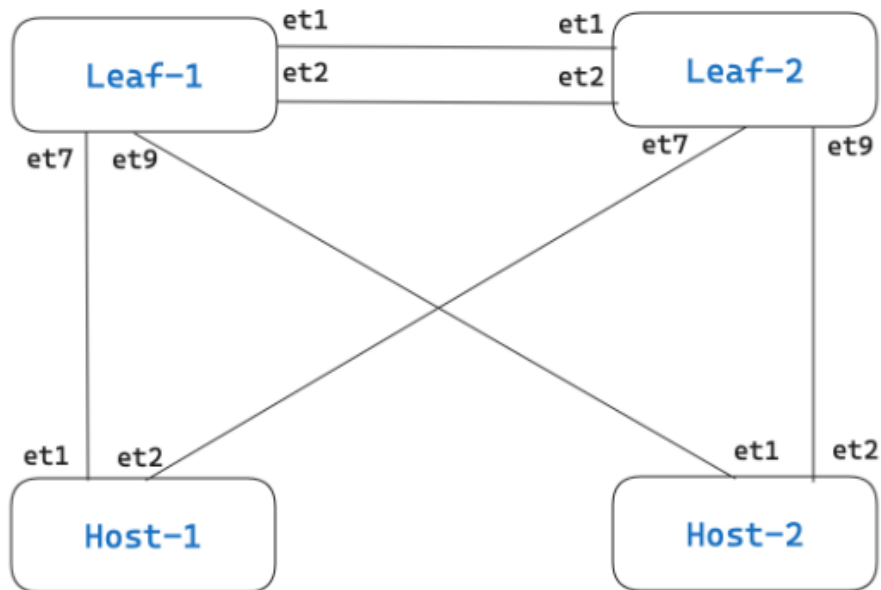


Practice Scenarios Part 1

1.



- Reset all configurations before starting the lab
- Save the default configuration on all devices with the command

```
copy running-config flash:config.reset
```

- On Leaf-1, Leaf-2, Host-1 and Host-2 shutdown all links other than those listed in the topology diagram
 - Here are the requirements you need to meet
1. Host-1 - must send and receive untagged traffic in VLAN 10
 - a. IP address : 10.10.10.10/28
 - b. Default GW : 10.10.10.1
 2. Host-2 - must send and receive tagged traffic in VLAN 20
 - a. IP address : 20.20.20.20/29
 - b. Default GW : 20.20.20.17
 3. Leaf-1 and Leaf-2 should act as a single default gateway 10.10.10.1 for Host-1 and 20.20.20.17 for Host-2

```

host1#sh lldp neighbors
Last table change time   : 0:01:29 ago
Number of table inserts  : 2
Number of table deletes  : 0
Number of table drops    : 0
Number of table age-outs : 0

Port          Neighbor Device ID      Neighbor Port ID  TTL
-----
Et1           leaf1.arista.lab    Ethernet7         120
Et2           leaf2.arista.lab    Ethernet7         120

host1#show interfaces status
Port      Name      Status      Vlan      Duplex Speed  Type              Flags Encapsulation
Et1       Et1       connected   1         full   1G     EbraTestPhyPort
Et2       Et2       connected   1         full   1G     EbraTestPhyPort
Ma0       Ma0       connected   routed    a-full a-1G    10/100/1000

host1#
host1#config
host1(config)#interface range Ethernet3-10
% Invalid input
host1(config)#copy running-config startup-config
Copy completed successfully.
host1(config)#interface Ethernet1
host1(config-if-Et1)#switchport mode access
host1(config-if-Et1)#switchport access vlan 10
! Access VLAN does not exist. Creating vlan 10
host1(config-if-Et1)#exit
host1(config)#interface Ethernet2
host1(config-if-Et2)#switchport mode access
host1(config-if-Et2)#switchport access vlan 10
host1(config-if-Et2)#exit
host1(config)#interface Vlan10
host1(config-if-Vl10)#ip address 10.10.10/28
host1(config-if-Vl10)#no shutdown
host1(config-if-Vl10)#exit
host1(config)#ip route 0.0.0.0/0 10.10.10.1
host1(config)#copy running-config startup-config
Copy completed successfully.
host1(config)#ping 10.10.10.1
PING 10.10.10.1 (10.10.10.1) 72(100) bytes of data.
80 bytes from 10.10.10.1: icmp_seq=1 ttl=64 time=2.50 ms
80 bytes from 10.10.10.1: icmp_seq=2 ttl=64 time=0.992 ms
80 bytes from 10.10.10.1: icmp_seq=3 ttl=64 time=0.937 ms
80 bytes from 10.10.10.1: icmp_seq=4 ttl=64 time=0.965 ms
80 bytes from 10.10.10.1: icmp_seq=5 ttl=64 time=0.872 ms

--- 10.10.10.1 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 9ms
rtt min/avg/max/mdev = 0.872/1.253/2.503/0.627 ms, ipg/ewma 2.253/1.854 ms
host1(config)#show vlan brief
VLAN  Name      Status      Ports
-----
1     default   active
10    VLAN0010  active      Cpu, Et1, Et2

host1(config)#copy running-config startup-config
Copy completed successfully.
host1(config)#

```

Last login: Fri Jul 19 04:42:46 2024 from 192.168.0.1

host2#sh lldp neighbors

Last table change time : 0:20:34 ago

Number of table inserts : 2

Number of table deletes : 0

Number of table drops : 0

Number of table age-outs : 0

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf1.arista.lab	Ethernet9	120
Et2	leaf2.arista.lab	Ethernet9	120

host2#config

host2(config)#interface Ethernet1

host2(config-if-Et1)#switchport trunk allowed vlan 20

host2(config-if-Et1)#switchport mode trunk

host2(config-if-Et1)#exit

host2(config)#interface Ethernet2

host2(config-if-Et2)#switchport trunk allowed vlan 20

host2(config-if-Et2)#switchport mode trunk

host2(config-if-Et2)#exit

host2(config)#interface Vlan20

host2(config-if-Vl20)#ip address 20.20.20.20/29

host2(config-if-Vl20)#no shutdown

host2(config-if-Vl20)#exit

host2(config)#ip route 0.0.0.0/0 20.20.20.17

host2(config)#copy running-config startup-config

Copy completed successfully.

host2(config)#show vlan brief

VLAN	Name	Status	Ports
1	default	active	

host2(config)#ping 20.20.20.17

connect: Network is unreachable

host2(config)#show interfaces status

Port	Name	Status	Vlan	Duplex	Speed	Type	Flags	Encapsulation
Et1		connected	trunk	full	1G	EbraTestPhyPort		
Et2		connected	trunk	full	1G	EbraTestPhyPort		
Ma0		connected	routed	a-full	a-1G	10/100/1000		

host2(config)#show vlan brief

VLAN	Name	Status	Ports
1	default	active	

host2(config)#vlan 20

host2(config-vlan-20)#name VLAN20

host2(config-vlan-20)#exit

host2(config)#interface Ethernet1

host2(config-if-Et1)#switchport trunk allowed vlan add 20

host2(config-if-Et1)#exit

host2(config)#interface Ethernet2

host2(config-if-Et2)#switchport trunk allowed vlan add 20

host2(config-if-Et2)#exit

host2(config)#copy running-config startup-config

Copy completed successfully.

host2(config)#show vlan brief

```
host2(config)#show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	
20	VLAN20	active	Cpu, Et1, Et2

```
host2(config)#show interfaces status
```

Port	Name	Status	Vlan	Duplex	Speed	Type	Flags	Encapsulation
Et1		connected	trunk	full	1G	EbraTestPhyPort		
Et2		connected	trunk	full	1G	EbraTestPhyPort		
Ma0		connected	routed	a-full	a-1G	10/100/1000		

```
host2(config)#ping 20.20.20.17
```

```
PING 20.20.20.17 (20.20.20.17) 72(100) bytes of data.
```

```
80 bytes from 20.20.20.17: icmp_seq=1 ttl=64 time=1.95 ms
80 bytes from 20.20.20.17: icmp_seq=2 ttl=64 time=0.993 ms
80 bytes from 20.20.20.17: icmp_seq=3 ttl=64 time=0.873 ms
80 bytes from 20.20.20.17: icmp_seq=4 ttl=64 time=1.02 ms
80 bytes from 20.20.20.17: icmp_seq=5 ttl=64 time=1.02 ms
```

```
--- 20.20.20.17 ping statistics ---
```

```
5 packets transmitted, 5 received, 0% packet loss, time 8ms
rtt min/avg/max/mdev = 0.873/1.173/1.952/0.393 ms, ipg/ewma 2.029/1.551 ms
```

```
host2(config)#copy running-config startup-config
```

```
Copy completed successfully.
```

```
host2(config)#
```

```
leaf1#sh lldp neighbors
```

```
Last table change time : 0:01:48 ago
Number of table inserts : 8
Number of table deletes : 0
Number of table drops : 0
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf2.arista.lab	Ethernet1	120
Et2	leaf2.arista.lab	Ethernet2	120
Et3	spine1.arista.lab	Ethernet3	120
Et4	spine2.arista.lab	Ethernet3	120
Et5	spine3.arista.lab	Ethernet3	120
Et6	spine4.arista.lab	Ethernet3	120
Et7	host1	Ethernet1	120
Et9	host2.arista.lab	Ethernet1	120

```
leaf1#show interfaces status
```

Port	Name	Status	Vlan	Duplex	Speed	Type	Flags	Encapsulation
Et1		connected	1	full	1G	EbraTestPhyPort		
Et2		connected	1	full	1G	EbraTestPhyPort		
Et3		connected	1	full	1G	EbraTestPhyPort		
Et4		connected	1	full	1G	EbraTestPhyPort		
Et5		connected	1	full	1G	EbraTestPhyPort		
Et6		connected	1	full	1G	EbraTestPhyPort		
Et7		connected	1	full	1G	EbraTestPhyPort		
Et8		connected	1	full	1G	EbraTestPhyPort		
Et9		connected	1	full	1G	EbraTestPhyPort		
Et10		connected	1	full	1G	EbraTestPhyPort		
Ma0		connected	routed	a-full	a-1G	10/100/1000		

```
leaf1#configure terminal
```

```
leaf1(config)#interface range Ethernet3-6, Ethernet8, Ethernet10-48
```

```
% Invalid input
```

```
leaf1(config)#shutdown
```

```
% Incomplete command
```

```
leaf1(config)#exit
```

```
leaf1#copy running-config startup-config
```

```
Copy completed successfully.
```

```
leaf1#config
```

```
leaf1(config)#interface range Ethernet3-6, Ethernet8, Ethernet10-48
```

```
% Invalid input
```

```
leaf1(config)#interface range Ethernet3-6, Ethernet8, Ethernet10-48 shutdown
```

```
% Invalid input
```

```
leaf1(config)#interface Ethernet3-6, Ethernet8, Ethernet10-48
```

```
% Invalid input
```

```
leaf1(config)#interface Ethernet3-6, Ethernet8, Ethernet10
```

```
leaf1(config-if-Et3-6,8,10)#shut
```

```
leaf1(config-if-Et3-6,8,10)#exit
```

```
leaf1(config)#copy running-config startup-config
```

```
Copy completed successfully.
```

```
leaf1(config)#sh lldp neighbors
```

```
Last table change time : 0:01:34 ago
Number of table inserts : 8
Number of table deletes : 4
Number of table drops : 0
Number of table age-outs : 0
```

```
Number of table drops : 0
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf2.arista.lab	Ethernet1	120
Et2	leaf2.arista.lab	Ethernet2	120
Et7	host1	Ethernet1	120
Et9	host2.arista.lab	Ethernet1	120

```
leaf1(config)#interface Vlan10
leaf1(config-if-Vl10)#ip address 10.10.10.1/28
leaf1(config-if-Vl10)#no shutdown
leaf1(config-if-Vl10)#exit
leaf1(config)#interface Vlan20
leaf1(config-if-Vl20)#ip address 20.20.20.17/29
leaf1(config-if-Vl20)#no shutdown
leaf1(config-if-Vl20)#exit
leaf1(config)#interface Ethernet7
leaf1(config-if-Et7)#switchport mode access
leaf1(config-if-Et7)#switchport access vlan 10
! Access VLAN does not exist. Creating vlan 10
leaf1(config-if-Et7)#exit
leaf1(config)#interface Ethernet9
leaf1(config-if-Et9)#switchport trunk allowed vlan 20
leaf1(config-if-Et9)#switchport mode trunk
leaf1(config-if-Et9)#exit
leaf1(config)#copy running-config startup-config
Copy completed successfully.
leaf1(config)#show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Et1, Et2
10	VLAN0010	active	Cpu, Et7

```
leaf1(config)#vlan 10
leaf1(config-vlan-10)#name VLAN10
leaf1(config-vlan-10)#exit
leaf1(config)#vlan 20
leaf1(config-vlan-20)#name VLAN20
leaf1(config-vlan-20)#exit
leaf1(config)#interface Ethernet7
leaf1(config-if-Et7)#switchport mode access
leaf1(config-if-Et7)#switchport access vlan 10
leaf1(config-if-Et7)#exit
leaf1(config)#interface Ethernet9
leaf1(config-if-Et9)#switchport trunk allowed vlan add 20
leaf1(config-if-Et9)#exit
leaf1(config)#interface Vlan10
leaf1(config-if-Vl10)#ip address 10.10.10.1/28
leaf1(config-if-Vl10)#no shutdown
leaf1(config-if-Vl10)#exit
leaf1(config)#interface Vlan20
leaf1(config-if-Vl20)#ip address 20.20.20.17/29
leaf1(config-if-Vl20)#no shutdown
leaf1(config-if-Vl20)#exit
leaf1(config)#copy running-config startup-config
Copy completed successfully.
leaf1(config)#show vlan brief
```

```
leaf1(config-if-Vl20)#ip address 20.20.20.17/25
leaf1(config-if-Vl20)#no shutdown
leaf1(config-if-Vl20)#exit
leaf1(config)#copy running-config startup-config
Copy completed successfully.
leaf1(config)#show vlan brief
```

VLAN	Name	Status	Ports
1	default	active	Et1, Et2
10	VLAN10	active	Cpu, Et7
20	VLAN20	active	Cpu, Et9

```
leaf1(config)#copy running-config startup-config
Copy completed successfully.
leaf1(config)#
```

```
leaf2#sh lldp neighbors
```

```
Last table change time : 0:02:38 ago
Number of table inserts : 8
Number of table deletes : 0
Number of table drops : 0
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf1.arista.lab	Ethernet1	120
Et2	leaf1.arista.lab	Ethernet2	120
Et3	spine1.arista.lab	Ethernet4	120
Et4	spine2.arista.lab	Ethernet4	120
Et5	spine3.arista.lab	Ethernet4	120
Et6	spine4.arista.lab	Ethernet4	120
Et7	host1	Ethernet2	120
Et9	host2.arista.lab	Ethernet2	120

```
leaf2#show interfaces status
```

Port	Name	Status	Vlan	Duplex	Speed	Type	Flags	Encapsulation
Et1		connected	1	full	1G	EbraTestPhyPort		
Et2		connected	1	full	1G	EbraTestPhyPort		
Et3		connected	1	full	1G	EbraTestPhyPort		
Et4		connected	1	full	1G	EbraTestPhyPort		
Et5		connected	1	full	1G	EbraTestPhyPort		
Et6		connected	1	full	1G	EbraTestPhyPort		
Et7		connected	1	full	1G	EbraTestPhyPort		
Et8		connected	1	full	1G	EbraTestPhyPort		
Et9		connected	1	full	1G	EbraTestPhyPort		
Et10		connected	1	full	1G	EbraTestPhyPort		
Ma0		connected	routed	a-full	a-1G	10/100/1000		

```
leaf2#interface range Ethernet3-6, Ethernet8, Ethernet10
```

```
% Invalid input
```

```
leaf2#interface Ethernet3-6, Ethernet8, Ethernet10
```

```
% Invalid input
```

```
leaf2#config
```

```
leaf2(config)#interface range Ethernet3-6, Ethernet8, Ethernet10
```

```
leaf2(config-if-Et3-6,8,10)#shut
```

```
leaf2(config-if-Et3-6,8,10)#exit
```

```
leaf2(config)#sh lldp neighbors
```

```
Last table change time : 0:00:10 ago
Number of table inserts : 8
Number of table deletes : 4
Number of table drops : 0
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf1.arista.lab	Ethernet1	120
Et2	leaf1.arista.lab	Ethernet2	120
Et7	host1	Ethernet2	120
Et9	host2.arista.lab	Ethernet2	120

```
leaf2(config)#interface Vlan10
```

```
leaf2(config-if-Vl10)#ip address 10.10.10.1/28
```

```
leaf2(config-if-Vl10)#no shutdown
```

```
leaf2(config-if-Vl10)#exit
```

```
leaf2(config)#interface Vlan20
```



```

leaf2(config)#interface Vlan10
leaf2(config-if-Vl10)#ip address 10.10.10.1/28
leaf2(config-if-Vl10)#no shutdown
leaf2(config-if-Vl10)#exit
leaf2(config)#interface Vlan20
leaf2(config-if-Vl20)#ip address 20.20.20.17/29
leaf2(config-if-Vl20)#no shutdown
leaf2(config-if-Vl20)#exit
leaf2(config)#interface Ethernet7
leaf2(config-if-Et7)#switchport mode access
leaf2(config-if-Et7)#switchport access vlan 10
! Access VLAN does not exist. Creating vlan 10
leaf2(config-if-Et7)#exit
leaf2(config)#interface Ethernet9
leaf2(config-if-Et9)#switchport trunk allowed vlan 20
leaf2(config-if-Et9)#switchport mode trunk
leaf2(config-if-Et9)#exit
leaf2(config)#copy running-config startup-config
Copy completed successfully.
leaf2(config)#show vlan brief

```

VLAN	Name	Status	Ports
1	default	active	Et1, Et2
10	VLAN0010	active	Cpu, Et7

```

leaf2(config)#vlan 10
leaf2(config-vlan-10)#name VLAN10
leaf2(config-vlan-10)#exit
leaf2(config)#vlan 20
leaf2(config-vlan-20)#name VLAN20
leaf2(config-vlan-20)#exit
leaf2(config)#interface Ethernet7
leaf2(config-if-Et7)#switchport mode access
leaf2(config-if-Et7)#switchport access vlan 10
leaf2(config-if-Et7)#exit
leaf2(config)#interface Ethernet9
leaf2(config-if-Et9)#switchport trunk allowed vlan add 20
leaf2(config-if-Et9)#exit
leaf2(config)#interface Vlan10
leaf2(config-if-Vl10)#ip address 10.10.10.1/28
leaf2(config-if-Vl10)#no shutdown
leaf2(config-if-Vl10)#exit
leaf2(config)#interface Vlan20
leaf2(config-if-Vl20)#ip address 20.20.20.17/29
leaf2(config-if-Vl20)#no shutdown
leaf2(config-if-Vl20)#exit
leaf2(config)#copy running-config startup-config
Copy completed successfully.
leaf2(config)#show vlan brief

```

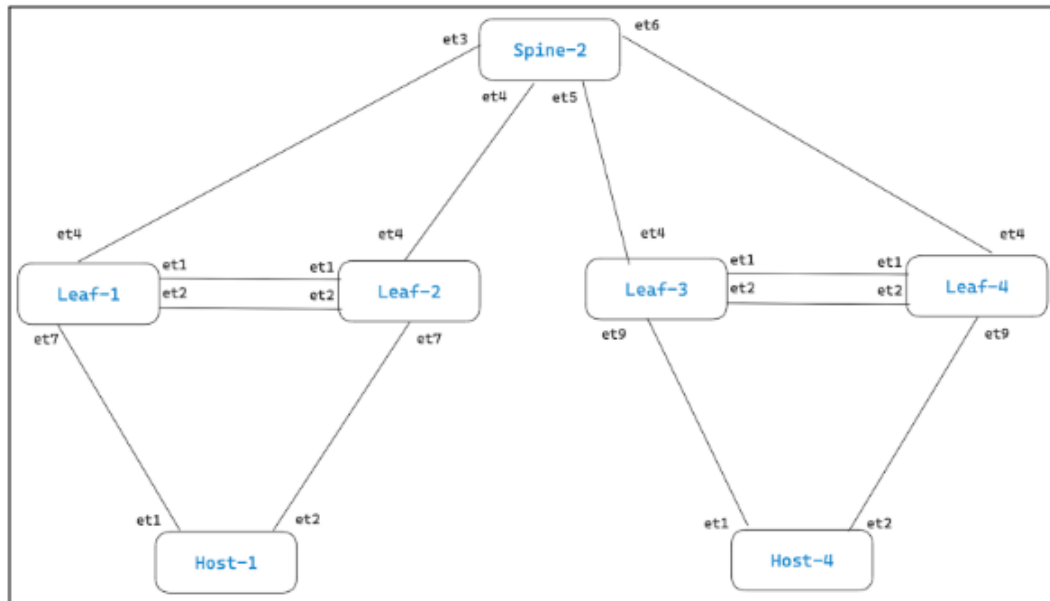
VLAN	Name	Status	Ports
1	default	active	Et1, Et2
10	VLAN10	active	Cpu, Et7
20	VLAN20	active	Cpu, Et9

```

leaf2(config)#copy running-config startup-config
Copy completed successfully.
leaf2(config)#

```

2.



Getting the wrong answer to ping=Issue with leafs configuration

```
spine2#sh lldp neighbors
```

```
Last table change time   : 0:16:56 ago
```

```
Number of table inserts  : 6
```

```
Number of table deletes  : 0
```

```
Number of table drops    : 0
```

```
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	spine1.arista.lab	Ethernet1	120
Et2	spine1.arista.lab	Ethernet2	120
Et5	leaf3.arista.lab	Ethernet4	120
Et6	leaf4.arista.lab	Ethernet4	120
Et7	borderleaf1.arista.lab	Ethernet4	120
Et8	borderleaf2.arista.lab	Ethernet4	120

```
spine2#config
```

```
spine2(config)#interface range Ethernet 1-4, Ethernet 7-8
```

```
spine2(config-if-Et1-4,7-8)#shutdown
```

```
spine2(config-if-Et1-4,7-8)#exit
```

```
spine2(config)#interface range Ethernet 3, Ethernet 4
```

```
spine2(config-if-Et3-4)#channel-group 1 mode active
```

```
spine2(config-if-Et3-4)#exit
```

```
spine2(config)#interface Port-Channel 1
```

```
spine2(config-if-Po1)#no switchport
```

```
spine2(config-if-Po1)#ip address 11.11.11.1/30
```

```
spine2(config-if-Po1)#exit
```

```
spine2(config)#interface range Ethernet 5, Ethernet 6
```

```
spine2(config-if-Et5-6)#channel-group 2 mode active
```

```
spine2(config-if-Et5-6)#exit
```

```
spine2(config)#interface Port-Channel 2
```

```
spine2(config-if-Po2)#switchport
```

```
spine2(config-if-Po2)#switchport trunk allowed vlan 40
```

```
spine2(config-if-Po2)#ip address 12.12.12.12/30
```

```
! IP configuration will be ignored while interface Port-Channel2 is not a routed port.
```

```
% IP address must not have a zero host number
```

```
spine2(config-if-Po2)#exit
```

```
spine2(config)#ip routing
```

```
spine2(config)#exit
```

```
spine2#config
```

```
spine2(config)#interface range Ethernet 3, Ethernet 4
```

```
spine2(config-if-Et3-4)#channel-group 1 mode active
```

```
spine2(config-if-Et3-4)#exit
```

```
spine2(config)#interface Port-Channel 1
```

```
spine2(config-if-Po1)#no switchport
```

```
spine2(config-if-Po1)#ip address 11.11.11.1/30
```

```
spine2(config-if-Po1)#exit
```

```
spine2(config)#interface range Ethernet 5, Ethernet 6
```

```
spine2(config-if-Et5-6)#channel-group 2 mode active
```

```
spine2(config-if-Et5-6)#exit
```

```
spine2(config)#interface Port-Channel 2
```

```
spine2(config-if-Po2)#switchport
```

```
spine2(config-if-Po2)#switchport trunk allowed vlan 40
```

```
spine2(config-if-Po2)#no ip address
```

```
spine2(config-if-Po2)#exit
```

```
spine2(config)#
```

```

Last login: Fri Jul 19 17:22:00 2024 from 192.168.0.1
host1#sh lldp neighbors
Last table change time   : 0:14:42 ago
Number of table inserts  : 2
Number of table deletes  : 0
Number of table drops    : 0
Number of table age-outs : 0

Port           Neighbor Device ID      Neighbor Port ID  TTL
-----
Et1            leaf1.arista.lab        Ethernet7         120
Et2            leaf2.arista.lab        Ethernet7         120

host1#config
host1(config)#interface Ethernet 1
host1(config-if-Et1)#switchport trunk allowed vlan 10
host1(config-if-Et1)#switchport mode trunk
host1(config-if-Et1)#exit
host1(config)#interface Ethernet 2
host1(config-if-Et2)#switchport trunk allowed vlan 10
host1(config-if-Et2)#switchport mode trunk
host1(config-if-Et2)#exit
host1(config)#interface Vlan 10
host1(config-if-Vl10)#ip address 10.10.10.75/27
host1(config-if-Vl10)#no shutdown
host1(config-if-Vl10)#exit
host1(config)#ip route 0.0.0.0/0 10.10.10.65
host1(config)#exit
host1#config
host1(config)#spanning-tree vlan 10 priority 4096
% Unavailable command (This command is deprecated by 'spanning-tree vlan-id')
host1(config)#spanning-tree vlan 40 priority 4096
% Unavailable command (This command is deprecated by 'spanning-tree vlan-id')
host1(config)#spanning-tree vlan id 10 priority 4096
% Unavailable command (This command is deprecated by 'spanning-tree vlan-id')
host1(config)#spanning-tree vlan-id 10 priority 4096
host1(config)#spanning-tree vlan-id 40 priority 4096
host1(config)#exit
host1#traceroute 40.40.40.40
traceroute to 40.40.40.40 (40.40.40.40), 30 hops max, 60 byte packets
connect: Network is unreachable
host1#ping 40.40.40.40
connect: Network is unreachable
host1#config
host1(config)#spanning-tree vlan-id 10 priority 4096
host1(config)#spanning-tree vlan-id 40 priority 4096
host1(config)#exit
host1#ping 40.40.40.40
connect: Network is unreachable
host1#ping 40.40.40.40
connect: Network is unreachable
host1#

```

```

host4#sh lldp neighbors
Last table change time   : 0:21:53 ago
Number of table inserts  : 2
Number of table deletes  : 0
Number of table drops    : 0
Number of table age-outs : 0

Port                Neighbor Device ID      Neighbor Port ID    TTL
-----
Et1                 leaf3.arista.lab        Ethernet9           120
Et2                 leaf4.arista.lab        Ethernet9           120

host4#config
host4(config)#interface Ethernet 1
host4(config-if-Et1)#switchport trunk allowed vlan 40
host4(config-if-Et1)#switchport mode trunk
host4(config-if-Et1)#exit
host4(config)#interface Ethernet 2
host4(config-if-Et2)#switchport trunk allowed vlan 40
host4(config-if-Et2)#switchport mode trunk
host4(config-if-Et2)#exit
host4(config)#interface Vlan 40
host4(config-if-Vl40)#ip address 40.40.40.40/28
host4(config-if-Vl40)#no shutdown
host4(config-if-Vl40)#exit
host4(config)#ip route 0.0.0.0/0 40.40.40.33
host4(config)#exit
host4#config
host4(config)#spanning-tree vlan-id 10 priority 4096
host4(config)#spanning-tree vlan-id 40 priority 4096
host4(config)#exit
host4#ping 40.40.40.40
connect: Network is unreachable
host4#config
host4(config)#spanning-tree vlan-id 10 priority 4096
host4(config)#spanning-tree vlan-id 40 priority 4096
host4(config)#exit

```

```

leaf1#sh lldp neighbors
Last table change time   : 0:18:40 ago
Number of table inserts  : 6
Number of table deletes  : 0
Number of table drops    : 0
Number of table age-outs : 0

Port           Neighbor Device ID      Neighbor Port ID  TTL
-----
Et1            leaf2.arista.lab      Ethernet1         120
Et2            leaf2.arista.lab      Ethernet2         120
Et4            spine2.arista.lab      Ethernet3         120
Et5            spine3.arista.lab      Ethernet3         120
Et7            host1                    Ethernet1         120
Et9            host2.arista.lab       Ethernet1         120

leaf1#interface range Ethernet 3-6, Ethernet 8-9
% Invalid input
leaf1#config
leaf1(config)#interface range Ethernet 3-6, Ethernet 8-9
leaf1(config-if-Et3-6,8-9)#shutdown
leaf1(config-if-Et3-6,8-9)#exit
leaf1(config)#vlan 10
leaf1(config-vlan-10)#exit
leaf1(config)#interface Vlan 10
leaf1(config-if-Vl10)#ip address 10.10.10.65/27
leaf1(config-if-Vl10)#ip virtual-router address 10.10.10.65
% Address 10.10.10.65 is already assigned to interface Vlan10
leaf1(config-if-Vl10)#no shutdown
leaf1(config-if-Vl10)#exit
leaf1(config)#exit
leaf1#show arp
Address      Age (sec)  Hardware Addr  Interface
10.10.10.75  0:03:04   001c.73f1.c601 Vlan10, Ethernet7
leaf1#show ip route

VRF: default
Codes: C - connected, S - static, K - kernel,
       O - OSPF, IA - OSPF inter area, E1 - OSPF external type 1,
       E2 - OSPF external type 2, N1 - OSPF NSSA external type 1,
       N2 - OSPF NSSA external type2, B - Other BGP Routes,
       B I - iBGP, B E - eBGP, R - RIP, I L1 - IS-IS level 1,
       I L2 - IS-IS level 2, O3 - OSPFv3, A B - BGP Aggregate,
       A O - OSPF Summary, NG - Nexthop Group Static Route,
       V - VXLAN Control Service, M - Martian,
       DH - DHCP client installed default route,
       DP - Dynamic Policy Route, L - VRF Leaked,
       G - gRIBI, RC - Route Cache Route,
       CL - CBF Leaked Route

Gateway of last resort is not set

C          10.10.10.64/27 is directly connected, Vlan10

! IP routing not enabled
leaf1#config
leaf1(config)#ip routing
leaf1(config)#exit
leaf1#config

```

```
leaf2#sh lldp neighbors
```

```
Last table change time   : 0:19:23 ago
```

```
Number of table inserts  : 5
```

```
Number of table deletes  : 0
```

```
Number of table drops    : 0
```

```
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf1.arista.lab	Ethernet1	120
Et2	leaf1.arista.lab	Ethernet2	120
Et5	spine3.arista.lab	Ethernet4	120
Et7	host1	Ethernet2	120
Et9	host2.arista.lab	Ethernet2	120

```
leaf2#config
```

```
leaf2(config)#interface range Ethernet 3-6, Ethernet 8-9
```

```
leaf2(config-if-Et3-6,8-9)#exit
```

```
leaf2(config)#vlan 10
```

```
leaf2(config-vlan-10)#exit
```

```
leaf2(config)#interface Vlan 10
```

```
leaf2(config-if-Vl10)#ip address 10.10.10.65/27
```

```
leaf2(config-if-Vl10)#ip virtual-router address 10.10.10.65
```

```
% Address 10.10.10.65 is already assigned to interface Vlan10
```

```
leaf2(config-if-Vl10)#no shutdown
```

```
leaf2(config-if-Vl10)#exit
```

```
leaf3#sh lldp neighbors
Last table change time   : 0:20:05 ago
Number of table inserts  : 8
Number of table deletes  : 0
Number of table drops    : 0
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf4.arista.lab	Ethernet1	120
Et2	leaf4.arista.lab	Ethernet2	120
Et3	spine1.arista.lab	Ethernet5	120
Et4	spine2.arista.lab	Ethernet5	120
Et5	spine3.arista.lab	Ethernet5	120
Et6	spine4.arista.lab	Ethernet5	120
Et7	host3.arista.lab	Ethernet1	120
Et9	host4.arista.lab	Ethernet1	120

```
leaf3#config
leaf3(config)#interface range Ethernet 3, Ethernet 5-8
leaf3(config-if-Et3,5-8)#shutdown
leaf3(config-if-Et3,5-8)#exit
leaf3(config)#vlan 40
leaf3(config-vlan-40)#exit
leaf3(config)#interface Vlan 40
leaf3(config-if-Vl40)#ip address 40.40.40.33/28
leaf3(config-if-Vl40)#ip virtual-router address 40.40.40.33
% Address 40.40.40.33 is already assigned to interface Vlan40
leaf3(config-if-Vl40)#no shutdown
leaf3(config-if-Vl40)#exit
leaf3(config)#show arp
Address      Age (sec)  Hardware Addr  Interface
leaf3(config)#show ip route
```

VRF: default

Codes: C - connected, S - static, K - kernel,
 O - OSPF, IA - OSPF inter area, E1 - OSPF external type 1,
 E2 - OSPF external type 2, N1 - OSPF NSSA external type 1,
 N2 - OSPF NSSA external type2, B - Other BGP Routes,
 B I - iBGP, B E - eBGP, R - RIP, I L1 - IS-IS level 1,
 I L2 - IS-IS level 2, O3 - OSPFv3, A B - BGP Aggregate,
 A O - OSPF Summary, NG - Nexthop Group Static Route,
 V - VXLAN Control Service, M - Martian,
 DH - DHCP client installed default route,
 DP - Dynamic Policy Route, L - VRF Leaked,
 G - gRIBI, RC - Route Cache Route,
 CL - CBF Leaked Route

Gateway of last resort is not set

```
! IP routing not enabled
leaf3(config)#ip routing
leaf3(config)#exit
leaf3#config
```



```
leaf4#sh lldp neighbors
```

```
Last table change time   : 0:20:42 ago
```

```
Number of table inserts  : 8
```

```
Number of table deletes  : 0
```

```
Number of table drops    : 0
```

```
Number of table age-outs : 0
```

Port	Neighbor Device ID	Neighbor Port ID	TTL
Et1	leaf3.arista.lab	Ethernet1	120
Et2	leaf3.arista.lab	Ethernet2	120
Et3	spine1.arista.lab	Ethernet6	120
Et4	spine2.arista.lab	Ethernet6	120
Et5	spine3.arista.lab	Ethernet6	120
Et6	spine4.arista.lab	Ethernet6	120
Et7	host3.arista.lab	Ethernet2	120
Et9	host4.arista.lab	Ethernet2	120

```
leaf4#config
```

```
leaf4(config)#interface range Ethernet 3, Ethernet 5-8
```

```
leaf4(config-if-Et3,5-8)#shutdown
```

```
leaf4(config-if-Et3,5-8)#exit
```

```
leaf4(config)#vlan 40
```

```
leaf4(config-vlan-40)#exit
```

```
leaf4(config)#interface Vlan 40
```

```
leaf4(config-if-Vl40)#ip address 40.40.40.33/28
```

```
leaf4(config-if-Vl40)#ip virtual-router address 40.40.40.33
```

```
% Address 40.40.40.33 is already assigned to interface Vlan40
```

```
leaf4(config-if-Vl40)#no shutdown
```

```
leaf4(config-if-Vl40)#exit
```

```
leaf4(config)#ip routing
```

```
leaf4(config)#exit
```

```
leaf4#config
```

```
leaf4(config)#vlan 40
```

```
leaf4(config-vlan-40)#exit
```

```
leaf4(config)#interface Vlan 40
```

```
leaf4(config-if-Vl40)#ip address 40.40.40.33/28
```

```
leaf4(config-if-Vl40)#ip virtual-router address 40.40.40.33
```

```
% Address 40.40.40.33 is already assigned to interface Vlan40
```

```
leaf4(config-if-Vl40)#no shutdown
```

```
leaf4(config-if-Vl40)#exit
```