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QUESTION 1
A network administrator receives a ticket from one of the company's offices about video calls that work normally for one minute and then get very choppy. The network administrator pings the video server from that site to ensure that it is reachable:

```
Ping 10.172.16.16
Pinging 10.172.16.16 with 32 bytes of data:
Reply from 10.172.16.16: bytes=32 time=40ms TTL=53
Reply from 10.172.16.16: bytes=32 time=11ms TTL=53
Reply from 10.172.16.16: bytes=32 time=672ms TTL=53
Reply from 10.172.16.16: bytes=32 time=111ms TTL=53
Reply from 10.172.16.16: bytes=32 time=117ms TTL=53
Reply from 10.172.16.16: bytes=32 time=849ms TTL=53
Reply from 10.172.16.16: bytes=32 time=34ms TTL=53
Reply from 10.172.16.16: bytes=32 time=92ms TTL=53
```

Which of the following is **most** likely the cause of the video call issue?

A. Throughput
B. Jitter
C. Latency
D. Loss

Answer: B
Explanation:
The wildly varying ping response times (from 11 ms up to 849 ms) indicate high packet-delay variation, which causes the video stream to become choppy after a short period. That fluctuation in latency is known as jitter.

QUESTION 2
A network architect is designing a solution to place network core equipment in a rack inside a data center. This equipment is crucial to the enterprise and must be as secure as possible to minimize the chance that anyone could connect directly to the network core. The current security setup is:

```
- In a locked building that requires sign in with a guard and
identification check.
- In a locked data center accessible by a proximity badge and
fingerprint scanner.
- In a locked cabinet that requires the security guard to call the
Chief Information Security Officer (CISO) to get permission to provide
the key.
```

Which of the following additional measures should the architect recommend to make this equipment more secure?

A. Make all engineers with access to the data center sign a statement of work.
B. Set up a video surveillance system that has cameras focused on the cabinet.

C. Have the CISO accompany any network engineer that needs to do work in this cabinet.
D. Require anyone entering the data center for any reason to undergo a background check.

Answer: B
Explanation:
Recording and monitoring all activity at the cabinet greatly strengthens security by providing a real- time deterrent, an audit trail of who accessed it and when, and forensic evidence if an incident ever occurs.

QUESTION 3
An organization has centralized logging capability at the on-premises data center and wants a solution that can consolidate logging from deployed cloud workloads. The organization would like to automate the detection and alerting mechanism. Which of the following best meets the requirements?

A. IDS/IPS
B. SIEM
C. Data lake
D. Syslog

Answer: B
Explanation:
A Security Information and Event Management system ingests and normalizes logs from on-premises and cloud sources, applies automated correlation rules for detection, and issues alerts, exactly matching the need for centralized logging, analysis, and automated notification.

QUESTION 4
Security policy states that all inbound traffic to the environment needs to be restricted, but all external outbound traffic is allowed within the hybrid cloud environment. A new application server was recently set up in the cloud. Which of the following would most likely need to be configured so that the server has the appropriate access set up? (Choose two.)

A. Application gateway
B. IPS
C. Port security
D. Firewall
E. Network security group
F. Screened subnet

Answer: DE
Explanation:
A perimeter firewall enforces the organization's "deny inbound by default, allow all outbound" policy at the edge of the cloud environment, while an Azure-style NSG applies the same rule set at the VM/subnet level. Together they ensure no inbound connections slip through and that outbound traffic remains unrestricted.

QUESTION 5
A company is experiencing multiple switch failures. The network analyst discovers the following:

```
- Network recovery time is unacceptable and occurs after the shutdown
of some switches.
```

```
- Some loops were detected in the network.
- No broadcast storm was detected.
```

Which of the following is the **most** cost-effective solution?

A. Add a new Layer 3 switch.
B. Add multiple VLANs.
C. Implement STP.
D. Implement tagging.

Answer: C
Explanation:
Spanning Tree Protocol prevents and automatically resolves layer-2 loops without requiring new hardware. It also improves convergence times after a link or switch failure, meeting the recovery and loop-avoidance requirements most cost-effectively.

QUESTION 6
An architect needs to deploy a new payroll application on a cloud host. End users' access to the application will be based on the end users' role. In addition, the host must be deployed on the 192.168.77.32/30 subnet. Which of the following Zero Trust elements are being implemented in this design? (Choose two.)

A. Least privilege
B. Device trust
C. Microsegmentation
D. CASB
E. WAF
F. MFA

Answer: AC
Explanation:
Least privilege: Granting users access to the payroll app strictly according to their roles enforces the principle of least privilege.

Microsegmentation: Placing the host in its own 192.168.77.32/30 subnet isolates it from other workloads, achieving microsegmentation.

QUESTION 7
A network architect is creating a network topology for a global SD-WAN deployment. The business has offices in Asia, Europe, and the United States and makes use of data centers in the United States and Europe. Most traffic between sites must have the lowest latency possible. Which of the following topologies best meets this requirement?

A. Star
B. Spine-and-leaf
C. Mesh
D. Hub-and-spoke

Answer: C
Explanation:
A full-mesh SD-WAN topology allows each site to establish direct overlays with every other site, minimizing the number of hops and avoiding backhauling through a central hub, thereby

delivering the lowest latency paths between Asia, Europe, and the US.

QUESTION 8
A network administrator is troubleshooting an outage at a remote site. The administrator examines the logs and determines that one of the internet links at the site appears to be down. After the service provider confirms this information, the administrator fails over traffic to the backup link.
Which of the following should the administrator do next?

A. Document the lessons learned.
B. Establish a plan of action.
C. Identify the problem.
D. Verify full system functionality.

Answer: D
Explanation:
After implementing the failover solution, you should confirm that all services and network paths are fully restored and operating correctly before closing the ticket.

QUESTION 9
A network architect is designing an expansion solution for the branch office network and requires the following business outcomes:

```
- Maximize cost savings with reduced administration overhead
- Easily expand connectivity to the cloud
- Use cloud-based services to the branch offices
```

Which of the following should the architect do to **best** meet the requirements?

A. Design a SD-WAN solution to integrate with the cloud provider; use SD-WAN to connect branch offices to the cloud provider.
B. Design point-to-site branch connectivity for offices to headquarters; deploy ExpressRoute and/or DirectConnect between headquarters and the cloud; use headquarters connectivity to connect to the cloud provider.
C. Design an MPLS architecture for the branch offices and site-to-site VPN between headquarters and branch offices; use site-to-site connectivity to the cloud provider.
D. Design a dark fiber solution for headquarters and branch offices' connectivity; deploy point-to-site VPN between headquarters and the cloud provider; use the headquarters connectivity to the cloud provider.

Answer: A
Explanation:
By deploying SD-WAN you centrally manage and orchestrate all branch connections, minimizing administration overhead, while establishing direct, optimized tunnels into the cloud provider for low- latency, scalable access to cloud services.

QUESTION 10
A network engineer is designing a Layer 2 deployment for a company that occupies several floors in an office building. The engineer decides to make each floor its own VLAN but still allow for communication between all user VLANs. The engineer also wants to reduce the time necessary for STP convergence to occur when new switches come online. Which of the following should the engineer enable to accomplish this goal?

A. BPDU Guard
B. Priority
C. Tagging
D. Portfast

Answer: D
Explanation:
Enabling PortFast on access ports lets them immediately enter the forwarding state, skipping the STP listening/learning timers, and dramatically speeds up convergence when switches or end-stations come online.

QUESTION 11
After a malicious actor used an open port in a company's lobby, a network architect needs to enhance network security. The solution must enable:

```
- Security posture check
- Auto remediation capabilities
- Network isolation
- Device and user authentication
```

Which of the following technologies **best** meets these requirements?

A. IPS
B. Microsegmentation
C. 802.1X
D. NAC

Answer: D
Explanation:
NAC solutions perform health-and-posture assessments before granting network access, authenticate both devices and users, automatically quarantine or remediate noncompliant machines, and enforce dynamic isolation policies, fully satisfying all four requirements.

QUESTION 12
A company deployed new applications in the cloud and configured a site-to-site VPN to connect the internal data center with the cloud. The IT team wants the internal servers to connect to those applications without using public IP addresses. Which of the following is the best solution?

A. Create a DNS server in the cloud. Configure the DNS server in the customer data center to forward DNS requests for cloud resources to the cloud DNS server.
B. Configure a NAT server on the cloud to allow internal servers to connect to the applications through the NAT server.
C. Register applications on the cloud with a public DNS sever and configure internal servers to connect to them using their public DNS names.
D. Configure proxy service in the site-to-site VPN to allow internal servers to access applications through the proxy.

Answer: A
Explanation:
By forwarding only the cloud application DNS queries to a cloud-hosted DNS zone that returns private IP addresses, your internal servers will resolve and connect over the site-to-site VPN

without ever touching public IPs.

QUESTION 13
An outage occurred after a software upgrade on core switching. A network administrator thinks that the firmware installed had a bug. Which of the following should the network administrator do next?

A. Establish a plan of action to resolve the issue.
B. Test the theory to determine cause.
C. Document lessons learned.
D. Implement the solution.

Answer: B
Explanation:
Before taking corrective action, you need to verify that the new firmware is indeed the root cause, such as by rolling back to the previous version in a controlled test or reproducing the failure in a lab, so you're sure your fix addresses the actual problem.

QUESTION 14
A company is replacing reserved public IP addresses with dynamic IP addresses. The network architect creates a list of assets with some dependencies to these reserved IPs:

IP	Used by
IP_US_Reserved_A	Allow rule on NSG_1
IP_CA_Reserved_B	Allow rule on NSG_2
IP_BR_Reserved_C	VM A - Network Interface 1
IP_BR_Reserved_D	Network Load Balancer IP 1
IP_GB_Reserved_E	Not allocated

Which of the following issues may begin to affect cloud assets after the replacement is made?

A. IP asymmetric routing
B. IP spoofing
C. IP exhaustion
D. IP reuse

Answer: D
Explanation:
Once you switch those public IPs from reserved (static) to dynamic, the cloud provider can reassign them to other tenants as soon as you deallocate. That "reuse" can lead to unexpected conflicts and broken security rules (for example your NSG allow lists still pointing to the old IPs might suddenly open traffic to an unrelated resource).

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