



300-180

Troubleshooting Cisco Data Center
Infrastructure (DCIT)

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SUCCESS GUIDE TO CISCO CERTIFICATION

Exam Summary – Syllabus – Questions

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Introduction to 300-180 Exam on Troubleshooting Cisco Data Center Infrastructure (DCIT)

A great way to start the Cisco Certified Network Professional Data Center (DCIT) preparation is to begin by properly appreciating the role that syllabus and study guide play in the Cisco 300-180 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 300-180 exam preparation guide to provide the overview about Cisco Troubleshooting Cisco Data Center Infrastructure (DCIT) exam, study material, sample questions, practice exam and ways to interpret the exam objectives to help you assess your readiness for the Cisco DCIT 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 300-180 Certification Details:

Exam Name	Troubleshooting Cisco Data Center Infrastructure (DCIT)
Exam Number	300-180 DCIT
Exam Price	\$300 USD
Duration	90 minutes
Number of Questions	60-70
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Troubleshooting Cisco Data Center Infrastructure (DCIT)
Exam Registration	PEARSON VUE
Sample Questions	Cisco 300-180 Sample Questions
Practice Exam	Cisco Certified Network Professional Data Center Practice Test

Cisco 300-180 Exam Syllabus:

Section	Weight	Objectives
Troubleshooting Data Network Protocols	26%	1 Troubleshoot data center protocols a) VPC b) Fabric path b) [i] Segment ID b) [ii] Distributed gateway, anycast HSRP b) [iii] MBGP b) [iv] vPC+ c) VXLAN c) [i] Distributed gateway c) [ii] MBGP EVPN c) [iii] VPC d) OTV e) LISP 2 Troubleshoot routing protocols a) OSPFv2, OSPFv3 b) IS-IS c) PIM d) FHRP d) [i] HSRP d) [ii] VRRP 3 Troubleshoot switching protocols a) STP b) LACP/port channel c) FEX, VNTAG
Troubleshooting Network Virtualization and Automation	13%	1 Troubleshoot logical device separation a) VDC b) VRF 2 Troubleshoot virtual switching technologies 3 Troubleshoot configuration profiles a) Auto-config b) Port profiles c) Configuration synchronization
Troubleshooting Application Centric Infrastructure	13%	1 Troubleshoot fabric discovery process 2 Troubleshoot VMM domain integration 3 Troubleshoot tenant-based policies a) EPGs a) [i] Pathing a) [ii] Domains b) Contracts

Section	Weight	Objectives
		<ul style="list-style-type: none"> b) [i] Consumer b) [ii] Providers b) [iii] Inter-tenant c) Private networks c) [i] Enforced/unenforced d) Bridge domains d) [i] Unknown unicast settings d) [ii] ARP settings d) [iii] Unicast routing 4 Troubleshoot external network integration <ul style="list-style-type: none"> a) External bridge network b) External routed network 5 Troubleshoot packet flow <ul style="list-style-type: none"> a) Unicast b) Multicast c) Broadcast d) Endpoint database 6 Troubleshoot security domains and role mapping <ul style="list-style-type: none"> a) AAA b) RBAC

Section	Weight	Objectives
Troubleshooting Data Center Storage	17%	<p>1 Troubleshoot Fibre Channel</p> <ul style="list-style-type: none"> a) Switched fabric initialization b) Fibre Channel buffer credit starvation c) FCID <p>2 Troubleshoot Fibre Channel protocol services</p> <ul style="list-style-type: none"> a) Zoning b) FCNS c) VSAN d) FSPF <p>3 Troubleshoot FCoE</p> <ul style="list-style-type: none"> a) Storage VDC b) FIP c) FCoE topologies d) DCB <p>4 Troubleshoot boot from SAN</p> <ul style="list-style-type: none"> a) FCoE / Fibre Channel b) iSCSI c) Multipath <p>5 Troubleshoot FCoE/FC interface parameters</p> <ul style="list-style-type: none"> a) Dedicated and shared mode b) Port types c) Port channels, ISL <p>6 Troubleshoot SAN technologies</p> <ul style="list-style-type: none"> a) Fabric redundancy b) NPV, NPIV, FCF
Troubleshooting Data Center Compute Platforms	21%	<p>1 Troubleshoot Cisco computing platforms</p> <ul style="list-style-type: none"> a) Stand-alone computing b) Chassis/blade c) Modular / server cartridges d) Server integration <p>2 Troubleshoot hardware interoperability</p> <ul style="list-style-type: none"> a) Converged Network Adapters / port expanders b) Firmware c) I/O modules / FEX d) Fabric interconnects <p>3 Troubleshoot packet flow from server to the fabric</p>

Section	Weight	Objectives
		4 Troubleshoot server abstraction technologies a) Service profiles a) [i] Pools a) [ii] Policies a) [ii] 1 Connectivity a) [ii] 2 Placement policy a) [ii] 3 Remote boot policies
Troubleshooting Data Center Management and Operations	10%	1 Troubleshoot firmware upgrades, packages, and interoperability 2 Troubleshoot integration of centralized management 3 Troubleshooting data center LAN and SAN security a) Troubleshoot fabric binding and port security b) Troubleshoot AAA and RBAC c) Troubleshoot first-hop security c) [i] Dynamic ARP inspections c) [ii] DHCP snooping c) [iii] Unicast RPF c) [iv] MACsec c) [v] Port security d) Troubleshoot CoPP e) Troubleshoot ACLs 4 Troubleshoot data center compute security a) Troubleshoot AAA and RBAC b) Troubleshoot key management

300-180 Sample Questions:

01. Which two causes can prevent a KVM console session from being launched?

(Choose two.)

- a) TCP Port 2068 is not blocked.
- b) The installed Java version is 1.7.
- c) Too many KVM sessions to the same server are concurrently opened.
- d) The Java Control Panel is configured to not keep temporary files on the local computer.

02. How will the Cisco UCS Manager react when all of the FSM tasks fail?

- a) retries for 60 seconds
- b) raises faults and alarms
- c) restarts from the previous known good task
- d) sends an NOC SNMP trap email

03. Which modes are possible Fibre Channel interface modes?

(Choose four)

- a) S Port
- b) F Port
- c) TP Port
- d) TE Port
- e) NP Port
- f) SP Port

04. What is the correct flow of ELAM configuration?

- a) Init, Config, Arm, Read, Reset
- b) Reset, Init, Arm, Config, Read
- c) Reset, Read, Init, Config, Arm
- d) Init, Arm, Config, Read, Reset

05. Which command displays processes in the error state?

- a) show processes cpu
- b) show processes
- c) show processes cpu | include ER
- d) show processes memory

06. In new Cisco UCS release 2.0 installations, what are the default VLAN IDs?

- a) Ethernet VLAN default ID is 4048, FCOE default VLAN ID 4048
- b) Ethernet VLAN default ID is 1, FCOE default VLAN ID is 3968
- c) Ethernet VLAN default ID is 1, FCOE default VLAN ID is 2
- d) Ethernet VLAN default ID is 2, FCOE default VLAN ID is 4047
- e) Ethernet VLAN default ID is 1, FCOE default VLAN ID is 4048

07. Which three elements inside the Fabric Interconnects are part of Cisco UCS Manager?

(Choose three.)

- a) Chassis Management Controller (CMC)
- b) Finite State Machine (FSM)
- c) Data Management Engine (DME)
- d) Serial Electrically Erasable Programmable Read-Only Memory (SEEPROM)
- e) Application Gateway (AG)

08. You should use the show cdp neighbor command to quickly verify which aspect?

- a) basic physical connectivity
- b) the Layer 2 switching operation
- c) the Layer 3 routing operation
- d) the end-to-end protocol communication

09. Which states are possible Fibre Channel interface operational states?

(Choose three)

- a) auto
- b) up
- c) trunking
- d) down
- e) active

10. Which two requirements relate to Layer 1 and Layer 2 links of a Fabric Interconnects cluster?

(Choose two.)

- a) 1-Gbps speed
- b) category 5 cable
- c) 10-Gbps speed
- d) category 6 cable

Answers to 300-180 Exam Questions:

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

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