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# Question 1

| Jan 2025    | 5 | | --- |      | 3 | | --- |            | ---------------------------------  SW2  ---------------------------------  vlan 10  name Lecturer  vlan 15  name Admin  int f0/1  switchport mode access  switchport access vlan 10  no shutdown  int f0/2  switchport mode access  switchport access vlan 15  no shutdown  int range f0/1-2  switchport mode trunk  switchport trunk allowed vlan 10,15  no shutdown  ---------------------------------  R1  ---------------------------------  int g0/0  no shutdown  int g0/0.10  encapsulation dot1q 10  ip address 192.168.10.1 255.255.255.128  no shutdown  int g0/0.15  encapsulation dot1q 15  ip address 192.168.10.129 255.255.255.128  no shutdown | | --- | |
| --- | --- | --- | --- |
| Oct 2024    | 3 | | --- |      | 3 | | --- |            | **Device** | **Errors with Explanation** | **Proposed Solution** | | --- | --- | --- | | SwitchA | Interface Fa0/5 should be in vlan 40 but current is in vlan 1 | interface f0/5  switchport mode access  switchport access vlan 40 | | SwitchB | Interface fa0/6 should be in vlan 50 but current is in vlan 1 | interface f0/6  switchport mode access  switchport access vlan 50 |      | -------------------------------  Office\_Router  -------------------------------  int g0/1  no shutdown  int g0/1.40  encapsulation dot1q 40  ip address 192.168.40.1 255.255.255.0  no shutdown  int g0/1.50  encapsulation dot1q 50  ip address 192.168.50.1 255.255.255.0  no shutdown  int g0/1.60  encapsulation dot1q 60  ip address 192.168.60.1 255.255.255.0  no shutdown  -------------------------------  SwitchA  -------------------------------  int f0/2  switchport mode trunk  switchport trunk allowed vlan 40,50,60  no shutdown  int f0/5  switchport mode access  switchport access vlan 50  no shutdown  interface range g0/1, f0/2  switchport access vlan 60 | | --- | |
| May 2024    | 5 | | --- |      | 3 | | --- |              | SwitchA: F0/1, F0/2  SwitchB: F0/2, F0/0, F0/1 | | --- | |

# Question 2

| Jan 2025    | SW4 | | --- |      | SW3: G0/1  SW2: G0/2  SW1: G0/2 | | --- |      | SW4: G0/1, G0/2  SW3: G0/2, Fa0/1  SW2: G0/1 | | --- |      | SW1: G0/1  SW2: Fa0/1 | | --- |   Reference         | pagp | | --- |      | * Assign wrong switchport mode for both Fa0/3 and Fa0/4 * Assign wrong duplex for both interface Fa0/3 and Fa0/4 * Assign wrong switchport mode for the port-channel1 | | --- |      | * Reconfigure the switchport mode for interface Fa0/3 and Fa0/4 using command "switchport mode trunk" * Reconfigure the duplex of both interface Fa0/3 and Fa0/4 using command "duplex full" * Reconfigure the switchport mode to trunk of interface port-channel1 using command "switchport mode trunk" | | --- |        | int fa0/0.10  no standby 3 preempt  standby 1 ip 192.168.10.3  int fa0/0.20  no standby 4 preempt  standby 2 ip 192.168.20.4  standby 2 priority 105  standby 2 preempt | | --- | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Oct 2024    | SW2 | | --- |      | SW2: Fa0/1  SW3: Fa0/2 | | --- |      | SW1: Fa0/1, Fa0/2  SW3: Fa0/1 | | --- |      | SW2: Fa0/2 | | --- |   Reference       |  | | --- |        | Errors   * Configure wrong switchport mode for the interface Fa0/11 and Fa0/12 * Configure wrong channel-group mode for the interface Fa0/11 and Fa0/12   Solution   * Reconfigure the switchport mode to trunk for the interface Fa0/11 and Fa0/12 using command "switchport mode trunk" * Reconfigure the channel-group mode to active for the interface Fa0/11 and Fa0/2 using the command "no channel-group 1" then "channel-group 1 mode active" | | --- |      |  | | --- |      |  | | --- |      | interface G0/0  standby 0 version 2  standby 0 ip 192.168.1.2 255.255.255.0  standby 0 priority 200  standby 0 preempt | | --- | |
| May 2024        | **Device** | **Errors with Explanation** | **Proposed Solution** | | --- | --- | --- | | SW1 | Interface F0/6 did not assign to the correct vlan, current is at the vlan 1 | Configure the interface F0/6 to vlan 10 using command "switchport mode access" then "switchport access vlan 10" | | SW2 | Interface F0/8 did not assign to the correct vlan, current is at the vlan 1 | Configure the interface F0/8 to vlan 20 using command "switchport mode access" then "switchport access vlan 20" |      | Router  interface G0/0  no shutdown  interface G0/0.10  encapsulation dot1q 10  ip address 192.168.10.1 255.255.255.0  no shutdown  interface G0/0.20  encapsulation dot1q 20  ip address 192.168.20.1 255.255.255.0  no shutdown  SW1  interface G0/1  switchport mode trunk  switchport trunk allowed vlan 10,20 | | --- |      | SW0 | | --- |      | SW1: Fa0/1  SW3: Fa0/2  SW2: Fa0/1 | | --- |      | SW0: Fa0/1, Fa0/2  SW1: Fa0/2  SW2: Fa0/2 | | --- |      | SW3: Fa0/1 | | --- |   Reference |

# Question 3

| Jan 2025       Module 14      Tut 7    Module 14    Tut 10, Module 12.6    Tut 10 |
| --- |
| Oct 2024     Tut 7, Module 14    Module 14    Tut 7    Module 14    Module 12.8, Tut 10    Module 12.8, Tut 10 |
| May 2024        | **Errors** | **Correction** | | --- | --- | | The port mode of interface Fa0/1 have configured to the wrong mode which is access mode. | Reconfigure the port mode of interface Fa0/1 to trunk mode by using command "switchport mode trunk" | | The trunk allowed vlan of interface Fa0/1 have assign wrong vlan. It configure the vlan 50 but suppose should be vlan 30 | Reconfigure the trunk allowed vlan to vlan 10, 20, 30 using command "switchport trunk allowed vlan 10,20,30" | | The port mode of interface Fa0/2 have configured to the wrong mode which is access mode. | Reconfigure the port mode of Fa0/2 to trunk mode by using command "switchport mode trunk" |      | Router A | | --- |      | 192.168.2.1 | | --- |     Tut 6   |  | | --- | |

# Question 4

| Jan 2025    | interface Fa0/1  switchport port-security  switchport port-security violation shutdown  switchport port-security maximum 1 | | --- |     Module 11    Module 11.1   | * Protect * Restrict * Shutdown | | --- |     Module 10.2, Tut 8    Module 11.3, Tut 9.1     | ip dhcp snooping  ip dhcp snooping limit rate 6  ip dhcp snooping vlan 1 | | --- | |
| --- | --- | --- | --- |
| Oct 2024   Module 10.2    Module 10.2    Module 10.7    Module 10.7     | * To point to interface F0/11   + interface F0/11 * To configure the access mode for interface F0/11   + switchport mode access * To configure the interface F0/11 as part of VLAN 20   + switchport access VLAN 20 * To enable the port-security for configure the secure rules   + switchport port-security * Set the maximum number of MAC address that allow on the interface by configuring port-security   + switchport port-security maximum 2 * Assign the MAC address in port-security as sticky which will dynamically learn and record the Mac address   + switchport port-security mac-address sticky * To configure the violation to restrict the additional MAC address on the port-security   + switchport port-security violation restrict | | --- | |
| May 2024   Tut 8 Q1    Module 10.2     | interface F0/12  switchport access vlan 33  switchport port-security  switchport port-security mac-address sticky  switchport port-security maximum 3  switchport port-security restrict | | --- |     Module 10.4    Module 10.4    Tut 9 Q1, Module 10.4 |