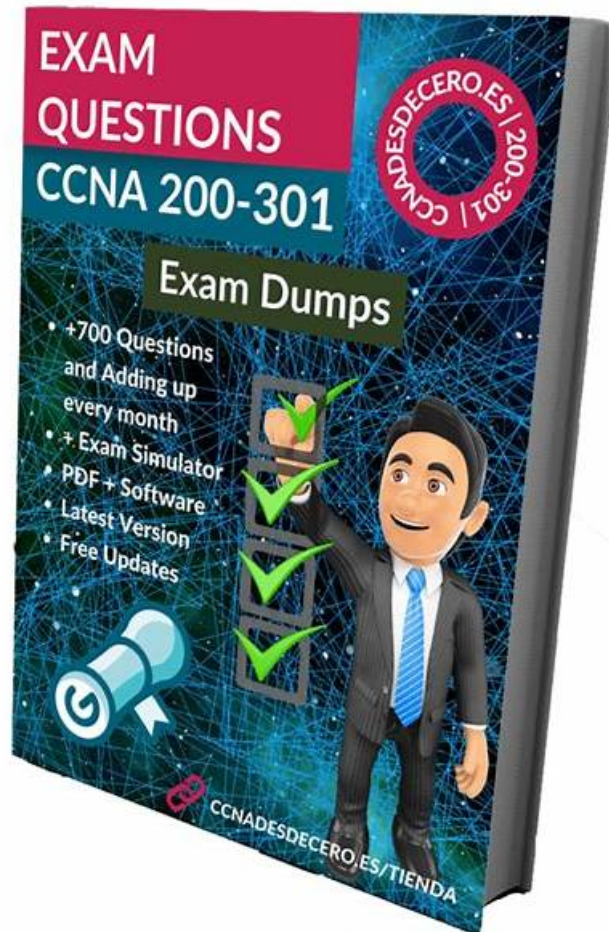


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We even guarantee our customers that they will pass Cisco 200-301 exam easily with our provided study material and if they failed to do it despite all their efforts they can claim a full refund of their money (terms and conditions apply). The third format is the desktop software format which can be accessed after installing the software on your Windows computer or laptop. The Cisco Certified Network Associate Exam (200-301) has three formats so that the students don't face any serious problems and prepare themselves with fully focused minds.

Cisco 200-301 Exam Syllabus Topics:

Section	Weight	Objectives
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Security Fundamentals	15%	- Describe wireless security protocols (WPA, WPA2, and WPA3) - Differentiate authentication, authorization, and accounting concepts - Describe remote access and site-to-site VPNs - Configure Layer 2 security features (DHCP snooping, dynamic ARP inspection, and port security) - Describe security program elements (user awareness, training, and physical access control) - Configure WLAN using WPA2 PSK using the GUI - Define key security concepts (threats, vulnerabilities, exploits, and mitigation techniques) - Configure device access control using local passwords - Describe security password policies elements, such as management, complexity, and password alternatives (multifactor authentication, certificates, and biometrics) - Configure and verify access control lists
Automation and Programmability	10%	- 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 - Describe controller-based and software defined architectures (overlay, underlay, and fabric) - Explain how automation impacts network management - Interpret JSON encoded data - Compare traditional networks with controller-based networking
Network Access	20%	- Describe Cisco Wireless Architectures and AP modes - Describe the need for and basic operations of Rapid PVST+ Spanning Tree Protocol - Configure and verify VLANs (normal range) spanning multiple switches - Describe physical infrastructure connections of WLAN components (AP, WLC, access/trunk ports, and LAG) - Configure and verify (Layer 2/Layer 3) EtherChannel (LACP) - Configure and verify Layer 2 discovery protocols (Cisco Discovery Protocol and LLDP) - Configure and verify interswitch connectivity - 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 - Describe AP and WLC management access connections (Telnet, SSH, HTTP, HTTPS, console, and TACACS+/RADIUS)
IP Connectivity	25%	- Determine how a router makes a forwarding decision by default - Configure and verify single area OSPFv2 - Configure and verify IPv4 and IPv6 static routing - Interpret the components of routing table - Describe the purpose of first hop redundancy protocol - Configure and verify inside source NAT using static and pools - Explain the forwarding per-hop behavior (PHB) for QoS such as classification, marking, queuing, congestion, policing, shaping
IP Services	10%	- Explain the role of DHCP and DNS within the network - Explain the function of SNMP in network operations - Configure and verify DHCP client and relay - Configure network devices for remote access using SSH - Configure and verify NTP operating in a client and server mode - Describe the use of syslog features including facilities and levels - Describe the capabilities and function of TFTP/FTP in the network
Network Fundamentals	20%	- Explain virtualization fundamentals (virtual machines) - Describe characteristics of network topology architectures - Explain the role and function of network components - Compare TCP to UDP - Describe wireless principles - Configure and verify IPv6 addressing and prefix - Identify interface and cable issues (collisions, errors, mismatch) - Describe the need for private IPv4 addressing - Compare IPv6 address types - Describe switching concepts - Configure and verify IPv4 addressing and subnetting - Verify IP parameters for Client OS (Windows, Mac OS, Linux) - Compare physical interface and cabling types

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Cisco Certified Network Associate Exam Sample Questions (Q655-Q660):

NEW QUESTION # 655

Refer to the exhibit.

Router#show run

Building configuration...

Current configuration : 1530 bytes

!

! Last configuration change at 11:32:53 UTC Sat Oct 10 2020

upgrade fpd auto

version 15.2

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

!

hostname Router

!

boot-start-marker

boot-end-marker

!

!

!

no aaa new-model

no ip icmp rate-limit unreachable

!

!

!

!

--More--



Which minimum configuration items are needed to enable Secure Shell version 2 access to R15?

A. Router(config)#ip domain-name cisco.com
Router(config)#crypto key generate rsa general-keys modulus 1024
Router(config)#ip ssh version 2
Router(config-line)#line vty 0 15
Router(config-line)# transport input all
Router(config)#ip ssh logging events

B. Router(config)#hostname R15
R15(config)#crypto key generate rsa general-keys modulus 1024
R15(config-line)#line vty 0 15
R15(config-line)# transport input ssh
R15(config)#ip ssh source-interface Fa0/0
R15(config)#ip ssh stricthostkeycheck

C. Router(config)#crypto key generate rsa general-keys modulus 1024
Router(config)#ip ssh version 2
Router(config-line)#line vty 0 15
Router(config-line)# transport input ssh
Router(config)#ip ssh logging events
R15(config)#ip ssh stricthostkeycheck

D. Router(config)#hostname R15
R15(config)#ip domain-name cisco.com
R15(config)#crypto key generate rsa general-keys modulus 1024
R15(config)#ip ssh version 2
R15(config-line)#line vty 0 15
R15(config-line)# transport input ssh

Answer: A

NEW QUESTION # 656

```
SW1
configure terminal
interface range GigabitEthernet 0/1-2
 switchport mode trunk
 channel-group 1 mode active

SW2
configure terminal
interface range GigabitEthernet 0/1-2
 switchport mode trunk
 interface Port-channel1
 switchport mode trunk
```

Refer to the exhibit. An LACP EtherChannel between two directly connected switches is in the configuration process. Which command must be configured on switch SW2's Gi0/1-2 interfaces to establish the channel to SW1?

- A. channel-group 1 mode desirable
- B. channel-group 1 mode on
- C. channel-group 1 mode auto
- **D. channel-group 1 mode active**

Answer: D

NEW QUESTION # 657

How does STP prevent forwarding loops at OSI Layer 2?

- A. Collision avoidance.
- B. TTL
- **C. Port blocking**
- D. MAC address forwarding

Answer: C

Explanation:

TTL is a Layer 3 mechanism that routers decrement after a successful hop.

NEW QUESTION # 658

Refer to the exhibit.

```
Atlanta#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Atlanta(config)#aaa new-model
Atlanta(config)#aaa authentication login default local
Atlanta(config)#line vty 0 4
Atlanta(config-line)#login authentication default
Atlanta(config-line)#exit
Atlanta(config)#username ciscoadmin password adminadmin123
Atlanta(config)#username ciscoadmin privilege 15
Atlanta(config)#enable password cisco123
Atlanta(config)#enable secret testing1234
Atlanta(config)#end
```

Which password must an engineer use to enter the enable mode?

- A. cisco123
- **B. testing 1234**
- C. default
- D. adminadmin123

Answer: B

Explanation:

If neither the enable password command nor the enable secret command is configured, and if there is a line password configured for the console, the console line password serves as the enable password for all VTY sessions -> The "enable secret" will be used first if available, then "enable password" and line password.

NEW QUESTION # 659

Refer to the exhibit.

```
C:\>ipconfig/all

Windows IP Configuration

Host Name . . . . . : Inspiron15
Primary Dns Suffix . . . . . : 
Node Type . . . . . : Mixed
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No

Wireless LAN adapter Local Area Connection* 12:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . : 
Description . . . . . : Microsoft Wi-Fi Direct Virtual Adapter
Physical Address. . . . . : 1A-76-3F-7C-57-DF
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . . : Yes

Wireless LAN adapter Wi-Fi:

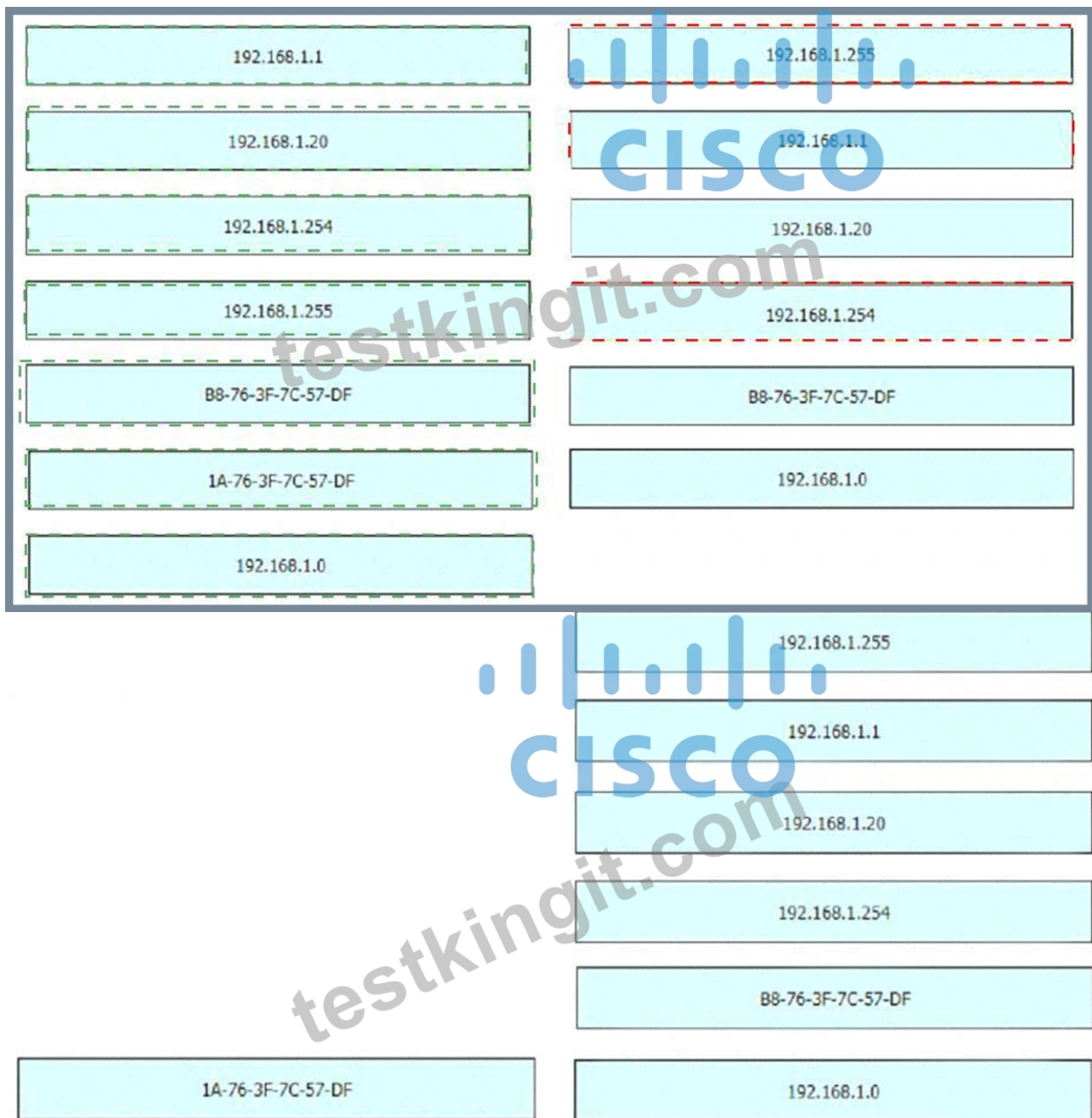
Connection-specific DNS Suffix . . . . . : 
Description . . . . . : Dell Wireless 1703 802.11b/g/n (2.4GHz)
Physical Address. . . . . : B8-76-3F-7C-57-DF
DHCP Enabled. . . . . : No
Autoconfiguration Enabled . . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::e09f:9839:6e86:f755%12(Preferred)
IPv4 Address. . . . . : 192.168.1.20(Preferred)
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
DHCPv6 IAID . . . . . : 263747135
DHCPv6 Client DUID. . . . . : 00-01-00-01-18-E6-32-43-B8-76-3F-7C-57-DF
. . . . . : 192.168.1.15
. . . . . : 192.168.1.16
NetBIOS over Tcpip. . . . . : Enabled
```

An engineer is required to verify that the network parameters are valid for the users wireless LAN connectivity on a /24 subnet. Drag and drop the values from the left onto the network parameters on the right. Not all values are used.

192.168.1.1	broadcast address
192.168.1.20	default gateway
192.168.1.254	host IP address
192.168.1.255	last assignable IP address in the subnet
B8-76-3F-7C-57-DF	MAC address
1A-76-3F-7C-57-DF	network address
192.168.1.0	

Answer:

Explanation:



NEW QUESTION # 660

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