



CISCO 300-640 STUDY GUIDE PDF

Cisco CCNP Data Center Certification Questions & Answers

Details of the Exam-Syllabus-Questions

300-640

[Cisco Certified Specialist - Data Center AI](#)

**55-65 Questions Exam – Variable (750-850 / 1000 Approx.) Cut Score –
Duration of 90 minutes**

Table of Contents:

Get an Overview of the 300-640 Certification:	2
Why Should You Earn the Cisco 300-640 Certification?.....	2
What Is the Cisco 300-640 CCNP Data Center Certification Exam Structure?	2
Enhance Knowledge with 300-640 Sample Questions:	3
What Study Guide Works Best in Acing the Cisco 300-640 CCNP Data Center Certification?	6
Explore the Syllabus Topics and Learn from the Core:	6
Make Your Schedule:	6
Get Expert Advice from the Training:	6
Get Access to the PDF Sample Questions:	6
Avoid Dumps and Utilize the Cisco 300-640 Practice Test:	6

Get an Overview of the 300-640 Certification:

Who should take the [300-640 exam](#)? This is the first question that comes to a candidate's mind when preparing for the CCNP Data Center certification. The 300-640 certification is suitable for candidates who are keen to earn knowledge on the Data Center and grab their Cisco Certified Specialist - Data Center AI Infrastructure. When it is about starting the preparation, most candidates get confused regarding the study materials and study approach. But 300-640 study guide PDF is here to solve the problem. 300-640 PDF combines some effective sample questions and offers valuable tips to pass the exam with ease.

Why Should You Earn the Cisco 300-640 Certification?

There are several reasons why one should grab the 300-640 certification.

- The CCNP Data Center certification proves to be one of the most recognized certifications.
- The certification badge proves the knowledge of the candidate regarding subject matters and makes his resume presentable to potential candidates.
- Thus earning the [Cisco Certified Specialist - Data Center AI Infrastructure](#) is a powerful qualification for a prosperous career.

What Is the Cisco 300-640 CCNP Data Center Certification Exam Structure?

Exam Name	Implementing Cisco Data Center AI Infrastructure
Exam Number	300-640 DCAI
Exam Price	\$300 USD
Duration	90 minutes
Number of Questions	55-65
Passing Score	Variable (750-850 / 1000 Approx.)

Exam Registration	PEARSON VUE
Sample Questions	Cisco 300-640 Sample Questions
Practice Exam	Cisco Certified Specialist - Data Center AI Infrastructure Practice Test

Enhance Knowledge with 300-640 Sample Questions:

Question: 1

What is the role of a Vector Database in a RAG architecture?

- a) It stores the weights of the neural network.
- b) It stores high-dimensional "embeddings" of data for fast similarity searches.
- c) It acts as the primary DHCP server for the GPUs.
- d) It manages the power distribution units (PDUs).

Answer: b

Question: 2

In a Hybrid AI deployment, which Cisco solution would be used to provide secure, high-speed connectivity between an on-premises Nexus fabric and a VPC in AWS?

- a) Cisco SD-WAN or Cloud Router (CSR/Catalyst 8000V)
- b) Cisco Umbrella
- c) Cisco Duo
- d) Cisco AnyConnect (Standard VPN)

Answer: a

Question: 3

Why is Redundancy (N+1 or 2N) more complex in AI clusters than in standard web-tier clusters?

- a) AI jobs are stateful and long-running; a single node failure can crash a month-long training job.
- a) b) AI nodes don't use IP addresses.
- b) GPUs don't support power redundancy.
- c) AI traffic is only one-way.

Answer: a

Question: 4

During which phase of the AI lifecycle would a data engineer perform "Feature Engineering" and "Data Labeling"?

- a) Model Monitoring
- b) Data Preparation
- c) Model Evaluation
- d) Model Deployment

Answer: d**Question: 5**

In Nexus Dashboard Fabric Controller (NDFC), which deployment "Persona" is specifically optimized for managing the leaf-spine fabrics typically used in AI PODs?

- a) LAN Fabric
- b) IP Fabric for Media
- c) SDN Fabric (ACI)
- d) SAN Controller

Answer: a**Question: 6**

When configuring a storage policy for an AI cluster in Cisco Intersight, which setting ensures that the UCS server can utilize NVMe over Fabrics (NVMe-oF) for high-speed data ingestion?

- a) Enabling "Local Disk Mirroring"
- b) Configuring an "FC-NVMe" or "NVMe over RoCE" interface in the Storage Policy
- c) Setting the disk drive speed to 15k RPM
- d) Enabling "SATA AHCI" mode in the BIOS

Answer: b**Question: 7**

Which AI use case is specifically designed to detect anomalies in network traffic patterns to prevent zero-day exploits?

- a) Predictive Maintenance
- b) Natural Language Processing (NLP)
- c) AI-driven Cybersecurity
- d) Computer Vision

Answer: c

Question: 8

You are designing the IP addressing for a large AI cluster using RoCEv2 across a Layer 3 leaf-spine. Why is it recommended to use a small MTU for the Control Plane but a Jumbo MTU (9000+) for the Data Plane?

- a) There is no such recommendation; MTU should always be 1500.
- b) Because GPUs can only read large packets.
- c) Small packets are better for routing updates, while large packets maximize throughput and reduce CPU overhead for the massive AI data transfers.
- d) To save money on IP addresses.

Answer: c

Question: 9

A 32-node AI training job has slowed down significantly. An engineer checks the Nexus switch counters and sees a high number of PFC Rx Pause frames on the ports connected to the leaf switches, but zero drops. What is the most likely cause?

- a) The fabric is dropping packets due to a hardware failure.
- b) The spine switches are congested and are pushing "back-pressure" toward the leaves.
- c) The GPUs have stopped sending data.
- d) The VLANs are incorrectly configured.

Answer: b

Question: 10

An organization is using Cisco Intersight to manage a globally distributed AI infrastructure. Which feature allows them to automate the deployment of OS-level drivers and NVIDIA libraries across all nodes?

- a) Intersight Mobile App
- b) Intersight Search
- c) Intersight Virtual Appliance
- d) Intersight Cloud Orchestrator (ICO)

Answer: d

What Study Guide Works Best in Acing the Cisco 300-640 CCNP Data Center Certification?

The 300-640 study guide is a combination of some proven study tips and the combination of all valuable study materials like sample questions, syllabus and practice tests in one place.

Explore the Syllabus Topics and Learn from the Core:

If you are determined to earn success in the CCNP Data Center exam, getting in full touch of the [syllabus](#) is mandatory. During preparation, you might not like all syllabus sections or topics, but try to get at least the fundamental knowledge from the sections you don't like. The more you possess knowledge on all syllabus sections, the more is the chance to attempt maximum number of questions during the actual exam.

Make Your Schedule:

Studying and completing the syllabus becomes easier, if you work on the syllabus topics after making a schedule. Your syllabus must mention what areas you want to cover and within what time. Once you make a schedule and follow it regularly, syllabus completion becomes easier and preparation becomes smoother.

Get Expert Advice from the Training:

Do not forget to join the Cisco 300-640 training if it is providing any. Training enhances the practical knowledge of a candidate, which helps them to work well in the practical field during projects.

Get Access to the PDF Sample Questions:

If your study material is in a [PDF format](#) or the materials are mobile-friendly, what could be better than that? Get access to the free sample questions and keep enhancing your knowledge beyond the syllabus.

Avoid Dumps and Utilize the Cisco 300-640 Practice Test:

Why should you rely on practice tests? The reason is simple: you must get familiar with the exam pattern before reaching the exam hall. An aspirant aware of the exam structure and time management during the exam preparation can perform

well in the actual exam and attempt the maximum number of questions during the exam.

Many aspirants prefer to read from dumps, but they miss out on the self assessment method. Therefore, 300-640 practice tests always stand out to be the better choice than dumps PDF.

Avail the Proven 300-640 Practice Test for Success!!!

Do you want to pass the 300-640 exam on your first attempt? Stop worrying; we, NWExam.com are here to provide you the best experience during your Implementing Cisco Data Center AI Infrastructure preparation. Try out our free mock tests to get a glimpse of our quality study materials, and build your confidence with the premium [300-640 practice tests](#). Our expert-designed questions help you to improve performance and pass the exam on your first attempt.