N9K-2 (Default GW)
172.16.100.1

Eth1/1

N9K-1

Eth1/34   Eth1/35

FI-A   FI-B

Eth1/13-16   Eth1/13-16

Server 1   Server 2
172.16.100.101   172.16.100.102

UCS-B

N9K-1 Running Configuration:

```
feature private-vlan

vlan 22
  private-vlan community
vlan 32
  private-vlan isolated
vlan 102
  private-vlan primary
  private-vlan association 22,32

interface Vlan102
  no shutdown
  private-vlan mapping 22,32

interface Ethernet1/1
  switchport
  switchport mode private-vlan promiscuous
  switchport private-vlan mapping 102 22,32
  switchport access vlan 102
  no shutdown

interface Ethernet1/34
  switchport
  switchport mode private-vlan host
  switchport private-vlan host-association 102 22
  switchport access vlan 102
  no shutdown

interface Ethernet1/35
  switchport
  switchport mode private-vlan host
  switchport private-vlan host-association 102 32
  switchport access vlan 102
  no shutdown
```
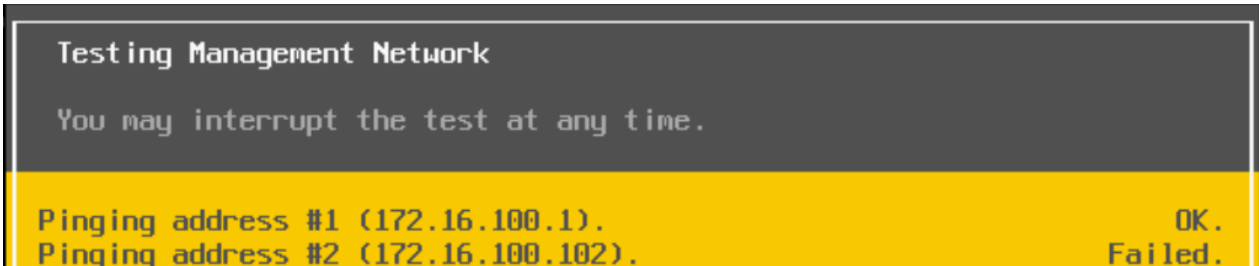
N9K-1 Basic Verification Command:

```
N9K-1# show vlan private-vlan
Primary   Secondary   Type        Ports
-------   ---------   ---------   ---------------
102       22          community   Eth1/1, Eth1/34

102       32          isolated    Eth1/1, Eth1/35
```

Ping Result from Server 1:

```
Testing Management Network
You may interrupt the test at any time.

Pinging address #1 (172.16.100.1).                    OK.
Pinging address #2 (172.16.100.102).                  Failed.
```
*Because interface Eth1/35 is configured with secondary VLAN 32, and
VLAN 32 is an isolated VLAN.

N9K-1 Running Configuration:

```
feature private-vlan

vlan 22
  private-vlan community
vlan 32
  private-vlan isolated
vlan 102
  private-vlan primary
  private-vlan association 22,32

interface Vlan102
  no shutdown
  private-vlan mapping 22,32

interface Ethernet1/1
  switchport
  switchport mode private-vlan promiscuous
  switchport private-vlan mapping 102 22,32
  switchport access vlan 102
  no shutdown

interface Ethernet1/34
  switchport
  switchport mode private-vlan host
  switchport private-vlan host-association 102 22
  switchport access vlan 102
  no shutdown

interface Ethernet1/35
  switchport
  switchport mode private-vlan host
  switchport private-vlan host-association 102 22
  switchport access vlan 102
  no shutdown
```
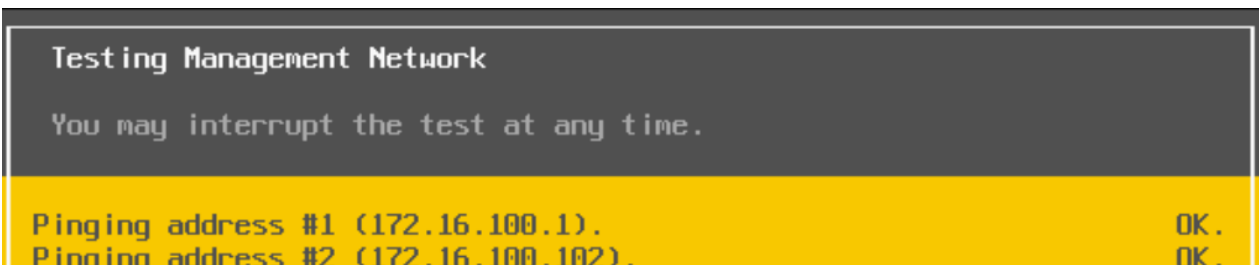
N9K-1 Basic Verification Command:

```
N9K-1# show vlan private-vlan
Primary   Secondary   Type        Ports
-------   ---------   ---------   ------------------------
102       22          community   Eth1/1, Eth1/34, Eth1/35

102       32          isolated    Eth1/1
```

Ping Result from Server 1:

```
Testing Management Network
You may interrupt the test at any time.

Pinging address #1 (172.16.100.1).                    OK.
Pinging address #2 (172.16.100.102).                  OK.
```
*Because interface Eth1/35 is now configured with secondary VLAN 22,
and VLAN 22 is a community VLAN.

CISCO