Switch:

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

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

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/20, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/21, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/21, changed state to up

Switch>

Switch>en

Switch>enable

Switch#config

Switch#configure term

Switch#configure terminal

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

Switch(config)#vlan 10

Switch(config-vlan)#name sales

Switch(config-vlan)#vlan 20

Switch(config-vlan)#name HR

Switch(config-vlan)#exit

Switch(config)#inter range f0/1-2

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

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

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

Switch(config-if-range)#exit

Switch(config)#inter range f0/20-21

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

^

% Invalid input detected at '^' marker.

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

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

Switch(config-if-range)#

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

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

Switch(config-if-range)#

Switch(config-if-range)#

Switch(config-if-range)#exit

Switch(config)#inter g 0/1

Switch(config-if)#switchport mode trunk

Switch(config-if)#

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

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

Switch(config-if)#show vlan br

^

% Invalid input detected at '^' marker.

Switch(config-if)#exit

Switch(config)#end

Switch#

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

Switch#show vlan br

VLAN Name Status Ports

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

1 default active 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, Fa0/22, Fa0/23, Fa0/24

Gig0/2

10 sales active Fa0/1, Fa0/2

20 HR active Fa0/20, Fa0/21

1002 fddi-default active

1003 token-ring-default active

1004 fddinet-default active

1005 trnet-default active

Switch#

Router:

Router>

Router>

Router>show ip inter br

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/1 unassigned YES unset administratively down down

Vlan1 unassigned YES unset administratively down down

Router>en

Router>enable

Router#config

Router#configure term

Router#configure terminal

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

Router(config)#inter g 0/0.10

Router(config-subif)#encap

Router(config-subif)#encapsulation dot1Q 10

Router(config-subif)#ip address 172.17.10.1 255.255.255.0

Router(config-subif)#inter g 0/0.10

Router(config-subif)#encapsulation dot1Q 10

Router(config-subif)#ip address 172.17.10.1 255.255.255.0

Router(config-subif)#exit

Router(config)#inter g0/0.20

Router(config-subif)#encap

Router(config-subif)#encapsulation dot1q 20

Router(config-subif)#ip address 172.17.20.1 255.255.255.0

Router(config-subif)#exit

Router(config)#end

Router#show ip inter br

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/0.10 172.17.10.1 YES manual administratively down down

GigabitEthernet0/0.20 172.17.20.1 YES manual administratively down down

GigabitEthernet0/1 unassigned YES unset administratively down down

Vlan1 unassigned YES unset administratively down down

Router#

Router#config

Router#configure ter

Router#configure terminal

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

Router(config)#inter g 0/0

Router(config-if)#no shutdown

Router(config-if)#do show ip inter br

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 unassigned YES unset up up

GigabitEthernet0/0.10 172.17.10.1 YES manual up up

GigabitEthernet0/0.20 172.17.20.1 YES manual up up

GigabitEthernet0/1 unassigned YES unset administratively down down

Vlan1 unassigned YES unset administratively down down

Router(config-if)#

Router(config-if)#

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

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

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

%LINK-5-CHANGED: Interface GigabitEthernet0/0.10, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.10, changed state to up

%LINK-5-CHANGED: Interface GigabitEthernet0/0.20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0.20, changed state to up