



300-160^{Q&As}

Designing Cisco Data Center Computing

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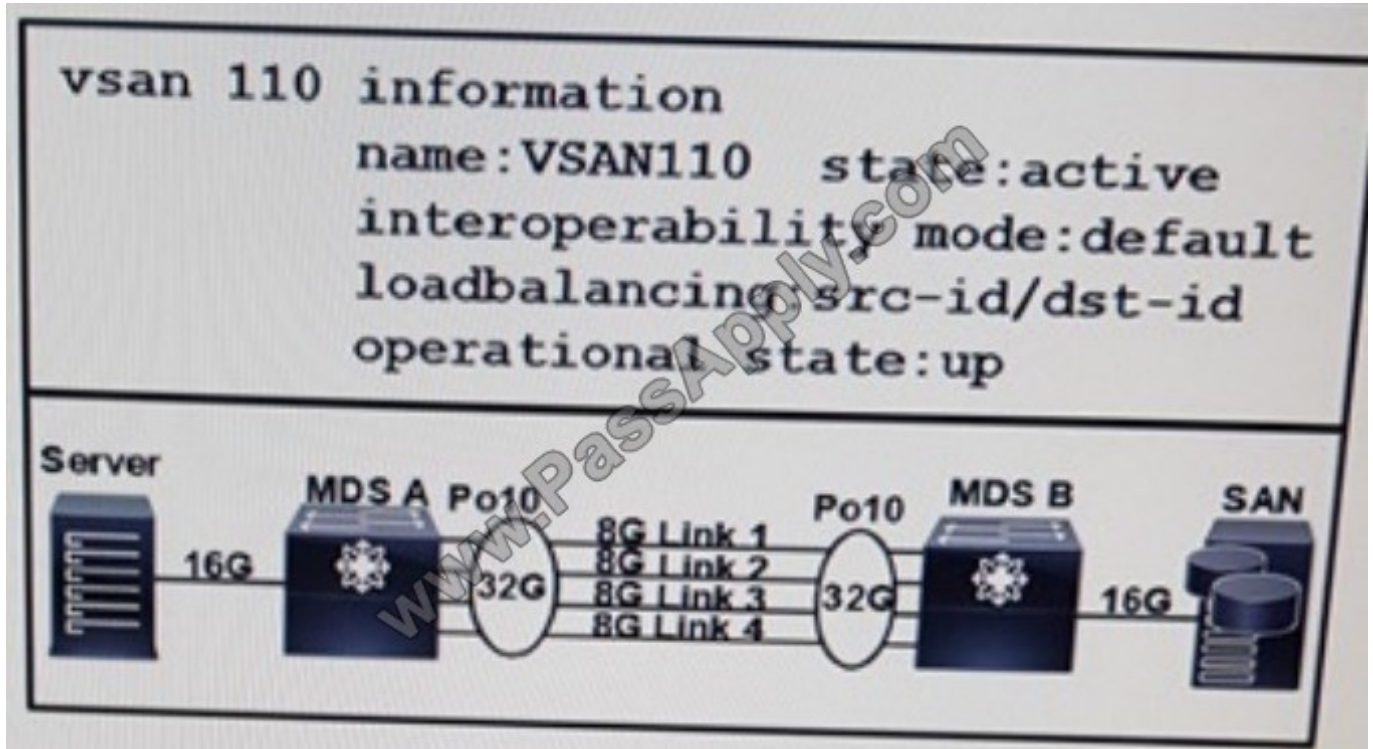
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QUESTION 1

Refer to the Exhibit.



Link 1 handles most of the traffic. Which action do you take to load balance traffic evenly between the server and the SAN?

- A. Enable src-dst-ox0id load balancing on the MDS switches.
- B. Enable src-dst-id load balancing on the MDS switches.
- C. Change the MDS port changgel configuration to source dest port.
- D. Upgrade the bandwidth for the devices connected to the MDS.

Correct Answer: A

QUESTION 2

Classical aggregation layer designs do not provide isolation of the control and data planes. What provides a solution to this limitation?

- A. STP
- B. VDC
- C. ISSU



D. HSRP

Correct Answer: B

QUESTION 3

Given the requirements, which Cisco Nexus product is Cisco recommended?

A rich feature set that makes it well suited to top-of-rack, middle-of-row, or end-of-row access-layer applications.

Data center racks with standards-based 1 and 10 Gigabit Ethernet and FCoE features, and virtual machine awareness features that allow IT departments to consolidate networks.

A combination of high port density, lossless Ethernet, wire-speed performance, and extremely low latency that makes the switch family well suited to meet the growing demand for 10 Gigabit Ethernet.

- A. 1000v
- B. 1010
- C. 2000
- D. 3000
- E. 4000
- F. 5500

Correct Answer: F

QUESTION 4

You plan to configure LISP between two data centers. Which two LISP components must be configured? (Choose two.)

- A. VTEP
- B. the site identifier
- C. a map resolver
- D. a map server
- E. VNI

Correct Answer: CD

http://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_lisp/configuration/xs-3s/irl-xe-3sbook/irl-cfg-lisp.html

QUESTION 5

You are designing a Cisco Fabric Interconnect and UCS blade project for a client that includes two fabric interconnects



in high availability and one UCS blade chassis. The Cisco devices will be connected to the client's Fibre Channel storage

system.

Which two SAN pool configurations are the minimum requirements for a successful operation? (Choose two.)

- A. Create two WWNN pools per fabric interconnect cluster, one for fabric A and one for fabric B.
- B. Create one WWPN pool per blade chassis.
- C. Create two WWPN pools per fabric interconnect cluster, one for fabric A and one for fabric B.
- D. Create four WWNN pools per fabric interconnect cluster, two for fabric A and two for fabric B.
- E. Create one WWNN pool per blade chassis.

Correct Answer: AC

QUESTION 6



Instructions

- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top panel.
- There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Scenario

While using the Microsoft Assessment and planning toolkit to design a new design you come up with these results from the tool.

Answer the following questions from the content provided.

Metrics Summary			
	A	B	
1	Placement Metrics Summary		
	This report provides aggregates of normalized performance metrics used in several consolidation scenarios. The average, maximum and 95th percentile values for CPU utilization, memory, disk IOPS, network utilization and storage are shown in the "How it works" worksheet for details on how the data is normalized.		
2			
3			
4	Machine Name	Average CPU Utilization (%)	Maximum CPU Utilization (%)
5	POM-6P7P-02.CONTOSO.COM	0.15	1.31
6	POM-3HVE-VP07-1.WA.USA.CONTOSO.COM	3.3	6.82
7	POM-6H8C-HV2-2.CONTOSO.COM	13.31	14.18
8	pom-3h3e-vs05-1.USA.CONTOSO.COM	52.31	56.21
9	pom-6pxp-01.USA.CONTOSO.COM	0.12	1.45
10	pom-3sqlmumv-02.CONTOSO.COM	0.56	2.07
11	POM-IP8I-2.WA.USA.CONTOSO.COM	1.03	24.65
12	POM-3P8E-01.WA.USA.CONTOSO.COM	0.54	2.76
13	POM-3SQL08XM-01.CONTOSO.COM	0.14	1.22
14	pom-3p3e-01.WA.USA.CONTOSO.COM	0.18	1.38
	pom-3pxp-	1.09	9.01
			3.22

While using the Microsoft Assessment and planning toolkit, please answer the following question. Highest Maximum CPU Utilization?

- A. 10%
- B. 24%



C. 56%

D. 100%

E. 138%

Correct Answer: C

QUESTION 7



Instructions

THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
To access the multiple-choice questions, click on the numbered boxes on the left of the top panel. There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Scenario

While running the Hardware Library wizard, you gather the attached images. Answer the questions from the provided information gathered.

Hardware Library Wizard

Summary

Choose Scenario

Hardware Configuration

Infrastructure

CPU

Storage

Network and Memory

Summary

Review your choices and the summary of actions to be performed

SAVING HARDWARE CONFIGURATION: B200M2-64

PROCESSOR

- Manufacturer/Model : Intel/Xeon X5650
- Processor Speed (GHz) : 2.67
- Number of Physical Processors : 2
- Cores per Processor : 6
- Hyperthreads per Core : 2
- L2 Cache Size (KB) : 1792
- L3 Cache Size (KB) : 12288
- Bus Speed (MHz) : 1066

MEMORY

- Amount of Memory (GB) : 64.00

NETWORK

- Total Network Throughput Available for Guests (Mbps) : 20000

Server Virtualization and Consolidation Wizard

Summary

Virtualization Technology

Hardware Configuration

Utilization Settings

Choose Computers

Computer List

Summary

Review your server consolidation placement recommendation settings:

Virtualization Technology Selected : Windows Server 2008 R2 SP1 Hyper-V

PROCESSOR

- Manufacturer/Model : Intel/Xeon X5650
- Processor Speed (GHz) : 2.67
- Number of Physical Processors : 2
- Cores per Processor : 6
- Hyperthreads per Core : 2
- L2 Cache Size (KB) : 1792
- L3 Cache Size (KB) : 12288
- Bus Speed (MHz) : 1066

MEMORY

- Amount of Memory (GB) : 64.00

NETWORK

- Total Network Throughput Available for Guests (Mbps) : 20000

UTILIZATION RATE

- Processor : 85%
- Memory : 85%
- Storage Capacity : 85%
- Storage IOPS : 85%
- Network Throughput : 85%

Computers Identified for Placement : 65

Opn. Summary

Operation Summary

Categories	Count
Number of devices discovered	453
Number of devices that have performance counters and inventory data collected successfully	65
Number of devices that failed to collect performance data or inventory data	388
Number of devices requested for Server Consolidation	65
Number of devices that are placed into a host successfully	65
Number of devices that cannot be placed into a host	0
Number of hosts required	11



Plac. Summary

Consolidation Placement Summary

Consolidation Summary on Hosts

Host Name	CPU Utilization (%)	Memory Utilization (MB)	IOPS	Disk Space Utilization (GB)	Network Throughput (MB/s)	Number of Virtual Machines Hosted
Host1	7.01	53265.15	133.97	177.10	2.44	4
Host2	16.51	53191.68	123.68	331.28	0.92	6
Host3	10.96	55464.28	1821.08	826.89	1.69	8
Host4	8.24	52432.04	155.85	914.61	0.34	3
Host5	10.20	53622.07	228.54	1351.51	0.85	4
Host6	7.98	53218.93	142.05	1137.77	0.20	5
Host7	11.34	53420.86	144.23	1070.20	0.36	9
Host8	6.63	53315.79	163.11	844.18	0.36	3
Host9	12.72	52808.80	92.79	882.97	2.91	5
Host10	11.65	53583.33	16.80	200.96	0.76	3
Host11	7.96	33068.61	87.58	429.77	0.12	15

Give the above configuration example answer the following question.

What is the number of Host required for the above configurations?

- A. 1
- B. 2
- C. 7
- D. 11
- E. 16

Correct Answer: D

QUESTION 8

Which additional functionality does NetFlow provide?

- A. device configuration management
- B. enhanced network anomaly and security detection
- C. drop anomaly IP
- D. disable Cisco Discovery Protocol per interface

Correct Answer: B



QUESTION 9

Which two licenses must you have to enable OTV on a Cisco Nexus 7000 Series Switch? (Choose two.)

- A. Transport Services Package
- B. Advanced Services Package
- C. MPLS Services Package
- D. Enterprise Services Package
- E. Enhanced Layer 2 Package

Correct Answer: BD

QUESTION 10

You are designing a data center that will use Cisco Unified Fabric. You must select a switch for the access layer. The switch must support 10-Gbps optical connections. Which type of Cisco Nexus switch must you select?

- A. 2248TP
- B. 7010
- C. 1000V
- D. 9000
- E. 5548UP

Correct Answer: C

QUESTION 11

Which three options are differences between vPC and VSS from an operational point of view? (Choose three.)

- A. With vPC, the two switches operate as a single device.
- B. With vPC, the two switches operate as individual devices.
- C. With VSS, the two switches operate as individual devices.
- D. With VSS, the two switches operate as a single device.
- E. VSS eliminates the need to implement a FHRP.
- F. vPC eliminates the need to implement a FHRP.
- G. With vPC, the peer keep-alive link also carries user traffic.



H. With VSS, heartbeat links also carries user traffic.

Correct Answer: BDE

QUESTION 12

Which technology provides additional scalability and simplification of an Ethernet network, providing more efficient forwarding and eliminating the need for the STP?

- A. OTV
- B. vPC
- C. PVST+
- D. FabricPath

Correct Answer: D

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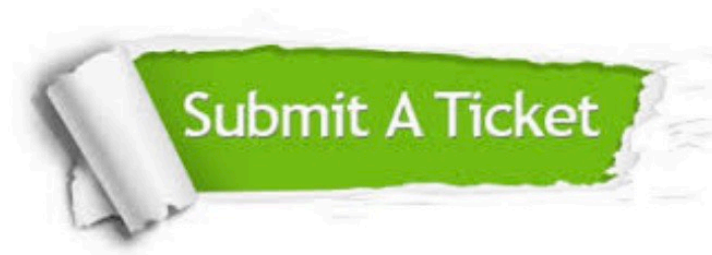
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