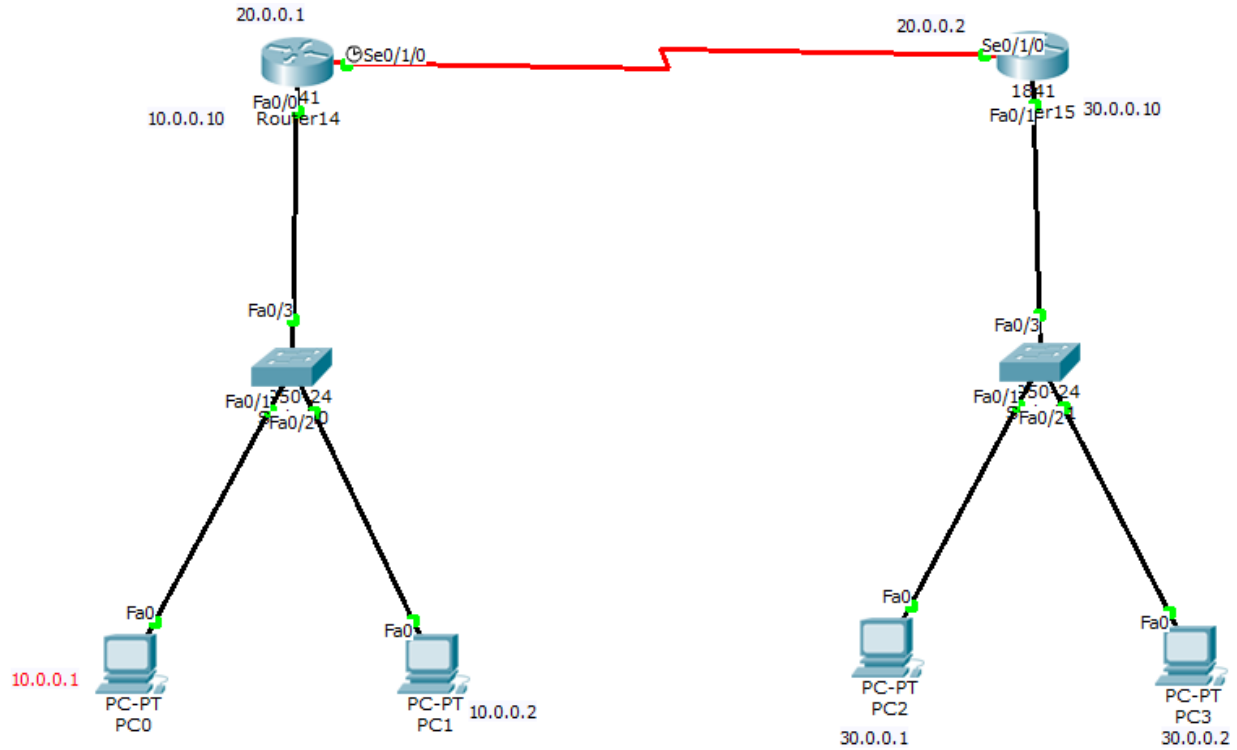




# ACL Access control list-Practical

Step 1- Open Packet Tracer & network device and assign ip as shown in below image

Note- use DCE cable to connect router



Step 2- Configure Network on Router

Router 1



# ACL Access control list-Practical

```
Router>en
Router>enable
Router#conf
Router#configure
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int
Router(config)#interface fa0/0
Router(config-if)#ip add 10.0.0.10 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#int
Router(config-if)#intter
Router(config-if)#int s0/1/0
Router(config-if)#ip add 20.0.0.1 255.0.0.0
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#int s0/1/0
Router(config-if)#ip add 20.0.0.1 255.0.0.0
Router(config-if)#clock rate 64000
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 10.0.0.0
Router(config-router)#network 20.0.0.0
Router(config-router)#exit
Router(config)#
```

## Router 2

```
Router>en
Router#con
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#int fa 0/1
Router(config-if)#ip add 30.0.0.10 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Router(config-if)#int s0/1/0
Router(config-if)#ip add 20.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config-if)#router rip
Router(config-router)#network 20.0.0.0
Router(config-router)#network 30.0.0.0
Router(config-router)##IP-4-DUPADDR: Duplicate address 30.0.0.10 on FastEthernet
0/1, sourced by 0010.119D.1A68

Router(config-router)#
```

Step 3- Run the below command on Router 1 to set ACL



# ACL Access control list-Practical

```
Router14
Physical Config CLI
IOS Command Line Interface

Router>
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#access list ?
% Unrecognized command
Router(config)#access list?
% Unrecognized command
Router(config)#access
Router(config)#access-list ?
<1-99> IP standard access list
<100-199> IP extended access list
Router(config)#access-list 25 deny host 30.0.0.1
Router(config)#acce
Router(config)#access-list 25 per
Router(config)#access-list 25 permit any
Router(config)#int fa 0/0
Router(config-if)#ip access-g
Router(config-if)#ip access-group 25 out
Router(config-if)#
```

Step 4 – Now send the packet from pc2 to 10.0.0.0 network pc's , you should get failed result.

The screenshot shows a network topology in Cisco Packet Tracer. Two routers, Router14 and Router15, are connected via their Serial0/0/0 and Serial0/0/1 interfaces. Router14 is connected to two PCs (PC0 and PC1) on its Fa0/24 interface. Router15 is connected to two PCs (PC2 and PC3) on its Fa0/24 interface. A red line indicates a connection between the routers. The Realtime console shows a failed packet capture attempt from PC2 to PC1.

Fire	Last Status	Source	Destination	Type	Color	Time (sec)	Periodic	Num
●	Failed	PC2	PC1	ICMP	■	0.000	N	0