



JN0-649^{Q&As}

Enterprise Routing and Switching Professional (JNCIP-ENT)

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QUESTION 1

Referring to the exhibit, traffic ingresses on interface ge-0/0/3 and egresses on interface ge-0/0/4. Which queue does traffic with the IP precedence value of 100 use?



```
[edit interfaces]
user@router# show
ge-0/0/3 {
  unit 0 {
    family inet {
      address 10.42.67.1/30;
    }
  }
}
ge-0/0/4 {
  unit 0 {
    family inet {
      filter {
        input cos;
      }
      address 10.42.16.1/30;
    }
  }
}
[edit class-of-service]
user@router# show
classifiers {
  inet-precedence cos {
    forwarding-class best-effort {
      loss-priority low code-points [ 000 001 010 011 ];
    }
    forwarding-class assured-forwarding {
      loss-priority low code-points 101;
    }
  }
}

user@router# show
classifiers {
  inet-precedence cos {
    forwarding-class best-effort {
      loss-priority low code-points [ 000 001 010 011 ];
    }
    forwarding-class assured-forwarding {
      loss-priority low code-points 101;
    }
    forwarding-class expedited-forwarding {
      loss-priority low code-points 100;
    }
    forwarding-class network-control {
      loss-priority low code-points [ 110 111 ];
    }
  }
}
```



```
forwarding-classes {
  queue 0 best-effort;
  queue 1 expedited-forwarding;
  queue 2 assured-forwarding;
  queue 3 network-control;
}
interfaces {
  ge-* {
    unit * {
      classifiers {
        inet-precedence default;
      }
    }
  }
  ge-0/0/4 {
    unit 0 {
      classifiers {
        inet-precedence cos;
      }
    }
  }
}
[edit firewall family inet]
user@router# show
filter cos {
  term 1 {
    from {
      precedence [ 0 2 5 ];
    }
    then {
      forwarding-class best-effort;
      accept;
    }
  }
  term 2 {
    from {
      precedence [ 1 4 ];
    }
    then {
      forwarding-class assured-forwarding;
      accept;
    }
  }
}
```



```
term 3 {  
  from {  
    precedence 3;  
  }  
  then {  
    forwarding-class expedited-forwarding;  
    accept;  
  }  
}  
term 4 {  
  from {  
    precedence [ 6 7 ];  
  }  
  then {  
    forwarding-class network-control;  
    accept;  
  }  
}  
}
```

[edit class-of-service]

```
user@router# run show class-of-service classifier name ipprec-default  
Classifier: ipprec-default, Code point type: inet-precedence, Index: 12
```

Code point	Forwarding class	Loss priority
000	best-effort	low
001	assured-forwarding	low
010	best-effort	low
011	best-effort	low
100	best-effort	low
101	expedited-forwarding	low
110	network-control	low
111	network-control	high

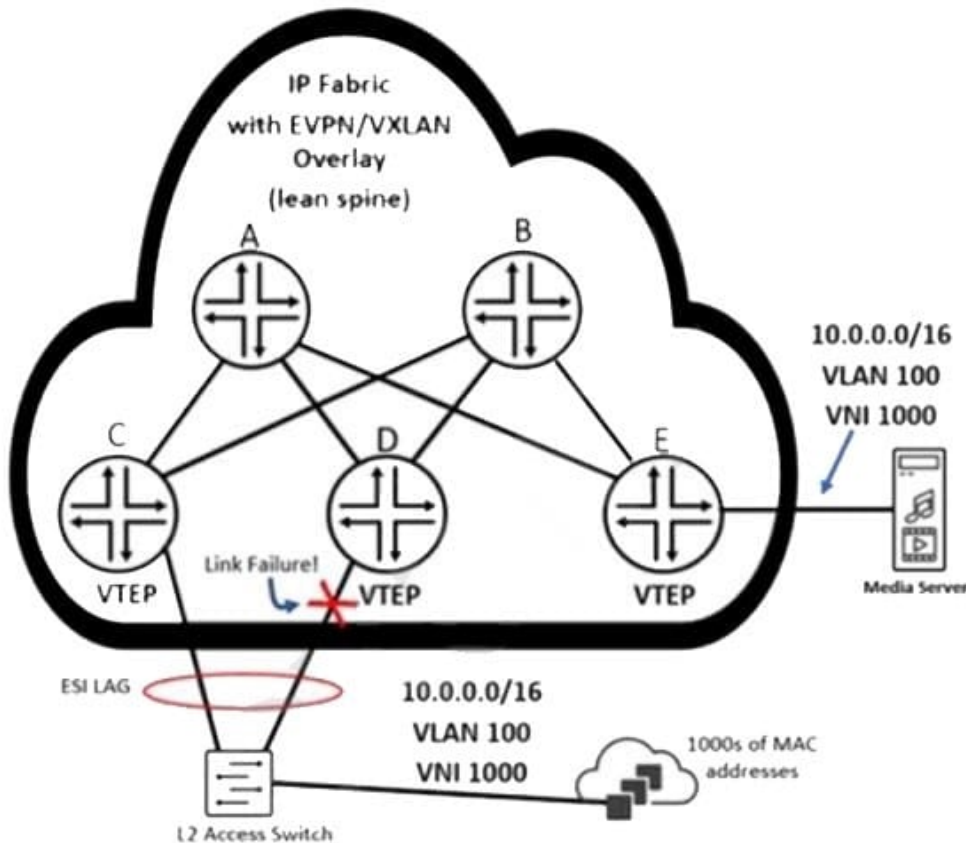
- A. network-control
- B. assured-forwarding
- C. best-effort
- D. expedited-forwarding

Correct Answer: D



QUESTION 2

Referring to the exhibit, how will router E quickly learn that the remote MAC addresses are no longer reachable through the router attached to the failed link?



- A. Router E receives Type 2 withdrawal messages from router D.
- B. Router E receives Type 1 withdrawal messages from router D.
- C. Router E receives Type 1 withdrawal messages from router C.
- D. Router E receives Type 2 withdrawal messages from router C.

Correct Answer: B

QUESTION 3

You are deploying new Juniper EX Series switches in a network that currently is using Cisco's Per-VLAN spanning tree plus (PVST+) and you must provide compatibility with this environment. Which spanning tree protocol do you deploy in this scenario?

- A. STP
- B. MSTP



- C. VSTP
- D. RSTP

Correct Answer: B

QUESTION 4

When using wide metrics, which two statements about route advertisement between IS-IS levels are correct? (Choose two.)

- A. Level 1 and Level 2 routers do not advertise Level 2 routes into the Level 1 area by default.
- B. Level 1 routes are advertised to Level 2 routers by default.
- C. If wide-metrics-only is configured, Level 1 routes are not advertised to Level 2 routers by default.
- D. Level 1 routes advertised as external routes into Level 1 are not advertised to any Level 2 routers by default.

Correct Answer: AC

QUESTION 5

Your enterprise network uses routing instances to support multitenancy. Your Junos devices use BGP to peer to multiple BGP devices. You must ensure that load balancing is achieved within the routing instance. Which two statements would accomplish this task? (Choose two.)

- A. Configure the multipath option at the [edit protocols bgp group neighbor] hierarchy.
- B. Configure the multipath option at the [edit protocols bgp group] hierarchy.
- C. Configure a load-balance per-packet policy and apply it at the [edit routing-options forwarding-table] hierarchy.
- D. Configure the multipath option at the [edit routing-instances routing-options] hierarchy.

Correct Answer: BC

Fortunately, the Juniper Networks BGP implementation supports the notion of a bandwidth community. This extended community encodes the bandwidth of a given next hop, and when combined with multipath, the load-balancing algorithm distributes flows across the set of next hops proportional to their relative bandwidths. Put another way, if you have a 10-Mbps and a 1-Mbps next hop, on average nine flows will map to the high-speed next hop for every one that uses the low speed.

Use of BGP bandwidth community is supported only with per-packet load balancing.

The configuration task has two parts:

Configure the external BGP (EBGP) peering sessions, enable multipath, and define an import policy to tag routes with a bandwidth community that reflects link speed.

Enable per-packet (really per-flow) load balancing for optimal distribution of traffic.

<https://www.juniper.net/documentation/us/en/software/junos/bgp/topics/topic-map/load-balancing-bgp-session.html>



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