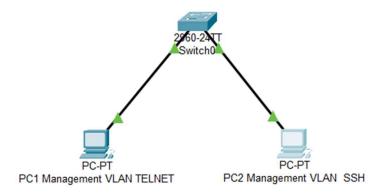
## LINUX NETWORKING MODULE 7 AND 8 ASSESSMENT SOLUTION

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6.Configure a management VLAN and assign an IP address for remote access Test SSH or Telnet access to the switch

## Devices:

- > 1 Cisco 2960 Switch
- > 2 PCs (One for SSH, One for Telnet)
- ➤ Copper Straight-Through Cables



## Switch configurations:

```
Switch>en
Switch#config t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) # vlan 10
Switch(config-vlan) # name Management
Switch(config-vlan) # exit
Switch(config) # interface vlan 10
Switch(config-if) # ip address 192.168.1.1 255.255.255.0
Switch(config-if) # no shutdown
Switch(config-if) # exit
```

```
Switchl(config) #interface fastEthernet 0/1
Switchl(config-if) #switchport mode access
Switchl(config-if) #switchport access vlan 10
Switchl (config-if) #exit
Switchl (config) #
Switchl(config) #interface fastEthernet 0/2
Switchl(config-if) #switchport mode access
Switchl(config-if) #switchport access vlan 10
Switchl (config-if) #exit
Switchl(config) #line vty 0 2
Switchl(config-line) #password telnetpass
Switchl (config-line) #login
Switchl(config-line) #transport input telnet
Switchl(config-line) #exit
Switch (config) #hostname Switchl
Switchl(config) #crypto key generate rsa
% Please define a domain-name first.
Switchl(config) #ip domain-name cisco.com
Switchl (config) #crypto key generate rsa
The name for the keys will be: Switchl.cisco.com
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.
How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]
Switch1(config) #username admin privilege 15 secret adminpass
*Mar 1 0:13:20.766: %SSH-5-ENABLED: SSH 1.99 has been enabled
Switchl(config) #line vty 3 4
Switchl (config-line) #transport input ssh
Switchl(config-line) #login local
Switchl (config-line) #exit
Switchl(config) #ip ssh version 2
PC1 Configuration
IP Address: 192.168.1.2
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.1.1
```

PC1 Configuration

IP Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

```
PC1 Management VLAN TELNET
 Physical
           Config Desktop Programming Attributes
  Command Prompt
  C:\>ping 192.168.1.1
  Pinging 192.168.1.1 with 32 bytes of data:
  Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
  Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
  Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
  Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
  Ping statistics for 192.168.1.1:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = 0ms, Maximum = 1ms, Average = 0ms
  C:\>telnet 192.168.1.1
  Trying 192.168.1.1 ...Open
  User Access Verification
  Password:
  Switchl>
```

```
PC2 Management VLAN SSH
  Physical Config Desktop Programming Attributes
   Command Prompt
   Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms
   C:\>ping 192.168.1.1
   Pinging 192.168.1.1 with 32 bytes of data:
   Reply from 192.168.1.1: bytes=32 time=lms TTL=255
Reply from 192.168.1.1: bytes=32 time<lms TTL=255
Reply from 192.168.1.1: bytes=32 time<lms TTL=255
Reply from 192.168.1.1: bytes=32 time=10ms TTL=255
   Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 10ms, Average = 2ms
    C:\>ssh -1 admin 192.168.1.1
    Password:
   Switchl#
Switchl#
Switchl#
Switchl#show vlan brief
                                                                                            Status
    VLAN Name
                                                                                                                   Ports
                                                                                                                   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, Fa0/20, Fa0/21, Fa0/22
Fa0/23, Fa0/24, Gig0/1, Gig0/2
Fa0/1, Fa0/2
               default
              Management
    1002 fddi-default
1003 token-ring-default
1004 fddinet-default
1005 trnet-default
                                                                                            active
active
active
```