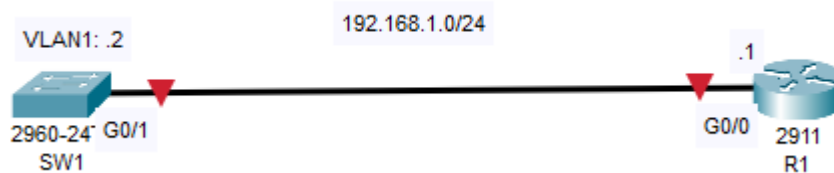


ACTIVITY 15: System Configuration Dialog



1. Use the System Configuration Dialog to configure R1 and SW1 according to the following, and save the configurations to NVRAM: (Don't use basic management setup)

R1:

Hostname: R1

Enable secret: Cisco

Enable password: CCNA

Virtual terminal password: CCENT

SNMP network management: No

Configure VLAN1 interface: No

GigabitEthernet0/0: 192.168.1.1 255.255.255.0

```
Router#setup
```

```
--- System Configuration Dialog ---
```

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

```
Would you like to enter basic management setup? [yes/no]: no
```

```
First, would you like to see the current interface summary? [yes]:yes
```

```
Current interface summary
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0	unassigned	YES	manual	administratively down	down
GigabitEthernet0/1	unassigned	YES	manual	administratively down	down
GigabitEthernet0/2	unassigned	YES	manual	administratively down	down
Vlan1	unassigned	YES	manual	administratively down	down

```
Configuring global parameters:
```

```
Enter host name [Router]: R1
```

```
Enter enable secret: Cisco
```

```
The enable password is used when you do not specify an  
enable secret password, with some older software versions, and  
some boot images.
```

```
Enter enable password: CCNA
```

```
The virtual terminal password is used to protect  
access to the router over a network interface.
```

```
Enter virtual terminal password: CCENT
```

```
Configure SNMP Network Management? [no]:No
```

```
Configuring interface parameters:
```

```
Do you want to configure Vlan1 interface? [no]:No
```

```
Do you want to configure GigabitEthernet0/0 interface? [no]:yes
```

```
IP address for this interface: 192.168.1.1
```

```
Subnet mask for this interface [255.255.255.0] :
```

```
Do you want to configure GigabitEthernet0/1 interface? [no]:no
```

```

[0] Go to the IOS command prompt without saving this config.
[1] Return back to the setup without saving this config.
[2] Save this configuration to nvram and exit.

Enter your selection [2]: 2
Building configuration...
[OK]

```

SW1:

Hostname: SW1,
 Enable secret: Cisco, Enable password: CCNA,
 Virtual terminal password: CCENT,
 SNMP network management: No,
 VLAN1 interface: 192.168.1.2 255.255.255.0
 Cluster command switch: No

```
Switch#setup
```

```
--- System Configuration Dialog ---
```

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

```
Would you like to enter basic management setup? [yes/no]: no
```

```
First, would you like to see the current interface summary? [yes]:yes
```

```
Current interface summary
```

Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/1	unassigned	YES	manual	down	down
FastEthernet0/2	unassigned	YES	manual	down	down

```
Enter host name [Switch]: SW1
```

```

The enable secret is a password used to protect access to
privileged EXEC and configuration modes. This password, after
entered, becomes encrypted in the configuration.

```

```
Enter enable secret: Cisco
```

```

The enable password is used when you do not specify an
enable secret password, with some older software versions, and
some boot images.

```

```
Enter enable password: CCNA
```

```

The virtual terminal password is used to protect
access to the router over a network interface.

```

```
Enter virtual terminal password: CCENT
```

```
Configure SNMP Network Management? [no]:
```

```
Configuring interface parameters:
```

```
Do you want to configure Vlan1 interface? [no]:yes
```

```
IP address for this interface: 192.168.1.2
```

```
Subnet mask for this interface [255.255.255.0] :
```

```
Do you want to configure FastEthernet0/1 interface? [no]:
```

```
Do you want to configure GigabitEthernet0/2 interface? [no]:
```

```
Would you like to enable as a cluster command switch? [yes/no]:no
```

```

[0] Go to the IOS command prompt without saving this config.
[1] Return back to the setup without saving this config.
[2] Save this configuration to nvram and exit.

```

```
Enter your selection [2]:
```

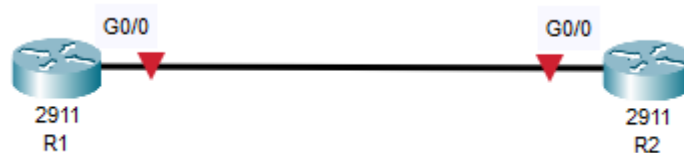
```
Building configuration...
```

```
[OK]
```

2. Ping from SW1 to R1 to test the configuration

```
SW1#ping 192.168.1.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms
```

ACTIVITY 16: Loopback Interface Configuration



1. Set the IP addresses of the physical interfaces connecting the two routers as follows, and enable the interfaces: R1: 192.168.1.1/24 and R2: 192.168.1.2/24

```
R1(config)#interface g0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown
```

```
R2(config)#interface g0/0
R2(config-if)#ip address 192.168.1.2 255.255.255.0
R2(config-if)#no shutdown
```

2. Create a loopback interface on each router: R1: 1.1.1.1/32

R2: 2.2.2.2/32

```
R1(config)#interface loopback 0

R1(config-if)#
%LINK-5-CHANGED: Interface Loopback0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up
R1(config-if)#ip address 1.1.1.1 255.255.255.255

R2(config)#interface loopback 0

R2(config-if)#
%LINK-5-CHANGED: Interface Loopback0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up
R2(config-if)#ip address 2.2.2.2 255.255.255.255
```

3. From each router, attempt to ping both the local loopback interface and the loopback interface of the remote router.

```

R1#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

    1.0.0.0/32 is subnetted, 1 subnets
C       1.1.1.1/32 is directly connected, Loopback0
    2.0.0.0/32 is subnetted, 1 subnets
S       2.2.2.2/32 [1/0] via 192.168.1.2
    192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.1.0/24 is directly connected, GigabitEthernet0/0
L       192.168.1.1/32 is directly connected, GigabitEthernet0/0

```

We can see there were a previous static routing setup. So, we can ping both of the loopback addresses.

```

R1#ping 1.1.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.1.1.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/7/10 ms

R1#ping 2.2.2.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2.2.2.2, timeout is 2 seconds:
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max = 0/0/0 ms

R2#ping 2.2.2.2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2.2.2.2, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/3/10 ms

R2#ping 1.1.1.1

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 1.1.1.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/0 ms

```

4. Remove the loopback interface of each router.

R1(config)#no interface loopback 0

R2(config)#no interface loopback 0