

# N10-009 Study Plan | Interactive N10-009 Testing Engine

GRADE 6 – ILSW

SECOND TERM

## UNIT 9 – HOUSES IN THE FUTURE

Use the following words to write for each picture based on the definition. (Places & Things)

in a city	smart home	on the sea	megacity
under the sea	earthscraper	underground	eco-friendly home



1. A large city with more than ten million people living there. \_\_\_\_\_



2. The salty water that covers a large part of the surface of the earth. \_\_\_\_\_



3. Below the surface of the earth. \_\_\_\_\_



4. A place where many people live, with many houses, stores, businesses,... and which is bigger than a town. \_\_\_\_\_



5. A house which is friendly to environment. \_\_\_\_\_



6. Below the surface of the sea. \_\_\_\_\_



7. A house with a computer to run it. \_\_\_\_\_



8. A big apartment building under the ground. \_\_\_\_\_

Complete the sentences with the appliances in the box.

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## CompTIA N10-009 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Network Operations: For IT operations staff and network operations center (NOC) technicians, this part of the exam covers the purpose of organizational processes and procedures and use of network monitoring technologies.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Network Security: This section of the exam for cybersecurity specialists and network security administrators covers the importance of basic network security concepts, Various types of attacks and their impact on the network, application of network security features, defense techniques, and solutions.   Network Troubleshooting: For help desk technicians and network support specialists, this section covers troubleshooting methodology, troubleshooting common cabling and physical interface issues, troubleshooting common issues with network services, and use of appropriate tools or protocols to solve networking issues.</li> </ul>

Topic 3	<ul style="list-style-type: none"> <li>• Cloud concepts and connectivity options, and Common networking ports.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Selection and configuration of wireless devices.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• Network Implementation: For network technicians and junior network engineers, this section covers Characteristics of routing technologies, Configuration of switching technologies and features, and</li> </ul>

### >> N10-009 Study Plan <<

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For the convenience of the users, the N10-009 test materials will be updated on the homepage and timely update the information related to the qualification examination. Annual qualification examination, although content broadly may be the same, but as the policy of each year, the corresponding examination pattern grading standards and hot spots will be changed, as a result, the N10-009 Test Prep can help users to spend the least time, you can know the test information directly what you care about on the learning platform that provided by us, let users save time and used their time in learning the new hot spot concerning about the knowledge content.

## CompTIA Network+ Certification Exam Sample Questions (Q18-Q23):

### NEW QUESTION # 18

Which of the following connectors allows a singular QSFP transceiver to have several physical connections?

- A. MPO
- B. LC
- C. ST
- D. RJ45

**Answer: A**

Explanation:

The MPO (Multi-fiber Push On) connector is designed to handle multiple fiber strands in a single connector, and it is commonly used with high-density transceivers like QSFP (Quad Small Form-factor Pluggable).

QSFP can support up to four channels (hence "quad"), and MPO connectors can interface multiple fibers (e.g., 8, 12, 24), making them ideal for 40Gbps or 100Gbps deployments.

RJ45 (A) is used for Ethernet over copper.

ST (B) and LC (C) are single-fiber connectors - they don't support the multi-fiber needs of QSFP setups.

□ Therefore, MPO is the correct connector type for this use case.

Reference:

### NEW QUESTION # 19

A network administrator needs to divide 192.168.1.0/24 into two equal halves. Which of the following subnet masks should the administrator use?

- A. 255.255.254.0
- B. 255.255.255.0
- C. 255.255.0.0
- D. 255.255.255.128

**Answer: D**

Explanation:

Understanding Subnetting:

Original Network: 192.168.1.0/24 has a subnet mask of 255.255.255.0, which allows for 256 IP addresses (including network and broadcast addresses).

Objective: Divide this network into two equal subnets.

Calculating Subnet Mask:

New Subnet Mask: To divide 192.168.1.0/24 into two equal halves, we need to borrow one bit from the host portion of the address, changing the subnet mask to 255.255.255.128 (/25).

Subnet Breakdown:

First Subnet: 192.168.1.0/25 (192.168.1.0 - 192.168.1.127)

Second Subnet: 192.168.1.128/25 (192.168.1.128 - 192.168.1.255)

Verification:

Each subnet now has 128 IP addresses (126 usable IP addresses, excluding the network and broadcast addresses).

Comparison with Other Options:

255.255.0.0 (/16): Provides a much larger network, not dividing the original /24 network.

255.255.254.0 (/23): Also creates a larger subnet, encompassing more than the original /24 network.

255.255.255.0 (/24): Maintains the original subnet size, not dividing it.

Reference:

CompTIA Network+ study materials on subnetting and IP addressing.

### NEW QUESTION # 20

Which of the following offers the ability to manage access at the cloud VM instance?

- A. Network ACL
- B. Direct Connect
- C. Security group
- D. Internet gateway

**Answer: C**

Explanation:

Security groups in cloud environments act as virtual firewalls for VM instances, controlling inbound and outbound traffic based on specified rules.

From Andrew Ramdayal's guide:

"Network security groups are used to control inbound and outbound traffic to cloud resources within a VPC. They act as a virtual firewall for associated instances..."

### NEW QUESTION # 21

An administrator needs to configure an IoT device with a /21 subnet mask, but the device will only accept dotted decimal notation. Which of the following subnet masks should the administrator use?

- A. 255.255.248.0
- B. 255.255.252.0
- C. 255.255.240.0
- D. 255.255.224.0

**Answer: C**

Explanation:

A /21 subnet mask means 21 bits are network bits:

$8 + 8 + 5 = 21 \rightarrow$  leaves 11 bits for hosts.

Subnet mask in binary: 11111111.11111111.11111000.00000000

Converted to decimal: 255.255.248.0

Therefore:

A. /19 = 255.255.224.0

B. /20 = 255.255.240.0

☐ C. /21 = 255.255.248.0 ← correct

D. /22 = 255.255.252.0

Answer correction: The correct option is C. 255.255.248.0, not B.

Reference (CompTIA Network+ N10-009):

### NEW QUESTION # 22

A network engineer receives a vendor alert regarding a vulnerability in a router CPU. Which of the following should the engineer do to resolve the issue?

- A. Isolate the system.
- B. Patch the OS.
- **C. Update the firmware.**
- D. Replace the system board.

**Answer: C**

Explanation:

Understanding the Vulnerability:

Vulnerabilities in the router CPU can be exploited to cause performance degradation, unauthorized access, or other security issues.

Firmware Update:

Firmware Role: The firmware is low-level software that controls the hardware of a device. Updating the firmware can address vulnerabilities by providing patches and enhancements from the manufacturer.

Procedure: Download the latest firmware from the vendor's website, follow the manufacturer's instructions to apply the update, and verify that the update resolves the vulnerability.

Comparison with Other Options:

Replace the System Board: This is a costly and often unnecessary step if the issue can be resolved with a firmware update.

Patch the OS: Patching the OS is relevant for devices with a full operating system but not directly applicable to addressing a CPU vulnerability on a router.

Isolate the System: Temporarily isolating the system can mitigate immediate risk but does not resolve the underlying vulnerability.

Best Practice:

Regularly check for and apply firmware updates to ensure that network devices are protected against known vulnerabilities.

Reference:

CompTIA Network+ study materials on network security and device management.

## NEW QUESTION # 23

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