

# Free PDF 2026 The Best 300-610: Designing Cisco Data Center Infrastructure Flexible Learning Mode



## Designing Cisco Data Center Infrastructure for Traditional and AI Workloads v1.2 (300-610)

Exam Description: Designing Cisco Data Center Infrastructure for Traditional and AI Workloads v1.2 (DCID 300-610) is a 90-minute exam associated with the CCNP Data Center Certification. This exam certifies a candidate's knowledge of data center infrastructure design including network, compute, storage network, and automation. The course, Designing Cisco Data Center Infrastructure, helps candidates to prepare for this exam.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 35% 1.0 Network Design
  - 1.1 Describe AI/ML concepts
    - 1.1.a Application and uses
    - 1.1.b Deep learning and machine learning concepts (inference vs training)
    - 1.1.c Hardware components (GPUs and DPUs / SmartNICs)
    - 1.1.d Network requirements
    - 1.1.e Operational sustainability
  - 1.2 Evaluate technologies for high-performance networks and AI workloads
    - 1.2.a ROCEv2
    - 1.2.b Ethernet
    - 1.2.c InfiniBand
    - 1.2.d Remote Direct Memory Access
  - 1.3 Evaluate options for Layer 2 connectivity
    - 1.3.a Endpoint mobility
    - 1.3.b Redundancy / high availability
    - 1.3.c Convergence
    - 1.3.d Services insertion
    - 1.3.e vPC and LACP
  - 1.4 Evaluate options for Layer 3 connectivity
    - 1.4.a IP mobility
    - 1.4.b Redundancy / high availability (graceful restart, NSF)
    - 1.4.c Convergence
    - 1.4.d Services insertion (load balancing, security)
    - 1.4.e Routing virtualization with VRF lite
  - 1.5 Evaluate QoS for lossless Ethernet

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To pass the Cisco 300-610 certification exam, candidates need to have a deep understanding of data center infrastructure design principles and Cisco technologies. They should be able to plan and design highly available and resilient data center architectures to meet business requirements. Candidates should also have a good grasp of storage networking technologies, including Fibre Channel, FCoE, and iSCSI, and compute technologies, such as UCS and server virtualization. Additionally, candidates should have knowledge of automation technologies, such as Ansible and Python, to automate data center infrastructure tasks. Passing the Cisco 300-610 certification exam confirms that candidates have a strong foundation in data center infrastructure design and implementation using Cisco technologies, and are capable of delivering reliable and efficient solutions to their organizations.

## How long should I study for the Cisco 300-610 Exam?

It is important to study for the Cisco 300-610 Exam. It is a good idea to study for a while and then take a break. The Cisco 300-610 Exam is very important, so make sure you have plenty of time to prepare. It is a good idea to get together with friends and family and work on the Cisco 300-610 Exam together. You can help each other understand the concepts behind the questions,

which can make it easier to learn from your mistakes. The more you practice answering questions, the better you will be at remembering the information when you need it for the real Cisco 300-610 Exam. Proctored identifies the expiry trigger. It is also a good idea to ask someone who has recently taken the Cisco 300-610 Exam what they thought of it and how they prepared for it. This can give you some great tips on how to prepare for your own Cisco 300-610 Exam. Updated PDF is including to level the pay updates. There are many different ways that you can study for the actual Cisco **300-610 Dumps**. You can use books, websites, or mobile apps to help with your studying. You just have to find what works best for your studying style. I recommend reading through as many practice questions as possible in order to get used to answering them quickly and efficiently also download.

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Cisco 300-610 exam is a highly valued certification for IT professionals looking to advance their careers in data center infrastructure design. Designing Cisco Data Center Infrastructure certification is recognized globally and is highly respected in the industry. It is also a prerequisite for other advanced Cisco certifications, such as the CCIE Data Center certification. IT professionals who pass the Cisco 300-610 Exam are highly sought after by employers who require skilled and knowledgeable data center infrastructure designers.

## **Cisco Designing Cisco Data Center Infrastructure Sample Questions (Q167-Q172):**

### **NEW QUESTION # 167**

Which feature must be configured to connect a classical Ethernet network to a data center network so that the data center network appears to be one large switch.

- **A. EVPN**
- B. VPC+
- C. OSPF
- D. UDLD

**Answer: A**

### **NEW QUESTION # 168**

Refer to the exhibit. An engineer builds a data center network design using EVPN technology.

Within the design, the fabric acts as a gateway. Traffic from host X to host Y must pass through the Cisco ASA firewall for deep packet inspection and increased security. Which firewall deployment must the engineer choose to accomplish this goal?

- A. service graph
- B. VLAN stitching
- **C. routed mode**
- D. VRF sandwich

**Answer: C**

### **NEW QUESTION # 169**

A network consultant evaluates the Cisco UCS Fabric Interconnect SAN configuration, which must meet these requirements:

All traffic must pass over the upstream device for switching and domain IDs must be preserved in the fabric.

Each server should be pinned to one designated upstream interface and for the traffic to pass through the pinned port.

Which Fabric Interconnect SAN operational mode meets these requirements?

- A. NPIV
- **B. end host**
- C. Fibre Channel
- D. switch

**Answer: B**

#### NEW QUESTION # 170

Which multicast rendezvous point redundancy mode is valid for Bidirectional PIM?

- A. PIM anycast RP
- B. Embedded RP
- **C. Phantom RP**
- D. MSDP

**Answer: C**

Explanation:

Check the Phantom RP section in:

[https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip-multicast/whitepaper\\_c11-508498.html](https://www.cisco.com/c/en/us/products/collateral/ios-nx-os-software/ip-multicast/whitepaper_c11-508498.html)

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Because multicast source information is no longer available in Bidir, the Anycast/MSDP mechanism used to provide redundancy in sparse-mode is not an option for Bidir.

#### NEW QUESTION # 171

Refer to the exhibit. A network engineer must improve high availability within the given UCS infrastructure. The engineer configured central nodes A and B in cluster mode to ensure that traffic fails over in the case of a network outage. Which type of redundancy will the cluster configuration provide?

- A. redundancy via a single fabric interconnect
- **B. redundancy for the management, control, and data planes**
- C. redundancy for the management plane only
- D. link-level redundancy via one management port

**Answer: B**

#### NEW QUESTION # 172

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