

**Q1:**

Your company hosts a web application on EC2 instances. You want the application to be **secure from the internet**, but still allow it to fetch updates from external sources. What is the best setup?

- A) Public subnet only
  - B) Private subnet with NAT Gateway
  - C) Public subnet with NAT Instance
  - D) VPC Endpoint only
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**Q2:**

You have two VPCs: one for **development** and one for **production**. Developers need private access to production resources for testing. How can you achieve this?

- A) VPN between VPCs
  - B) VPC Peering
  - C) Route 53 simple routing
  - D) CloudFront
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**Q3:**

Your company has employees working from home who need access to internal AWS resources. You don't want to expose the resources publicly. Which AWS service should you use?

- A) Site-to-Site VPN
  - B) Client VPN
  - C) Transit Gateway
  - D) ELB
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**Q4:**

Your web application experiences sudden traffic spikes. You want to **distribute traffic automatically** and ensure no single server is overwhelmed. Which solution is best?

- A) CloudFront
  - B) Elastic Load Balancer with Auto Scaling
  - C) VPC Peering
  - D) Direct Connect
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**Q5:**

You operate a **global e-commerce site** and notice users in Asia are experiencing high latency when accessing your US-hosted servers. How can you improve performance?

- A) Use Global Accelerator
  - B) Use a NAT Gateway
  - C) Enable Site-to-Site VPN
  - D) Launch VPC Peering
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**Q6:**

Your company wants to serve **video content to millions of users worldwide**. The content is large, and you want fast delivery. Which AWS service is most suitable?

- A) ELB
  - B) CloudFront
  - C) Route 53 Latency Routing
  - D) NAT Gateway
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**Q7:**

You have a website with both **static content (images, HTML)** and **dynamic content (user-specific pages)**. You want to improve performance for users worldwide. What is the best approach?

- A) CloudFront for static content + ELB for dynamic content
- B) Only ELB
- C) Only Route 53
- D) Site-to-Site VPN

**Q8:**

Your company has deployed applications in **multiple AWS regions**. You want users to connect to the region with the **lowest latency automatically**. Which service and routing policy should you use?

- A) Route 53 + Latency Routing
  - B) Route 53 + Weighted Routing
  - C) ELB + Auto Scaling
  - D) CloudFront + Geo-Restriction
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**Q9:**

You want to ensure traffic is **redirected away from unhealthy servers automatically**. Which AWS feature helps?

- A) Route 53 Health Checks
  - B) Security Groups
  - C) CloudFront Edge Locations
  - D) NAT Gateway
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**Q10:**

A VPC hosts a **private database**. You want EC2 instances in that VPC to access **S3 securely without using the internet**. Which solution is best?

- A) NAT Gateway
- B) VPC Endpoint (PrivateLink)
- C) Client VPN
- D) Direct Connect

**Q11:**

Your company wants a database in AWS to **remain private**, but the application server must access it. Which setup is best?

- A) Public subnet database + Internet Gateway
  - B) Private subnet database + Security Group allowing app server access
  - C) NAT Gateway only
  - D) CloudFront for database access
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**Q12:**

You need to connect **two VPCs in different AWS accounts** privately. What should you use?

- A) VPC Peering
  - B) ELB
  - C) Site-to-Site VPN
  - D) CloudFront
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**Q13:**

Employees are working remotely and need **secure access to internal AWS applications**. Which service should you deploy?

- A) Transit Gateway
- B) Client VPN

- C) NAT Gateway
  - D) VPC Peering
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**Q14:**

Your global e-learning platform hosts videos. Students report **slow streaming** in Europe and Asia. Which service improves performance?

- A) ELB
  - B) CloudFront
  - C) Site-to-Site VPN
  - D) NAT Gateway
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**Q15:**

Your website has millions of users, and you want to **route traffic to the nearest healthy server automatically**. Which service should you use?

- A) Global Accelerator
- B) ELB
- C) Route 53 Simple Routing
- D) VPC Endpoint

**Q16:**

You operate an online shop. During sales, web traffic spikes significantly. You want to **ensure high availability and distribute traffic evenly across instances**. Which setup is best?

- A) Single EC2 instance in a public subnet
  - B) Elastic Load Balancer + Auto Scaling across multiple AZs
  - C) NAT Gateway + CloudFront
  - D) Client VPN only
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**Q17:**

You have applications deployed in **US East and EU West regions**. You want users to connect to the region with the **lowest latency**. Which service and policy should you use?

- A) Route 53 + Latency Routing
- B) Route 53 + Weighted Routing
- C) ELB + health checks
- D) CloudFront + geo-restriction

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**Q18:**

You want to **automatically redirect users from unhealthy servers** to healthy ones. Which AWS feature is best?

- A) ELB Health Checks
  - B) Route 53 Health Checks
  - C) Security Groups
  - D) VPC Flow Logs
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**Q19:**

An application in a **private subnet** needs to access **S3 securely without internet exposure**. What is the recommended solution?

- A) NAT Gateway
  - B) VPC Endpoint (PrivateLink)
  - C) CloudFront
  - D) Client VPN
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**Q20:**

Your company has **multiple VPCs and on-premises networks**. You want a **central hub** to simplify connections and manage routing efficiently. Which service should you use?

- A) VPC Peering
- B) Transit Gateway
- C) Client VPN
- D) CloudFront

**Q21: What is the purpose of a VPC (Virtual Private Cloud)?**

- A) Store files securely in the cloud
  - B) Create an isolated network environment in AWS
  - C) Distribute traffic across EC2 instances
  - D) Monitor user activity in AWS
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**Q22:** Which AWS service acts as a **virtual firewall at the instance level**?

- A) Network ACL
  - B) Security Group
  - C) Internet Gateway
  - D) NAT Gateway
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**Q23:** A **subnet** is used to:

- A) Connect two VPCs
  - B) Isolate and group resources within a VPC
  - C) Enable global content delivery
  - D) Monitor network traffic
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**Q24:** What is the main function of a **Route Table** in a VPC?

- A) Secure the instance
  - B) Control traffic flow between subnets and the internet
  - C) Store encrypted data
  - D) Accelerate global application traffic
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**Q25:** Which AWS component **enables instances in a public subnet to access the internet**?

- A) NAT Gateway
  - B) Internet Gateway
  - C) Security Group
  - D) Client VPN
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**Q26:** Which of the following allows **instances in private subnets to access the internet** without exposing them?

- A) Internet Gateway
  - B) NAT Gateway or NAT Instance
  - C) VPC Peering
  - D) Direct Connect
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**Q27:** What is a **VPC Peering connection** used for?

- A) Deliver content globally to users
  - B) Securely connect two VPCs to communicate privately
  - C) Connect remote employees to AWS
  - D) Encrypt traffic within a VPC
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**Q28:** What is **AWS Direct Connect** used for?

- A) Content delivery to users worldwide
  - B) Dedicated private network connection from on-premises to AWS
  - C) Load balancing traffic between EC2 instances
  - D) Encrypting data in S3
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**Q29:** Which AWS service provides a **secure connection for individual remote users** to connect to a VPC?

- A) Site-to-Site VPN
  - B) Client VPN
  - C) NAT Gateway
  - D) CloudFront
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**Q30:** What is the difference between a **Network ACL** and a **Security Group**?

- A) ACL = instance-level, SG = subnet-level
  - B) ACL = subnet-level, SG = instance-level
  - C) ACL = internet access, SG = private access only
  - D) ACL = CDN traffic, SG = VPN traffic
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**Q31** A company wants to map `www.example.com` to a single EC2 instance with no special routing logic. Which Route 53 routing policy should they use?

- A) Weighted
  - B) Simple
  - C) Latency-based
  - D) Multi-value
-

**Q32.** A company wants to test a new version of its application by sending 20% of traffic to the new environment and 80% to the old one. Which routing policy should they choose?

- A) Failover
  - B) Weighted
  - C) Latency-based
  - D) Geolocation
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**Q33.** An e-commerce website has customers in the US and Asia. They want each user directed to the AWS Region with the lowest network latency. Which routing policy should be used?

- A) Simple
  - B) Geolocation
  - C) Latency-based
  - D) Multi-value
- 

**Q34.** A company needs a **disaster recovery setup**: traffic should normally go to the primary site, but if health checks fail, traffic should shift to a backup site. Which routing policy should they use?

- A) Failover
  - B) Weighted
  - C) Geolocation
  - D) Multi-value
-



1. Your company suspects unauthorized API calls were made to terminate some EC2 instances. Which service should you check to find **who made the calls**?

- A) CloudWatch Logs
  - B) CloudTrail
  - C) VPC Flow Logs
  - D) GuardDuty
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2. You need to block a malicious IP address 203.0.113.25 from accessing **any resource in a subnet**. Security groups are not practical. What should you use?

- A) Add a deny rule in the subnet's NACL
  - B) Remove the route to the internet gateway
  - C) Use Route 53 to block DNS queries
  - D) Enable AWS Config
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3. Developers accidentally opened port 22 (SSH) to the world on a security group. You want to **automatically detect and flag** this issue. Which service is best?

- A) AWS Config
  - B) VPC Flow Logs
  - C) CloudWatch Logs
  - D) Trusted Advisor
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4. You want to monitor all **rejected connection attempts** made to EC2 instances in a private subnet. Which service should you use?

- A) CloudTrail
  - B) VPC Flow Logs
  - C) CloudWatch Metrics
  - D) Global Accelerator
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5. Your application requires **millions of requests per second** with very low latency at Layer 4. Which load balancer should you choose?

- A) Application Load Balancer
- B) Network Load Balancer
- C) Classic Load Balancer
- D) CloudFront

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6. Your company hosts a web application on EC2. The servers should be **reachable over HTTP/HTTPS from the internet**, but SSH must be limited only to your office IP 197.45.88.10/32. Which security group setup is correct?

- A) Inbound 0.0.0.0/0 for all ports
  - B) Inbound 0.0.0.0/0 for HTTP/HTTPS, 197.45.88.10/32 for SSH
  - C) Inbound 0.0.0.0/0 for SSH, HTTP, HTTPS
  - D) Inbound 197.45.88.10/32 for all ports
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7. Users in Asia complain of **high latency** when accessing your US-hosted application. Which AWS service reduces latency by routing traffic via the AWS global backbone network?

- A) Route 53 Simple Routing
  - B) CloudFront
  - C) Global Accelerator
  - D) Transit Gateway
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8. You have a VPC with both public and private subnets. You want your **web servers accessible from the internet**, while your **databases stay private** but still communicate with the web servers. Which setup is correct?

- A) Deploy all resources in one large private subnet
- B) Deploy web servers in the public subnet and databases in the private subnet
- C) Deploy both web servers and databases in the public subnet
- D) Deploy databases in the public subnet but restrict with security groups

9. What is the difference between a **Network ACL** and a **Security Group**?

- A) ACL = instance-level, SG = subnet-level
- B) ACL = subnet-level, SG = instance-level
- C) ACL = internet access, SG = private access only
- D) ACL = CDN traffic, SG = VPN traffic

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**12.** An e-commerce website has customers in the US and Asia. They want each user directed to the AWS Region with the lowest network latency. Which routing policy should be used?

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