Vanier College

Computer Science Department

Advanced Networks

Lab #8

Title: Initial Switch Configuration

Student Names: Marissa Gonçalves
Hao Yuan Zhang
Bryan Diego-Rivas

Submitted to Florin Pilat

April 17, 2020

Book Exercises:

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Exercise 11-1 (p. 341-343):
```

```
Switch 2950-1:
6.
2950-1>enable
Password:
2950-1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
2950-1(config)#
7.
2950-1(config) #interface vlan1
8.
2950-1(config-if) #ip address 192.168.1.2 255.255.255.0
2950-1(config-if) #no shutdown
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
9.
2950-1(config-if) #exit
```

2950-1(config) #ip default-gateway 192.168.1.1

```
11.
```

```
2950-1#copy running-config startup-config
Destination filename [startup-config]?
Building configuration ...
 [OK]
 2950-1#show startup-config
Using 1082 bytes
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
 !
hostname 2950-1
 enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
 spanning-tree mode pvst
 interface FastEthernet0/1
 interface FastEthernet0/2
 !
12.
2950-1#ping 192.168.1.10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/5/7 ms
13.
2950-1#ping 192.168.1.11
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.11, timeout is 2 seconds:
11111
```

Success rate is 100 percent (5/5), round-trip min/avg/max = 4/5/6 ms

Switch 2950-2:

```
2.
2950-2>enable
Password:
2950-2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
2950-2 (config) #interface vlan1
2950-2(config-if) #ip address 192.168.1.3 255.255.255.0
2950-2 (config-if) #no shutdown
2950-2 (config-if) #
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
2950-2 (config-if) #end
2950-2#
%SYS-5-CONFIG_I: Configured from console by console
2950-2#copy running-config startup-config
Destination filename [startup-config]?
Building configuration ...
[OK]
2950-2#show startup-config
Using 1072 bytes
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
hostname 2950-2
3.
2950-2#ping 192.168.1.10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 9/10/12 ms
2950-2#ping 192.168.1.2
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.2, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 4/5/6 ms
```

Switch 2950-3:

```
2
2950-3>enable
Password:
2950-3#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
2950-3 (config) #interface vlan1
2950-3(config-if)#ip address 192.168.3.2 255.255.255.0
2950-3(config-if) #no shutdown
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
2950-3 (config-if) #exit
2950-3(config) #ip default-gateway 192.168.3.1
2950-3 (config) #end
2950-3#
%SYS-5-CONFIG_I: Configured from console by console
2950-3#copy running-config startup-config
Destination filename [startup-config]?
Building configuration ...
[OK]
2950-3#show startup-config
Using 1072 bytes
3.
2950-3#ping 192.168.3.10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.3.10, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/5/6 ms
2950-3#ping 192.168.3.11
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.3.11, timeout is 2 seconds:
11111
```

Success rate is 100 percent (5/5), round-trip min/avg/max = 5/5/7 ms

Exercise 11-2 (p. 345-346):

```
5.
2950-1>enable
Password:
2950-1#show mac-address-table
        Mac Address Table
Vlan Mac Address Type Ports
6.
2950-1#clear mac-address-table dynamic
7.
2950-1#ping 192.168.1.10
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.10, timeout is 2 seconds:
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/5/7 ms
2950-1#show mac-address-table
        Mac Address Table
                       Type Ports
Vlan
     Mac Address
                   Type
 1 0005.5ebe.c259 DYNAMIC Fa0/2
```

The MAC address of Host-1 is 0005.5EBE.C259.

Host-1 is associated with Interface Fa0/2, not Interface Fa0/3.

The MAC addresses of Host-1 include 00D0.5EBE.C259 and 00D0.D367.65B1. Host-2 is associated with Interfaces Fa0/2 and Fa0/3, not Interface Fa0/4.

10.

```
Packet Tracer PC Command Line 1.0
PC>ipconfig /all

Physical Address ... 0005.5EBE.C259
IP Address ... 192.168.1.10
Subnet Mask ... 255.255.255.0
Default Gateway ... 192.168.1.1
DNS Servers ... 0.0.0.0
```

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Review Questions:

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- 1. C) amber
- 2. D) The MIC connectors on the Ethernet cables are not seated correctly in the switch ports.
- 3. A) Enabling interfaces
- 4. C) Global
- 5. interface vlan 5

ip address 192.168.1.125 255.255.255.128
exit

ip default-gateway 192.168.1.126

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- 6. show mac-address-table
- 7. A) Flood it
- 8. A) Port security
- 9. C) Sticky learning
- 10. D) Static