实验三

**SRWE Practice PT Skills Assessment (PTSA) - Part 2**

A few things to keep in mind while completing this activity:

1. Do not use the browser Back button or close or reload any exam windows during the exam.
2. Do not close Packet Tracer when you are done. It will close automatically.
3. Click the Submit Assessment button in the browser window to submit your work.

**Addressing Table**

| **Device** | **Interface** | **Address and Prefix** |
| --- | --- | --- |
| Central | G0/0/0 | 192.168.1.1/24 |
| Central | G0/0/0 | 2001:db8:acad:1::1/64 |
| Central | G0/0/0 | fe80::1 |
| Central | G0/0/1 | 192.168.2.1/24 |
| Central | G0/0/1 | 2001:db8:acad:2::1/64 |
| Central | G0/0/1 | fe80::1 |
| Central | G0/0/2 | 10.1.0.1/30 |
| Central | G0/0/2 | 2001:db8:acad:a::1/64 |
| Central | G0/0/2 | fe80::2 |
| Central | S0/1/0 | 10.2.0.1/30 |
| Central | S0/1/0 | 2001:db8:acad:b::1/64 |
| Central | S0/1/0 | fe80::2 |
| Central | S0/1/1 | 10.4.0.1/30 |
| Central | S0/1/1 | 2001:db8:acad:d::1/64 |
| Office-1 | S0/1/1 | 10.4.0.2/30 |
| Office-1 | S0/1/1 | 2001:db8:acad:d::2/64 |
| Office-1 | S0/1/1 | fe80::2 |
| Office-1 | G0/0/0 | 192.168.3.1/24 |
| Office-1 | G0/0/0 | 2001:db8:acad:3::1/64 |
| Office-1 | G0/0/0 | fe80::1 |
| Branch-101 | G0/0/0.10 | 192.168.10.1/24 |
| G0/0/0.100 | 192.168.100.1/24 |
| Branch-101 | G0/0/0.172 | 172.16.1.1/24 |
| Branch-101 | G0/0/1 | DHCP |
| Branch-101 | G0/0/1 | 2001:db8:acad:c::2/64 |
| Branch-101 | S0/1/0 | 10.2.0.2/30 |
| Branch-101 | S0/1/0 | 2001:db8:acad:b::2/64 |
| ISP Router | G0/0/0 | 10.1.0.2/24 |
| ISP Router | G0/0/0 | 2001:DB8:ACAD:A::2/64 |
| ISP Router | G0/0/1 | 10.3.0.1/24 |
| ISP Router | G0/0/1 | 2001:DB8:ACAD:C::1/64 |
| WLC-10 | management | 192.168.100.254 |
| WLC-10 | WLAN 10 | 192.168.10.254/24 |
| Server-O1 | NIC | 192.168.3.122 |
| Server-O1 | NIC | 2001:db8:acad:3::122 |
| Internet Server | NIC | 203.0.113.25 |
| Internet Server | NIC | 2001:db8:acad:cafe:25 |
| DNS Server | NIC | 198.51.100.163 |
| DNS Server | NIC | 2001:DB8:face::163 |
| Management Host | NIC | 192.168.100.23 |
| Wireless Host | NIC | DHCP |
| RADIUS server | NIC | 172.16.1.100/24 |
| PC-A | NIC | 192.168.1.10/24 |
| ERROR: VARIABLE NOT FOUND [[Host 1\_name]] | NIC | 2001:db8:acad:1::10/64 |
| PC-B | NIC | 192.168.1.11/24 |
| ERROR: VARIABLE NOT FOUND [[Host 2\_name]] | NIC | 2001:db8:acad:1::11/64 |
| PC-C | NIC | 192.168.2.20/24 |
| ERROR: VARIABLE NOT FOUND [[Host 3\_name]] | NIC | 2001:db8:acad:2::20/64 |
| PC-D | NIC | 192.168.2.11/24 |
| ERROR: VARIABLE NOT FOUND [[Host 4\_name]] | NIC | 2001:db8:acad:2::21/64 |
| PC-E | NIC | 192.168.3.30/24 |
| ERROR: VARIABLE NOT FOUND [[Host 5\_name]] | NIC | 2001:db8:acad:3::30/64 |

**Objectives**

In this assessment, you will configure the following:

=   Floating static and default routes in IPv4 and IPv6.

=   Host routes in IPv4 and IPv6.

=   DHCP pools and scopes.

=   Switch security including port security.

=   Enhanced LAN security with DHCP snooping, dynamic ARP inspection, PortFast, and BPDU guard.

=   Wireless LAN Controller-based wireless LAN with enterprise authentication.

You will only configure the **Central** and **Branch-101** routers, the **S1-1** switch, and the **WLC-10** wireless LAN controller. Access to other devices is not available.

**Background / Scenario**

Netacad PLC is reworking their network. You have been asked to prototype the network in Packet Tracer for evaluation by senior network staff.

**Instructions**

**Part 1: Configure Switch Security**

In this part of the assessment you will configure switch **S1-1** with switch security features. Switch ports FastEthernet0/1 to FastEthernet0/5 are the active switch ports. Port GigabitEthernet0/1 is a dedicated link to router Central. All other ports should be secured.

**Step 1: Configure VLANs**

a.      Configure VLAN 10 with name **users**.

b.      Configure VLAN 999 with the name **unused**.

**Step 2: Configure active switch ports.**

On the active switch ports configure the following:

a.      Configure FastEthernet 0/1 through 0/5 and GigabitEthernet 0/1 as static access ports in VLAN 10.

b.      Activate port security on the ports.

1)     Configure the active ports to accept a maximum of **4** MAC addresses.

2)     If a violation occurs, configure the ports to drop frames from the unauthorized MAC address, log it, and send an alert.

3)     MAC addresses should be present in the MAC address table for a maximum of 10 minutes before they are removed.

4)     Ports should add the learned MAC addresses to the running configuration.

5)     Configure the MAC address of **PC-A** as a static address on port FastEthernet0/1.

c.      Protect against DHCP snooping.

**Note:** In this simulated network, DHCP snooping may not operate correctly in Packet Tracer. Configure it as you would normally. You will receive full credit for a configuration that meets the requirements below.

1)     Activate DHCP snooping globally.

2)     Activate DHCP snooping for the two VLANs that you configured.

3)     Configure the ports to limit the rate to 5 DHCP packets per second.

4)     Configure the port that links to the router as trusted.

d.      Guard against ARP attacks by implementing DAI.

1)     Activate DAI globally.

2)     Activate DAI on the two VLANs.

3)     Configure the port that links to the router as trusted.

e.      Mitigate STP attacks by configuring BPDUguard and PortFast on the active ports.

**Step 3: Secure unused switch ports.**

a.      Move **all** unused switch ports to VLAN 999.

b.      Configure all unused switch ports as static access ports.

c.      Deactivate all unused switch ports.

**Part 2: Configure Addressing and DHCP**

You will configure DHCP and interface addressing on router Branch-101 to prepare for implementing the wireless LAN controller network.

**Step 1: Configure and address a subinterface for the WLAN user network.**

a.      Configure subinterface 10 on the router interface that is connected to the switch S4-1.

b.      The router should provide router-on-a-stick routing to VLAN 10.

c.      Configure the subinterface with the address from the Addressing Table.

**Step 2: Configure a DHCP pool for WLAN user network.**

a.      Exclude the router interface address and the management address of the WLC.

b.      Configure a DHCP pool that will be used by hosts that are connecting to the WLAN.

1)     Name the pool **WLAN-hosts**.

2)     Configure the pool to use addresses in the 192.168.10.0/24 network.

3)     The pool should also provide the default gateway and DNS server addresses.

**Step 3: Configure an interface as a DHCP client.**

On Branch-101, configure the interface that is connected to ISP Router to receive its address over DHCP.

**Part 3: Configure Static Routes**

In this part of the assessment you will configure static, default, floating static, and host routes in both IPv4 andI Pv6. You will configure the Central and Branch-101 routers. Netacad PLC has decided that it wants to use static routing between all its networks. In addition, the company wants to use the Ethernet links between routers for most data traffic and reserve serial link between Central and Branch-101 for backup purposes in case one of the Ethernet links becomes unavailable. You will be configuring floating static and default routes.

**Step 1: Configure static routes on Central.**

a.      Configure IPv4 default routes to the cloud using the Ethernet link as the preferred link and the serial link as the floating backup. Use an administrative distance of **10** for the backup route. These routes should be configured as directly connected routes.Â

**Note**: Ethernet interfaces will give a warning when configured without a next-hop address.Â In this configuration, the interface is point-to-point, so the warning can be ignored.

b.      Configure IPv4 static routes to the Remote Branch LAN WLAN user network following the same guidelines as above for type of route and administrative distance.

c.      Configure an IPv4 host route on Central to the Server-O1 on the Remote Office LAN. Create a directly connected route.

**Note:** For the purpose of this assessment, please enter the IPv4 static routes in the following order:

1)     IPv4 default route

2)     IPv4 floating default route

3)     IPv4 host route

4)     IPv4 static route to Remote Branch LAN

5)     IPv4 floating static route to Remote Branch LAN

d.      Ensure that the device is configured to route IPv6.

e.      Configure IPv6 default routes to the cloud. Use the Ethernet link as the primary route, and the serial link as the floating backup. Use an administrative distance of **10** for the backup route. These routes should specify the next hop interface address.

f.       Configure an IPv6 host route on Central to the Server-O1 on the Remote Office LAN It should be a next-hop route.

**Note:** For the purpose of this assessment, please enter the IPv6 static routes in the following order:

1)     IPv6 default route

2)     IPv6 floating default route

3)     IPv6 host route

**Step 2: Configure static routes on Branch-101.**

Branch-101 must also be configured with static routes to the other three networks in the Netacad PLC network. It will require floating static and default routes in IPv4 and IPv6 following the same guidelines as were used for the Central static routes.

o   IPv6 routes use next-hop address arguments.

o   IPv4 routes use exit interface arguments.

o   All routes should prefer the Ethernet links over the serial link.

o   Backup floating routes use an administrative distance of 10.

a.      Configure IPv4 default routes to the cloud using the Ethernet link as the preferred link and the serial link as the backup.

**Note:** For the purpose of this assessment, please enter the IPv4 static routes in the following order:

1)     IPv4 default route

2)     IPv4 floating default route

b.      Ensure that the device is configured to route IPv6.

c.      Configure IPv6 default routes to the cloud. Use the Ethernet link as the primary route, and the serial link as backup. Use an administrative distance of **10** for the backup route. These routes should specify the next hop interface address.

**Note:** For the purpose of this assessment, please enter the IPv6 static routes in the following order:

1)     IPv6 default route

2)     IPv6 floating default route

**Part 4: Configure a Wireless LAN using a Wireless LAN Controller**

In this part of the assessment, you will configure the wireless LAN controller to provide access wireless access to the network. Username and password are the default **admin/admin**. Connect to the WLC over HTTPS to the management interface.

**Step 1: Configure a VLAN interface.**

a.      Create a new interface and name it **WLAN 10**. The interface should use VLAN **10**and physical port**1**.

b.      Use the information in the addressing table to configure the addressing settings for the interface. The interface will be using a DHCP pool that is configured on the subinterface that is assigned to VLAN 10 on router Branch-101.

**Step 2: Configure a RADIUS server.**

a.      Configure the WLC with the RADIUS server IPv4 address.

b.      Use a shared secret of **RADsecret**.

**Step 3: Configure a Wireless LAN.**

a.      Create a new WLAN. Name it **WLAN 10** and configure the SSID as **SSID-10**.

b.      The wireless LAN should use the VLAN interface that was previously configured.

c.      Configure the WLAN to use the WPA2 security policy and dot1x Authentication Key Management.

d.      Configure the WLAN to use the RADIUS server that was previously configured to authenticate wireless users.

e.      Open the Advanced tab and scroll down to the Flexconnect sections. Activate FlexConnect Local Switching and FlexConnect Local Auth.

f.       Verify that the WLAN is configured and operational.

**Step 4: Configure a DHCP scope for the management network.**

Configure a new DHCP scope to be used by the LAPs and other management devices on the network.

a.      Name the DHCP scope **Wired\_Admin**.

b.      Start the scope at address **192.168.100.240**. End the scope at address **192.168.100.249**.

c.      Other information that is required can be found in the Addressing Table.

**Step 5: Configure an SNMP server.**

Configure an SNMP server to receive traps from the WLC.

a.      Use the community name **branch-wireless**.

b.      Use **172.16.1.100** as the server address.

**Step 6: Configure the wireless host.**

Configure the Laptop to connect to the WLAN.

a.      Create a new wireless profile on the host. Use the name **work net** for the profile.

b.      Configure the profile for the SSID of the WLAN.

c.      Use enterprise authentication with a username of **user1** and password of **user1Pass**.

d.      When you are finished, click **Connect to Network**. It will take time for the connection to be established.

得分点

**Performance Component: DHCP and Addressing**

Description:  
Maximum Points = 15  
Earned Points = 15

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work Product Feature** | | | **Student Result** | **Earned Points** | **Max Points** |
| DHCP and Addressing | | | | 15 | 15 |
|  | CO: Configure DHCP Server | | | 6 | 6 |
|  |  | *Network:[[R3\_name]]:DHCP Server:Pools:WLAN-hosts:DNS Server* | *Correct* |  |  |
|  |  | *Network:[[R3\_name]]:DHCP Server:Pools:WLAN-hosts:Default Gateway* | *Correct* |  |
|  |  | *Network:[[R3\_name]]:DHCP Server:Pools:WLAN-hosts:Network Address* | *Correct* |  |
|  |  | *Network:[[R3\_name]]:DHCP Server:Pools:WLAN-hosts:Subnet mask* | *Correct* |  |
|  |  | *Network:[[R3\_name]]:DHCP Server:Excluded Addresses:192.168.10.1* | *Correct* |  |
|  |  | *Network:[[R3\_name]]:DHCP Server:Excluded Addresses:192.168.10.254* | *Correct* |  |
|  | Configure Interface as DHCP Client | | | 3 | 3 |
|  |  | *Network:[[R3\_name]]:Ports:GigabitEthernet0/0/1:DHCP client enable* | *Correct* |  |  |
|  | Configure a router subinterface | | | 6 | 6 |
|  |  | *Network:[[R3\_name]]:Ports:GigabitEthernet0/0/0.10:802.1Q:VLAN ID* | *Correct* |  |  |
|  |  | *Network:[[R3\_name]]:Ports:GigabitEthernet0/0/0.10:IP Address* | *Correct* |  |
|  |  | *Network:[[R3\_name]]:Ports:GigabitEthernet0/0/0.10:Subnet Mask* | *Correct* |  |

**Performance Component: Switch Port Security**

Description:  
Maximum Points = 17  
Earned Points = 17

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work Product Feature** | | | **Student Result** | **Earned Points** | **Max Points** |
| Switch Port Security | | | | 17 | 17 |
|  | Configure basic port security | | | 2 | 2 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Access VLAN* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Port Security:Enabled* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Port Security:Enabled* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Port Security:Enabled* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Port Security:Enabled* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Port Security:Enabled* | *Correct* |  |
|  | Configure static MAC address | | | 2 | 2 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Port Security:MAC:00D0.D3DC.2825* | *Correct* |  |  |
|  | Configure Maximum MAC addresses | | | 2 | 2 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Port Security:Max Secure Mac* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Port Security:Max Secure Mac* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Port Security:Max Secure Mac* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Port Security:Max Secure Mac* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Port Security:Max Secure Mac* | *Correct* |  |
|  | Configure violation result | | | 2 | 2 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Port Security:Violation* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Port Security:Violation* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Port Security:Violation* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Port Security:Violation* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Port Security:Violation* | *Correct* |  |
|  | Configure sticky learning | | | 2 | 2 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Port Security:Sticky Enabled* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Port Security:Sticky Enabled* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Port Security:Sticky Enabled* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Port Security:Sticky Enabled* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Port Security:Sticky Enabled* | *Correct* |  |
|  | Configure MAC address aging | | | 2 | 2 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Port Security:Aging Time* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Port Security:Aging Time* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Port Security:Aging Time* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Port Security:Aging Time* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Port Security:Aging Time* | *Correct* |  |
|  | Secure unused ports | | | 3 | 3 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/6:Power* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/6:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/6:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/7:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/7:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/7:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/8:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/8:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/8:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/9:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/9:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/9:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/10:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/10:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/10:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/11:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/11:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/11:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/12:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/12:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/12:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/13:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/13:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/13:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/14:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/14:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/14:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/15:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/15:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/15:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/16:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/16:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/16:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/17:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/17:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/17:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/18:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/18:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/18:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/19:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/19:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/19:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/20:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/20:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/20:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/21:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/21:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/21:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/22:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/22:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/22:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/23:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/23:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/23:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/24:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/24:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/24:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:GigabitEthernet0/2:Power* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:GigabitEthernet0/2:Access VLAN* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:GigabitEthernet0/2:Dynamic Mode* | *Correct* |  |
|  | Configure VLANs | | | 2 | 2 |
|  |  | *Network:[[Switch0\_name]]:VLANS:10:VLAN Name* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:VLANS:999:VLAN Name* | *Correct* |  |

**Performance Component: Configure Other Switch Security Features**

Description:  
Maximum Points = 20  
Earned Points = 13

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work Product Feature** | | | **Student Result** | **Earned Points** | **Max Points** |
| Configure Other Switch Security Features | | | | 13 | 20 |
|  | Configure DHCP snooping | | | 0 | 7 |
|  |  | ***Network:[[Switch0\_name]]:DHCP Snooping:Enabled*** | ***Incorrect*** |  |  |
|  |  | ***Network:[[Switch0\_name]]:DHCP Snooping:VLANs:Vlan 10*** | ***Incorrect*** |  |
|  |  | ***Network:[[Switch0\_name]]:DHCP Snooping:VLANs:Vlan 999*** | ***Incorrect*** |  |
|  | Configure Dynamic Arp Inspection | | | 7 | 7 |
|  |  | *Network:[[Switch0\_name]]:Dynamic Arp Inspection:DAI Vlans:10* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Dynamic Arp Inspection:DAI Vlans:999* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Dynamic Arp Inspection:DAI Ports:GigabitEthernet0/1:Trusted* | *Correct* |  |
|  | Configure STP secure features | | | 6 | 6 |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Bpduguard* | *Correct* |  |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:PortFast* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/1:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Bpduguard* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:PortFast* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/2:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Bpduguard* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:PortFast* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/3:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Bpduguard* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:PortFast* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/4:Dynamic Mode* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Bpduguard* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:PortFast* | *Correct* |  |
|  |  | *Network:[[Switch0\_name]]:Ports:FastEthernet0/5:Dynamic Mode* | *Correct* |  |

**Performance Component: Wireless LAN Controller Configuration**

Description:  
Maximum Points = 30  
Earned Points = 18

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work Product Feature** | | | **Student Result** | **Earned Points** | **Max Points** |
| Wireless LAN Controller Configuration | | | | 18 | 30 |
|  | Configure a VLAN interface on a WLC | | | 0 | 4 |
|  |  | ***Network:WLC-10:Ports:WLAN 10:VLAN Identifier*** | ***Incorrect*** |  |  |
|  | Configure VLAN interface addressing | | | 0 | 5 |
|  |  | ***Network:WLC-10:Ports:WLAN 10:IP Address*** | ***Incorrect*** |  |  |
|  |  | ***Network:WLC-10:Ports:WLAN 10:Subnet Mask*** | ***Incorrect*** |  |
|  |  | ***Network:WLC-10:Ports:WLAN 10:Port Gateway*** | ***Incorrect*** |  |
|  |  | ***Network:WLC-10:Ports:WLAN 10:DHCP Server IP*** | ***Incorrect*** |  |
|  | Configure RADIUS user authentication | | | 3 | 3 |
|  |  | *Network:WLC-10:CAPWAP Wireless:Security:RADIUS Servers:1:Address* | *Correct* |  |  |
|  |  | *Network:WLC-10:CAPWAP Wireless:Security:RADIUS Servers:1:Secret* | *Correct* |  |
|  | Configure a wireless LAN | | | 4 | 4 |
|  |  | *Network:WLC-10:CAPWAP Wireless:Wireless LANs:WLAN 10:Enabled* | *Correct* |  |  |
|  |  | *Network:WLC-10:CAPWAP Wireless:Wireless LANs:WLAN 10:SSID* | *Correct* |  |
|  |  | *Network:WLC-10:CAPWAP Wireless:Wireless LANs:WLAN 10:VLAN* | *Correct* |  |
|  | Configure WLAN security | | | 4 | 4 |
|  |  | *Network:WLC-10:CAPWAP Wireless:Wireless LANs:WLAN 10:Security Mode:Radius Server Address* | *Correct* |  |  |
|  | Configure a DHCP scope | | | 5 | 5 |
|  |  | *Network:WLC-10:DHCP Server List:DHCP Server:Pools:Wired\_Admin:Name* | *Correct* |  |  |
|  |  | *Network:WLC-10:DHCP Server List:DHCP Server:Pools:Wired\_Admin:Network Address* | *Correct* |  |
|  |  | *Network:WLC-10:DHCP Server List:DHCP Server:Pools:Wired\_Admin:Subnet mask* | *Correct* |  |
|  |  | *Network:WLC-10:DHCP Server List:DHCP Server:Pools:Wired\_Admin:Start IP address* | *Correct* |  |
|  |  | *Network:WLC-10:DHCP Server List:DHCP Server:Pools:Wired\_Admin:Default Gateway* | *Correct* |  |
|  |  | *Network:WLC-10:DHCP Server List:DHCP Server:Pools:Wired\_Admin:Max Users* | *Correct* |  |
|  | Configure a SNMP server address on a WLC | | | 2 | 2 |
|  |  | *Network:WLC-10:SNMP:Trap Receivers:branch-wireless:Receiver IP* | *Correct* |  |  |
|  |  | *Network:WLC-10:SNMP:Trap Receivers:branch-wireless:Community Name* | *Correct* |  |
|  | Configure a wireless host | | | 0 | 3 |
|  |  | ***Network:[[WLAN-Host\_name]]:Wireless:SSID*** | ***Incorrect*** |  |  |
|  |  | ***Network:[[WLAN-Host\_name]]:Wireless:Security Mode:Authen Type*** | ***Incorrect*** |  |
|  |  | ***Network:[[WLAN-Host\_name]]:Wireless:Security Mode:User Id*** | ***Incorrect*** |  |
|  |  | ***Network:[[WLAN-Host\_name]]:Wireless:Security Mode:Password*** | ***Incorrect*** |  |

**Performance Component: IPv6 Static Routing**

Description:  
Maximum Points = 18  
Earned Points = 18

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work Product Feature** | | | **Student Result** | **Earned Points** | **Max Points** |
| IPv6 Static Routing | | | | 18 | 18 |
|  | Configure IPv6 default static routes | | | 6 | 6 |
|  |  | *Network:[[R1\_name]]:Routesv6:Ipv6 Unicast Routing* | *Correct* |  |  |
|  |  | *Network:[[R1\_name]]:Routesv6:Static RoutesV2:Route0* | *Correct* |  |
|  |  | *Network:[[R3\_name]]:Routesv6:Ipv6 Unicast Routing* | *Correct* |  |
|  |  | *Network:[[R3\_name]]:Routesv6:Static RoutesV2:Route0* | *Correct* |  |
|  | Configure IPv6 floating static default routes | | | 6 | 6 |
|  |  | *Network:[[R1\_name]]:Routesv6:Static RoutesV2:Route1* | *Correct* |  |  |
|  |  | *Network:[[R3\_name]]:Routesv6:Static RoutesV2:Route1* | *Correct* |  |
|  | Configure IPv6 static host routes | | | 6 | 6 |
|  |  | *Network:[[R1\_name]]:Routesv6:Static RoutesV2:Route2* | *Correct* |  |  |