

**JN0-1301.31q**

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**JN0-1301**

**Juniper Networks Certified Design Specialist, Data Center (JNCDS-DC)**

**Exam A**

**QUESTION 1**

You want to provide Layer 2 connectivity to a backup data center or to a disaster recovery site. What would you use to accomplish this task?

- A. Data Center Interconnect
- B. network redundancy
- C. SDN
- D. SAN protocols

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 2

You are creating a design proposal and deciding whether to use 10 GbE copper or 10GbE fiber cabling to connect your ToR switches to the servers.



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Which statement is correct regarding this scenario?

- A. Fiber has a lower power consumption on a per-port basis.
- B. Copper cabling requires special transceivers for different speeds.
- C. Fiber is much cheaper to purchase but has a higher long-term cost.
- D. Copper will allow you to reach the greatest distance between devices.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 3

A customer has selected QFX5110 switches. The initial installation will contain two switches located in racks about two meters apart. What is the most cost-effective way to interconnect these switches?

- A. Use SMF between the racks and interconnect the switches with LX4 transceivers.
- B. Use a Virtual Chassis cable between the VCP cards.
- C. Use MMF between the racks and interconnect the switches with SR4 transceivers.
- D. Use a three-meter passive DAC cable between the racks and interconnect the switches with it.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 4

Clos architectures are based on which network topology?

- A. ring
- B. VLANs
- C. hybrid
- D. spine and leaf



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 5

What are two methods used to protect the data center perimeter? (Choose two.)

- A. session authentication
- B. DDoS protection
- C. asset classification
- D. network subnetting

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 6**

What are two requirements for a VXLAN tunnel endpoint (VTEP)? (Choose two.)

- A. TCP session tracking
- B. MAC address learning
- C. IGMP filtering
- D. IP address learning of interested VTEPs

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 7**

You are designing a Layer 2 fabric implementation for a small data center and have chosen to implement a Virtual Chassis Fabric. You must accommodate two racks of servers with 1 Gbps connectivity, 10 racks of servers with 10 Gbps connectivity, and maintain a single management interface.

Which device would satisfy the requirements in this implementation?

- A. QFX5110
- B. QFX10002
- C. EX4600
- D. EX4300

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

You are implementing a new financial application in your data center. You must ensure Web traffic to this server is secure.

Which Junos feature would you use to accomplish this task?



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- A. graceful restart
- B. antispam
- C. AppSecure
- D. Virtual Chassis

**Correct Answer: C**

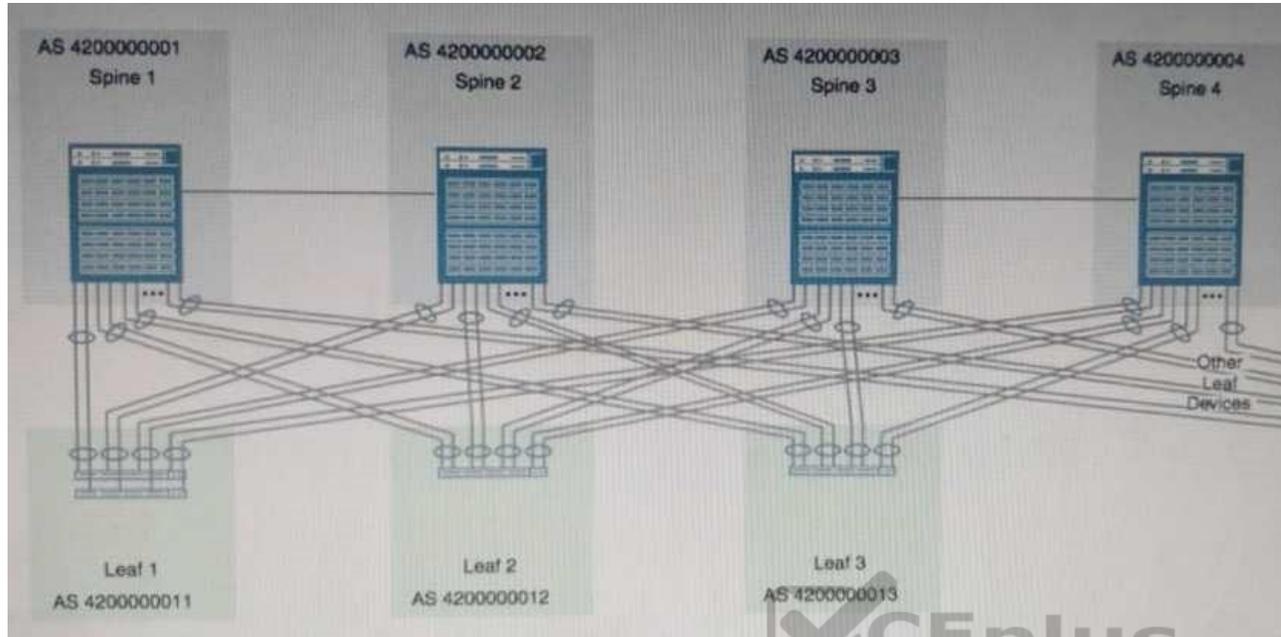
**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 9**

Click the Exhibit button. You are creating a resilient IP fabric for a data center based on a Clos architecture. Referring to the exhibit, which statement is true?



- A. A physical link must be added between spine 2 and spine 3 and between spine 1 and spine 4.
- B. Additional physical links between spine 1 and spine 2 and between spine 3 and spine 4 must be added for resiliency.
- C. No physical links need to be added or removed.
- D. The physical links between spine 1 and spine 2 and between spine 3 and spine 4 must be removed.

**Correct Answer:** D

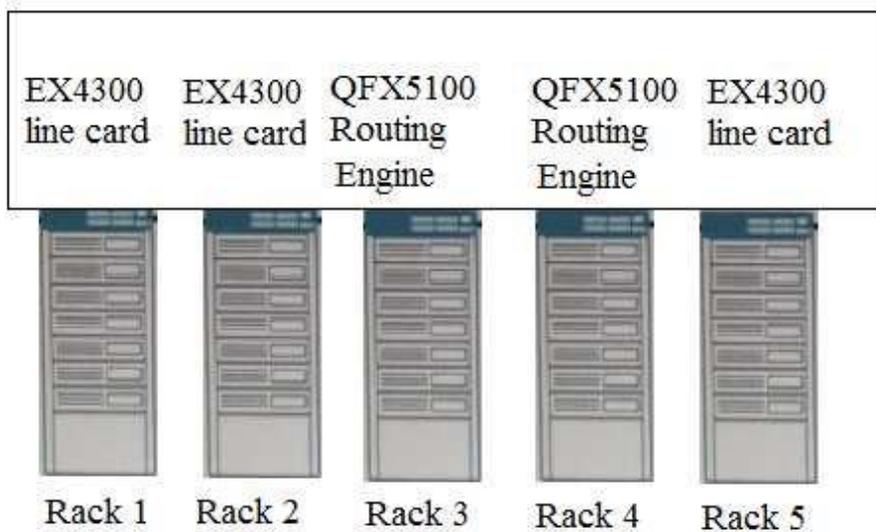
**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

Click the Exhibit button. You are designing a Layer 2 Ethernet fabric. Your customer wants to know which protocol in your design will ensure a loop-free topology. Referring to the exhibit, which protocol meets this requirement?



- A. STP
- B. VCCP
- C. BGP
- D. EVPN



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

Which two statements about data center design are correct? (Choose two.)

- A. The most efficient traffic flow pattern is 50% east-west and 50% north-south.
- B. A data center that provides hosted services should scale based on customer demands.
- C. A multitier design provides better performance as the number of applications increase.
- D. An application may query several resources in response to a single user request.

**Correct Answer:** BD

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 12**

You are designing an IP fabric using EBGp.

In this scenario, what are two ways of designing the ASN scheme for the IP fabric? (Choose two.)

- A. Assign the same ASN to all devices.
- B. Assign the ASN to all leaf devices and a separate ASN to all spine devices.
- C. Assign a unique ASN to each individual device.
- D. Assign the same ASN used by the WAN service provider to the spine devices.

**Correct Answer: CD**

**Section: (none)**

**Explanation**

**Explanation/Reference:**



**QUESTION 13**

Which Junos NFV device is used to provide security in virtualized environments?

- A. TCX1000
- B. SSG20
- C. IC6500
- D. vSRX

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 14**

You have included in your data center design an SRX1500 chassis cluster. The RFP requires a documented upgrade process for the cluster that minimizes downtime. What satisfies this requirement in this scenario?

- A. an in-service software upgrade
- B. a topology-independent in-service software upgrade
- C. a manual device upgrade
- D. a nonstop software upgrade

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

Which two statements are correct about current data center designs? (Choose two.)

- A. Network functions are being virtualized.
- B. Public IP addresses are easy to obtain but not manage.
- C. There is a proliferation of distributed applications.
- D. There is a proliferation of monolithic applications.



**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

Which two statements about heating and cooling design are correct? (Choose two.)

- A. All devices in a rack should be installed so that the port panels are on the same regardless of the air flow direction.
- B. All devices in a rack should be installed so that the air flow is in the same direction regardless of the port panel location.
- C. In the hot-aisle/cold-aisle design, air enters through vents in the hot-aisle and exists through cold-aisle vents.
- D. The hot-aisle/cold-aisle design maximizes the cooling potential of the air conditioning system.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 17**

You plan to deploy a set of SRX Series devices in an active/passive chassis cluster with an active/passive network infrastructure. Which two statements are true in this scenario? (Choose two.)

- A. End-host traffic is serviced through both SRX nodes during non-failure conditions.
- B. End-host traffic is serviced through one SRX node during non-failure conditions.
- C. In non-failure conditions, the end-host traffic across the fabric link is present.
- D. In non-failure conditions, the end-host traffic across the fabric link is eliminated.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 18**

Your company is deploying a private cloud based on OpenStack and has selected Contrail Networking as its SDN controller. Which two statements are true in this scenario? (Choose two.)

- A. Underlay tunnels are established between virtualized and bare-metal servers.
- B. MPLS over UDP tunnels are supported.
- C. Overlay tunnels are established between virtualized and bare-metal servers.
- D. MPLS over GRE tunnels are supported.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 19**

Which statement is true about highly available data center architectures?

- A. All data center devices require the same level of uptime.
- B. They require the use of a services block for non switching/routing devices.
- C. They are never segmented into zones or PoDs.
- D. During a failure, a data center should gracefully degrade.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 20

What are two components of a class-of-service (CoS) switching configuration? (Choose two.)



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- A. forwarding tables
- B. bandwidth
- C. port speed
- D. forwarding class

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

You are designing a DCI strategy. You must provide a solution that meets the requirements shown below: -sub 50 ms failover to alternate path  
-supports L2 and L3 VPNs  
-supports traffic engineered paths

Which technology would satisfy the requirements?

- A. MPLS
- B. GRE
- C. BGP
- D. IPsec

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

You need a security management solution for your data center that will support centralized network visibility and control, J-Flow collection from existing perimeter devices, and SIEM. In this scenario, which two products should you choose for your data center design? (Choose two.)

- A. vSRX
- B. Security Director
- C. JSA
- D. Sky ATP

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

You are re-designing a traditional multitiered data center into a modern spine-and-leaf data center architecture. In this scenario, which two tiers are collapsed? (Choose two.)

- A. distribution
- B. WAN
- C. access
- D. core

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 24

You are designing a Junos-based Ethernet Fabric for a data center that has a combination of 60 EX Series and QFX Series devices.

In this scenario, which solution would you choose?

- A. Junos Fusion Provider Edge
- B. Virtual Chassis
- C. Junos Fusion Data Center
- D. Virtual Chassis Fabric



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 25

A customer is using EVPN to maximize their Data Center Interconnect and provide a stretched Layer 2 network to support VM mobility. What are two benefits in this scenario? (Choose two.)

- A. Load balancing is used across the WAN per flow
- B. Layer 2 MAC tables are populated using the control plane
- C. Load balancing is used across the WAN per packet
- D. Layer 2 MAC tables are populated using the data plane

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### **QUESTION 26**

Your SAN team must transmit FC between multiple locations in a data center. To keep the cost of the project to a minimum, your management decides that using FCoE would be the most cost-effective approach.

In this scenario, which architecture will support FCoE losslessly?

- A. Layer 3 Clos
- B. Virtual Chassis
- C. Virtual Chassis Fabric
- D. VXLAN overlay

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### **QUESTION 27**

Which two statements are correct about a VCF deployment? (Choose two.)

- A. You are allowed up to four spine devices.
- B. The fabric is managed as a single logical device.
- C. An EX4300 switch must be deployed as a spine device.
- D. You must deploy a QFX5100 as a leaf device.

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 28**

Which devices are recommended by Juniper Networks as edge routers in a data center?

- A. EX Series
- B. QFX Series
- C. MX Series
- D. CTP Series

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 29**

Which two security components are inherent in a Contrail vRouter? (Choose two.)

- A. basic tenant separation directional control for Layer 3 and Layer 4 traffic
- B. Layer 7 traffic filters
- C. security groups
- D. encapsulation around each VM residing on the compute node

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 30**

You are designing an IP fabric using IBGP as your underlay.

In this scenario, which statement is correct?

- A. Confederations are not allowed in an IBGP IP traffic.
- B. Route reflectors should be implemented on your spine devices.
- C. IBGP ensures that traffic will be load balanced by default.

D. You must ensure that you have a full mesh with all devices.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31**

What would you use to balance traffic loads between servers in a Clos Layer 3 data center fabric?

- A. MC-LAG
- B. multicast protocols
- C. ECMP routing
- D. BGP export policies

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



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