

```
[edit routing-instances]
ylara@R1# show | display set
set routing-instances VR11 instance-type virtual-router
set routing-instances VR11 interface fe-0/0/0.0
set routing-instances VR11 interface lo0.11
set routing-instances VR11 protocols isis interface fe-0/0/0.0
set routing-instances VR11 protocols isis interface lo0.11

set routing-instances VR12 instance-type virtual-router
set routing-instances VR12 interface fe-0/0/1.0
set routing-instances VR12 interface fe-0/0/2.0
set routing-instances VR12 interface lo0.12
set routing-instances VR12 protocols isis interface fe-0/0/1.0
set routing-instances VR12 protocols isis interface fe-0/0/2.0
set routing-instances VR12 protocols isis interface lo0.12

set routing-instances VR13 instance-type virtual-router
set routing-instances VR13 interface fe-0/0/3.0
set routing-instances VR13 interface fe-0/0/4.0
set routing-instances VR13 interface lo0.13
set routing-instances VR13 protocols isis interface fe-0/0/3.0
set routing-instances VR13 protocols isis interface fe-0/0/4.0
set routing-instances VR13 protocols isis interface lo0.13

set routing-instances VR14 instance-type virtual-router
set routing-instances VR14 interface fe-0/0/5.0
set routing-instances VR14 interface lo0.14
set routing-instances VR14 protocols isis interface fe-0/0/5.0
set routing-instances VR14 protocols isis interface lo0.14
```

```
[edit interfaces]
ylara@R1# show | display set
set interfaces fe-0/0/0 unit 0 family inet address 10.1.1.1/24
set interfaces fe-0/0/1 unit 0 family inet address 10.1.1.2/24
set interfaces fe-0/0/2 unit 0 family inet address 10.2.2.1/24
set interfaces fe-0/0/3 unit 0 family inet address 10.2.2.2/24
set interfaces fe-0/0/4 unit 0 family inet address 10.3.3.1/24
set interfaces fe-0/0/5 unit 0 family inet address 10.3.3.2/24

set interfaces fe-0/0/0 unit 0 family iso
set interfaces fe-0/0/1 unit 0 family iso
set interfaces fe-0/0/2 unit 0 family iso
set interfaces fe-0/0/3 unit 0 family iso
set interfaces fe-0/0/4 unit 0 family iso
set interfaces fe-0/0/5 unit 0 family iso

set interfaces lo0 unit 11 family inet address 192.168.1.11/32
set interfaces lo0 unit 12 family inet address 192.168.1.12/32
set interfaces lo0 unit 13 family inet address 192.168.1.13/32
set interfaces lo0 unit 14 family inet address 192.168.1.14/32

set interfaces lo0 unit 11 family iso address 49.0001.0192.0168.0011.00
set interfaces lo0 unit 12 family iso address 49.0001.0192.0168.0012.00
set interfaces lo0 unit 13 family iso address 49.0001.0192.0168.0013.00
set interfaces lo0 unit 14 family iso address 49.0001.0192.0168.0014.00
```

```
[edit class-of-service interfaces]
ylara@R1# show | display set
set class-of-service interfaces fe-0/0/2 unit 0 rewrite-rules ieee-802.1 default
set class-of-service interfaces fe-0/0/3 unit 0 classifiers ieee-802.1 default
```

```
ylara@R1> clear interfaces statistics all
```

```

ylara@R1> ping 192.168.1.14 rapid count 1000 routing-instance VR11
PING 192.168.1.14 (192.168.1.14): 56 data bytes
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!---more---
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!
--- 192.168.1.14 ping statistics ---
1000 packets transmitted, 1000 packets received, 0% packet loss
round-trip min/avg/max/stddev = 1.616/2.115/7.956/0.466 ms

```

```

ylara@R1> show interfaces queue fe-0/0/4
Physical interface: fe-0/0/4, Enabled, Physical link is Up
Interface index: 138, SNMP ifIndex: 513
Forwarding classes: 8 supported, 4 in use
Egress queues: 8 supported, 4 in use
Queue: 0, Forwarding classes: best-effort

```

```

  Queued:
    Packets      :                0                0 pps
    Bytes       :                0                0 bps
  Transmitted:
    Packets      :                0                0 pps
    Bytes       :                0                0 bps
    Tail-dropped packets :            0                0 pps
    RED-dropped packets :            0                0 pps
      Low       :                0                0 pps
      Medium-low :                0                0 pps
      Medium-high :                0                0 pps
      High      :                0                0 pps
    RED-dropped bytes :            0                0 bps
      Low       :                0                0 bps
      Medium-low :                0                0 bps
      Medium-high :                0                0 bps
      High      :                0                0 bps

```

```

Queue: 1, Forwarding classes: expedited-forwarding

```

```

  Queued:
    Packets      :                0                0 pps
    Bytes       :                0                0 bps
  Transmitted:
    Packets      :                0                0 pps
    Bytes       :                0                0 bps
    Tail-dropped packets :            0                0 pps
    RED-dropped packets :            0                0 pps
      Low       :                0                0 pps
      Medium-low :                0                0 pps
      Medium-high :                0                0 pps
      High      :                0                0 pps
    RED-dropped bytes :            0                0 bps
      Low       :                0                0 bps
      Medium-low :                0                0 bps
      Medium-high :                0                0 bps
      High      :                0                0 bps

```

```

Queue: 2, Forwarding classes: assured-forwarding

```

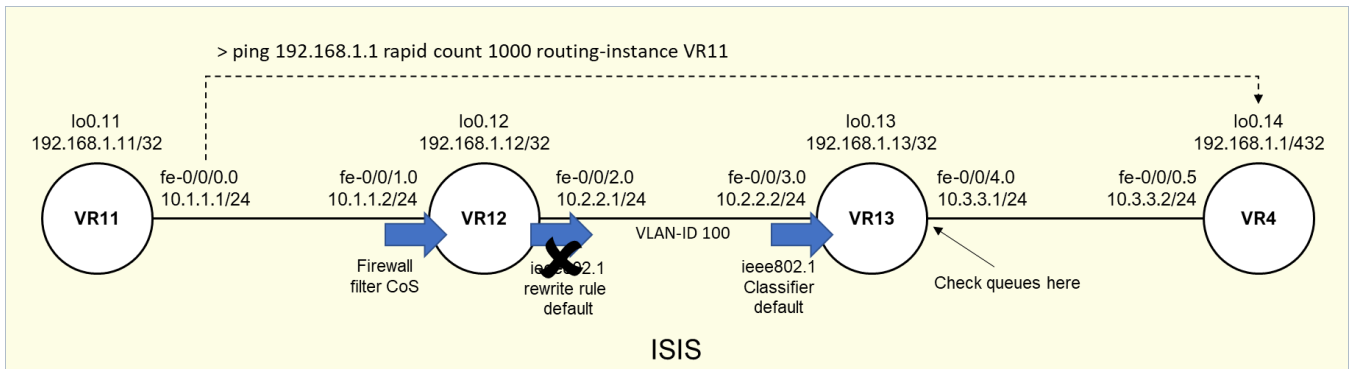
```

  Queued:
    Packets      :                1000                0 pps
    Bytes       :                98000                0 bps
  Transmitted:
    Packets      :                1000                0 pps
    Bytes       :                98000                0 bps
    Tail-dropped packets :            0                0 pps
    RED-dropped packets :            0                0 pps
      Low       :                0                0 pps
      Medium-low :                0                0 pps
      Medium-high :                0                0 pps
      High      :                0                0 pps
    RED-dropped bytes :            0                0 bps
      Low       :                0                0 bps
      Medium-low :                0                0 bps
      Medium-high :                0                0 bps
      High      :                0                0 bps

```

Queue: 3, Forwarding classes: network-control

```
Queued:
Packets      :          9          0 pps
Bytes        :         625         0 bps
Transmitted:
Packets      :          9          0 pps
Bytes        :         625         0 bps
Tail-dropped packets :          0          0 pps
RED-dropped packets :          0          0 pps
  Low        :          0          0 pps
  Medium-low :          0          0 pps
  Medium-high:          0          0 pps
  High       :          0          0 pps
RED-dropped bytes  :          0          0 bps
  Low            :          0          0 bps
  Medium-low    :          0          0 bps
  Medium-high   :          0          0 bps
  High         :          0          0 bps
```



[edit class-of-service]

```
ylara@R1# deactivate interfaces fe-0/0/2 unit 0 rewrite-rules
```

```
ylara@R1> clear interfaces statistics all
```

```
ylara@R1> ping 192.168.1.14 rapid count 1000 routing-instance VR11
```

```
PING 192.168.1.14 (192.168.1.14): 56 data bytes
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!---more---
192.168.1.14 ping statistics ---
1000 packets transmitted, 1000 packets received, 0% packet loss
round-trip min/avg/max/stddev = 1.611/2.139/11.849/0.730 ms
```

```
ylara@R1> show interfaces queue fe-0/0/4
```

Physical interface: fe-0/0/4, Enabled, Physical link is Up

Interface index: 138, SNMP ifIndex: 513

Forwarding classes: 8 supported, 4 in use

Egress queues: 8 supported, 4 in use

Queue: 0, Forwarding classes: best-effort

```
Queued:
Packets      :          9          0 pps
Bytes        :         625         0 bps
Transmitted:
Packets      :          9          0 pps
Bytes        :         625         0 bps
Tail-dropped packets :          0          0 pps
RED-dropped packets :          0          0 pps
  Low        :          0          0 pps
  Medium-low :          0          0 pps
  Medium-high:          0          0 pps
  High       :          0          0 pps
RED-dropped bytes  :          0          0 bps
  Low            :          0          0 bps
  Medium-low    :          0          0 bps
  Medium-high   :          0          0 bps
  High         :          0          0 bps
```

Queue: 1, Forwarding classes: expedited-forwarding

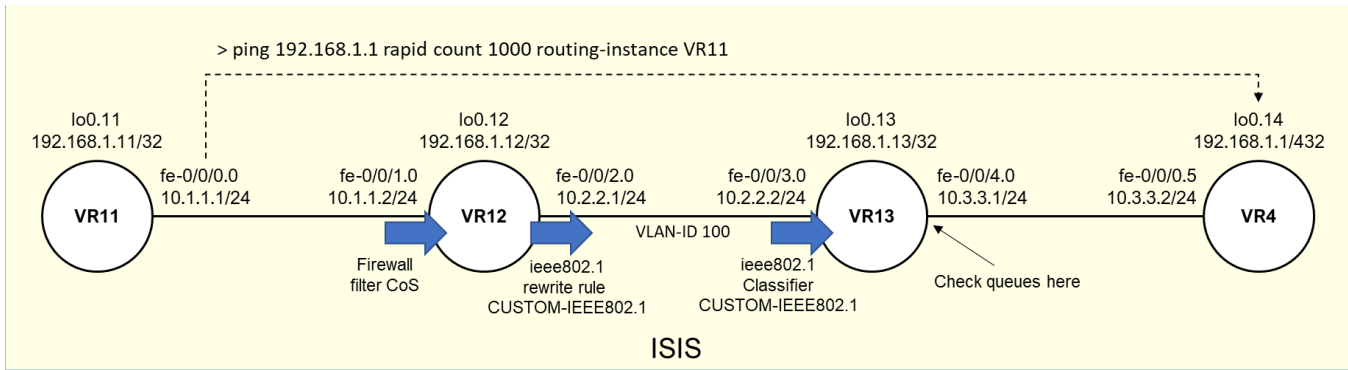
```
Queued:
Packets      :          0          0 pps
Bytes        :          0          0 bps
Transmitted:
Packets      :          0          0 pps
Bytes        :          0          0 bps
Tail-dropped packets :      0          0 pps
RED-dropped packets :      0          0 pps
  Low        :          0          0 pps
  Medium-low :          0          0 pps
  Medium-high :          0          0 pps
  High       :          0          0 pps
RED-dropped bytes :      0          0 bps
  Low        :          0          0 bps
  Medium-low :          0          0 bps
  Medium-high :          0          0 bps
  High       :          0          0 bps
```

Queue: 2, Forwarding classes: assured-forwarding

```
Queued:
Packets      :          0          0 pps
Bytes        :          0          0 bps
Transmitted:
Packets      :          0          0 pps
Bytes        :          0          0 bps
Tail-dropped packets :      0          0 pps
RED-dropped packets :      0          0 pps
  Low        :          0          0 pps
  Medium-low :          0          0 pps
  Medium-high :          0          0 pps
  High       :          0          0 pps
RED-dropped bytes :      0          0 bps
  Low        :          0          0 bps
  Medium-low :          0          0 bps
  Medium-high :          0          0 bps
  High       :          0          0 bps
```

Queue: 3, Forwarding classes: network-control

```
Queued:
Packets      :          9          0 pps
Bytes        :         625          0 bps
Transmitted:
Packets      :          9          0 pps
Bytes        :         625          0 bps
Tail-dropped packets :      0          0 pps
RED-dropped packets :      0          0 pps
  Low        :          0          0 pps
  Medium-low :          0          0 pps
  Medium-high :          0          0 pps
  High       :          0          0 pps
RED-dropped bytes :      0          0 bps
  Low        :          0          0 bps
  Medium-low :          0          0 bps
  Medium-high :          0          0 bps
  High       :          0          0 bps
```



```
[edit class-of-service interfaces]
```

```
ylara@R1# show | display set
```

```
set class-of-service classifiers ieee-802.1 CUSTOM-IEEE802.1 forwarding-class assured-forwarding loss-
priority high code-points 110
```

```
set class-of-service rewrite-rules ieee-802.1 CUSTOM-IEEE802.1 forwarding-class assured-
```

```
set class-of-service interfaces fe-0/0/2 unit 0 rewrite-rules ieee-802.1 CUSTOM-IEEE802.1
```

```
set class-of-service interfaces fe-0/0/3 unit 0 classifiers ieee-802.1 CUSTOM-IEEE802.1 forwarding loss-
priority high code-point 110
```

```
ylara@R1> clear interfaces statistics all
```

```
ylara@R1> ping 192.168.1.14 rapid count 1000 routing-instance VR11
```

```

PING 192.168.1.14 (192.168.1.14): 56 data bytes
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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!!!
--- 192.168.1.14 ping statistics ---
1000 packets transmitted, 1000 packets received, 0% packet loss
round-trip min/avg/max/stddev = 1.611/2.129/10.020/0.586 ms

```

```
ylara@R1# run show interfaces queue fe-0/0/4
```

```

Physical interface: fe-0/0/4, Enabled, Physical link is Up
Interface index: 138, SNMP ifIndex: 513
Forwarding classes: 8 supported, 4 in use
Egress queues: 8 supported, 4 in use
Queue: 0, Forwarding classes: best-effort
Queued:
  Packets      :              0              0 pps
  Bytes        :              0              0 bps
Transmitted:
  Packets      :              0              0 pps
  Bytes        :              0              0 bps
Tail-dropped packets :              0              0 pps
RED-dropped packets :              0              0 pps
  Low          :              0              0 pps
  Medium-low   :              0              0 pps
  Medium-high  :              0              0 pps
  High         :              0              0 pps
RED-dropped bytes  :              0              0 bps
  Low          :              0              0 bps
  Medium-low   :              0              0 bps
  Medium-high  :              0              0 bps
  High         :              0              0 bps

```

Queue: 1, Forwarding classes: expedited-forwarding

```
Queued:
  Packets      :          0          0 pps
  Bytes       :          0          0 bps
Transmitted:
  Packets      :          0          0 pps
  Bytes       :          0          0 bps
Tail-dropped packets :          0          0 pps
RED-dropped packets :          0          0 pps
  Low        :          0          0 pps
  Medium-low :          0          0 pps
  Medium-high:          0          0 pps
  High       :          0          0 pps
RED-dropped bytes  :          0          0 bps
  Low          :          0          0 bps
  Medium-low   :          0          0 bps
  Medium-high  :          0          0 bps
  High        :          0          0 bps
```

Queue: 2, Forwarding classes: assured-forwarding

```
Queued:
  Packets      :          1000          0 pps
  Bytes       :          98000          0 bps
Transmitted:
  Packets      :          1000          0 pps
  Bytes       :          98000          0 bps
Tail-dropped packets :          0          0 pps
RED-dropped packets :          0          0 pps
  Low          :          0          0 pps
  Medium-low   :          0          0 pps
  Medium-high  :          0          0 pps
  High         :          0          0 pps
RED-dropped bytes  :          0          0 bps
  Low          :          0          0 bps
  Medium-low   :          0          0 bps
  Medium-high  :          0          0 bps
  High         :          0          0 bps
```

Queue: 3, Forwarding classes: network-control

```
Queued:
  Packets      :           5          0 pps
  Bytes       :          333          0 bps
Transmitted:
  Packets      :           5          0 pps
  Bytes       :          333          0 bps
Tail-dropped packets :          0          0 pps
RED-dropped packets :          0          0 pps
  Low          :          0          0 pps
  Medium-low   :          0          0 pps
  Medium-high  :          0          0 pps
  High         :          0          0 pps
RED-dropped bytes  :          0          0 bps
  Low          :          0          0 bps
  Medium-low   :          0          0 bps
  Medium-high  :          0          0 bps
  High         :          0          0 bps
```