CISCO 200-901

Cisco DevNet Associate Certification Questions & Answers

Exam Summary – Syllabus – Questions

200-901

Cisco Certified DevNet Associate

90-110 Questions Exam – Variable (750-850 / 1000 Approx.) Cut Score – Duration of 120 minutes

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Know Your 200-901 Certification Well:

The 200-901 is best suitable for candidates who want to gain knowledge in the Cisco DevNet. Before you start your 200-901 preparation you may struggle to get all the crucial DevNet Associate materials like 200-901 syllabus, sample questions, study guide.

But don't worry the 200-901 PDF is here to help you prepare in a stress free manner.
The PDF is a combination of all your queries like-

- What is in the 200-901 syllabus?
- How many questions are there in the 200-901 exam?
- Which Practice test would help me to pass the 200-901 exam at the first attempt?

Passing the 200-901 exam makes you Cisco Certified DevNet Associate. Having the DevNet Associate certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

Cisco 200-901 DevNet Associate Certification Details:

Exam Name	Developing Applications and Automating Workflows using Cisco Core Platforms
Exam Code	200-901
Exam Price	$300 USD
Duration	120 minutes
Number of Questions	90-110
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Developing Applications and Automating Workflows using Cisco Core Platforms (DEVASC)
Schedule Exam	PEARSON VUE
Sample Questions	Cisco 200-901 Sample Questions
Practice Exam	Cisco Certified DevNet Associate Practice Test

200-901 Syllabus:

Section	Weight	Objectives
Software Development and Design	15%	1. Compare data formats (XML, JSON, and YAML) 2. Describe parsing of common data format (XML, JSON, and YAML) to Python data structures 3. Describe the concepts of test-driven development 4. Compare software development methods (agile, lean, and waterfall) 5. Explain the benefits of organizing code into methods / functions, classes, and modules 6. Identify the advantages of common design patterns (MVC and Observer) 7. Explain the advantages of version control 8. Utilize common version control operations with Git Clone Add/remove Commit Push / pull Branch Merge and handling conflicts diff
Understanding and Using APIs	20%	1. Construct a REST API request to accomplish a task given API documentation 2. Describe common usage patterns related to webhooks 3. Identify the constraints when consuming APIs 4. Explain common HTTP response codes associated with REST APIs 5. Troubleshoot a problem given the HTTP response code, request and API documentation 6. Identify the parts of an HTTP response (response code, headers, body) 7. Utilize common API authentication mechanisms: basic, custom token, and API keys 8. Compare common API styles (REST, RPC, synchronous, and asynchronous)

Section	Weight	Objectives
		9. Construct a Python script that calls a REST API using the requests library
Cisco Platforms and Development	15%	1. Construct a Python script that uses a Cisco SDK given SDK documentation 2. Describe the capabilities of Cisco network management platforms and APIs (Meraki, Cisco DNA Center, ACI, Cisco SD-WAN, and NSO) 3. Describe the capabilities of Cisco compute management platforms and APIs (UCS Manager, UCS Director, and Intersight) 4. Describe the capabilities of Cisco collaboration platforms and APIs (Webex Teams, Webex devices, Cisco Unified Communication Manager including AXL and UDS interfaces, and Finesse) 5. Describe the capabilities of Cisco security platforms and APIs (Firepower, Umbrella, AMP, ISE, and ThreatGrid) 6. Describe the device level APIs and dynamic interfaces for IOS XE and NX-OS 7. Identify the appropriate DevNet resource for a given scenario (Sandbox, Code Exchange, support, forums, Learning Labs, and API documentation) 8. Apply concepts of model driven programmability (YANG, RESTCONF, and NETCONF) in a Cisco environment 9. Construct code to perform a specific operation based on a set of requirements and given API reference documentation such as these: Obtain a list of network devices by using Meraki, Cisco DNA Center, ACI, Cisco SD-WAN, or NSO Manage spaces, participants, and messages in Webex Teams Obtain a list of clients / hosts seen on a network using Meraki or Cisco DNA Center

Section	Weight	Objectives
Application Deployment and Security	15%	1. Describe benefits of edge computing 2. Identify attributes of different application deployment models (private cloud, public cloud, hybrid cloud, and edge) 3. Identify the attributes of these application deployment types Virtual machines Bare metal Containers 4. Describe components for a CI/CD pipeline in application deployments 5. Construct a Python unit test 6. Interpret contents of a Dockerfile 7. Utilize Docker images in local developer environment 8. Identify application security issues related to secret protection, encryption (storage and transport), and data handling 9. Explain how firewall, DNS, load balancers, and reverse proxy in application deployment 10. Describe top OWASP threats (such as XSS, SQL injections, and CSRF) 11. Utilize Bash commands (file management, directory navigation, and environmental variables) 12. Identify the principles of DevOps practices
Infrastructure and Automation	20%	1. Describe the value of model driven programmability for infrastructure automation 2. Compare controller-level to device-level management 3. Describe the use and roles of network simulation and test tools (such as VIRL and pyATS) 4. Describe the components and benefits of CI/CD pipeline in infrastructure automation 5. Describe principles of infrastructure as code 6. Describe the capabilities of automation tools such as Ansible, Puppet, Chef, and Cisco NSO 7. Identify the workflow being automated by a Python script that uses Cisco APIs including ACI, Meraki, Cisco DNA Center, or RESTCONF 8. Identify the workflow being automated by an Ansible playbook (management packages, user

Section	Weight	Objectives
		management related to services, basic service configuration, and start/stop) 9. Identify the workflow being automated by a bash script (such as file management, app install, user management, directory navigation) 10. Interpret the results of a RESTCONF or NETCONF query 11. Interpret basic YANG models 12. Interpret a unified diff 13. Describe the principles and benefits of a code review process 14. Interpret sequence diagram that includes API calls
Network Fundamentals	15%	1. Describe the purpose and usage of MAC addresses and VLANs 2. Describe the purpose and usage of IP addresses, routes, subnet mask / prefix, and gateways 3. Describe the function of common networking components (such as switches, routers, firewalls, and load balancers) 4. Interpret a basic network topology diagram with elements such as switches, routers, firewalls, load balancers, and port values 5. Describe the function of management, data, and control planes in a network device 6. Describe the functionality of these IP Services: DHCP, DNS, NAT, SNMP, NTP 7. Recognize common protocol port values (such as, SSH, Telnet, HTTP, HTTPS, and NETCONF) 8. Identify cause of application connectivity issues (NAT problem, Transport Port blocked, proxy, and VPN) 9. Explain the impacts of network constraints on applications

Cisco 200-901 Sample Questions:

Question: 1

Which Cisco DevNet resource allows access to products in a development lab to explore, learn, and build application that use Cisco APLs?

a) DevNet communities
b) DevNet code Exchange
c) DevNet Automation Exchange
d) DevNet sandbox

Answer: a

Question: 2

A company has written a script that creates a log bundle from the Cisco DNA Center every day. The script runs without error and the log bundles are produced.

However, when the script is run during business hours, people report poor voice quality of phone calls. What explains this behavior?

a) The script is written in a low-level programming language where there is no memory safety. This causes a buffer overflow and disruption on the network.
b) The speed and duplex settings in Cisco DNA Center are set incorrectly, which causes the transfer to be too slow.
c) The application is running in the Voice VLAN and causes delays and jitter in the subnet.
d) Generating the logs causes the CPU on the network controller to spike, which causes delays in forwarding the voice IP packets.

Answer: b

Question: 3

Package updates from a local server fail to download. However, the same updates work when a much slower external repository is used. Way are local updates failing?

a) The update utility is trying to use a proxy to access the internal resource.
b) The Internet connection is too slow.
c) The Internet is down at the moment, which causes the local server to not be able to respond.
d) The server is running out of disk space.

Answer: a

Question: 4

On which port does NETCONF operate by default?

a) 23
b) 443
c) 822
d) 830

Answer: d

Question: 5

When a Cisco IOS XE networking device is configured using RESTCONF, what is the default data-encoding method?

a) YANG
b) YAML
c) XML
d) x-form-encoding

Answer: c

Question: 6

What are two advantages of the Model-view-controller software design pattern?

(Choose two.)

a) simplifies network automation
b) allows for multiple views of the same model
c) makes code easier to deploy using CI/CD pipelines
d) reduces need for error handling
e) separates responsibilities of the code, which makes future modifications easier

Answer: a, d

Question: 7

An authentication script fails to connect to an internal server exactly 1 out of 2 times it is executed. This behavior is seen from different clients.

Which networking device must be at fault?

a) load balancer
b) laptop on which the script is running
c) switch
d) router

Answer: c

Question: 8

In DNS, which record specifies an alias that refers to another name that ultimately resolves to an IP address?

a) CNAME
b) NS
c) AAA
d) SOA

Answer: a

Question: 9

Before which process is code review performed when version control is used?

a) committing code
b) branching code
c) merge of code
d) checkout of code

Answer: d

Question: 10

What are two characteristics of Bare Metal environments that are related to application deployment?

(Choose two.)

a) Provides the hypervisor to host virtual servers.
b) Specifically designed for container-based workloads.
c) Provides workloads with access to hardware features.
d) Suitable for legacy application that do not support virtualization.
e) Not compatible with other cloud services such as PaaS or SaaS offerings.

Answer: a, c

Study Guide to Crack Cisco DevNet Associate 200-901 Exam:

- Getting details of the 200-901 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the 200-901 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Cisco provided training for 200-901 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.

- Read from the 200-901 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on 200-901 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for 200-901 Certification

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