

# M08 - Part 2: CompTIA Network+ Practice Exam

**Due** Dec 14 at 12:30pm **Points** 100 **Questions** 100  
**Available** until Dec 18 at 11:59pm **Time Limit** 90 Minutes  
**Allowed Attempts** Unlimited

## Instructions

The following exam contains questions that are similar in content and format to the multiple-choice questions you will encounter on CompTIA's Network+ N10-008 certification exam, released in 2021. This practice exam consists of 100 questions, all of which are multiple choice. Some questions have more than one correct answer. The number of questions from each domain reflects the weighting that CompTIA assigned to these domains in its exam objectives. To simulate taking the CompTIA Network+ certification exam, you will have 90 minutes to answer all the questions.

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## Attempt History

	Attempt	Time	Score
KEPT	<a href="#">Attempt 2</a>	11 minutes	98 out of 100
LATEST	<a href="#">Attempt 2</a>	11 minutes	98 out of 100
	<a href="#">Attempt 1</a>	8 minutes	5 out of 100

Score for this attempt: **98** out of 100

Submitted Dec 5 at 12:53pm

This attempt took 11 minutes.

### Question 1

1 / 1 pts

To ensure that your private network is always protected, you decide to install three redundant firewalls. Which of the following would allow you to assign the same IP address to all three?

**Correct!**

- ☐ SMTP
- ☐ IMAP
- ☒ CARP
- ☐ SNMPv3
- ☐ NTP

**Question 2****0 / 1 pts**

What Ethernet standard could use the connector shown here?

**Incorrect Answer**

- ☐ 1000BASE-T
- ☐ 1000BASE-LX
- ☐ 5GBASE-T
- ☐ 100BASE-TX

**Not Answered**

- ☒ 10GBASE-T

**Question 3****1 / 1 pts**

While troubleshooting a workstation connectivity problem, you enter the following command: ping 127.0.0.1. The response indicates the test failed. What can you determine about that workstation?

- ☐ Its DNS name server specification is incorrect.
- ☐ Its network cable is faulty or not connected to the wall jack.
- ☐ Its TCP/IP protocol is not installed properly.
- ☒ Its DHCP settings are incorrect.
- ☐ It has been prevented from transmitting data past the default gateway.

**Correct!**

#### Question 4

**1 / 1 pts**

You have been asked to help improve network performance on a store's small office network. The network relies on two switches, two access points, and a router to connect its 18 employees to the Internet and other store locations. You decide to determine what type of traffic the network currently handles. In particular, you're interested in the volume of unnecessary broadcast traffic that might be bogging down shared segments. Which of the following tools will help you identify the percentage of traffic made up of broadcasts?

☐ Cable tester

☒ Protocol analyzer

☐ Port scanner

☐ OTDR

☐ Multimeter

**Correct!**

### Question 5

1 / 1 pts

Which of the following standards describes a security technique, often used on wireless networks, in which a port is prevented from receiving traffic until the transmitter's credentials are verified by an authentication server?

☐ RADIUS

☐ Kerberos

☒ EAPoL

☐ CCMP

**Correct!**

☐ SSH

### Question 6

0 / 1 pts

Which of the following ports would be used during a domain name lookup?

☐ 23

☒ 443

☐ 22

☐ 53

☐ 110

Not Answered

Incorrect Answer

### Question 7

1 / 1 pts

You are configuring a connection from a Windows server to a switch, and you want to make sure the connection doesn't fail or become overwhelmed by heavy traffic. Which of the following techniques would help you achieve both aims?

☐ Clustering

☒ NIC teaming

☐ Trunking

Correct!

☐ Multipathing☐ CARP**Question 8****1 / 1 pts**

As a network admin, you have decided to install additional physical security to the main office's data room. Due to the sensitivity of the data held in this room, you decide it's critical to ensure two-factor authentication before granting anyone access to the room. You already have a lock on the door. Which of the following physical security measures would provide 2FA?

☐ Smart card☐ Proximity card☒ Fingerprint scanner☐ Keychain fob☐ Video surveillance**Correct!****Question 9****1 / 1 pts**

You have installed and configured two virtual web servers and a virtual mail server on a physical server. What networking mode will you assign to each server's vNIC to ensure that the virtual machines' clients on the Internet can access the virtual machines?

☒ Bridged**Correct!**

☐ Host-only☐ NAT☐ Internal☐ Grouped**Question 10****1 / 1 pts**

At the beginning of the school year, students at your school must configure their computers and other devices to obtain trusted access to the student portion of the school's network. What is this process called?

☐ Associating☐ Remote wiping☒ Onboarding☐ Authenticating☐ Social engineering**Correct!****Question 11****1 / 1 pts**

When using NAT, how does an IP gateway ensure that outgoing traffic can traverse public networks?

☒**Correct!**

It replaces each outgoing packet's Source address field with a public IP address.



It modifies each outgoing frame's Type field to indicate that the transmission is destined for a public network.



It modifies the frame length to create uniformly sized frames, called cells, which are required for public network transmission.



It assigns each outgoing packet a masked ID via the Options field.



It interprets the contents of outgoing packets to ensure that they contain no client-identifying information.

### Question 12

1 / 1 pts

Which of these authentication techniques only encrypts the password when transmitting sign-in credentials?



Kerberos



TACACS+



RADIUS



Single sign-on



Local authentication

Correct!

### Question 13

1 / 1 pts



You are a networking technician in a radiology clinic where physicians use the network to transmit and store patients' diagnostic results. Shortly after a new wing, which contains X-ray and MRI (magnetic resonance imaging) machines, is added to the building, computers in that area begin having intermittent problems saving data to the file server. After you have gathered information, identified the symptoms, questioned users, and determined what has changed, what is your next step in troubleshooting this problem?

- ☐ Escalate the problem.
- ☐ Document findings, actions, and outcomes.
- ☐ Establish a plan of action to resolve the problem.
- ☐ Implement the solution.
- ☒ Establish a theory of probable cause.

**Correct!**

### Question 14

1 / 1 pts

The software on a firewall you recently installed on your network examines each incoming packet. It blocks or allows traffic based on a set of criteria—including source IP address, destination ports, and TCP flags—and it does not evaluate traffic in relation to other traffic. What type of system is this? *Choose two.*

- ☐ Host-based firewall
- ☐ Stateful firewall
- ☐ Application layer firewall
- ☒ Stateless firewall

**Correct!**

**Correct!**☒ Packet-filtering firewall**Question 15****1 / 1 pts**

Suppose you are creating six subnets on a network that leases a group of class C IPv4 addresses. What subnet mask must you specify in your clients' configurations to maximize the number of host addresses available on each subnet?

- ☐ 255.255.255.6
- ☐ 255.255.255.192
- ☐ 255.255.255.0
- ☒ 255.255.255.224
- ☐ 255.255.255.128

**Correct!****Question 16****1 / 1 pts**

What would the command `route del default gw 192.168.5.1 eth1` accomplish on your Linux workstation?

- ☒ Remove the assignment of IP address 192.168.5.1 from the eth1 interface.
- ☐ Add a route from the workstation to the default gateway whose IP address is 192.168.5.1.

**Correct!**



Delete the default gateway's route to the host whose IP address is 192.168.5.1.



Add a route from the workstation to the default gateway whose IP address is 192.168.5.1.



Remove the workstation's route to the default gateway whose IP address is 192.168.5.1.

### Question 17

1 / 1 pts

From your laptop, you need to remote into a switch to make some configuration changes. Which transport layer protocol and TCP/IP port should you open in Windows Firewall to make this work using Telnet?



UDP, port 23



TCP, port 22



TCP, port 23



UDP, port 21



UDP, port 22

Correct!

### Question 18

1 / 1 pts

Recently, your company's WAN experienced a disabling DDoS attack. Which of the following devices could detect such an attack and prevent it from affecting your network in the future?

**Correct!**

- ☐ A honeypot
- ☐ SIEM
- ☒ NIPS
- ☐ HIDS
- ☐ HIPS

**Question 19****1 / 1 pts**

Which of the following routing protocols offer fast convergence times and can be used on both core and edge routers? *Choose two.*

**Correct!**

- ☒ OSPF
- ☐ BGP
- ☐ IS-IS
- ☐ RIPv2

**Correct!**

- ☒ EIGRP

**Question 20****1 / 1 pts**

A friend calls you for help with his home office Internet connection. He is using an 802.11n wireless router connected to a DSL modem. The router's private IP address is 192.168.1.1, and it has been assigned an Internet routable IP address of 76.83.124.35. Your friend cannot connect to any resources on the Internet using his new Windows

workstation. You ask him to run the ipconfig command and read the results to you. He says his workstation's IP address is 192.168.1.3, the subnet mask is 255.255.255.0, and the default gateway address is 192.168.1.10. What do you advise him to do next?

**Correct!**

- ☐ Try pinging the loopback address.
- ☐ Display his DNS information.
- ☒ Change his gateway address.
- ☐ Change his subnet mask.
- ☐ Use the tracert command to contact the access point/router.

### Question 21

**1 / 1 pts**

Your organization contracts with a cloud service provider to store some backup data. The company promises 99.999 percent uptime. If it lives up to its claims, what is the maximum number of minutes each year you can expect your data to be unavailable?

**Correct!**

- ☒ Approximately 5 minutes
- ☐ Approximately 52 minutes
- ☐ Approximately 14 minutes
- ☐ Approximately 199 minutes
- ☐ Approximately 448 minutes

**Question 22****1 / 1 pts**

In a spine-and-leaf architecture, what type of switch is typically connected to a spine layer switch?

**Correct!**

- ☒ Leaf switch
- ☐ Core switch
- ☐ Distribution switch
- ☐ Spine switch
- ☐ Access switch

**Question 23****1 / 1 pts**

What STP configuration ensures that a laptop connected to a switch cannot alter the STP paths on the network?

**Correct!**

- ☐ BPDU filter
- ☐ Root bridge
- ☒ BPDU guard
- ☐ Designated port
- ☐ BID

**Question 24****1 / 1 pts**

What is the default subnet mask for the IP address 154.13.44.87?

- ☐ 0.0.0.0
- ☐ 255.255.255.255
- ☒ 255.255.0.0
- ☐ 255.0.0.0
- ☐ 255.255.255.0

**Correct!****Question 25****1 / 1 pts**

Your CFO has approved installing new backbone cabling on your school's campus. One of the buildings is particularly far away from the others, nearly a kilometer. Which Ethernet standard will reach the distant building without the use of a repeater?

- ☐ 10GBASE-T
- ☐ 1000BASE-SX
- ☐ 10GBASE-SR
- ☒ 1000BASE-LX
- ☐ 1000BASE-T

**Correct!**

**Question 26****1 / 1 pts**

Which of the following is often used to secure data traveling over VPNs that use L2TP?

☐ Kerberos☐ SSH☐ GRE☒ IPsec☐ OpenVPN**Correct!****Question 27****1 / 1 pts**

You are a support technician working in a data closet in a remote office. You suspect that a connectivity problem is related to a broken RJ-45 plug on a patch cable that connects a switch to a patch panel. You need to replace that connector, but you forgot to bring an extra patch cable. You decide to install a new RJ-45 connector to replace the broken connector. Which tools must you have to successfully accomplish this task? *Choose two.*

☒ Wire cutter☐ Multimeter☐ Punchdown tool☒ Cable crimper☐ Cable tester**Correct!****Correct!**



**Question 28****1 / 1 pts**

You have purchased an outdoor access point capable of exchanging data via the 802.11n or 802.11ac wireless standard. According to these standards, what is the maximum distance, in meters, from the access point that wireless clients can travel and still reliably exchange data with the access point if there are no obstacles between them?

☐ 20☐ 450☐ 70☐ 100☒ 250**Correct!****Question 29****1 / 1 pts**

Which of the following is a single sign-on authentication method?

**Correct!**

- ☐ SSL
- ☒ Kerberos
- ☐ IPsec
- ☐ EAPoL
- ☐ RADIUS

### Question 30

**1 / 1 pts**

Your organization has just ordered its first leased line to the Internet. Prior to that, your organization relied on a DSL connection. Which of the following features will your subscription provide that no type of DSL offers?

**Correct!**

- ☒ Dedicated bandwidth
- ☐ Symmetrical bandwidth
- ☐ Modem
- ☐ Local loop
- ☐ Low price

### Question 31

**1 / 1 pts**

Your friend's printer isn't printing the document she just sent it. In what order should you perform the listed steps?

**Correct!**



Determine if anything has changed on her network, follow the OSI model from bottom to top to check possible causes, and send a new document to the printer.



Follow the OSI model from bottom to top to check possible causes, send a new document to the printer, and determine if anything has changed on her network.



Take notes on the outcome, send a new document to the printer, and determine if anything has changed on her network.



Send a new document to the printer, follow the OSI model from bottom to top to check possible causes, and ask your friend when the problem started.



Determine if anything has changed on her network, follow the OSI model from bottom to top to check possible causes, and send a new document to the printer.

### Question 32

**1 / 1 pts**

A CEO fires her administrative assistant after the assistant was caught stealing company funds. Over the weekend, the administrative assistant hacks into the CEO's private email account and steals some personal data. What type of attack did the former employee most likely use to accomplish this exploit?

**Correct!**



On-path attack



Brute force attack

- ☐ War driving
- ☐ Logic bomb
- ☐ Deauth attack

**Question 33****1 / 1 pts**

What is the network ID for a class C network that contains the group of IP addresses from 194.73.44.10 through 194.73.44.254?

- ☐ 194.73.0.0
- ☐ 194.73.44.1
- ☒ 194.73.44.0
- ☐ 194.1.1.1
- ☐ 194.73.44.255

**Correct!****Question 34****1 / 1 pts**

Your organization is reassessing its WAN connections to determine how much more bandwidth it will need to purchase in the next two years. As a network administrator, which of the following data can you share that will help management make the right decision?

- ☐ Syslog
- ☐ Wiring diagram

**Correct!**

- ☐ Change management documentation
- ☐ Logical topology
- ☒ Baseline

**Question 35****1 / 1 pts**

You are creating a new Linux server as a virtual machine on your Windows workstation. Which of the following commands will tell you the IP address that is assigned to your virtual server?

**Correct!**

- ☐ ipconfig /all at the Linux server's shell prompt
- ☐ ping at the Linux server's shell prompt
- ☒ ifconfig -a at the Linux server's shell prompt
- ☐ ipconfig /all at the Windows workstation's command prompt
- ☐ iptables at the Linux server's shell prompt

**Question 36****1 / 1 pts**

Which of the following requirements provide 2FA? *Choose two.*

- ☐ Smart card and key fob
- ☐ Location in a secured closet
- ☐ Iris pattern and typing pattern

**Correct!**☒ Fingerprint and name of first elementary school**Correct!**☒ Password and name of first elementary school**Question 37****1 / 1 pts**

You are rearranging nodes on your Gigabit Ethernet network. Due to a necessarily hasty expansion, you have decided to supply power to a wireless router in a makeshift data room using PoE. Which of the following is the cheapest cabling you could use to connect this wireless router to the network's backbone?

☐ SMF☐ RG-6☐ Cat 6☐ RG-59**Correct!**☒ Cat 5e**Question 38****1 / 1 pts**

As you're setting up APs in your client's office space, you want to ensure that all work areas and the meeting room have adequate access to the network. What tool will give you the information you need?

**Correct!**☒ Wi-Fi analyzer☐ Toner probe

☐ Bandwidth speed tester

☐ Packet sniffer

☐ Geofencing

### Question 39

1 / 1 pts

Which of the following protocols encapsulates data for transmission over VPNs?

Correct!

☒ L2TP

☐ TACACS+

☐ VNC

☐ TCP

☐ SFTP

### Question 40

1 / 1 pts

Which of the following is a valid MAC address?

☐ FE80::32:1CA3:B0E2

Correct!

☒ C3:00:50:00:FF:FF

☐ ::9F53

☐ D0:00:00:00☐ 153.101.24.3**Question 41****1 / 1 pts**

Which of the following services would be most important to disable on a Windows workstation? *Choose two.*

☐ RDP☒ FTP☐ DHCP☐ SSH☒ Telnet**Correct!****Correct!****Question 42****1 / 1 pts**

It's Friday night, and you have just settled in with some hot cocoa and popcorn to watch one of your favorite movies on Netflix. Five minutes into the movie, you realize you're getting more stressed than relaxed, and then you realize the problem is that the movie keeps lagging, buffering, and skipping. What transmission flaw is probably the source of the problem?

☐ EMI☐ Crosstalk



**Correct!**

- ☐ Jitter
- ☒ Latency
- ☐ Attenuation

**Question 43****1 / 1 pts**

Where might you find publicized information about a backdoor to an application?

- ☐ EAP
- ☐ SSO
- ☐ CIA
- ☒ CVE
- ☐ SIEM

**Correct!****Question 44****1 / 1 pts**

As you type in your PIN at the ATM, what risk can you protect yourself from by covering the keypad as you type?

- ☐ Tailgating
- ☐ Spoofing
- ☐ Phishing

**Correct!**

- ☒ Shoulder surfing
- ☐ Piggybacking

**Question 45****1 / 1 pts**

After running the show interface command on a router, which field in the output indicates a damaged but minimally functioning cable?

- ☐ Link state
- ☐ BW
- ☐ Runts
- ☒ CRC errors
- ☐ Giants

**Correct!****Question 46****1 / 1 pts**

You suspect that a machine on your network with the host name PRTSRV is issuing excessive broadcast traffic. What command can you use to determine this host's IP address?

- ☐ netstat PRTSRV
- ☐ ip address show PRTSRV
- ☒ nslookup PRTSRV

**Correct!**

☐ ipconfig PRTSRV☐ ifconfig -a PRTSRV**Question 47****1 / 1 pts**

You're installing a network management system and need to install software on various devices. What software must be installed on a managed device, such as a router?

☐ Syslog☐ NMS☐ OID☐ SIEM☒ Agent**Correct!****Question 48****1 / 1 pts**

You work for a small ISP. Several of your customers have called to complain about slow responses from a popular website. You suspect that network congestion is at fault. Which TCP/IP utility would help you determine where the congestion is occurring?

☒ tracer☐ arp**Correct!**

☐ ftp☐ nslookup☐ telnet**Question 49****1 / 1 pts**

You are a network administrator for a WAN that connects two regional insurance company offices—the main office and a branch office—to each other by a leased line. The main office is also connected to the Internet using a leased line. This leased line provides Internet access for both offices. To ensure that your private network is not compromised by unauthorized access through the Internet connection, you install a firewall between the main office and the Internet. Shortly thereafter, users in your branch office complain that they cannot access the file server in the main office, but users in the main office can still access the Internet. What configurations should you check? *Choose two.*

☐

Whether the firewall has been configured to allow Internet access over the main office's leased line

**Correct!**

☒

Whether the firewall is placed in the appropriate location on the network

☐

Whether the firewall has been configured to run in promiscuous mode

**Correct!**

☒

Whether the firewall has been configured to allow access from IP addresses in the branch office

☐

Whether the firewall has been configured to receive and transmit UDP-based packets

### Question 50


**1 / 1 pts**

On an IPv6 network, which of the following is a host computer's loopback address?

☐

::1/128

**Correct!**☐ FE80::1☒ 127::1☐ 127.0.0.1☐ 1.0.0.1**Question 51****1 / 1 pts**

In the process of troubleshooting an intermittent performance problem with your network's Internet connection, you attempt to run a tracer test to [microsoft.com](http://microsoft.com)  (<http://microsoft.com/?fromUrl=https%3A%2F%2Fbooks.cenreader.com%2F%23!%2Freader%2F68555733-d549-4d43-a2e3-7be9a5b46521%2Fpage%2F153bf1f6e8353f17fe66a4e9bfdb3f2b%3FscrollTo=search-text-1%26search%3Ddel%2520default%2520gw&fromToken=22f294eb3865f7aa169d62890ef05a921f315a41&fromTitle=eTextbook:%20CompTIA%20Network%20%20Guide%20to%20Networks&fromBook=68555733-d549-4d43-a2e3-7be9a5b46521&fromPage=153bf1f6e8353f17fe66a4e9bfdb3f2b?scrollTo=search-text-1&search=del%20default%20gw>). The tracer response displays the first 12 hops in the route but then presents several "Request timed out" messages in a row. What is the most likely reason for this result?

☐

Your client's TCP/IP service limits the tracer command to a maximum of 12 hops.

☐

The Internet backbone is experiencing traffic congestion.

☐

Your IP gateway failed while you were attempting the tracer test.

☒

Microsoft's network is bounded by firewalls that do not accept incoming ICMP traffic.

**Correct!**

- ☐ Your network's ISP is experiencing connectivity problems.

**Question 52****1 / 1 pts**

You are setting up a new Windows 10 client to connect with your LAN, which relies on DHCP. Which of the following must you do to ensure that the client obtains correct TCP/IP information via DHCP?

**Correct!**

- ☒ Nothing; in Windows 10, the DHCP option is selected by default.
- ☐ Enter the client's MAC address in the DHCP server's ARP table.
- ☐ Enter the DHCP server address in the Windows TCP/IP configuration.
- ☐ Enter the DHCP server address in the Windows TCP/IP configuration.
- ☐ Make certain the client's computer name and host name are identical.

**Question 53****1 / 1 pts**

Due to popular demand from employees who need to roam from one floor of your office building to another, you are expanding your wireless network. You want to ensure that mobile users enjoy uninterrupted network connectivity without having to reconfigure their workstations' wireless network connection settings as they travel throughout the office space. Which of the following variables must you configure on your new access points to match the settings on existing access points?

**Correct!**

- ☐ IP address
- ☐ Scanning rate
- ☒ ESSID
- ☐ RSSI
- ☐ Administrator password

**Question 54****1 / 1 pts**

You have installed a protocol analyzer on your laptop and connected the laptop to a switch on your network's backbone. You want to monitor all traffic on a specific VLAN. Which feature must you configure on the switch to make this work?

- ☐ Looping
- ☐ Caching
- ☐ Trunking
- ☐ Spanning Tree Protocol
- ☒ Port mirroring

**Correct!****Question 55****1 / 1 pts**

Which of the following does *not* accurately describe TACACS+ in comparison to RADIUS?



**Correct!**

- ☐ TACACS+ was developed for proprietary use on Cisco products.
- ☐ TACACS+ relies on TCP, not UDP, at the transport layer.
- ☐ TACACS+ is used to authenticate to a router or switch.
- ☐ TACACS+ encrypts all information transmitted for AAA rather than just the password.
- ☒ TACACS+ operates as a software application on a remote access server.

**Question 56****1 / 1 pts**

You are part of a team participating in a posture assessment of your company's LAN. Which of the following tools or strategies will help you gain a broad understanding of your network's security vulnerabilities?

**Correct!**

- ☒ Nmap
- ☐ DHCP snooping
- ☐ War driving
- ☐ CCMP
- ☐ MIB

**Question 57****1 / 1 pts**

Which of the following devices can be used to separate broadcast domains? *Choose two.*

**Correct!**

☒ Access point

**Correct!**

☒ Router

☐ Repeater

☐ Hub

☐ Switch

### Question 58

**1 / 1 pts**

About a year ago, you purchased and installed a new router at one of your company's branch offices, and you have had nothing but problems with the router since. Today you called the vendor for the third time to have them send a technician to repair the router. They estimate the repair will be completed by the end of business tomorrow. In the meantime, you have decided that you would prefer to replace the router the next time it fails. What factor should you carefully investigate when shopping for a replacement, so you won't face this same scenario with the next router?

☐ MTTR

☐ MIB

☐ UPS

☐ SLA

**Correct!**

☒ MTBF

**Question 59****1 / 1 pts**

A 500-watt transmitted signal arrives at the receiver at 250 watts. What is the signal's dB loss?

- ☐ 6 dB loss
- ☒ 3 dB loss
- ☐ 1000 dB loss
- ☐ 1 dB loss
- ☐ 250 dB loss

**Correct!****Question 60****1 / 1 pts**


You need a topology that is scalable to use in your network. Which of the following will you install?

- ☐ Mesh
- ☐ Ring
- ☒ Star
- ☐ Host
- ☐ Bus

**Correct!**

## Question 61

1 / 1 pts

Your study partner is trying to access the Internet on her laptop, and it's not working. You offer to help, and you use her browser to try to go to [google.com](http://google.com)  [. That doesn't work. In a Command Prompt window, you ping \[google.com\]\(http://google.com\) !\[\]\(034433b90593e82e5460e34e3ed48e9b\_img.jpg\) \[, which doesn't work either. You then ping 8.8.8.8, and it still doesn't work. You try to ping the network's gateway, and it fails. You ping your own computer, which is logged onto the same network, and it works. What is the most likely diagnosis of this problem?\]\(http://google.com/?fromUrl=https%3A%2F%2Fbooks.cenreader.com%2F%23!%2Freader%2F68555733-d549-4d43-a2e3-7be9a5b46521%2Fpage%2F153bf1f6e8353f17fe66a4e9bfdb3f2b%3Fsearch-text-1%26search%3Ddel%2520default%2520gw&fromToken=22f294eb3865f7aa169d62890ef05a921f315a41&fromTitle=eTextbook:%20CompTIA%20Network%20%20Guide%20to%20Networks&fromBook=68555733-d549-4d43-a2e3-7be9a5b46521&fromPage=153bf1f6e8353f17fe66a4e9bfdb3f2b?scrollTo=search-text-1&search=del%20default%20gw\)](http://google.com/?fromUrl=https%3A%2F%2Fbooks.cenreader.com%2F%23!%2Freader%2F68555733-d549-4d43-a2e3-7be9a5b46521%2Fpage%2F153bf1f6e8353f17fe66a4e9bfdb3f2b%3Fsearch-text-1%26search%3Ddel%2520default%2520gw&fromToken=22f294eb3865f7aa169d62890ef05a921f315a41&fromTitle=eTextbook:%20CompTIA%20Network%20%20Guide%20to%20Networks&fromBook=68555733-d549-4d43-a2e3-7be9a5b46521&fromPage=153bf1f6e8353f17fe66a4e9bfdb3f2b?scrollTo=search-text-1&search=del%20default%20gw)

Correct!

- ☒ Incorrect gateway
- ☐ Incorrect subnet mask
- ☐ Duplicate IP address
- ☐ Exhausted DHCP scope

☐ Incorrect DNS server

### Question 62

1 / 1 pts

You work for a small fashion design firm. Because of a video that recently went viral, your company has received national recognition. Within a few days, your web server crashes. What kind of attack most likely caused the crash?

☐ Logic bomb

☒ Friendly DoS

☐ Spoofing

☐ Phishing

☐ Ransomware

Correct!

### Question 63

1 / 1 pts

You have just installed Linux on an old laptop to bring it new life. Which of the following applications will provide the most protection for the computer when you connect it to the Internet?

☐ Honeypot

☐ Defender

☐ Wireshark

**Correct!**☐ tcpdump☒ iptables**Question 64****1 / 1 pts**

You are the network administrator for a large university whose network currently contains nearly 10,000 workstations, over 80 routers, 250 switches, and 500 printers. You are researching a proposal to upgrade the routers and switches on your network to primarily use multilayer switches instead. At the same time, you want to improve the management of your network devices. Which of the following protocols will help automate network management across all the new devices?

☐ ICMP☐ NTP☐ SMTP**Correct!**☒ SNMP☐ TFTP**Question 65****1 / 1 pts**

Which of the following devices operate only at the physical layer of the OSI model? *Choose two.*

☐ Router

**Correct!**☒ Repeater**Correct!**☒ Hub☐ Switch☐ Firewall**Question 66****1 / 1 pts**

While making some configuration changes to a client's network, you need to connect your laptop to a router's console port. Which of the following connector types is most likely to be used for this purpose?

☐ RJ-11☐ MT-RJ☐ APC☐ F-connector**Correct!**☒ RJ-45**Question 67****1 / 1 pts**

You have connected to your bank's home page. Its URL begins with *https://*. Based on this information, what type of security can you assume the bank employs for clients receiving and transmitting data to and from its web server?

**Correct!**

- ☒ TLS
- ☐ Packet-filtering firewall
- ☐ IPsec
- ☐ L2TP
- ☐ Kerberos

**Question 68****1 / 1 pts**

Which of the following routing protocols has the poorest convergence time?

**Correct!**

- ☒ RIP
- ☐ OSPF
- ☐ EIGRP
- ☐ BGP
- ☐ IS-IS

**Question 69****1 / 1 pts**

You need to gather some information about the traffic being broadcast and received on a Linux workstation. Unfortunately, you don't have time to install Wireshark. Which command can you use instead?



**Correct!**☒ tcpdump☐ nslookup☐ dig☐ traceroute☐ telnet**Question 70****1 / 1 pts**

To provide redundancy, you have to set up three links from a critical server to two redundant switches, both of which operate on the same subnet. Two connections from the server go to one switch, and the third link connects the other switch to the server. The server is running Windows Server 2019. What feature should you configure on the server to make these redundant links work together for load balancing and failover protection?

☐ Server cluster☐ Flow control☐ Port aggregation**Correct!**☒ NIC teaming☐ Virtual IP address**Question 71****1 / 1 pts**

A Windows workstation is configured to use DHCP, but it cannot find a DHCP server. You run ipconfig in PowerShell. Which of the following IP addresses is most likely reported by Windows?

☐ 172.16.2.18

☐ 129.0.0.1

☐ 192.168.0.1

**Correct!**

☒ 169.254.1.120

☐ 255.255.255.0

### Question 72

1 / 1 pts

Used side-by-side with Kerberos, what service does LDAP provide Active Directory?

☐ Accounting

☐ Authorization

☐ Encryption

**Correct!**

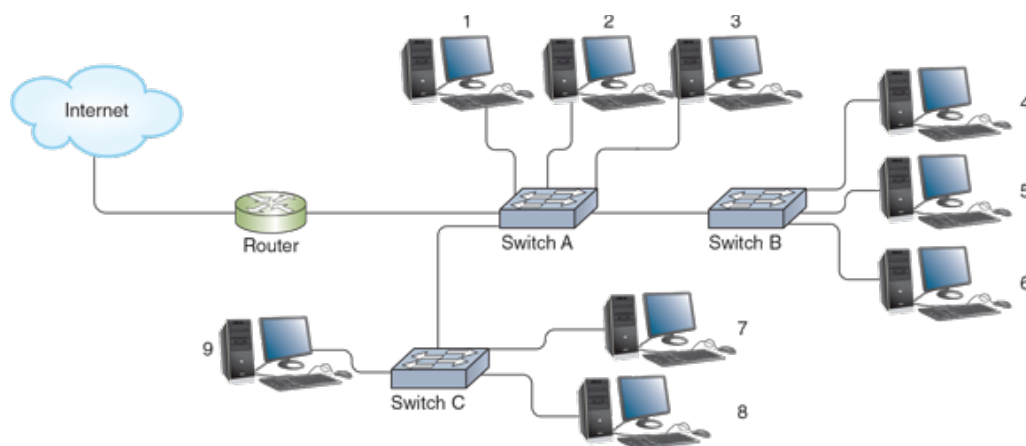
☒ Authentication

☐ Auditing

### Question 73

1 / 1 pts

In the following figure, if switch A suffers a failure, how will this failure affect nodes 1 through 3?



**Correct!**



They will be unable to access the Internet or any other nodes on the LAN.



Their connectivity will not be affected.



They will be unable to access the Internet or nodes 7 through 9.



They will only be unable to access the Internet.



They will be unable to access nodes 4 through 9.

## Question 74

1 / 1 pts

A file server on your network is running Ubuntu Server. You need to remote into it to make some configuration changes so that a new employee can access a group of files. The files are stored on an encrypted hard drive. Which of the following utilities will give you secure access to the server to make your reconfigurations?



RDP

**Correct!**☒ SSH☐ SFTP☐ SSL☐ Telnet**Question 75****1 / 1 pts**

You want to add five VMs on a server to the Staff VLAN at your office and two VMs to the Sales VLAN. Which of the following must your host machine's NIC support?

☐ MIMO**Correct!**☒ Trunking☐ Channel bonding☐ CSMA/CD☐ OSPF**Question 76****1 / 1 pts**

A regional bank manager asks you to help with an urgent network problem. Because of a sudden and severe network performance decline, the manager worries that the bank's network might be suffering a DoS attack. Viewing which of the following types of network documentation would probably give you the quickest insight into what's causing this problem?

**Correct!**

- ☐ Wiring diagram
- ☒ Firewall log
- ☐ Physical network diagram
- ☐ Logical network diagram
- ☐ The main file server's system log

**Question 77****1 / 1 pts**

While troubleshooting a computer's connection to the network, you enter a command at the Command Prompt and see the following output. Which command did you enter?

```
Default Server:  google-public-dns-a.google.com
Address:  8.8.8.8
>
```

- ☐ arp -a
- ☐ tracert google.com
- ☐ ping 8.8.8.8
- ☒ nslookup
- ☐ netstat

**Correct!****Question 78****1 / 1 pts**

Which of the following commands lists active TCP/IP connections on both Windows and Linux computers?

**Correct!**

- ☒ netstat
- ☐ hostname
- ☐ nslookup
- ☐ route
- ☐ ipconfig

### Question 79

**1 / 1 pts**

On which of the following devices would you *not* change the default administrative username and password when adding each device to your network?

**Correct!**

- ☐ Unmanaged switch
- ☒ Printer
- ☐ Programmable thermostat
- ☐ Router
- ☐ IP security camera

### Question 80

**1 / 1 pts**

Which of the following transmission media is most resistant to

**Correct!**

interference?

- ☐ Twinaxial cable
- ☐ 802.11ac transmissions
- ☒ Fiber-optic cable
- ☐ STP cable
- ☐ Coaxial cable

**Question 81****1 / 1 pts**

Which of the following cellular technologies uses time division to separate phone calls and Internet connections on a single channel?

**Correct!**

- ☐ LTE-Advanced
- ☒ GSM
- ☐ LTE
- ☐ SIM
- ☐ CDMA

**Question 82****1 / 1 pts**

While troubleshooting a printer problem, you figured out the printer's static IP address had not been reserved on the DHCP server and so was mistakenly issued to a workstation. This caused a conflict and

prevented users from accessing the printer. You have now configured the reservation in DHCP. What should you do next?

- ☐ Check that the printer is plugged into the wall outlet.
- ☐ Report your findings to the network admin.
- ☐ Close the service ticket.
- ☒ Confirm that users can now print successfully.

**Correct!**

### Question 83

1 / 1 pts

How does STP prevent or stop broadcast storms?

- ☐ It enables routers to choose one set of best paths and ensures that alternate paths are used only when the best paths are obstructed.
- ☐ It allows switches to monitor IP address assignments on a network.
- ☐ It examines the source IP address field in each broadcast packet and temporarily blocks traffic from that address.
- ☒ It enables switches to calculate paths that avoid potential loops and artificially blocks the links that would complete a loop.
- ☐ It lets switches filter RA messages so these messages can only come from specific interfaces on the switch.

**Correct!**

### Question 84

1 / 1 pts



What is the function of protocols and services at the network layer of the OSI model?

**Correct!**

- ☐ To apply electrical pulses to the wire
- ☒ To add logical addresses and properly route data
- ☐ To manage the flow of communications in both directions during a session
- ☐ To encode and encrypt data
- ☐ To add segmentation and assembly information

### Question 85

**1 / 1 pts**

You have created a new web server on a computer running the Linux operating system. Some of the modules aren't loading correctly, and services are encountering errors. Which of the following applications should you check for information on these errors?

**Correct!**

- ☐ NetFlow
- ☐ Packet sniffer
- ☐ Event Viewer
- ☒ Syslog
- ☐ IDS

**Question 86****1 / 1 pts**

Your 1000BASE-T network is wired following the TIA/EIA-568B standard. As you make your own patch cable, which wires do you crimp into pins 1 and 2 of the RJ-45 connector?

- ☐ White with green stripe and green
- ☐ White with red stripe and red
- ☐ White with blue stripe and blue
- ☒ White with brown stripe and brown
- ☐ White with orange stripe and orange

**Correct!****Question 87****1 / 1 pts**

Which authentication technology issues tickets to give clients access to network services?

- ☐ RADIUS
- ☐ Multifactor authentication
- ☒ Kerberos
- ☐ Diameter
- ☐ TACACS+

**Correct!**

**Question 88****1 / 1 pts**

Suppose your Windows laptop's wireless network adapter is configured to use the 802.11n wireless networking standard. Also, suppose a café you visit has a popular model of an 802.11ac access point. Assuming you have the correct SSID and logon credentials, what will most likely happen when you attempt to associate with the café's wireless network?



Your wireless networking client will be able to see the access point but will be unable to associate with it.



Your wireless networking client will not be able to see the access point.



Your wireless networking client will be able to see the access point and attempt to associate with it, but the incompatible frequencies will prevent successful association.



Your wireless networking client will be able to see the access point and attempt to associate with it, but the incompatible security techniques will prevent successful association.



Your wireless networking client will be able to see the access point and successfully associate with it.

**Correct!****Question 89****1 / 1 pts**

You have just rearranged the access points on your small office network. Now a group of employees complains that they cannot reliably get their workstations to connect with a new 802.11ac access point. You have confirmed that the workstations are using the correct SSID,

security type, and passphrase. You have also confirmed that the access point is turned on and functioning properly because when you stand in the computer room where it's located, you can connect to the access point from your smartphone. Which of the following is likely preventing the other users' workstations from associating with the new access point?

- ☐ The workstations are set to use 802.11g.
- ☐ The users are attempting to log on using incorrect user IDs.
- ☐ The workstations' wired NICs are causing addressing conflicts with their wireless NICs.
- ☒ The workstations are located beyond the access point's range.
- ☐ The users have turned off their wireless antennas.

**Correct!**

### Question 90

**1 / 1 pts**

With which of these utilities can you require a Windows 10 Professional user to create a password of at least eight characters?

- ☐ Netplwiz
- ☐ Virtmgmt.msc
- ☐ Devmgmt.msc
- ☒ Gpedit.msc
- ☐ Cmd

**Correct!**

**Question 91****1 / 1 pts**

Which protocol supports recovery of a router config file?

- ☐ SSH
- ☐ OID
- ☐ UPS
- ☐ SNMP
- ☒ TFTP

**Correct!****Question 92****1 / 1 pts**

Which of the following is a likely reason for using VLANs?

- ☐ To facilitate easier migration from IPv4 to IPv6 addressing
- ☐ To reduce the number of routing table entries
- ☐ To reduce the likelihood for user error when modifying TCP/IP properties
- ☒ To limit broadcast domains
- ☐ To enable DHCP on a network

**Correct!****Question 93****1 / 1 pts**

**Correct!**

Which of the following wireless security techniques uses both RADIUS and AES?

☒ WPA2-Enterprise

☐ WEP

☐ WPA

☐ WPA-Enterprise

☐ WPA2

**Question 94****1 / 1 pts**

Your company is experiencing a growth spurt and is ready to invest in a more sophisticated disaster recovery plan. Currently the backup plan consists of a few spare computers in a storage closet, and data on the servers is duplicated weekly to an off-site backup service. The company owners have committed to acquiring additional servers to duplicate critical servers in their current network, and they want the servers to be configured identically to the servers now in use. The new servers will be stored at an off-site data center and updated every time the on-site servers are updated. What type of disaster recovery site is your company creating?

- ☐ Cloud site
- ☐ Differential site
- ☐ Ambient site
- ☐ Hot site
- ☒ Warm site

**Correct!**

### Question 95

1 / 1 pts

A virtual switch includes several virtual ports, each of which can be considered a \_\_\_\_\_ .

- ☐ virtual router
- ☐ virtual gateway
- ☐ virtual hub
- ☐ virtual repeater

**Correct!**☒ virtual bridge**Question 96****1 / 1 pts**

Which OSI layer(s) operate differently in wired versus wireless network connections?

☐ Layers 1, 2, and 3☐ Layer 1☐ Layers 5, 6, and 7**Correct!**☒ Layers 1 and 2☐ Layer 2**Question 97****1 / 1 pts**

As a networking professional, you might use a multimeter to do which of the following?

☐  
Confirm that a fiber-optic cable can transmit signals from one node to another.☐  
Determine where the patch cable for a specific server terminates on the patch panel.**Correct!**☒



Verify that the amount of resistance presented by terminators on coaxial cable networks is appropriate.



Check for the presence of noise on a wire (by detecting extraneous voltage)



Validate the processing capabilities of a new router.

### Question 98

1 / 1 pts

You're setting up a wireless network for a coffee shop and want to provide some liability protection for the shop owners when customers use their Wi-Fi Internet access. Which of the following tools will provide this protection while still allowing customers convenient access to the Internet?



EAPoL



Captive portal



MAC filter



ACL



WPA2

Correct!

### Question 99

1 / 1 pts

What type of device does this icon represent on a network diagram?



**Correct!**

- ☐ Internet
- ☐ Router
- ☐ Firewall
- ☒ Access point
- ☐ Switch

**Question 100****1 / 1 pts**

While configuring your new SOHO router, you're given several security options. Which one would provide the most secure encryption of your transmissions?

**Correct!**

- ☐ WEP
- ☒ AES
- ☐ TKIP
- ☐ RC4
- ☐ PSK

Quiz Score: **98** out of 100