R1

Router>

Router>en

Router>enable

Router#config

Router#configure term

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#

Router(config)#

Router(config)#inter

Router(config)#interface g 0/1

%Invalid interface type and number

Router(config)#in

Router(config)#interface g 0/0

%Invalid interface type and number

Router(config)#int f 0/0

%Invalid interface type and number

Router(config)#int g 0/0

%Invalid interface type and number

Router(config)#

Router(config)#int g 0/0/0

Router(config-if)#ip address 192.168.10.1

% Incomplete command.

Router(config-if)#ip address 192.168.10.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

Router(config-if)#int

Router(config-if)#int g 0/0/1

Router(config-if)#ip address 192.168.20.1

% Incomplete command.

Router(config-if)#ip address 192.168.20.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0/1, changed state to up

Router con0 is now available

Press RETURN to get started.

Router>

Router>en

Router>enable

Router#show inter

Router#show interfaces br

^

% Invalid input detected at '^' marker.

Router#show ip br

^

% Invalid input detected at '^' marker.

Router#show ip ?

access-lists List access lists

arp IP ARP table

bgp BGP information

cache IP fast-switching route cache

cef Cisco Express Forwarding

dhcp Show items in the DHCP database

eigrp IP-EIGRP show commands

inspect CBAC (Context Based Access Control) information

interface IP interface status and configuration

ips IPS (Intrusion Prevention System) information

nat IP NAT information

nbar Network-Based Application Recognition

ospf OSPF information

protocols IP routing protocol process parameters and statistics

rip IP RIP show commands

route IP routing table

ssh Information on SSH

Router#show ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.10.0/24 is directly connected, GigabitEthernet0/0/0

L 192.168.10.1/32 is directly connected, GigabitEthernet0/0/0

192.168.20.0/24 is variably subnetted, 2 subnets, 2 masks

C 192.168.20.0/24 is directly connected, GigabitEthernet0/0/1

L 192.168.20.1/32 is directly connected, GigabitEthernet0/0/1

Router#

S0:

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#vlan 10

Switch(config-vlan)#name faculty

Switch(config-vlan)#vlan 20

Switch(config-vlan)#name students

Switch(config-vlan)#end

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan br

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

Fa0/9, Fa0/10, Fa0/11, Fa0/12

Fa0/13, Fa0/14, Fa0/15, Fa0/16

Fa0/17, Fa0/18, Fa0/19, Fa0/20

Fa0/21, Fa0/22, Fa0/23, Fa0/24

Gig0/1, Gig0/2

10 faculty active

20 students active

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#

Switch#config

Switch#configure term

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#inter

Switch(config)#interface range f 0/10-11

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 10

Switch(config-if-range)#interface range f 0/20-21

Switch(config-if-range)#switchport mode access

Switch(config-if-range)#switchport access vlan 20

Switch(config-if-range)#end

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan br

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

Fa0/9, Fa0/12, Fa0/13, Fa0/14

Fa0/15, Fa0/16, Fa0/17, Fa0/18

Fa0/19, Fa0/22, Fa0/23, Fa0/24

Gig0/1, Gig0/2

10 faculty active Fa0/10, Fa0/11

20 students active Fa0/20, Fa0/21

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#

Switch con0 is now available

Press RETURN to get started.

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

Switch>

Switch>en

Switch>enable

Switch#sh vlan br

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

Fa0/9, Fa0/12, Fa0/13, Fa0/14

Fa0/15, Fa0/16, Fa0/17, Fa0/18

Fa0/19, Fa0/22, Fa0/23, Fa0/24

Gig0/1, Gig0/2

10 faculty active Fa0/10, Fa0/11

20 students active Fa0/20, Fa0/21

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#config

Switch#configure term

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#

%LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down

%LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

%LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down

%LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up

Switch(config)#

Switch(config)#

Switch(config)#

Switch(config)#exit

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan br

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

Fa0/9, Fa0/12, Fa0/13, Fa0/14

Fa0/15, Fa0/16, Fa0/17, Fa0/18

Fa0/19, Fa0/22, Fa0/23, Fa0/24

Gig0/1, Gig0/2

10 faculty active Fa0/10, Fa0/11

20 students active Fa0/20, Fa0/21

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#

Switch#config

Switch#configure term

Switch#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Switch(config)#int g0/1

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access faculty vlan 10

^

% Invalid input detected at '^' marker.

Switch(config-if)#switchport access vlan faculty 10

^

% Invalid input detected at '^' marker.

Switch(config-if)#switchport access vlan 10

Switch(config-if)#int g 0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 20

Switch(config-if)#

Switch(config-if)#end

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#show vlan br

VLAN Name Status Ports

---- -------------------------------- --------- -------------------------------

1 default active Fa0/1, Fa0/2, Fa0/3, Fa0/4

Fa0/5, Fa0/6, Fa0/7, Fa0/8

Fa0/9, Fa0/12, Fa0/13, Fa0/14

Fa0/15, Fa0/16, Fa0/17, Fa0/18

Fa0/19, Fa0/22, Fa0/23, Fa0/24

10 faculty active Fa0/10, Fa0/11, Gig0/1

20 students active Fa0/20, Fa0/21, Gig0/2

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#