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# Router 0

Router>enable

Router#

Router#configure terminal

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

Router(config)#router rip

Router(config-router)#network 192.168.1.0

Router(config-router)#network 192.168.2.0

Router(config-router)#network 192.168.3.0

Router(config-router)#network 192.168.4.0

Router(config-router)#network 192.168.5.0

# Router 1

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface GigabitEthernet0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#ip address 192.168.2.1 255.255.255.0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/2

Router(config-if)#ip address 192.168.3.1 255.255.255.0

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/2

Router(config-if)#no shutdown

Router(config-if)#

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

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#no shutdown

Router(config-if)#

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

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/0

Router(config-if)#no shutdown

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#

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

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

Router(config)#interface GigabitEthernet0/0

Router(config-if)#ip dhcp pool alpha

Router(dhcp-config)#network 192.168.1.0 255.255.255.0

Router(dhcp-config)#default-router 192.168.1.1

Router(dhcp-config)#dns-server 192.168.4.2

Router(dhcp-config)#ip dhcp excluded-address 192.168.4.1 192.168.4.10

Router(config)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.1.1.

Router(config)#

Router>enable

Router#

Router#configure terminal

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

Router(config)#router rip

Router(config-router)#network 192.168.1.0

Router(config-router)#network 192.168.2.0

Router(config-router)#network 192.168.3.0

Router(config-router)#network 192.168.4.0

Router(config-router)#

Router(config-router)#

Router(config-router)#end

Router#configure terminal

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

Router(config)#interface GigabitEthernet0/2

Router(config-if)#

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface GigabitEthernet0/2

Router(config-if)#

Router(config-if)#exit

Router(config)#router rip

Router(config-router)#network 192.168.5.0

Router(config-router)#

Router(config-router)#

# Switch 1

Switch#config

Configuring from terminal, memory, or network [terminal]? t

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

Switch(config)#vtp domain DataCamp

Changing VTP domain name from NULL to DataCamp

Switch(config)#int f0/1

Switch(config-if)#switchport mode trunk

Switch(config-if)#exit

Switch(config)#int f0/2

Switch(config-if)#switchport mode trunk

Switch(config-if)#exit

Switch(config)#exit

Switch#

Switch#show vtp status

# Switch 2

Switch>en

Switch#config t

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

Switch(config)#int f0/1

Switch(config-if)#switchport mode trunk

Switch(config-if)#vtp mode Transparent

Setting device to VTP TRANSPARENT mode.

Switch(config)#exit

Switch#

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

Switch#show vtp status

VTP Version capable : 1 to 2

VTP version running : 1

VTP Domain Name : DataCamp

VTP Pruning Mode : Disabled

VTP Traps Generation : Disabled

Device ID : 00D0.9787.1500

Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00

Feature VLAN :

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

VTP Operating Mode : Transparent

Maximum VLANs supported locally : 255

Number of existing VLANs : 5

Configuration Revision : 0

MD5 digest : 0x2A 0xF2 0xA5 0xB3 0x94 0xA9 0xDF 0x5F

0x2E 0xF6 0xB1 0x9E 0x55 0x31 0xC6 0x01

Switch#

%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 FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

Switch con0 is now available

Press RETURN to get started.

%LINK-5-CHANGED: Interface FastEthernet0/4, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

# Switch 3

Switch>en

Switch#config t

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

Switch(config)#int f0/1

Switch(config-if)#switchport mode trunk

Switch(config-if)#vtp mode client

Setting device to VTP CLIENT mode.

Switch(config)#exit

Switch#

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

Switch#show vtp status

VTP Version capable : 1 to 2

VTP version running : 1

VTP Domain Name : DataCamp

VTP Pruning Mode : Disabled

VTP Traps Generation : Disabled

Device ID : 0001.96A2.D600

Configuration last modified by 0.0.0.0 at 0-0-00 00:00:00

Feature VLAN :

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

VTP Operating Mode : Client

Maximum VLANs supported locally : 255

Number of existing VLANs : 5

Configuration Revision : 0

MD5 digest : 0x2A 0xF2 0xA5 0xB3 0x94 0xA9 0xDF 0x5F

0x2E 0xF6 0xB1 0x9E 0x55 0x31 0xC6 0x01

Switch#

%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 FastEthernet0/3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

Switch con0 is now available

Press RETURN to get started

%LINK-5-CHANGED: Interface FastEthernet0/4, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

# Router 2 (2811)

Router>enable

Router#

Router#configure terminal

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

Router(config)#interface FastEthernet0/0

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 192.168.3.2 255.255.255.0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/1

Router(config-if)#ip address 192.168.5.1 255.255.255.0

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#no shutdown

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)#exit

Router(config)#interface FastEthernet0/1

Router(config-if)#no shutdown

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)#exit

Router(config)#ip dhcp pool area2

Router(dhcp-config)#network 192.168.5.0 255.255.255.0

Router(dhcp-config)#default-router 192.168.5.1

Router(dhcp-config)#dns-server 192.168.4.2

Router(dhcp-config)#option 150 ip 192.168.5.1

Router(dhcp-config)#exit

Router(config)#telephony-service

Router(config-telephony)#max-dn 9

Router(config-telephony)#max-ephones 9

Router(config-telephony)#ip source address 192.168.5.1 port 2000

^

% Invalid input detected at '^' marker.

Router(config-telephony)#ip source-address 192.168.5.1 port 2000

Router(config-telephony)#auto assign 1 to 9

Router(config-telephony)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

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%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.4.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.3.

Router(config-telephony)#

Router(config-telephony)#

Router(config-telephony)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

Router(config-telephony)#ephone%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

^

% Invalid input detected at '^' marker.

Router(config-telephony)#ephones 1

^

% Invalid input detected at '^' marker.

Router(config-telephony)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.2.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.3.

Router(config-telephony)#ephone-1

^

% Invalid input detected at '^' marker.

Router(config-telephony)#ephone%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

^

% Invalid input detected at '^' marker.

Router(config-telephony)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.2.

e

Router(config)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.3.

Router(config)#ephone-dn 1

Router(config-ephone-dn)#%LINK-3-UPDOWN: Interface ephone\_dsp DN 1.1, changed state to up

Router(config-ephone-dn)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

Router(config-ephone-dn)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.4.

numbe%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.

% Incomplete command.

Router(config-ephone-dn)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.3.

Router(config-ephone-dn)#number 1234

Router(config-ephone-dn)#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 192.168.5.1.

Router(config-ephone-dn)#e

%IPPHONE-6-REGISTER: ephone-3 IP:192.168.5.2 Socket:2 DeviceType:Phone has registered.

xit

Router(config)#ephone-dn 2

Router(config-ephone-dn)#%LINK-3-UPDOWN: Interface ephone\_dsp DN 2.1, changed state to up

Router(config-ephone-dn)#number 2244

Router(config-ephone-dn)#exit

Router(config)#ephone-dn

%IPPHONE-6-REGISTER: ephone-1 IP:192.168.5.4 Socket:2 DeviceType:Phone has registered.

% Incomplete command.

Router(config)#ephone-dn 3

Router(config-ephone-dn)#%LINK-3-UPDOWN: Interface ephone\_dsp DN 3.1, changed state to up

Router(config-ephone-dn)#number 3366

Router(config-ephone-dn)#

%IPPHONE-6-REGISTER: ephone-2 IP:192.168.5.3 Socket:2 DeviceType:Phone has registered.

Router(config-ephone-dn)#exit

Router(config)#

Router(config)#ephone-dn 7788

^

% Invalid input detected at '^' marker.

Router(config)#ephone-dn 4

Router(config-ephone-dn)#%LINK-3-UPDOWN: Interface ephone\_dsp DN 4.1, changed state to up

Router(config-ephone-dn)#number 7788

Router(config-ephone-dn)#exit

Router(config)#

Router(config)#

Router(config)#router rip

Router(config-router)#network 192.168.1.0

Router(config-router)#network 192.168.2.0

Router(config-router)#network 192.168.3.0

Router(config-router)#network 192.168.4.0

Router(config-router)#network 192.168.5.0

Router(config-router)#

# Switch 4

Switch>en

Switch#config tr

^

% Invalid input detected at '^' marker.

Switch#config t

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

Switch(config)#int range f0/1-3

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

Switch(config-if-range)#switchport voice vlan 1

Switch(config-if-range)#