

CISCO 200-301

Cisco CCNA Certification Questions & Answers

Exam Summary – Syllabus – Questions

200-301

Cisco Certified Network Associate

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



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Know Your 200-301 Certification Well:

The 200-301 is best suitable for candidates who want to gain knowledge in the Cisco Associate. Before you start your 200-301 preparation you may struggle to get all the crucial CCNA materials like 200-301 syllabus, sample questions, study guide.

But don't worry the 200-301 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 200-301 syllabus?
- How many questions are there in the 200-301 exam?
- Which Practice test would help me to pass the 200-301 exam at the first attempt?

Passing the 200-301 exam makes you Cisco Certified Network Associate. Having the CCNA 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 200-301 CCNA Certification Details:

Exam Name	Implementing and Administering Cisco Solutions
Exam Code	200-301
Exam Price	\$300 USD
Duration	120 minutes
Number of Questions	90-110
Passing Score	Variable (750-850 / 1000 Approx.)
Recommended Training	Implementing and Administering Cisco Solutions (CCNA)
Exam Registration	PEARSON VUE
Sample Questions	Cisco 200-301 Sample Questions
Practice Exam	Cisco Certified Network Associate Practice Test



200-301 Syllabus:

Section	Weight	Objectives
		Explain the role and function of network components
		Routers
		L2 and L3 switches
		Next-generation firewalls and IPS
		Access points
		Controllers (Cisco DNA Center and WLC)
		Endpoints
		Servers
		Describe characteristics of network topology architectures
		2 tier
		3 tier
		Spine-leaf
		WAN
Network	000/	Small office/home office (SOHO)
Fundamentals	20%	On-premises and cloud
		3. Compare physical interface and cabling types
		Single-mode fiber, multimode fiber, copper
		Connections (Ethernet shared media and point-to-point)
		Concepts of PoE
		4. Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed)
		5. Compare TCP to UDP6. Configure and verify IPv4 addressing and subnetting
		7. Describe the need for private IPv4 addressing
		8. Configure and verify IPv6 addressing and prefix
		9. Compare IPv6 address types
		Global unicast
		Unique local
		Link local
		Anycast



Section	Weight	Objectives
		Multicast
		Modified EUI 64
		10. Verify IP parameters for Client OS (Windows, Mac OS, Linux)11. Describe wireless principles
		Nonoverlapping Wi-Fi channels SSID RF Encryption 12. Explain virtualization fundamentals (virtual machines) 13. Describe switching concepts MAC learning and aging
		Frame switching
		Frame flooding
		MAC address table
		Configure and verify VLANs (normal range) spanning multiple switches
Network Access	20%	Access ports (data and voice) Default VLAN Connectivity 2. Configure and verify interswitch connectivity
		Trunk ports 802.1Q Native VLAN
		 3. Configure and verify Layer 2 discovery protocols (Cisco Discovery Protocol and LLDP) 4. Configure and verify (Layer 2/Layer 3) EtherChannel (LACP) 5. Describe the need for and basic operations of Rapid PVST+ Spanning Tree Protocol and identify basic operations
		Root port, root bridge (primary/secondary), and other port names



Section	Weight	Objectives
		Port states (forwarding/blocking)
		PortFast benefits
		6. Compare Cisco Wireless Architectures and AP modes 7. Describe physical infrastructure connections of WLAN components (AP,WLC, access/trunk ports, and LAG) 8. Describe AP and WLC management access connections (Telnet, SSH, HTTP,HTTPS, console, and TACACS+/RADIUS) 9. Configure the components of a wireless LAN access for client connectivity using GUI only such as WLAN creation, security settings, QoS profiles, and advanced WLAN settings
		Interpret the components of routing table
		Routing protocol code Prefix Network mask Next hop Administrative distance Metric Gateway of last resort 2. Determine how a router makes a forwarding decision by default
IP Connectivity	25%	Longest match Administrative distance Routing protocol metric 3. Configure and verify IPv4 and IPv6 static routing Default route Network route Host route Floating static 4. Configure and verify single area OSPFv2 Neighbor adjacencies Point-to-point



Section	Weight	Objectives
		Broadcast (DR/BDR selection)
		Router ID
		5. Describe the purpose of first hop redundancy protocol
IP Services	10%	 Configure and verify inside source NAT using static and pools Configure and verify NTP operating in a client and server mode Explain the role of DHCP and DNS within the network Explain the function of SNMP in network operations Describe the use of syslog features including facilities and levels Configure and verify DHCP client and relay Explain the forwarding per-hop behavior (PHB) for QoS such as classification, marking, queuing, congestion, policing, shaping Configure network devices for remote access using SSH Describe the capabilities and function of TFTP/FTP in the network
Security Fundamentals	15%	 Define key security concepts (threats, vulnerabilities, exploits, and mitigation techniques) Describe security program elements (user awareness, training, and physical access control) Configure device access control using local passwords Describe security password policies elements, such as management, complexity, and password alternatives (multifactor authentication, certificates, and biometrics) Describe remote access and site-to-site VPNs Configure and verify access control lists Configure Layer 2 security features (DHCP snooping, dynamic ARP inspection, and port security) Differentiate authentication, authorization, and accounting concepts Describe wireless security protocols (WPA, WPA2, and WPA3) Configure WLAN using WPA2 PSK using the GUI
Automation and Programmability	10%	Explain how automation impacts network management Compare traditional networks with controller-based networking



Section	Weight	Objectives
		Describe controller-based and software defined architectures (overlay, underlay, and fabric)
		Separation of control plane and data plane North-bound and south-bound APIs
		 Compare traditional campus device management with Cisco DNA Center enabled device management Describe characteristics of REST-based APIs (CRUD, HTTP verbs, and data encoding) Recognize the capabilities of configuration management mechanisms Puppet, Chef, and Ansible Interpret JSON encoded data

Cisco 200-301 Sample Questions:

Question: 1

In software defined architectures, which plane is distributed and responsible for traffic forwarding?

- a) management plane
- b) control plane
- c) policy plane
- d) data plane

Answer: d

Question: 2

You have an interface on a router with the IP address of 192.168.192.10/29. Including the router interface, how many hosts can have IP addresses on the LAN attached to the router interface?

- a) 6
- b) 8
- c) 30
- d) 62
- e) 126

Answer: a



Question: 3

The DSCP field constitutes how many fields in the IP header?

- a) 3 bits
- b) 4 bits
- c) 6 bits
- d) 8 bits

Answer: c

Question: 4

How many more bits are used in an IPv6 address than in an IPv4 address?

- a) 96
- b) 128
- c) 48
- d) 64

Answer: a

Question: 5

If a switch has five workstations attached, how many collision domains are created?

- a) 1
- b) 0
- c) 5
- d) 6

Answer: c

Question: 6

You run ipconfig on your Windows system and see an IPv6 address that starts FE80. What type of address is this?

- a) Link local
- b) Multicast
- c) Anycast
- d) Global unicast

Answer: a



Question: 7

In OSPF, Hellos are sent to what IP address?

- a) 224.0.0.5
- b) 224.0.0.9
- c) 224.0.0.10
- d) 224.0.0.1

Answer: a

Question: 8

If a notice-level message is sent to a syslog server, which event has occurred?

- a) A network device has restarted.
- b) A debug operation is running.
- c) An ARP inspection has failed.
- d) A routing instance has flapped.

Answer: d

Question: 9

How large is the typical network portion of an IPv6 global unicast address?

- a) 32 bits
- b) 48 bits
- c) 64 bits
- d) 128 bits

Answer: c

Question: 10

On which default interface have you configured an IP address for a switch?

- a) int fa0/0
- b) int vty 0 15
- c) int vlan 1
- d) int s/0/0

Answer: c



Study Guide to Crack Cisco CCNA 200-301 Exam:

- Getting details of the 200-301 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 200-301 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 200-301 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 200-301 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 200-301 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for 200-301 Certification

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