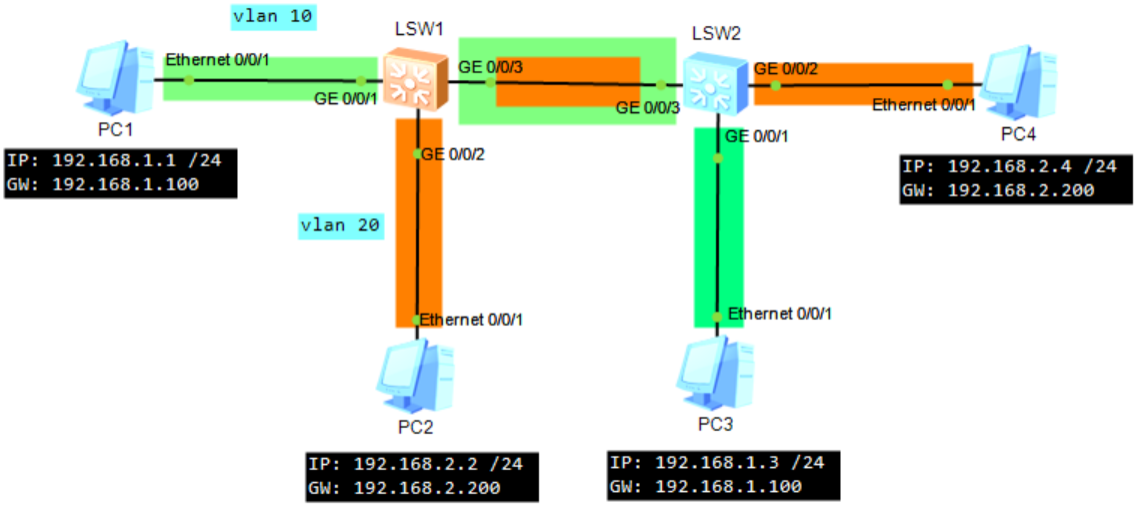
CCN LAB #7

Connections:



LSW1:

```
[LSW1]display vlan
The total number of vlans is : 3
--------------------------------------------------------------------------------
U: Up;         D: Down;         TG: Tagged;         UT: Untagged;
MP: Vlan-mapping;               ST: Vlan-stacking;
#: ProtocolTransparent-vlan;    *: Management-vlan;
--------------------------------------------------------------------------------

VID  Type    Ports
--------------------------------------------------------------------------------
1    common  UT:GE0/0/3(U)      GE0/0/4(D)      GE0/0/5(D)      GE0/0/6(D)
             GE0/0/7(D)        GE0/0/8(D)      GE0/0/9(D)      GE0/0/10(D)
             GE0/0/11(D)       GE0/0/12(D)     GE0/0/13(D)     GE0/0/14(D)
             GE0/0/15(D)       GE0/0/16(D)     GE0/0/17(D)     GE0/0/18(D)
             GE0/0/19(D)       GE0/0/20(D)     GE0/0/21(D)     GE0/0/22(D)
             GE0/0/23(D)       GE0/0/24(D)

10   common  UT:GE0/0/1(U)
             TG:GE0/0/3(U)
20   common  UT:GE0/0/2(U)
             TG:GE0/0/3(U)


VID  Status  Property      MAC-LRN Statistics Description
--------------------------------------------------------------------------------
1    enable  default       enable  disable    VLAN 0001
10   enable  default       enable  disable    VLAN 0010
20   enable  default       enable  disable    VLAN 0020
```

```
[LSW1]display ip interface brief
*down: administratively down
^down: standby
(l): loopback
(s): spoofing
The number of interface that is UP in Physical is 4
The number of interface that is DOWN in Physical is 1
The number of interface that is UP in Protocol is 3
The number of interface that is DOWN in Protocol is 2

Interface                         IP Address/Mask      Physical   Protocol
MEth0/0/1                         unassigned           down       down
NULL0                             unassigned           up         up(s)
Vlanif1                           unassigned           up         down
Vlanif10                          192.168.1.100/24     up         up
Vlanif20                          192.168.2.200/24     up         up
```

LSW2:

```
[LSW2]display vlan
The total number of vlans is : 3
--------------------------------------------------------------------------------
U: Up;         D: Down;         TG: Tagged;         UT: Untagged;
MP: Vlan-mapping;               ST: Vlan-stacking;
#: ProtocolTransparent-vlan;    *: Management-vlan;
--------------------------------------------------------------------------------

VID  Type    Ports
--------------------------------------------------------------------------------
1    common  UT:GE0/0/3(U)      GE0/0/4(D)      GE0/0/5(D)      GE0/0/6(D)
                GE0/0/7(D)      GE0/0/8(D)      GE0/0/9(D)      GE0/0/10(D)
                GE0/0/11(D)     GE0/0/12(D)     GE0/0/13(D)     GE0/0/14(D)
                GE0/0/15(D)     GE0/0/16(D)     GE0/0/17(D)     GE0/0/18(D)
                GE0/0/19(D)     GE0/0/20(D)     GE0/0/21(D)     GE0/0/22(D)
                GE0/0/23(D)     GE0/0/24(D)

10   common  UT:GE0/0/1(U)
             TG:GE0/0/3(U)

20   common  UT:GE0/0/2(U)
             TG:GE0/0/3(U)


VID  Status  Property      MAC-LRN Statistics Description
--------------------------------------------------------------------------------
1    enable  default       enable  disable    VLAN 0001
10   enable  default       enable  disable    VLAN 0010
20   enable  default       enable  disable    VLAN 0020
```

```
[LSW2]display ip interface brief
*down: administratively down
^down: standby
(l): loopback
(s): spoofing
The number of interface that is UP in Physical is 4
The number of interface that is DOWN in Physical is 1
The number of interface that is UP in Protocol is 3
The number of interface that is DOWN in Protocol is 2

Interface                         IP Address/Mask      Physical   Protocol
MEth0/0/1                         unassigned           down       down
NULL0                             unassigned           up         up(s)
Vlanif1                           unassigned           up         down
Vlanif10                          192.168.1.100/24     up         up
Vlanif20                          192.168.2.200/24     up         up
```

Pinging from PC1 to PC2, PC3 and PC4:

```
PC>ping 192.168.2.2

Ping 192.168.2.2: 32 data bytes, Press Ctrl_C to break
From 192.168.2.2: bytes=32 seq=1 ttl=127 time=203 ms
From 192.168.2.2: bytes=32 seq=2 ttl=127 time=93 ms
From 192.168.2.2: bytes=32 seq=3 ttl=127 time=94 ms
From 192.168.2.2: bytes=32 seq=4 ttl=127 time=94 ms
From 192.168.2.2: bytes=32 seq=5 ttl=127 time=78 ms

--- 192.168.2.2 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 78/112/203 ms

PC>ping 192.168.1.3

Ping 192.168.1.3: 32 data bytes, Press Ctrl_C to break
From 192.168.1.3: bytes=32 seq=1 ttl=128 time=78 ms
From 192.168.1.3: bytes=32 seq=2 ttl=128 time=93 ms
From 192.168.1.3: bytes=32 seq=3 ttl=128 time=79 ms
From 192.168.1.3: bytes=32 seq=4 ttl=128 time=125 ms
From 192.168.1.3: bytes=32 seq=5 ttl=128 time=109 ms

--- 192.168.1.3 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 78/96/125 ms
```

```
PC>ping 192.168.2.4

Ping 192.168.2.4: 32 data bytes, Press Ctrl_C to break
From 192.168.2.4: bytes=32 seq=1 ttl=127 time=188 ms
From 192.168.2.4: bytes=32 seq=2 ttl=127 time=78 ms
From 192.168.2.4: bytes=32 seq=3 ttl=127 time=110 ms
From 192.168.2.4: bytes=32 seq=4 ttl=127 time=94 ms
From 192.168.2.4: bytes=32 seq=5 ttl=127 time=125 ms

--- 192.168.2.4 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 78/119/188 ms
```

Pinging from PC3 to PC1, PC2 and PC4:

```
PC>ping 192.168.2.2

Ping 192.168.2.2: 32 data bytes, Press Ctrl_C to break
From 192.168.2.2: bytes=32 seq=1 ttl=127 time=188 ms
From 192.168.2.2: bytes=32 seq=2 ttl=127 time=78 ms
From 192.168.2.2: bytes=32 seq=3 ttl=127 time=78 ms
From 192.168.2.2: bytes=32 seq=4 ttl=127 time=94 ms
From 192.168.2.2: bytes=32 seq=5 ttl=127 time=110 ms

--- 192.168.2.2 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 78/109/188 ms

PC>ping 192.168.2.4

Ping 192.168.2.4: 32 data bytes, Press Ctrl_C to break
From 192.168.2.4: bytes=32 seq=1 ttl=127 time=171 ms
From 192.168.2.4: bytes=32 seq=2 ttl=127 time=94 ms
From 192.168.2.4: bytes=32 seq=3 ttl=127 time=125 ms
From 192.168.2.4: bytes=32 seq=4 ttl=127 time=125 ms
From 192.168.2.4: bytes=32 seq=5 ttl=127 time=93 ms

--- 192.168.2.4 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 93/121/171 ms
```

```
PC>ping 192.168.1.1

Ping 192.168.1.1: 32 data bytes, Press Ctrl_C to break
From 192.168.1.1: bytes=32 seq=1 ttl=128 time=110 ms
From 192.168.1.1: bytes=32 seq=2 ttl=128 time=79 ms
From 192.168.1.1: bytes=32 seq=3 ttl=128 time=78 ms
From 192.168.1.1: bytes=32 seq=4 ttl=128 time=125 ms
From 192.168.1.1: bytes=32 seq=5 ttl=128 time=78 ms

--- 192.168.1.1 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
  round-trip min/avg/max = 78/94/125 ms
```