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CN LAB 11

TASK:

ASSIGN VLAN TO PORTS AND THEN INTER VLAN

```
Switch>
Switch>enable
Switch#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#host mang-switch
mang-switch(config)#vlan 10
mang-switch(config-vlan)#name Management
mang-switch(config-vlan)#exit
mang-switch(config)#int range fa0/3 - 6
mang-switch(config-if-range)#switchport mode access
mang-switch(config-if-range)#switchport access vlan 10
mang-switch(config-if-range)#exit
mang-switch(config)#vlan 20
mang-switch(config-vlan)#name Technical
mang-switch(config-vlan)#exit
mang-switch(config)#vlan 30
mang-switch(config-vlan)#name Sales
mang-switch(config-vlan)#exit
mang-switch(config)#int fa0/7
mang-switch(config-if)#switchport mode trunk

mang-switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to up

mang-switch(config-if)#switchport trunk vlan 10,20,30
^
% Invalid input detected at '^' marker.

mang-switch(config-if)#switchport trunk allowed vlan 10,20,30
mang-switch(config-if)#exit
mang-switch(config)#
```

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IOS Command Line Interface

```
%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/7, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to up

Switch>
Switch>en
Switch#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#host tech-switch
tech-switch(config)#vlan 20
tech-switch(config-vlan)#name Technical
tech-switch(config-vlan)#exit
tech-switch(config)#int range fa0/3 - 6
tech-switch(config-if-range)#switchport mode access
tech-switch(config-if-range)#switchport access vlan 20
tech-switch(config-if-range)#exit
tech-switch(config)#vlan 10
tech-switch(config-vlan)#name Management
tech-switch(config-vlan)#exit
tech-switch(config)#vlan 30
tech-switch(config-vlan)#name Sales
tech-switch(config-vlan)#exit
tech-switch(config)#int fa0/7
tech-switch(config-if)#switchport mode trunk

tech-switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to up

tech-switch(config-if)#switchport trunk allowed vlan 10,20,30
tech-switch(config-if)#exit
tech-switch(config)#
```

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Sales Department

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/6, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/7, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/7, changed state to up

Switch>
Switch>en
Switch#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#host sales-switch
sales-switch(config)#vlan 30
sales-switch(config-vlan)#name Sales
sales-switch(config-vlan)#exit
sales-switch(config)#int range fa0/4 - 7
sales-switch(config-if-range)#switchport mode access
sales-switch(config-if-range)#switchport access vlan 30
sales-switch(config-if-range)#exit
sales-switch(config)#vlan 10
sales-switch(config-vlan)#name Management
sales-switch(config-vlan)#exit
sales-switch(config)#vlan 20
sales-switch(config-vlan)#name Technical
sales-switch(config-vlan)#exit
sales-switch(config)#
sales-switch(config)#
sales-switch(config)#int fa0/1
sales-switch(config-if)#switchport mode trunk

sales-switch(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down

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

sales-switch(config-if)#switchport trunk allowed vlan 10,20,30
sales-switch(config-if)#exit
sales-switch(config)#
```

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Inter vlan in router

IOS Command Line Interface

export@cisco.com.

Cisco 1841 (revision 5.0) with 114688K/16384K bytes of memory.
Processor board ID FTX0947218E
M860 processor: part number 0, mask 49
2 FastEthernet/IEEE 802.3 interface(s)
191K bytes of NVRAM.
63488K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M), Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: n

Press RETURN to get started!

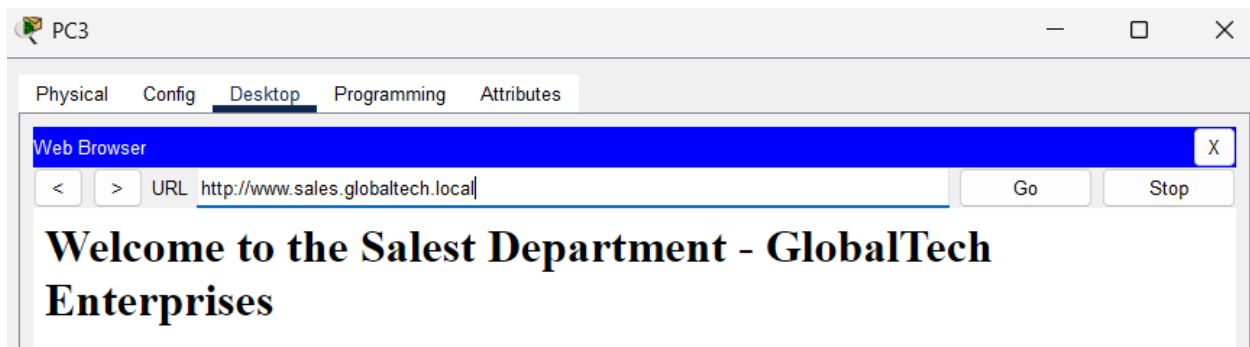
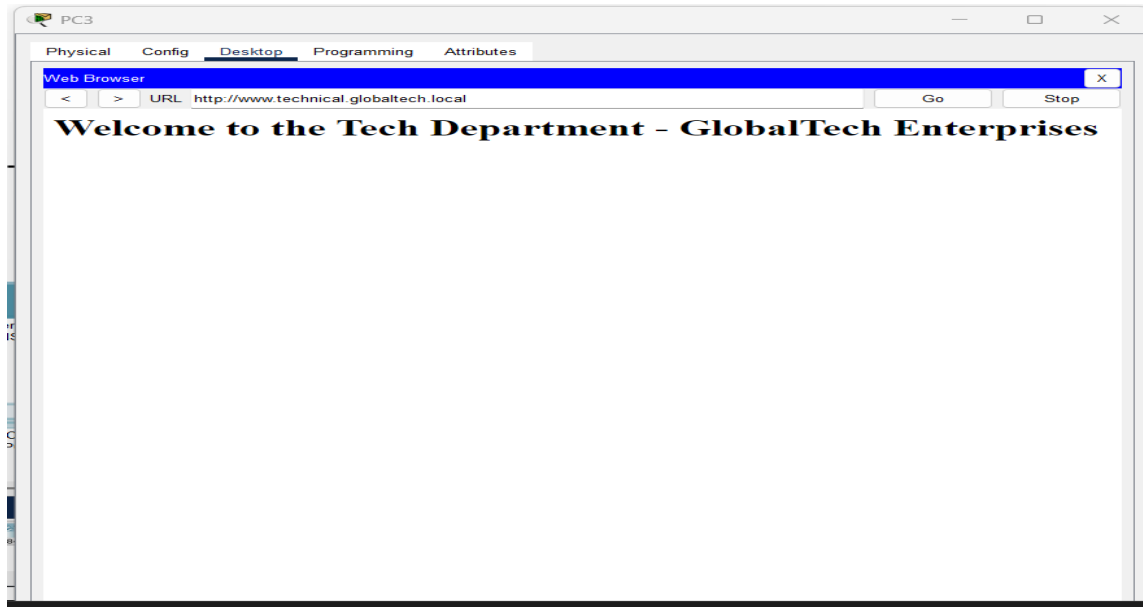
```
Router>
Router>en
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int f0/0.10
Router(config-subif)#encapsulation dot1Q 10
Router(config-subif)#ip address 192.168.10.1 255.255.255.0
Router(config-subif)#exit
Router(config)#int fa0/0.20
Router(config-subif)#encapsulation dot1Q 20
Router(config-subif)#ip address 192.168.20.1 255.255.255.0
Router(config-subif)#exit
Router(config)#int fa0/0.30
Router(config-subif)#encapsulation dot1Q 30
Router(config-subif)#ip address 192.168.30.1 255.255.255.0
Router(config-subif)#exit
Router(config)#
```

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DNS SERVICE AND HTTP

From same pc access all vlans web page



All config in central switch

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

VLAN	Name	Status	Ports
1	default	active	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	Management	active	
20	Technical	active	
30	Sales	active	
1002	fddi-default	active	
1003	token-ring-default	active	
1004	fddinet-default	active	
1005	trnet-default	active	

Switch#show int trunk

Port	Mode	Encapsulation	Status	Native vlan
Fa0/1	on	802.1q	trunking	1
Fa0/2	auto	n-802.1q	trunking	1
Fa0/3	auto	n-802.1q	trunking	1
Fa0/4	on	802.1q	trunking	1

Port Vlans allowed on trunk

Fa0/1	1-1005
Fa0/2	1-1005
Fa0/3	1-1005
Fa0/4	1-1005

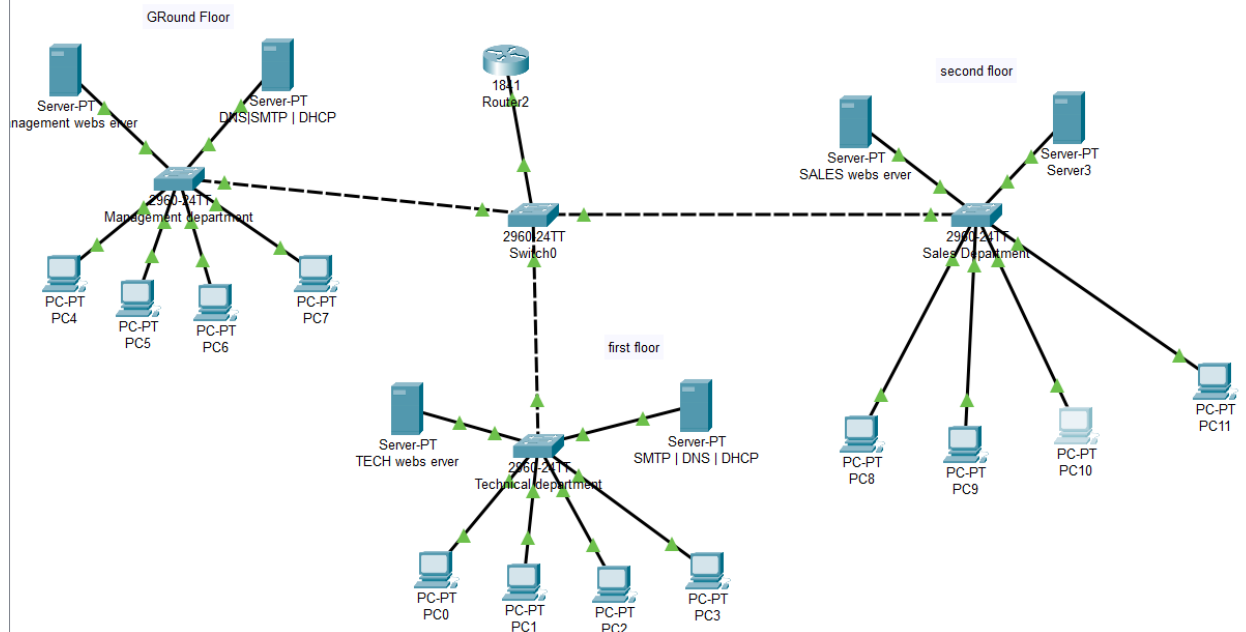
Port Vlans allowed and active in management domain

Fa0/1	1,10,20,30
Fa0/2	1,10,20,30
Fa0/3	1,10,20,30
Fa0/4	1,10,20,30

Port Vlans in spanning tree forwarding state and not pruned

Fa0/1	1,10,20,30
Fa0/2	1,10,20,30
Fa0/3	1,10,20,30

--More--



[circuit link](#)