

300-610 Reliable Exam Guide - 300-610 Exam Experience



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Cisco 300-610 Exam Syllabus Topics:

Section	Weight	Objectives
Design Network Connectivity	25%	- Data center network architecture
		1. L2/L3 boundary placement 2. VXLAN/EVPN design concepts 3. Leaf-spine topology design
		- Compute architecture design considerations
Design Compute	25%	1. High availability and redundancy design 2. Server form factors and rack design 3. Blade vs rack server design selection
		- Virtualization architecture
Design Data Center Virtualization	15%	1. Network virtualization integration 2. Resource pooling and clustering design 3. Hypervisor design (VMware, KVM concepts)
		- Infrastructure automation
Design Automation and Management	15%	1. Ansible and API-based automation 2. Monitoring and telemetry design 3. Cisco ACI policy model concepts

- Storage protocols and connectivity

Design Storage Connectivity	20%	• 1. Fibre Channel design • 2. Unified storage networking • 3. iSCSI design considerations
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Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q143-Q148):

NEW QUESTION # 143

Which Python library must be used to parse the following data structure?

```
<?xml version=" 1.0 " encoding=" UTF-8 "? >
< ciscopress >
< book isbn=" 5517071292266 ">
< title > Routing TCP/IP < /title >
< author > Jeff Doyle < /author >
< category > < /category >
< year > 2005 < /year >
< edition > 2 < /edition >
< price > 72 < /price >
< /book >
< /ciscopress >
```

- A. yaml
- B. ElementTree
- C. openpyxl
- D. json

Answer: B

Explanation:

The structure is XML, and ElementTree is the Python library among the choices that is designed to parse and navigate XML documents. Python's `xml.etree.ElementTree` module converts the document into a tree of element objects. The root element is `ciscopress`; `book` is a child element with the `isbn` attribute; and elements such as `title`, `author`, `year`, `edition`, and `price` can be located by tag and their text values retrieved. ElementTree can parse XML from a string or file, iterate through repeated records, read attributes, and use supported XPath-style searches. Cisco's own DCNM programmable-report documentation represents returned XML as an `xml.etree.ElementTree` object and uses that tree for tag and node-value operations, which directly supports this selection. The `yaml` library processes YAML syntax, whose indentation and key-value structure are not present here. The `json` library expects JSON objects and arrays delimited by braces and brackets, not opening and closing XML tags. `openpyxl` reads and writes Microsoft Excel `.xlsx` workbooks; although those files internally contain XML, `openpyxl` is not a general XML parser for an arbitrary document such as this one.

ElementTree therefore matches both the serialization format and the required operation. A typical implementation would import `xml.etree.ElementTree` as `ET`, call `ET.fromstring()` or `ET.parse()`, and traverse the resulting element hierarchy. Cisco DCNM programmable-report XML API

NEW QUESTION # 144

An engineer must design a solution with storage reachability between two physical servers and a storage array.

The storage array connectivity is to a SAN switch that is limited to 46 ports. Which topology meets the requirements without adding

more MOS switches?

- A. VXLANs between the servers and the ToR switches that passes the FCoE traffic to the MDS switches
- B. FCIP between the servers and Lite ToR switches that passes the Fibre Channel traffic to the MOS switches
- C. iSCSI between the servers and the ToR switches that passes the FCoE traffic to the MDS switches
- **D. FCoE between the servers and the ToR switches that passes the Fibre Channel traffic to the MDS switches**

Answer: D

NEW QUESTION # 145

A network consultant evaluates the Ethernet Adapter Policy configuration to be applied to the Cisco UCS blade servers. The policy must minimize latency and increase throughput for sensitive applications. The solution must increase the CPU data cache hit rate to meet these requirements. Which policy is required?

- **A. ARFS**
- B. AIC
- C. NVM-e
- D. RDMA

Answer: A

NEW QUESTION # 146

Drag and drop the Cisco Nexus 7000 Series Switch resources from the left onto the correct groups on the right.

physical interfaces

port channels

TCAM

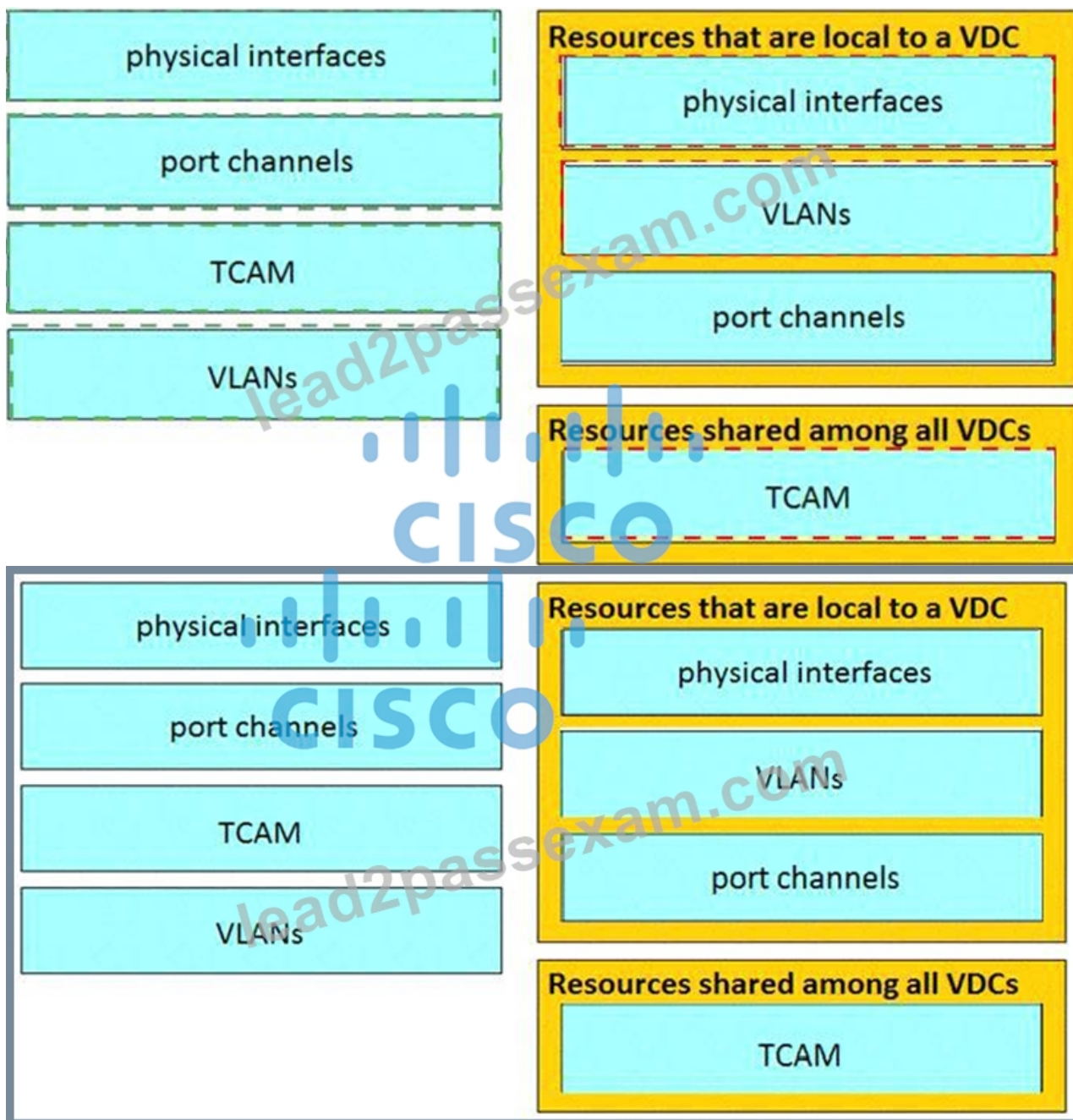
CISCO VLANs

Resources that are local to a VDC

Resources shared among all VDCs

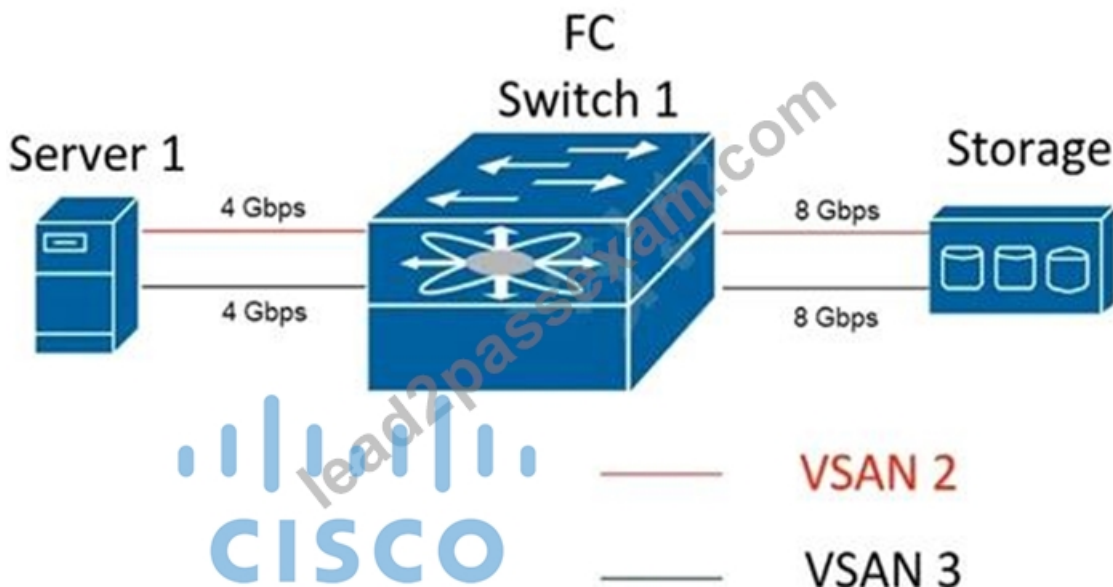
Answer:

Explanation:



NEW QUESTION # 147

Refer to the exhibit.



Server 1 fails to connect to the storage array over the Storage Area Network (SAN) of the Cisco NDS 9000 Series Switch. The requirements are to redesign the storage network and keep these considerations in mind:

The traffic from each of the server must be redundant and isolated.

The design must tolerate hardware and software failures and upgrades of SAN fabric devices.

Which action must be taken to meet these requirements?

- A. Enable NPV and F-Port-channel on ports that face Server 1 on the Fibre Channel switch to create redundant paths.
- B. Create a SAN port channel that faces the storage device to sustain a link failure.
- C. Add an additional supervisor to the Fibre Channel switch to support nondisruptive upgrades.
- D. Place an additional Fibre Channel switch to create two physically independent storage fabrics.

Answer: A

NEW QUESTION # 148

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