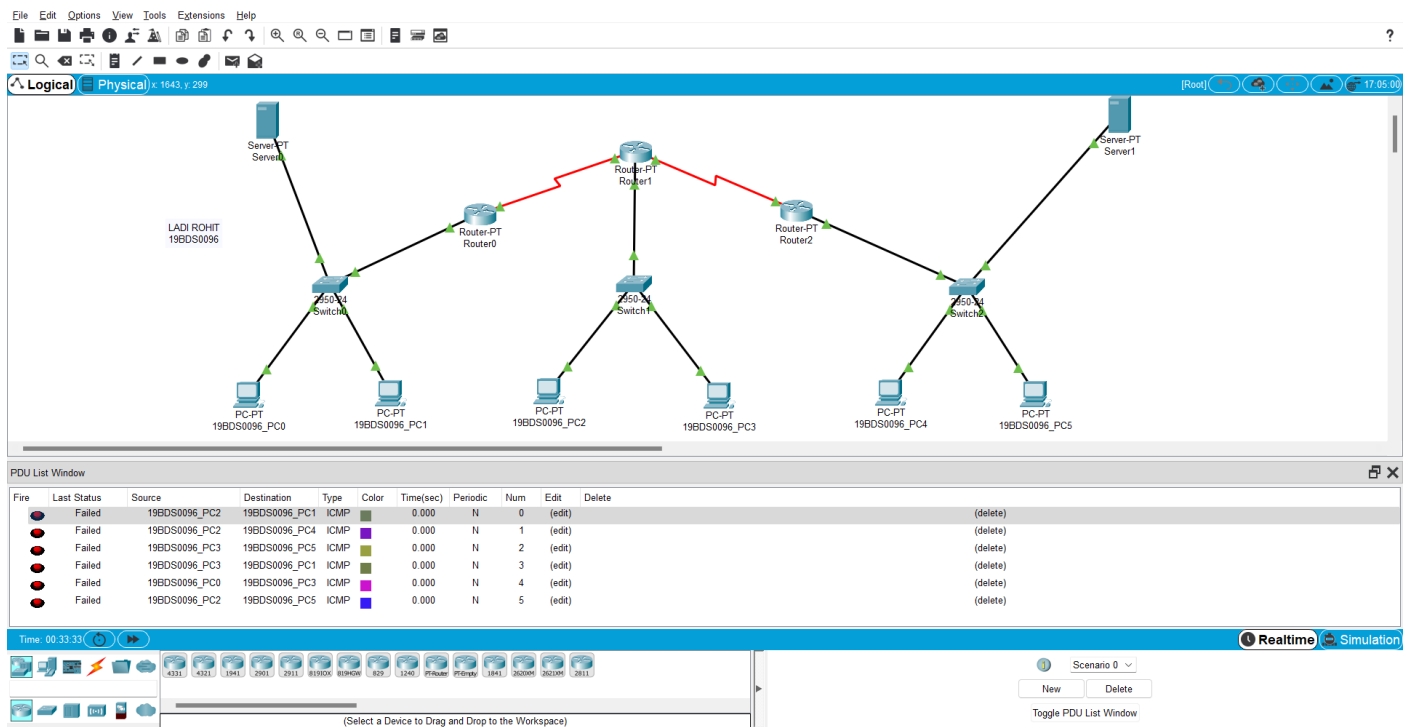
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#access-list 25 deny 11.0.0.0 0.0.0.255
Router(config)#access-list 25 permit any
Router(config)#exit
Router#
$SYS-S-CONFIG_I: Configured from console by console

Router#show running-config
Building configuration...

Current configuration : 910 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
--More--
```

Ctrl+F6 to exit CLI focusCopyPaste





RESULT:

Standard ACL is implemented successfully for the given scenario and data communication is checked using realtime simulation before and after applying Standard ACL.