



300-170

Implementing Cisco Data Center Virtualization and
Automation

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SUCCESS GUIDE TO CISCO CERTIFICATION

Exam Summary – Syllabus – Questions

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Introduction to 300-170 Exam on Implementing Cisco Data Center Virtualization and Automation

A great way to start the Cisco Certified Network Professional Data Center (DCVAI) preparation is to begin by properly appreciating the role that syllabus and study guide play in the Cisco 300-170 certification exam. This study guide is an instrument to get you on the same page with Cisco and understand the nature of the Cisco CCNP Data Center exam.

Our team of experts has composed this Cisco 300-170 exam preparation guide to provide the overview about Cisco Implementing Cisco Data Center Virtualization and Automation exam, study material, sample questions, practice exam and ways to interpret the exam objectives to help you assess your readiness for the Cisco DCVAI exam by identifying prerequisite areas of knowledge. We recommend you to refer the simulation questions and practice test listed in this guide to determine what type of questions will be asked and the level of difficulty that could be tested in the Cisco CCNP Data Center certification exam.

Cisco 300-170 Certification Details:

Exam Name	Implementing Cisco Data Center Virtualization and Automation
Exam Number	300-170 DCVAI
Exam Price	\$300 USD
Duration	90 minutes
Number of Questions	55-65
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Implementing Cisco Data Center Virtualization and Automation (DCVAI)
Exam Registration	PEARSON VUE
Sample Questions	Cisco 300-170 Sample Questions
Practice Exam	Cisco Certified Network Professional Data Center Practice Test

Cisco 300-170 Exam Syllabus:

Section	Weight	Objectives
Implement Infrastructure Virtualization	19%	<ol style="list-style-type: none"> 1. Implement logical device separation <ul style="list-style-type: none"> - VDC - VRF 2. Implement virtual switching technologies
Implement Infrastructure Automation	16%	<ol style="list-style-type: none"> 1. Implement configuration profiles <ul style="list-style-type: none"> - Auto-config - Port profiles - Configuration synchronization 2. Implement POAP 3. Compare and contrast different scripting tools <ul style="list-style-type: none"> - EEM - Scheduler - SDK
Implementing Application Centric Infrastructure	27%	<ol style="list-style-type: none"> 1. Configure fabric discovery parameters 2. Implement access policies <ul style="list-style-type: none"> - Policy groups - Protocol policies LLDP, CDP, LACP, and link-level <ul style="list-style-type: none"> - AEP - Domains - Pools - Profiles Switch Interface 3. Implement VMM domain integrations 4. Implement tenant-based policies <ul style="list-style-type: none"> - EPGs Pathing Domains <ul style="list-style-type: none"> - Contracts Consumer Providers vzAny (TCAM conservation) Inter-tenant <ul style="list-style-type: none"> - Private networks Enforced/unenforced <ul style="list-style-type: none"> - Bridge domains Unknown unicast settings ARP settings Unicast routing
Implementing Application Centric Infrastructure Network Resources	25%	<ol style="list-style-type: none"> 1. Implement external network integration <ul style="list-style-type: none"> - External bridge network - External routed network 2. Implement packet flow <ul style="list-style-type: none"> - Unicast

Section	Weight	Objectives
		<ul style="list-style-type: none"> - Multicast - Broadcast - Endpoint database 3. Describe service insertion and redirection - Device packages - Service graphs - Function profiles
Implementing Application Centric Infrastructure Management and Monitoring	13%	<ul style="list-style-type: none"> 1. Implement management <ul style="list-style-type: none"> - In-band management - Out-of-band management 2. Implement monitoring <ul style="list-style-type: none"> - SNMP - Atomic counters - Health score evaluations 3. Implement security domains and role mapping <ul style="list-style-type: none"> - AAA - RBAC 4. Compare and contrast different scripting tools <ul style="list-style-type: none"> - SDK - API Inspector / XML

300-170 Sample Questions:

01. Which protocol and port are used in SNMP polling by default?

- a) TCP 161
- b) UDP 161
- c) TCP 162
- d) UDP 162

02. What is roughly the VXLAN overhead?

- a) 30 bytes
- b) 50 bytes
- c) 70 bytes
- d) 90 bytes

03. Which connections do you have to establish to satisfy the requirements for initial cabling of the ACI fabric ?

(Choose three)

- a) leaf to leaf
- b) leaf to spine
- c) spine to spine
- d) APIC to leaf
- e) router to leaf
- f) APIC to spine

04. In which two programming languages does Cisco offer configuration scripts for POAP?

(Choose two.)

- a) Javascript
- b) Python
- c) Perl
- d) Objective C
- e) TCL
- f) VB.Net

05. Which statement is true?

- a) One physical port can be a member of one storage and one Ethernet VDC.
- b) One physical port can be a member of several different Ethernet VDCs.
- c) One physical port can be a member of two different storage VDCs.
- d) Each physical port must be a member of its own Ethernet VD.

06. When is a fabric node considered active?

- a) A node has physical connectivity.
- b) An LLDP neighbor is discovered.
- c) A node has TAP IP assigned.
- d) APIC and node exchange heartbeats through the IFM process.

07. Which of the following VDCs can create and manage other VDCs?

- a) management
- b) default
- c) nondefault
- d) any

08. In which of the following components are SNMP traps supported?

- a) Only leaf switches.
- b) Only spine switches.
- c) On Cisco APIC, leaf and spine switches.
- d) On Cisco APIC and spine switches only.

09. Which module do you need to import in Python to access CLI commands from within Python?

- a) cisco
- b) cli
- c) json
- d) command

10. On which of the following platforms are VDCs supported?

- a) Cisco Nexus 3000 Series
- b) Cisco Nexus 5000 Series
- c) Cisco Nexus 7000 Series
- d) Cisco Nexus 9000 Series

Answers to 300-170 Exam Questions:

Question: 01 Answer: b	Question: 02 Answer: b	Question: 03 Answer: b, d, e	Question: 04 Answer: b, e	Question: 05 Answer: a
Question: 06 Answer: d	Question: 07 Answer: b	Question: 08 Answer: c	Question: 09 Answer: a	Question: 10 Answer: c

Note: If you find any typo or data entry error in these sample questions, we request you to update us by commenting on this page or write an email on feedback@nwexam.com