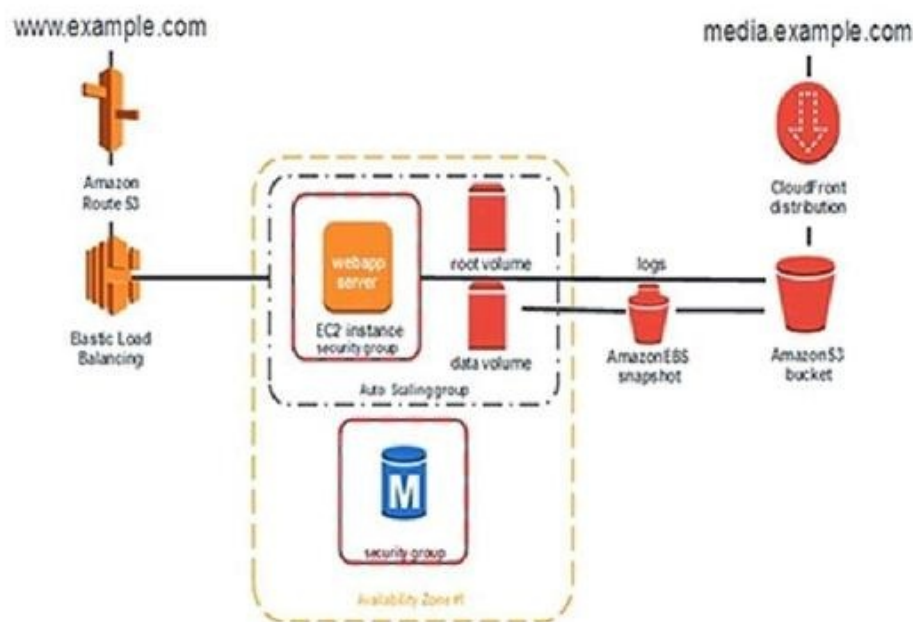


AWS Certified Solutions Architect

Associate Practice Questions



Shaun Hummel

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AWS Certified Solutions Architect

Associate Practice Questions

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About The Author

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Introduction

The skills required for information technology are changing rapidly with cloud computing and network programmability. The virtualization of servers, applications and network devices is causing an overlap of management domains for network, systems and security engineers. The network devices and applications now reside at network servers as virtual machines (VM). In addition there is a shift toward an internet-based connectivity model that is changing how the network is managed. The server-centric architecture redefines how network capacity is managed as well. There are newer virtualized management solutions have been developed for integrating physical and virtual platforms.

Each group must develop new skills for virtualization, server-based troubleshooting and cloud management. The virtualization of applications and devices allow for an on-demand connectivity and operational model. It is characterized by a dynamic, elastic, scalable architecture that is hardware independent. The new networking paradigm uses Open APIs, overlays and SDN programmable network devices. The virtualization overlay abstracts the underlying network infrastructure from the application layer. The virtualization architecture is now enabling seamless access and global connectivity of enterprise and cloud data center applications. The increasing popularity of cloud computing is the result of an operational model that now has companies migrating data center applications to cloud facilities. **According to a study almost 70% of all IP internet traffic will terminate at a cloud facility by 2018.**

AWS certification has become popular as a training platform for systems administrators, engineers and architects. Candidates must answer technical questions and have the skills required to select, deploy, integrate and maintain AWS cloud solutions. The study guide is comprised of 300+ practice questions. All questions are based on official AWS certification guidelines that cover all exam topics required to pass *AWS Certified Solutions Architect Associate* exam.

AWS Certified Solutions Architect: Associate Exam

Read each question carefully and select the correct answer/s from the options provided. Use a text editor (notepad) to record your answers for each question.

EC2 Compute

Question 1:

What three attributes are selectable when creating an EBS volume for an EC2 instance?

- A. volume type
- B. IOPS
- C. region
- D. CMK
- E. ELB
- F. EIP

Question 2:

You have been asked to migrate a 10 GB unencrypted EBS volume to an encrypted volume for security purposes. What are three key steps required as part of the migration?

- A. pause the unencrypted instance
- B. create a new encrypted volume of the same size and availability zone
- C. create a new encrypted volume of the same size in any availability zone
- D. start converter instance
- E. shutdown and detach the unencrypted instance

Question 3:

What is EC2 instance protection?

- A. prevents Auto Scaling from selecting specific EC2 instance to be replaced when scaling in
- B. prevents Auto Scaling from selecting specific EC2 instance to be replaced when scaling out
- C. prevents Auto Scaling from selecting specific EC2 instance for termination when scaling out
- D. prevents Auto Scaling from selecting specific EC2 instance for termination when scaling in
- E. prevents Auto Scaling from selecting specific EC2 instance for termination when paused
- F. prevents Auto Scaling from selecting specific EC2 instance for termination when stopped

Question 4:

What two features are supported with EBS volume Snapshot feature?

- A. EBS replication across regions
- B. EBS multi-zone replication
- C. EBS single region only
- D. full snapshot data only
- E. unencrypted snapshot only

Question 5:

What two resource tags are supported for an EC2 instance?

- A. VPC endpoint
- B. EIP
- C. network interface
- D. security group
- E. Flow Log

Question 6:

What two options are available to alert tenants when an EC2 instance is terminated?

- A. SNS
- B. CloudTrail
- C. Lambda function
- D. SQS
- E. STS

Question 7:

What class of EC2 instance type is recommended for running data analytics?

- A. memory optimized
- B. compute optimized
- C. storage optimized
- D. general purpose optimized

Question 8:

What class of EC2 instance type is recommended for database servers?

- A. memory optimized
- B. compute optimized
- C. storage optimized
- D. general purpose optimized

Question 9:

What two attributes distinguish each pricing model?

- A. reliability
- B. amazon service
- C. discount
- D. performance
- E. redundancy

Question 10:

What are three standard AWS pricing models?

- A. elastic
- B. spot
- C. reserved
- D. dynamic
- E. demand

Question 11:

How is an EBS root volume created when launching an EC2 instance from a new EBS-backed AMI?

- A. S3 template
- B. original AMI
- C. snapshot
- D. instance store

Question 12:

What Amazon AWS sources are available for creating an EBS-Backed Linux AMI? (select two)

- A. EC2 instance
- B. Amazon SMS
- C. VM Import/Export
- D. EBS Snapshot
- E. S3 bucket

Question 13:

What is required to prevent an instance from being launched and incurring costs?

- A. stop instance
- B. terminate instance
- C. terminate AMI and de-register instance
- D. stop and de-register instance
- E. stop, deregister AMI and terminate instance

Question 14:

What is an EBS Snapshot?

- A. backup of an EBS root volume and instance data
- B. backup of an EC2 instance
- C. backup of configuration settings
- D. backup of instance store

Question 15:

Where are ELB and Auto-Scaling groups deployed as a unified solution for horizontal scaling?

- A. database instances
- B. all instances
- C. web server instances
- D. default VPC only

Question 16:

What feature is supported when attaching or detaching an EBS volume from an EC2 instance?

- A. EBS volume can be attached and detached to an EC2 instance in the same region
- B. EBS volume can be attached and detached to an EC2 instance that is cross-region
- C. EBS volume can only be copied and attached to an EC2 instance that is cross-region
- D. EBS volume can only be attached and detached to an EC2 instance in the same Availability Zone

Question 17:

What two statements correctly describe how to add or modify IAM roles to a running EC2 instance?

- A. attach an IAM role to an existing EC2 instance from the EC2 console
- B. replace an IAM role attached to an existing EC2 instance from the EC2 console
- C. attach an IAM role to the user account and relaunch the EC2 instance
- D. add the EC2 instance to a group where the role is a member

Question 18:

What is the default behavior for an EC2 instance when terminated? (Select two)

- A. *DeleteOnTermination* attribute cannot be modified
- B. EBS root device volume and additional attached volumes are deleted immediately
- C. EBS data volumes that you attach at launch persist
- D. EBS root device volume is automatically deleted when instance terminates

Question 19:

How do you launch an EC2 instance after it is terminated? (Select two)

- A. launch a new instance using the same AMI
- B. reboot instance from CLI
- C. launch a new instance from a Snapshot
- D. reboot instance from management console
- E. contact AWS support to reset

Question 20:

What service can automate EBS snapshots (backups) for restoring EBS volumes?

- A. CloudWatch event
- B. SNS topic
- C. CloudTrail
- D. Amazon Inspector
- E. CloudWatch alarm

Question 21:

What will cause AWS to terminate an EC2 instance on launch? (Select two)

- A. security group error
- B. number of EC2 instances on AWS account exceeded
- C. EBS volume limits exceeded
- D. multiple IP addresses assigned to instance
- E. unsupported instance type assigned

Question 22:

You recently made some configuration changes to an EC2 instance. You then launched a new EC2 instance from the same AMI however none of the settings were saved. What is the cause of this error?

- A. did not save configuration changes to EC2 instance
- B. did not save configuration changes to AMI
- C. did not create new AMI
- D. did not reboot EC2 instance to enable changes

Question 23:

What statements are correct concerning *DisableApiTermination* attribute? (Select two)

- A. cannot enable termination protection for Spot instances
- B. termination protection is disabled by default for an EC2 instance
- C. termination protection is enabled by default for an EC2 instance
- D. can enable termination protection for Spot instances
- E. *DisableApiTermination* attribute supported for EBS-backed instances only

Question 24:

What is required to copy an encrypted EBS snapshot cross-account? (Select two)

- A. copy the unencrypted EBS snapshot to an S3 bucket
- B. distribute the custom key from CloudFront
- C. share the custom key for the snapshot with the target account
- D. share the encrypted EBS snapshot with the target account
- E. share the encrypted EBS snapshots publicly
- F. enable root access security on both accounts

Question 25:

What three services enable Single-AZ as a default?

- A. EC2
- B. ELB
- C. Auto-Scaling
- D. DynamoDB
- E. S3

Question 26:

What AWS service automatically publishes access logs every five minutes?

- A. VPC Flow Logs
- B. Elastic Load Balancer
- C. CloudTrail
- D. DNS Route 53

Question 27:

You have developed a web-based application for file sharing that will allow customers to access files. There are a variety of sizes that include larger .pdf and video files. What two solution stacks could tenants use for an online file sharing service? (Select two)

- A. EC2, ELB, Auto-Scaling, S3
- B. Route 53, Auto-Scaling, DynamoDB
- C. EC2, Auto-Scaling, RDS
- D. CloudFront

Question 28:

What infrastructure services are provided to EC2 instances? (Select three)

- A. VPN
- B. storage
- C. compute
- D. transport
- E. security
- F. support

Question 29:

What steps are required from AWS console to copy an EBS-backed AMI for a database instance cross-region?

- A. create Snapshot of data volume, select Copy, select destination region
- B. select Copy EBS-backed AMI option and destination region
- C. select copy database volume and destination region
- D. create Snapshot of EBS-backed AMI, select Copy Snapshot option, select destination region
- E. create Snapshot of Instance-store AMI, select Copy AMI option, select destination region

Question 30:

How is capacity (compute, storage and network speed) managed and assigned to EC2 instances?

- A. AMI
- B. instance type
- C. IOPS
- D. Auto-Scaling

Question 31:

What storage type enable permanent attachment of volumes to EC2 instances?

- A. S3
- B. RDS
- C. TDS
- D. EBS
- E. instance store

Question 32:

What is the recommended method for migrating (copying) an EC2 instance to a different region?

- A. terminate instance, select region, copy instance to destination region
- B. select AMI associated with EC2 instance and use *Copy AMI* option
- C. stop instance and copy AMI to destination region
- D. cross-region copy is not currently supported

Question 33:

What are two attributes that define an EC2 instance type?

- A. vCPU
- B. license type
- C. EBS volume storage
- D. IP address
- E. Auto-Scaling

Question 34:

How is an Amazon Elastic Load Balancer (ELB) assigned?

- A. per EC2 instance
- B. per Auto-Scaling group
- C. per subnet
- D. per VPC

Question 35:

What method detects when to replace an EC2 instance that is assigned to an Auto-Scaling group?

- A. health check
- B. load balancing algorithm
- C. EC2 health check
- D. not currently supported
- E. dynamic path detection
- F. Auto-Scaling

Question 36:

What two statements correctly describe Auto-Scaling groups?

- A. horizontal scaling of capacity
- B. decrease number of instances only
- C. EC2 instances are assigned to a group
- D. database instances only
- E. no support for multiple availability zones

Question 37:

What is the default maximum number of Elastic IP addresses assignable per Amazon AWS region?

- A. 1
- B. 100
- C. 5
- D. unlimited

Question 38:

How are snapshots for an EBS volume created when it is the root device for an instance?

- A. pause instance, unmount volume and snapshot
- B. terminate instance and snapshot
- C. unencrypt volume and snapshot dynamically
- D. stop instance, unmount volume and snapshot

Question 39:

What cloud compute components are configured by tenants and not Amazon AWS support engineers? (Select three)

- A. hypervisor
- B. upstream physical switch
- C. virtual appliances
- D. guest operating system
- E. applications and databases
- F. RDS

Question 40:

What three attributes are used to define a launch configuration template for an Auto-Scaling group?

- A. instance type
- B. private IP address
- C. Elastic IP
- D. security group
- E. AMI

Question 41:

What three characteristics or limitations differentiate EC2 instance types?

- A. VPC only
- B. application type
- C. EBS volume only
- D. virtualization type
- E. AWS service selected

Question 42:

Select two difference between HVM and PV virtualization types?

- A. HVM supports all current generation instance types
- B. HVM is similar to bare metal hypervisor architecture
- C. PV provides better performance than HVM for most instance types
- D. HVM doesn't support enhanced networking
- E. HVM doesn't support current generation instance types

Virtual Private Cloud (VPC)

Question 1:

What are the minimum components required to enable a web-based application with public web servers and a private database tier? (Select three)

- A. Internet gateway
- B. Assign EIP addressing to database instances on private subnet
- C. Virtual private gateway
- D. Assign database instances to private subnet and private IP addressing
- E. Assign EIP and private IP addressing to web servers on public subnet

Question 2:

Refer to the network drawing. How are packets routed from private subnet to public subnet for the following web-based application with a database tier?

- A. Internet gateway
- B. custom route table
- C. 10.0.0.0/16
- D. nat-instance-id
- E. igw-id
- F. add custom route table

Question 3:

What VPC component provides Network Address Translation?

- A. NAT instance
- B. NAT gateway
- C. virtual private gateway
- D. Internet gateway
- E. ECS

Question 4:

What are the advantages of NAT gateway over NAT instance? (Select two)

- A. NAT gateway requires a single EC2 instance
- B. NAT gateway is scalable
- C. NAT gateway translates faster
- D. NAT gateways is a managed service
- E. NAT gateway is Linux-based

Question 5:

What is the management responsibility of tenants and not Amazon AWS?

- A. EC2 instances
- B. RDS
- C. Beanstalk
- D. NAT instance

Question 6:

What two features provide an encrypted (VPN) connection from VPC to an enterprise data center?

- A. Internet gateway
- B. Amazon RDS
- C. Virtual private gateway
- D. CSR 1000V router
- E. NAT gateway

Question 7:

What two attributes are supported when configuring an Amazon Virtual private gateway (VPG)?

- A. route propagation
- B. Elastic IP (EIP)
- C. DHCP
- D. public IPv4 address
- E. public subnets

Question 8:

What two features are available with AWS Direct Connect service?

- A. internet access
- B. extend on-premises VLANs to cloud
- C. bidirectional forwarding detection (BFD)
- D. load balancing between Direct Connect and VPN connection
- E. public and private AWS services

Question 9:

When is Direct Connect a preferred solution over VPN IPsec?

- A. fast and reliable connection
- B. redundancy is a key requirement
- C. fast and easy to deploy
- D. layer 3 connectivity
- E. layer 2 connectivity

Question 10:

You have been asked to setup a VPC endpoint connection between VPC and S3 buckets for storing backups and snapshots. What AWS components are currently required when configuring a VPC endpoint?

- A. Internet gateway
- B. NAT instance
- C. Elastic IP
- D. private IP address

Question 11:

What are the primary advantages of VPC endpoints? (Select two)

- A. reliability
- B. cost
- C. throughput
- D. security

Question 12:

What are the DHCP option attributes used to assign private DNS servers to your VPC?

- A. dns resolution and domain name
- B. hostnames and internet domain
- C. domain servers and domain name
- D. domain-name-servers and domain-name

Question 13:

What DNS attributes are configured when **Default VPC** option is selected?

- A. DNS resolution: **yes** / DNS hostnames: **yes**
- B. DNS resolution: **yes** / DNS hostnames: **no**
- C. DNS resolution: **no** / DNS hostnames: **yes**
- D. DNS resolution: **no** / DNS hostnames: **no**

Question 14:

What configuration settings are required from the remote VPC in order to create cross-account peering? (Select three)

- A. VPC ID
- B. account username
- C. account ID
- D. CMK keys
- E. VPC CIDR block
- F. volume type

Question 15:

What CIDR block range is supported for IPv4 addressing and subnetting within a single VPC?

- A. /16 to /32
- B. /16 to /24
- C. /16 to /28
- D. /16 to /20

Question 16:

What problem is caused by the fact that VPC peering does not permit transitive routing?

- A. additional VPC route tables to manage
- B. virtual private gateway is required
- C. Internet gateway is required for each VPC
- D. routing between connected spokes through hub VPC is complex
- E. increased number of peer links required

Question 17:

What two statements correctly describes Elastic Load Balancer operation?

- A. spans multiple regions
- B. assigned per EC2 instance
- C. assigned per subnet
- D. assigned per Auto-Scaling group
- E. no cross-region support

Question 18:

What are two advantages of Elastic IP (EIP) over AWS public IPv4 addresses?

- A. EIP can be reassigned
- B. EIP is private
- C. EIP is dynamic
- D. EIP is persistent
- E. EIP is public and private

Question 19:

What AWS services are globally managed? (Select four)

- A. IAM
- B. S3
- C. CloudFront
- D. Route 53
- E. DynamoDB
- F. WAF
- G. ELB

Question 20:

What methods are available for creating a VPC? (Select three)

- A. AWS management console
- B. AWS marketplace
- C. VPC wizard
- D. VPC console
- E. Direct Connect

Question 21:

What two default settings are configured for tenants by AWS when **Default VPC** option is selected?

- A. creates a size /20 default subnet in each Availability Zone
- B. creates an Internet gateway
- C. creates a main route table with local route 10.0.0.0/16
- D. create a virtual private gateway
- E. create a security group that explicitly denies all traffic

Question 22:

What three statements correctly describes IP address allocation within a VPC?

- A. EC2 instance must be terminated to reassign an IP address
- B. EC2 instance that is paused can reassign IP address
- C. EC2 instance that is stopped can reassign IP address
- D. private IP addresses are allocated from a pool and can be reassigned
- E. private IP addresses can be assigned by tenant
- F. VPC supports dual stack mode (IPv4/IPv6)

Question 23:

What are two advantages of selecting default tenancy option for your VPC when creating it?

- A. performance and reliability
- B. some AWS services do not work with a dedicated tenancy VPC
- C. tenant can launch instances within VPC as default or dedicated instances
- D. instance launch is faster

Question 24:

What is the purpose of a local route within a VPC route table?

- A. local route is derived from the default VPC CIDR block 10.0.0.0/16
- B. communicate between instances within the same subnet or different subnets
- C. used to communicate between instances within the same subnet
- D. default route for communicating between private and public subnets
- E. only installed in the main route table

Question 25:

What is the default behavior when adding a new subnet to your VPC? (Select two)

- A. new subnet is associated with the main route table
- B. new subnet is associated with the custom route table
- C. new subnet is associated with any selected route table
- D. new subnet is assigned to the default subnet
- E. new subnet is assigned from the VPC CIDR block

Question 26:

You have enabled Amazon RDS database services in VPC1 for an application that has public web servers in VPC2. How do you connect the web servers to the RDS database instance so they can communicate considering the VPC's are in the same region?

- A. VPC endpoints
- B. VPN gateway
- C. path-based routing
- D. VPC peering
- E. AWS Network Load Balancer

Question 27:

What AWS services now support VPC endpoints feature for optimizing security?
(Select three)

- A. Kinesis
- B. DNS Route 53
- C. S3
- D. DynamoDB
- E. RDS

Question 28:

What are three characteristics of an Amazon Virtual Private Cloud?

- A. public and private IP addressing
- B. broadcasts
- C. multiple private IP addresses per network interface
- D. dedicated single tenant hardware only
- E. persistent public IP addresses
- F. HSRP

Question 29:

What is the difference between VPC main route table and custom route table?

- A. VPC only creates a main route table when started
- B. custom route table is the default
- C. custom route table is created for public subnets
- D. custom route table is created for private subnets
- E. main route table is created for public and private subnets

Question 30:

What is the purpose of the native VPC router?

- A. route packets across the internet
- B. route packets between private cloud instances
- C. route packets between subnets
- D. route packets from instances to S3 storage volumes
- E. route packets across VPN

Question 31:

How are private DNS servers assigned to an Amazon VPC?

- A. not supported
- B. select nondefault VPC
- C. select default VPC
- D. select EC-2 classic

Question 32:

What are two characteristics of an Amazon security group?

- A. instance level packet filtering
- B. deny rules only
- C. permit rules only
- D. subnet level packet filtering
- E. inbound only

Question 33:

What statement is true of Network Access Control Lists (ACL) operation within an Amazon VPC?

- A. instance and subnet level packet filtering
- B. subnet level packet filtering
- C. inbound only
- D. only one ACL allowed per VPC
- E. outbound only

Question 34:

How are packets forwarded between public and private subnets within VPC?

- A. EIP
- B. NAT
- C. main route table
- D. VPN

Question 35:

What two statements accurately describe Amazon VPC architecture?

- A. Elastic Load Balancer (ELB) cannot span multiple availability zones
- B. VPC does not support DMVPN connection
- C. VPC subnet cannot span multiple availability zones
- D. VPC cannot span multiple regions
- E. Flow logs are not supported within a VPC

Question 36:

What is a requirement for attaching EC2 instances to on-premises clients and applications?

- A. Amazon Virtual Private Gateway (VPN)
- B. Amazon Internet Gateway
- C. VPN Connection
- D. Elastic Load Balancer (ELB)
- E. NAT

Question 37:

What two statements correctly describe Amazon virtual private gateway?

- A. assign to private subnets only
- B. assign to public subnets only
- C. single virtual private gateway per VPC
- D. multiple virtual private gateways per VPC
- E. single virtual private gateway per region

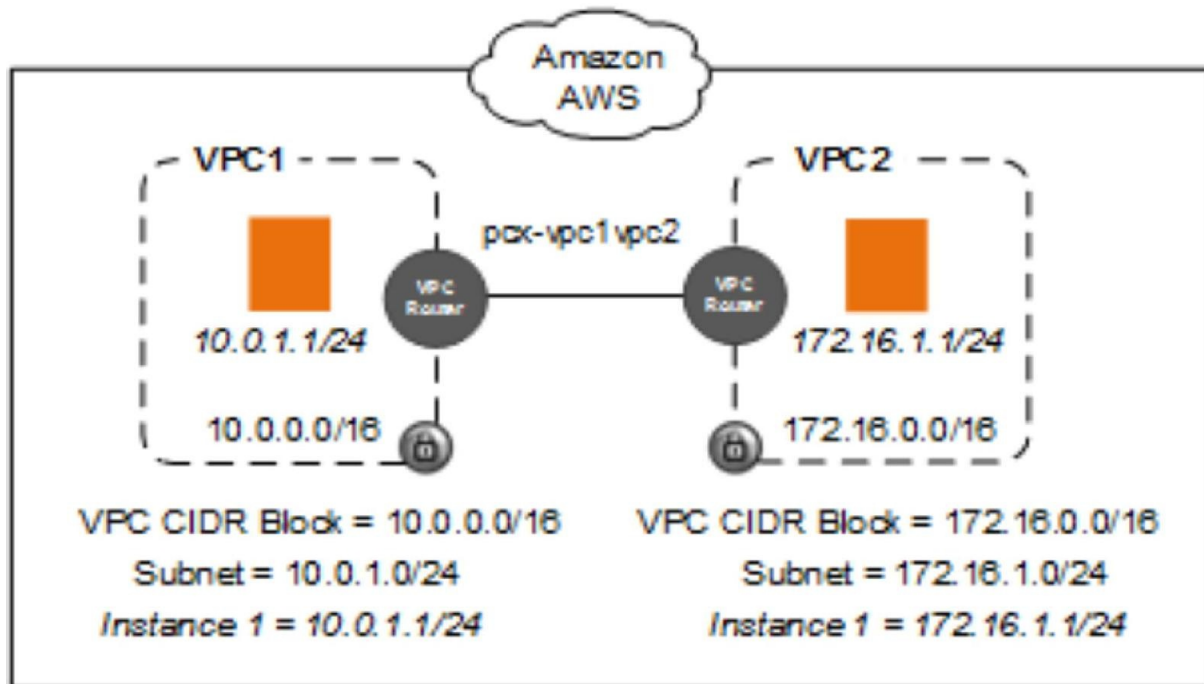
Question 38:

What is the maximum access port speed available with Amazon Direct Connect service?

- A. 1 Gbps
- B. 10 Gbps
- C. 500 Mbps
- D. 100 Gbps
- E. 100 Mbps

Question 39:

Refer to the drawing. Your company has asked you to configure a peering link between two VPCs that are currently not connected or exchanging any packets. What destination and target is configured in the routing table of VPC1 to enable packet forwarding to VPC2?



- A. destination = 172.16.0.0/16
target = pcx-vpc2vpc1
- B. destination = 10.0.0.0/16
target = pcx-vpc2
- C. destination = 172.16.0.0/16
target = 10.0.0.0/16
- D. destination = 172.16.0.0/16
target = pcx-vpc1vpc2
- E. default route only

Question 40:

How is routing enabled by default within a VPC for an EC2 instance?

- A. add a default route
- B. main route table
- C. custom route table
- D. must be configured explicitly

Question 41:

What three features are not supported with VPC peering?

- A. overlapping CIDR blocks
- B. IPv6 addressing
- C. Gateways
- D. transitive routing
- E. RedShift
- F. ElastiCache

Question 42:

What route is used in a VPC routing table for packet forwarding to a Gateway?

- A. static route
- B. 10.0.0.0/16
- C. tenant configured
- D. 0.0.0.0/0
- E. 0.0.0.0/16

Question 43:

You are asked to deploy a web application comprised of multiple public web servers with only private addressing assigned. What Amazon AWS solutions enables multiple servers on a private subnet with only a single EIP required and Availability Zone redundancy?

- A. NAT instance
- B. Internet gateway
- C. virtual private gateway
- D. NAT gateway
- E. Elastic Network Interface (ENI)

Question 44:

What is the IP addressing schema assigned to a default VPC?

- A. 172.31.0.0/16 CIDR block subnetted with 172.31.0.0/20
- B. 172.16.0.0/16 CIDR block subnetted with 172.16.0.0/24
- C. 10.0.0.0/16 CIDR block subnetted with 10.0.0.0/24
- D. 172.16.0.0/24 CIDR block subnetted with 172.31.0.0/18

Question 45:

What default configuration and components are added by AWS when **Default VPC** type is selected? (Select three)

- A. Internet gateway
- B. virtual private gateway
- C. NAT instance
- D. security group
- E. DNS

Question 46:

What feature requires tenants to disable source/destination check?

- A. Elastic IP (EIP)
- B. data replication
- C. VPC peering
- D. NAT
- E. Internet gateway

Storage Services

Question 1:

What AWS storage solution allows thousands of EC2 instances to simultaneously upload, access, delete and share files?

- A. EBS
- B. S3
- C. Glacier
- D. EFS

Question 2:

What is required for an EFS mount target? (Select two)

- A. EIP
- B. DNS name
- C. IP address
- D. DHCP
- E. IAM role

Question 3:

What connectivity features are recommended for copying on-premises files to EFS? (Select two)

- A. VPN IPsec
- B. Internet Gateway
- C. Direct Connect
- D. File Sync
- E. FTP
- F. AWS Storage Gateway

Question 4:

What AWS services encrypts data at rest by default? (Select two)

- A. S3
- B. AWS Storage Gateway
- C. EBS
- D. Glacier
- E. RDS

Question 5:

What fault tolerant features does S3 storage provide? (Select three)

- A. cross-region replication
- B. versioning must be disabled
- C. cross-region asynchronous replication of objects
- D. synchronous replication of objects within a region
- E. multiple destination buckets

Question 6:

What is the fastest technique for deleting 900 objects in an S3 bucket with a single HTTP request?

- A. Multi-Part Delete API
- B. Multi-Object Delete API
- C. 100 objects is maximum per request
- D. Fast-Delete API

Question 7:

What security controls technique is recommended for S3 cross-account access?

- A. IAM group
- B. security groups
- C. S3 ACL
- D. bucket policies

Question 8:

What are two advantages of cross-region replication of an S3 bucket?

- A. cost
- B. security compliance
- C. scalability
- D. Beanstalk support
- E. minimize latency

Question 9:

What are two primary difference between Amazon S3 Standard and S3/RRS storage classes?

- A. Amazon Standard does not replicate at all
- B. RRS provides higher durability
- C. RRS provides higher availability
- D. RRS does not replicate objects as many times
- E. application usage is different

Question 10:

What two features are enabled with S3 services?

- A. store objects of any size
- B. dynamic web content
- C. supports Provisioned IOPS
- D. store virtually unlimited amounts of data
- E. bucket names are globally unique

Question 11:

What new feature was recently added to SQS that defines how messages are ordered?

- A. streams
- B. SNS
- C. FIFO
- D. TLS
- E. decoupling

Question 12:

What two AWS storage types are persistent?

- A. ephemeral
- B. S3
- C. EBS
- D. instance store
- E. SAML

Question 13:

Select three on-premises backup solutions used for copying data to an Amazon AWS S3 bucket?

- A. AWS Import/Export
- B. RDS
- C. Snowball
- D. Availability Zone (AZ) replication
- E. AWS Storage Gateway

Question 14:

You have 1 TB of data and want to archive the data that won't be accessed that often. What Amazon AWS storage solution is recommended?

- A. Glacier
- B. EBS
- C. ephemeral
- D. CloudFront

Question 15:

What are three methods of accessing DynamoDB for customization purposes?

- A. CLI
- B. AWS console
- C. API call
- D. vCenter
- E. Beanstalk

Question 16:

What are two primary differences between Glacier and S3 storage services?

- A. Glacier is lower cost
- B. S3 is lower cost
- C. Glacier is preferred for frequent data access with lower latency
- D. S3 is preferred for frequent data access with lower latency
- E. S3 supports larger file size

Question 17:

What statement correctly describes the operation of AWS Glacier archive?

- A. archive is a group of vaults
- B. archive is an unencrypted vault
- C. archive supports aggregated files only
- D. maximum file size is 1 TB
- E. archive supports single and aggregated files

Question 18:

What are three primary differences between S3 vs EBS?

- A. S3 is a multi-purpose public internet-based storage
- B. EBS is directly assigned to a tenant VPC EC2 instance
- C. EBS and S3 provide persistent storage
- D. EBS snapshots are typically stored on S3 buckets
- E. EBS and S3 use buckets to manage files
- F. EBS and S3 are based on block level storage

Question 19:

What on-premises solution is available from Amazon AWS to minimize latency for all data?

- A. Gateway-VTL
- B. Gateway-cached volumes
- C. Gateway-stored volumes
- D. EBS
- E. S3 bucket
- F. ElastiCache

Question 20:

What feature transitions S3 storage to Standard-IA for cost optimization?

- A. RRS/S3
- B. Glacier vault
- C. storage class analysis
- D. path-based routing

Question 21:

How does AWS uniquely identify S3 objects?

- A. bucket name
- B. version
- C. key
- D. object tag

Question 22:

What is the advantage of read-after-write consistency for S3 buckets?

- A. no stale reads for PUT of any new object in all regions
- B. higher throughput for all requests
- C. stale reads for PUT requests in some regions
- D. no stale reads for GET requests in a single regions

Question 23:

What is the maximum single file object size supported with Amazon S3?

- A. 5 GB
- B. 5 TB
- C. 1 TB
- D. 100 GB

Question 24:

What security problem is solved by using Cross-Origin Resource Sharing (CORS)?

- A. enable HTTP requests from within scripts to a different domain
- B. enable sharing of web-based files between different buckets
- C. provide security for third party objects within AWS
- D. permits sharing objects between AWS services

Question 25:

What is recommended for migrating 40 TB of data from on-premises to S3 when the internet link is often overutilized?

- A. AWS Storage gateway
- B. AWS Snowball
- C. AWS Import/Export
- D. AWS Elastic File System
- E. AWS Elasticsearch
- F. AWS Multi-Part Upload API

Question 26:

Your company is publishing an online catalog of books that is currently using DynamoDB for storing the information associated with each item. There is a requirement to add images for each book. What solution is most cost effective and designed for that purpose?

- A. RedShift
- B. EBS
- C. RDS
- D. S3
- E. Kinesis

Question 27:

You have an application that collects monitoring data from 10,000 sensors (IoT) deployed in the USA. The data points are comprised of video events for home security and environment status alerts. The application will be deployed to AWS with EC2 instances as data collectors. What AWS storage service is preferred for storing video files from sensors?

- A. RedShift
- B. RDS
- C. S3
- D. DynamoDB

Security Architecture

Question 1:

What statements correctly describe security groups within a VPC? (Select three)

- A. default security group only permit inbound traffic
- B. security groups are stateful firewalls
- C. only allow rules are supported
- D. allow and deny rules are supported
- E. security groups are associated to network interfaces

Question 2:

What three items are required to configure a security group rule?

- A. protocol type
- B. VPC name
- C. port number
- D. source IP
- E. destination IP
- F. description

Question 3:

What two source IP address types are permitted in a security group rule?

- A. only CIDR blocks with /16 subnet mask
- B. source IP address 0.0.0.0/0
- C. single source IP address with /24 subnet mask
- D. security group id
- E. IPv6 address with /64 prefix length

Question 4:

What protocols must be enabled for remote access to Linux-based and Windows-based EC2 instances?

- A. SSH, ICMP, Telnet
- B. SSH, HTTP, RDP
- C. SSH, HTTP, SSL
- D. SSH, RDP, ICMP

Question 5:

Distinguish network ACLs from security groups within a VPC? (Select three)

- A. ACL filters at the subnet level
- B. ACL is based on deny rules only
- C. ACL is applied to instances and subnets
- D. ACL is stateless
- E. ACL supports a numbered list for filtering

Question 6:

What happens to the security permissions of a tenant when an IAM role is granted? (Select two)

- A. tenant inherits only permissions assigned to the IAM role temporarily
- B. add security permissions of the IAM role to existing permissions
- C. previous security permissions are no longer in effect
- D. previous security permissions are deleted unless reconfigured
- E. tenant inherits only read permissions assigned to the IAM role

Question 7:

Where are IAM permissions granted to invoke and execute a Lambda function for S3 access? (Select two)

- A. S3 bucket
- B. EC2 instance
- C. Lambda function
- D. IAM role
- E. event mapping

Question 8:

You have some developers working on code for an application and they require temporary access to AWS cloud up to an hour. What is the easiest web-based solution from AWS to provides access and minimize security exposure?

- A. ACL
- B. security group
- C. IAM group
- D. STS
- E. EFS

Question 9:

What two methods are used to request temporary credentials based on AWS Security Token Service (STS)?

- A. Web Identity Federation
- B. LDAP
- C. IAM identity
- D. dynamic ACL
- E. private key rotation

Question 10:

What two components are required for enabling SAML authentication requests to AWS Identity and Access Management (IAM)?

- A. access keys
- B. session token
- C. SSO
- D. identity provider (IdP)
- E. SAML provider entity

Question 11:

What are two reasons for deploying Origin Access Identity (OAI) when enabling CloudFront?

- A. prevent users from deleting objects in S3 buckets
- B. mitigate distributed denial of service attacks (DDoS)
- C. prevent users from accessing objects with Amazon S3 URL
- D. prevent users from accessing objects with CloudFront URL
- E. replace IAM for internet-based customer authentication

Question 12:

What solutions are recommended to mitigate DDoS attacks? (Select three)

- A. host-based firewall
- B. elastic load balancer
- C. WAF
- D. SSL/TLS
- E. Bastion host
- F. NAT gateway

Question 13:

What features are required to prevent users from bypassing AWS CloudFront security? (Select three)

- A. Bastion host
- B. signed URL
- C. IP whitelist
- D. signed cookies
- E. origin access identity (OAI)

Question 14:

What is the advantage of resource-based policies for cross-account access?

- A. trusted account permissions are not replaced
- B. trusted account permissions are replaced
- C. resource-based policies are easier to deploy
- D. trusting account manages all permissions

Question 15:

Select three requirements for configuring a Bastion host?

- A. EIP
- B. SSH inbound permission
- C. default route
- D. CloudWatch logs group
- E. VPN
- F. Auto-Scaling

Question 16:

What rule must be added to the security group assigned to a mount target instance that enables EFS access from an EC2 instance?

- A. Type = EC2, protocol = IP, port = 2049, source = remote security group id
- B. Type = EC2, protocol = EFS, port = 2049, source = 0.0.0.0/0
- C. Type = NFS, protocol = TCP, port = 2049, source = remote security group id
- D. Type = NFSv4, protocol = UDP, port = 2049, source = remote security group id

Question 17:

What statement correctly describes IAM architecture?

- A. IAM security is unified per region and replicated based on requirements for an AWS tenant account
- B. IAM security is defined per region for roles only on an AWS tenant account
- C. IAM security is globally unified across the AWS cloud for an AWS tenant account
- D. IAM security is defined separately per region and cross-region security enabled for an AWS tenant account

Question 18:

What are two advantages of customer-managed encryption keys (CMK)?

- A. create and rotate encryption keys
- B. AES-128 cipher for data at rest
- C. audit encryption keys
- D. encrypts data in-transit for server-side encryption only

Question 19:

What feature is not available with AWS Trusted Advisor?

- A. cost optimization
- B. infrastructure best practices
- C. vulnerability assessment
- D. monitor application metrics

Question 20:

What is required to Ping from a source instance to a destination instance?

A. **Network ACL:** not required

Security Group: allow ICMP outbound on source/destination EC2 instances

B. **Network ACL:** allow ICMP inbound/outbound on source/destination subnets

Security Group: not required

C. **Network ACL:** allow ICMP inbound/outbound on source/destination subnets

Security Group: allow ICMP outbound on source EC2 instance

Security Group: allow ICMP inbound on destination EC2 instance

D. **Network ACL:** allow TCP inbound/outbound on source/destination subnets

Security Group: allow TCP and ICMP inbound on source EC2 instance

Question 21:

What two steps are required to grant cross-account permissions between AWS accounts?

- A. create an IAM user
- B. attach a trust policy to S3
- C. create a transitive policy
- D. attach a trust policy to the role
- E. create an IAM role

Question 22:

You have configured a security group to allow ICMP, SSH and RDP inbound and assigned the security group to all instances in a subnet. There is no access to any Linux-based or Windows-based instances and you cannot Ping any instances. The network ACL for the subnet is configured to allow all inbound traffic to the subnet. What is the most probable cause?

- A. on-premises firewall rules
- B. security group and network ACL outbound rules
- C. network ACL outbound rules
- D. security group outbound rules
- E. Bastion host required

Question 23:

What three techniques provide authentication security on S3 volumes?

- A. bucket policies
- B. network ACL
- C. Identity and Access Management (IAM)
- D. encryption
- E. AES256

Question 24:

What statement correctly describes support for AWS encryption of S3 objects?

- A. tenants manage encryption for server-side encryption of S3 objects
- B. Amazon manages encryption for server-side encryption of S3 objects
- C. client-side encryption of S3 objects is not supported
- D. S3 buckets are encrypted only
- E. SSL is only supported with Glacier storage

Question 25:

What authentication method provides Federated Single Sign-On (SSO) for cloud applications?

- A. ADS
- B. ISE
- C. RADIUS
- D. TACACS
- E. SAML

Question 26:

Based on the Amazon security model, what infrastructure configuration and associated security is the responsibility of tenants and not Amazon AWS? (Select two)

- A. dedicated cloud server
- B. hypervisor
- C. operating system level
- D. application level
- E. upstream physical switch

Question 27:

What security authentication is required before configuring or modifying EC2 instances? (Select three)

- A. authentication at the operating system level
- B. EC2 instance authentication with asymmetric keys
- C. authentication at the application level
- D. Telnet username and password
- E. SSH/RDP session connection

Question 28:

What feature is part of Amazon Trusted Advisor?

- A. security compliance
- B. troubleshooting tool
- C. EC2 configuration tool
- D. security certificates

Question 29:

What are two best practices for account management within Amazon AWS?

- A. do not use root account for common administrative tasks
- B. create a single AWS account with multiple IAM users that have root privilege
- C. create multiple AWS accounts with multiple IAM users per AWS account
- D. use root account for all administrative tasks
- E. create multiple root user accounts for redundancy

Question 30:

What AWS feature is recommended for optimizing data security?

- A. Multi-factor authentication
- B. username and encrypted password
- C. Two-factor authentication
- D. SAML
- E. Federated LDAP

Question 31:

What IAM class enables an EC2 instance to access a file object in an S3 bucket?

- A. user
- B. root
- C. role
- D. group

Question 32:

What are three recommended solutions that provide protection and mitigation from distributed denial of service (DDoS) attacks?

- A. security groups
- B. CloudWatch
- C. encryption
- D. WAF
- E. data replication
- F. Auto-Scaling

Question 33:

What are three recommended best practices when configuring Identity and Access Management (IAM) security services?

- A. Lock or delete your root access keys when not required
- B. IAM groups are not recommended for storage security
- C. create an IAM user with administrator privileges
- D. share your password and/or access keys with members of your group only
- E. delete any AWS account where the access keys are unknown

Question 34:

What two features create security zones between EC2 instances within a VPC?

- A. security groups
- B. Virtual Security Gateway
- C. network ACL
- D. WAF

Question 35:

What AWS service provides vulnerability assessment services to tenants within the cloud?

- A. Amazon WAF
- B. Amazon Inspector
- C. Amazon Cloud Logic
- D. Amazon Trusted Advisor

Question 36:

What are two primary differences between AD Connector and Simple AD for cloud directory services?

- A. Simple AD requires an on-premises ADS directory
- B. Simple AD is fully managed and setup in minutes
- C. AD Connector requires an on-premises ADS directory
- D. Simple AD is more scalable than AD Connector
- E. Simple AD provides enhanced integration with IAM

Database Services

Question 1:

How is load balancing enabled for multiple tasks to the same container instance?

- A. path-based routing
- B. reverse proxy
- C. NAT
- D. dynamic port mapping
- E. dynamic listeners

Question 2:

What encryption support is available for tenants that are deploying AWS DynamoDB?

- A. server-side encryption
- B. client-side encryption
- C. client-side and server-side encryption
- D. encryption not supported
- E. block level encryption

Question 3:

What are three primary reasons for deploying ElastiCache?

- A. data security
- B. managed service
- C. replication with Redis
- D. durability
- E. low latency

Question 4:

What service does not support session data persistence store to enable web-based stateful applications?

- A. RDS
- B. Memcached
- C. DynamoDB
- D. Redis
- E. RedShift

Question 5:

How does Memcached implement horizontal scaling?

- A. Auto-Scaling
- B. database store
- C. partitioning
- D. EC2 instances
- E. S3 bucket

Question 6:

What two options are available for tenants to access ElastiCache?

- A. VPC peering link
- B. EC2 instances
- C. EFS mount
- D. cross-region VPC

Question 7:

What two statements correctly describe in-transit encryption support on ElastiCache platform ?

- A. not supported for ElastiCache platform
- B. supported on Redis replication group
- C. encrypts cached data at rest
- D. not supported on Memcached cluster
- E. IPsec must be enabled first

Question 8:

What Amazon AWS platform is designed for complex analytics of a variety of large data sets based on custom code. The applications include machine learning and data transformation?

- A. EC2
- B. Beanstalk
- C. Redshift
- D. EMR

Question 9:

What are two primary advantages of DynamoDB?

- A. SQL support
- B. managed service
- C. performance
- D. CloudFront integration

Question 10:

What two fault tolerant features does Amazon RDS support?

- A. copy snapshot to a different region
- B. create read replica to a different region
- C. copy unencrypted read-replica only
- D. copy read/write replica and snapshot

Question 11:

What managed services are included with Amazon RDS? (select four)

- A. assign network capacity to database instances
- B. install database software
- C. perform regular backups
- D. data replication across multiple availability zones
- E. data replication across single availability zone only
- F. configure database
- G. performance tuning

Question 12:

What two configuration features are required to create a private database instance?

- A. security group
- B. network ACL
- C. CloudWatch
- D. Elastic IP (EIP)
- E. Nondefault VPC
- F. DNS

Question 13:

What storage type is recommended for an online transaction processing (OLTP) application deployed to Multi-AZ RDS with significant workloads?

- A. General Purpose SSD
- B. Magnetic
- C. EBS volumes
- D. Provisioned IOPS

Question 14:

What features are supported with Amazon RDS? (Select three)

- A. horizontal scaling with multiple read replicas
- B. elastic load balancing RDS read replicas
- C. replicate read replicas cross-region
- D. automatic failover to master database instance
- E. application load balancer (ALB)

Question 15:

What are three advantages of standby replica in a Multi-AZ RDS deployment?

- A. fault tolerance
- B. eliminate I/O freezes
- C. horizontal scaling
- D. vertical scaling
- E. data redundancy

Question 16:

What consistency model is the default used by DynamoDB?

- A. strongly consistent
- B. eventually consistent
- C. no default model
- D. casual consistency
- E. sequential consistency

Question 17:

What does RDS use for database and log storage?

- A. EBS
- B. S3
- C. instance store
- D. local store
- E. SSD

Question 18:

What statements correctly describe support for Microsoft SQL Server within Amazon VPC? (Select three)

- A. read/write replica
- B. read replica only
- C. vertical scaling
- D. native load balancing
- E. EBS storage only
- F. S3 storage only

Question 19:

Select two features available with Amazon RDS for MySQL?

- A. Auto-Scaling
- B. read requests to standby replicas
- C. real-time database replication
- D. active read requests only

Question 20:

What are two characteristics of Amazon RDS?

- A. database managed service
- B. NoSQL queries
- C. native load balancer
- D. database write replicas
- E. automatic failover of read replica

Question 21:

What caching engines are supported with Amazon ElastiCache? (Select two)

- A. HAProxy
- B. Route 53
- C. RedShift
- D. Redis
- E. Memcached
- F. CloudFront

Question 22:

What are three primary characteristics of DynamoDB?

- A. less scalable than RDS
- B. static content
- C. store metadata for S3 objects
- D. replication to three Availability Zones
- E. high read/write throughput

Question 23:

What are three examples of using Lambda functions to move data between AWS services?

- A. read data directly from DynamoDB streams to RDS
- B. read data from Kinesis stream and write data to DynamoDB
- C. read data from DynamoDB stream to Firehose and write to S3
- D. read data from S3 and write metadata to DynamoDB
- E. read data from Kinesis Firehose to Kinesis data stream

Question 24:

You have enabled Amazon RDS database services in VPC1 for an application with public web servers in VPC2. How do you connect the web servers to the RDS database instance so they can communicate considering the VPC's are in different regions?

- A. VPC endpoints
- B. VPN gateway
- C. path-based routing
- D. publicly accessible database
- E. VPC peering

Question 25:

You have a requirement to create an index to search customer objects stored in S3 buckets. The solution should enable you to create a metadata search index for each object stored to an S3 bucket. Select the most scalable and cost effective solution?

- A. RDS, ElastiCache
- B. DynamoDB, Lambda
- C. RDS, EMR, ALB
- D. RedShift

Question 26:

What are three advantages of using DynamoDB over S3 for storing IoT sensor data where there are 100,000 data point samples sent per minute?

- A. S3 must create a single file for each event
- B. IoT can write data directly to DynamoDB
- C. DynamoDB provides fast read/writes to a structured table for queries
- D. DynamoDB is designed for frequent access and fast lookup of small records
- E. S3 is designed for frequent access and fast lookup of smaller records
- F. IoT can write data directly to S3

Question 27:

Your company is a provider of online gaming that customers access with various network access devices including mobile phones. What is a data warehousing solutions for large amounts of information on player behavior, statistics and events for analysis using SQL tools?

- A. RedShift
- B. DynamoDB
- C. RDS
- D. DynamoDB
- E. Elasticsearch

Question 28:

What two statements are correct when comparing Elasticsearch and RedShift as analytical tools?

- A. Elasticsearch is a text search engine and document indexing tool
- B. RedShift supports complex SQL-based queries with Petabyte sized data store
- C. Elasticsearch supports SQL queries
- D. RedShift provides only basic analytical services
- E. Elasticsearch does not support JSON data type

Question 29:

What happens when read or write requests exceed capacity units (throughput capacity) for a DynamoDB table or index? (Select two)

- A. DynamoDB automatically increases read/write units
- B. DynamoDB can throttle requests so that requests are not exceeded
- C. HTTP 400 code is returned (Bad Request)
- D. HTTP 500 code is returned (Server Error)
- E. DynamoDB automatically increases read/write units if provisioned throughput is enabled

Question 30:

What read consistency method provides lower latency for *GetItem* requests?

- A. strongly persistent
- B. eventually consistent
- C. strongly consistent
- D. write consistent

Question 31:

You must specify strongly consistent read and write capacity for your DynamoDB database. You have determined read capacity of 128 Kbps and write capacity of 25 Kbps is required for your application. What is the read and write capacity units required for DynamoDB table?

- A. 32 read units, 25 write units
- B. 1 read unit, 1 write unit
- C. 16 read units, 2.5 write units
- D. 64 read units, 10 write units

Question 32:

What DynamoDB capacity management technique is based on the tenant specifying an upper and lower range for read/write capacity units?

- A. demand
- B. provisioned throughput
- C. reserved capacity
- D. auto scaling
- E. general purpose

Question 33:

What is the maximum volume size of a MySQL RDS database?

- A. 6 TB
- B. 3 TB
- C. 16 TB
- D. unlimited

Question 34:

What is the maximum size of a DynamoDB record (item)?

- A. 400 KB
- B. 64 KB
- C. 1 KB
- D. 10 KB

Fault Tolerant Systems

Question 1:

What two features describe an Application Load Balancer (ALB)?

- A. dynamic port mapping
- B. SSL listener
- C. layer 7 load balancer
- D. backend server authentication
- E. multi-region forwarding

Question 2:

What enables load balancing between multiple applications per load balancer?

- A. listeners
- B. sticky sessions
- C. path-based routing
- D. backend server authentication

Question 3:

What three features are characteristic of Classic Load Balancer?

- A. dynamic port mapping
- B. path-based routing
- C. SSL listener
- D. backend server authentication
- E. ECS
- F. Layer 4 based load balancer

Question 4:

What security feature is only available with Classic Load Balancer?

- A. IAM role
- B. SAML
- C. back-end server authentication
- D. security groups
- E. LDAP

Question 5:

What is a primary difference between Classic and Network Load Balancer?

- A. IP address target
- B. Auto-Scaling
- C. protocol target
- D. cross-zone load balancing
- E. listener

Question 6:

What are the first two conditions used by Amazon AWS default termination policy for Multi-AZ architecture?

- A. unprotected instance with oldest launch configuration
- B. Availability Zone (AZ) with the most instances
- C. at least one instance that is not protected from scale in
- D. unprotected instance closest to the next billing hour
- E. random selection of any unprotected instance

Question 7:

What feature is used for horizontal scaling of consumers to process data records from a Kinesis data stream?

- A. vertical scaling shards
- B. Auto-Scaling
- C. Lambda
- D. Elastic Load Balancer

Question 8:

What DNS records can be used for pointing a zone apex to an Elastic Load Balancer or CloudFront distribution? (Select two)

- A. Alias
- B. CNAME
- C. MX
- D. A
- E. Name Server

Question 9:

What services are primarily provided by DNS Route 53? (Select three)

- A. load balancing web servers within a private subnet
- B. resolve hostnames and IP addresses
- C. load balancing web servers within a public subnet
- D. load balancing data replication requests between ECS containers
- E. resolve queries and route internet traffic to AWS resources
- F. automated health checks to EC2 instances

Question 10:

What are two features that correctly describe Availability Zone (AZ) architecture?

- A. multiple regions per AZ
- B. interconnected with private WAN links
- C. multiple AZ per region
- D. interconnected with public WAN links
- E. data auto-replicated between zones in different regions
- F. Direct Connect supports Layer 2 connectivity to region

Question 11:

How is Route 53 configured for Warm Standby fault tolerance? (Select two)

- A. automated health checks
- B. path-based routing
- C. failover records
- D. Alias records

Question 12:

How is DNS Route 53 configured for Multi-Site fault tolerance? (Select two)

- A. IP address
- B. weighted records (non-zero)
- C. health checks
- D. Alias records
- E. zero weighted records

Question 13:

What is an Availability Zone?

- A. data center
- B. multiple VPCs
- C. multiple regions
- D. single region
- E. multiple EC2 server instances

Question 14:

How are DNS records managed with Amazon AWS to enable high availability?

- A. Auto-Scaling
- B. server health checks
- C. reverse proxy
- D. elastic load balancing

Question 15:

What is the difference between Warm Standby and Multi-Site fault tolerance?
(Select two)

- A. Multi-Site enables lower RTO and most recent RPO
- B. Warm Standby enables lower RTO and most recent RPO
- C. Multi-Site provides active/active load balancing
- D. Multi-Site provides active/standby load balancing
- E. DNS Route 53 is not required for Warm Standby

Question 16:

What AWS best practice is recommended for creating fault tolerant systems?

- A. vertical scaling
- B. Elastic IP (EIP)
- C. security groups
- D. horizontal scaling
- E. RedShift

Question 17:

What two statements correctly describe versioning for protecting data at rest on S3 buckets?

- A. enabled by default
- B. overwrites most current file version
- C. restores deleted files
- D. saves multiple versions of a single file
- E. disabled by default

Question 18:

What two methods are recommended by AWS for protecting EBS data at rest?

- A. replication
- B. snapshots
- C. encryption
- D. VPN

Question 19:

You have an Elastic Load Balancer assigned to a VPC with public and private subnets. ELB is configured to load balance traffic to a group of EC2 instances assigned to an Auto-Scaling group. What three statements are correct?

- A. Elastic Load Balancer is assigned to a public subnet
- B. network ACL is assigned to Elastic Load Balancer
- C. security group is assigned to Elastic Load Balancer
- D. cross-zone load balancing is not supported
- E. Elastic Load Balancer forwards traffic to primary private IP address (eth0 interface) on each instance

Deployment and Orchestration

Question 1:

What Amazon AWS service is available for container management?

- A. ECS
- B. Docker
- C. Kinesis
- D. Lambda

Question 2:

What is associated with Microservices? (Select two)

- A. Application Load Balancer
- B. Kinesis
- C. RDS
- D. DynamoDB
- E. ECS

Question 3:

Where does Amazon retrieve web content when it is not in the nearest CloudFront edge location?

- A. secondary location
- B. file server
- C. EBS
- D. S3 bucket

Question 4:

What two features of an API Gateway minimize the effects of peak traffic events and minimize latency?

- A. load balancing
- B. firewalling
- C. throttling
- D. scaling
- E. caching

Question 5:

What three characteristics differentiate Lambda from traditional EC2 deployment or containerization?

- A. Lambda is based on Kinesis scripts
- B. Lambda is serverless
- C. tenant has ownership of EC2 instances
- D. tenant has no control of EC2 instances
- E. Lambda is a code-based service
- F. Lambda supports only S3 and Glacier

Question 6:

How is code uploaded to Lambda?

- A. Lambda instance
- B. Lambda container
- C. Lambda entry point
- D. Lambda function
- E. Lambda AMI

Question 7:

How are Lambda functions triggered?

- A. EC2 instance
- B. hypervisor
- C. Kinesis
- D. operating system
- E. event source

Question 8:

What three statements correctly describe standard Lambda operation?

- A. Lambda function is allocated 500 MB ephemeral disk space
- B. Lambda function is allocated 100 MB EBS storage
- C. Lambda stores code in S3
- D. Lambda stores code in a Glacier vault
- E. Lambda stores code in containers
- F. maximum execution time is 300 seconds

Question 9:

What network events are restricted by Lambda? (Select two)

- A. only inbound TCP network connections are blocked by AWS Lambda
- B. all inbound network connections are blocked by AWS Lambda
- C. all inbound and outbound connections are blocked
- D. outbound connections support only TCP/IP sockets
- E. outbound connections support only SSL sockets

Question 10:

How is versioning supported with Lambda? (Select two)

- A. Lambda native support
- B. ECS container
- C. not supported
- D. Aliases
- E. replication
- F. S3 versioning

Question 11:

What is the difference between Stream-based and AWS Services when enabling Lambda?

- A. streams maintains event source mapping in Lambda
- B. streams maintains event source mapping in event source
- C. streams maintains event source mapping in EC2 instance
- D. streams maintains event source mapping in notification
- E. streams maintains event source mapping in API

Question 12:

Select two custom origin servers from the following?

- A. S3 bucket
- B. S3 object
- C. EC2 instance
- D. Elastic Load Balancer
- E. API gateway

Question 13:

What two attributes are only associated with CloudFront private content?

- A. Amazon S3 URL
- B. signed cookies
- C. web distribution
- D. signed URL
- E. object

Question 14:

How are origin servers located within CloudFront (Select two)

- A. DNS request
- B. distribution list
- C. web distribution
- D. RTMP protocol
- E. source mapping

Question 15:

Where are HTML files sourced from when they are not cached at a CloudFront edge location?

- A. S3 object
- B. origin HTTP server
- C. S3 bucket
- D. nearest edge location
- E. RTMP server
- F. failover edge location

Question 16:

What is the capacity of a single Kinesis shard? (Select two)

- A. 2000 PUT records per second
- B. 1 MB/sec data input and 2 MB/sec data output
- C. 10 MB/sec data input and 10 MB/sec data output
- D. 1000 PUT records per second
- E. unlimited

Question 17:

What Amazon AWS service supports real-time processing of data stream from multiple consumers and replay of records?

- A. DynamoDB
- B. EMR
- C. Kinesis data streams
- D. SQS
- E. RedShift

Question 18:

Your company has asked you to capture and forward a real-time data stream on a massive scale directly to RedShift for analysis with BI tools. What AWS tool is most appropriate that provides the feature set and cost effective?

- A. DynamoDB
- B. SQS
- C. Elastic Map Reduce
- D. Kinesis Firehose
- E. SNS
- F. CloudFront

Question 19:

What feature permits tenants to use a private domain name instead of the domain name that CloudFront assigns to a distribution?

- A. Route 53
- B. CNAME record
- C. MX record
- D. RTMP
- E. Signed URL

Question 20:

What Amazon AWS service is available to guarantee the consuming of a unique message only once?

- A. Beanstalk
- B. SQL
- C. Exchange
- D. SQS

Question 21:

What is the fastest and easiest method for migrating an on-premises VMware virtual machine to the AWS cloud?

- A. Amazon Marketplace
- B. AWS Server Migration Service
- C. AWS Storage Gateway
- D. EC2 Import/Export

Question 22:

Select the stateless protocol from the following?

- A. FTP
- B. TCP
- C. HTTP
- D. SSH

Question 23:

What are three valid endpoints for an API gateway?

- A. RESTful API
- B. Lambda function
- C. AWS service
- D. web server
- E. HTTP method

Question 24:

How is a volume selected (identified) when making an EBS Snapshot?

- A. account id
- B. volume id
- C. tag
- D. ARN

Question 25:

What deployment service enables tenants to replicate an existing AWS stack?

- A. Beanstalk
- B. CloudFormation
- C. RedShift
- D. EMR

Question 26:

What three services can invoke a Lambda function?

- A. SNS topic
- B. CloudWatch event
- C. EC2 instance
- D. security group
- E. S3 bucket notification

Question 27:

What two services enable automatic polling of a stream for new records only and forward them to an AWS storage service?

- A. SNS
- B. Kinesis
- C. Lambda
- D. DynamoDB

Question 28:

Your company is deploying a web site with dynamic content to customers in US, EU and APAC regions of the world. Content will include live streaming videos to customers. SSL certificates are required for security purposes. Select the AWS service delivers all requirements and provides the lowest latency?

- A. DynamoDB
- B. CloudFront
- C. S3
- D. Redis

Question 29:

What are the advantages of Beanstalk? (Select two)

- A. orchestration and deployment abstraction
- B. template-oriented deployment service
- C. easiest solution for developers to deploy cloud applications
- D. does not support cloud containers

Question 30:

You are a network analyst with JSON scripting experience and asked to select an AWS solution that enables automated deployment of cloud services. The template design would include a nondefault VPC with EC2 instances, ELB, Auto-Scaling and active/active failover. What AWS solution is recommended?

- A. Beanstalk
- B. OpsWorks
- C. CloudTrail
- D. CloudFormation

Question 31:

Select two statements that correctly describe OpsWorks?

- A. Opsworks provides operational and configuration automation
- B. OpsWorks is a lower cost alternative to BeanStalk
- C. OpsWorks is primarily a monitoring service
- D. Chef scripts (recipes) are a key aspect of OpsWorks

Question 32:

Your company has developed an IoT application that sends Telemetry data from 100,000 sensors. The sensors send a data point of 1 KB at one-minute intervals to a DynamoDB collector for monitoring purposes. What AWS stack would enable you to store data for real-time processing and analytics using BI tools?

- A. Sensors -> Kinesis Stream -> Firehose -> DynamoDB
- B. Sensors -> Kinesis Stream -> Firehose -> DynamoDB -> S3
- C. Sensors -> AWS IoT -> Firehose -> RedShift
- D. Sensors -> Kinesis Data Streams -> Firehose -> RDS

Question 33:

Your company has an application that was developed and migrated to AWS cloud. The application leverages some AWS services as part of the architecture. The stack includes EC2 instances, RDS database, S3 buckets, RedShift and Lambda functions. In addition there is IAM security permissions configured with defined users, groups and roles.

The application is monitored with CloudWatch and STS was recently added for permitting Web Identity Federation sign-on from Google accounts. You want a solution that can leverage the experience of your employees with AWS cloud infrastructure as well. What AWS service can create a template of the design and configuration for easier deployment of the application to multiple regions?

- A. Snowball
- B. Opsworks
- C. CloudFormation
- D. Beanstalk

Monitoring Services

Question 1:

What statement correctly describes CloudWatch operation within AWS cloud?

- A. log data is stored indefinitely
- B. log data is stored for 15 days
- C. alarm history is never deleted
- D. ELB is not supported

Question 2:

What are two AWS subscriber endpoint services that are supported with SNS?

- A. RDS
- B. Kinesis
- C. SQS
- D. Lambda
- E. EBS
- F. ECS

Question 3:

What AWS services work in concert to integrate security monitoring and audit within a VPC? (Select three)

- A. Syslog
- B. CloudWatch
- C. WAF
- D. CloudTrail
- E. VPC Flow Log

Question 4:

How is CloudWatch integrated with Lambda? (Select two)

- A. tenant must enable CloudWatch monitoring
- B. network metrics such as latency are not monitored
- C. Lambda functions are automatically monitored through Lambda service
- D. log group is created for each event source
- E. log group is created for each function

Question 5:

What two statements correctly describe AWS monitoring and audit operations?

- A. CloudTrail captures API calls, stores them in an S3 bucket and generates a Cloudwatch event
- B. CloudWatch alarm can send a message to a Lambda function
- C. CloudWatch alarm can send a message to an SNS Topic that triggers an event for a Lambda function
- D. CloudTrail captures all AWS events and stores them in a log file
- E. VPC logs do not support events for security groups

Question 6:

What is required for remote management access to your Linux-based instance?

- A. ACL
- B. Telnet
- C. SSH
- D. RDP

Question 7:

What are two features of CloudWatch operation?

- A. CloudWatch does not support custom metrics
- B. CloudWatch permissions are granted per feature and not AWS resource
- C. collect and monitor operating system and application generated log files
- D. AWS services automatically create logs for CloudWatch
- E. CloudTrail generates logs automatically when AWS account is activated

Question 8:

You are asked to select an AWS solution that will create a log entry anytime a snapshot of an RDS database instance and deletes the original instance. Select the AWS service that would provide that feature?

- A. VPC Flow Logs
- B. RDS Access Logs
- C. CloudWatch
- D. CloudTrail

Question 9:

What is required to enable application and operating system generated logs and publish to CloudWatch Logs?

- A. Syslog
- B. enable access logs
- C. IAM cross-account enabled
- D. CloudWatch Log Agent

Question 10:

What is the purpose of VPC Flow Logs?

- A. capture VPC error messages
- B. capture IP traffic on network interfaces
- C. monitor network performance
- D. monitor netflow data from subnets
- E. enable Syslog services for VPC

Question 11:

Select two cloud infrastructure services and/or components included with default CloudWatch monitoring?

- A. SQS queues
- B. operating system metrics
- C. hypervisor metrics
- D. virtual appliances
- E. application level metrics

Question 12:

What feature enables CloudWatch to manage capacity dynamically for EC2 instances?

- A. replication lag
- B. Auto-Scaling
- C. Elastic Load Balancer
- D. vertical scaling

Question 13:

What AWS service is used to monitor tenant remote access and various security errors including authentication retries?

- A. SSH
- B. Telnet
- C. CloudFront
- D. CloudWatch

Question 14:

How does Amazon AWS isolate metrics from different applications for monitoring, store and reporting purposes?

- A. EC2 instances
- B. Beanstalk
- C. CloudTrail
- D. namespaces
- E. Docker

Question 15:

What Amazon AWS service provides account transaction monitoring and security audit?

- A. CloudFront
- B. CloudTrail
- C. CloudWatch
- D. security group

Question 16:

What two statements correctly describe CloudWatch monitoring of database instances?

- A. metrics are sent automatically from DynamoDB and RDS to CloudWatch
- B. alarms must be configured for DynamoDB and RDS within CloudWatch
- C. metrics are not enabled automatically for DynamoDB and RDS
- D. RDS does not support monitoring of operating system metrics

Question 17:

What AWS service can send notifications to customer smartphones and mobile applications with attached video and/or alerts?

- A. EMR
- B. Lambda
- C. SQS
- D. SNS
- E. CloudTrail

*** Answer Key ***

EC2 Compute

Question 1:

What three attributes are selectable when creating an EBS volume for an EC2 instance?

- A. volume type
- B. IOPS
- C. region
- D. CMK
- E. ELB
- F. EIP

Answer (A,B,D)

Question 2:

You have been asked to migrate a 10 GB unencrypted EBS volume to an encrypted volume for security purposes. What are three key steps required as part of the migration?

- A. pause the unencrypted instance
- B. create a new encrypted volume of the same size and availability zone
- C. create a new encrypted volume of the same size in any availability zone
- D. start converter instance
- E. shutdown and detach the unencrypted instance

Answer (B,D,E)

Question 3:

What is EC2 instance protection?

- A. prevents Auto Scaling from selecting specific EC2 instance to be replaced when scaling in
- B. prevents Auto Scaling from selecting specific EC2 instance to be replaced when scaling out
- C. prevents Auto Scaling from selecting specific EC2 instance for termination when scaling out
- D. prevents Auto Scaling from selecting specific EC2 instance for termination when scaling in
- E. prevents Auto Scaling from selecting specific EC2 instance for termination when paused
- F. prevents Auto Scaling from selecting specific EC2 instance for termination when stopped

Answer (D)

Question 4:

What two features are supported with EBS volume Snapshot feature?

- A. EBS replication across regions
- B. EBS multi-zone replication
- C. EBS single region only
- D. full snapshot data only
- E. unencrypted snapshot only

Answer (A,B)

Question 5:

What two resource tags are supported for an EC2 instance?

- A. VPC endpoint
- B. EIP
- C. network interface
- D. security group
- E. Flow Log

Answer (A,E)

Question 6:

What two options are available to alert tenants when an EC2 instance is terminated?

- A. SNS
- B. CloudTrail
- C. Lambda function
- D. SQS
- E. STS

Answer (A,C)

Question 7:

What class of EC2 instance type is recommended for running data analytics?

- A. memory optimized
- B. compute optimized**
- C. storage optimized
- D. general purpose optimized

Answer (B)

Question 8:

What class of EC2 instance type is recommended for database servers?

- A. memory optimized
- B. compute optimized
- C. storage optimized
- D. general purpose optimized

Answer (A)

Question 9:

What two attributes distinguish each pricing model?

- A. reliability
- B. amazon service
- C. discount
- D. performance
- E. redundancy

Answer (A,C)

Question 10:

What are three standard AWS pricing models?

- A. elastic
- B. spot
- C. reserved
- D. dynamic
- E. demand

Answer (B,C,E)

Question 11:

How is an EBS root volume created when launching an EC2 instance from a new EBS-backed AMI?

- A. S3 template
- B. original AMI
- C. snapshot
- D. instance store

Answer (C)

Question 12:

What Amazon AWS sources are available for creating an EBS-Backed Linux AMI? (select two)

- A. EC2 instance
- B. Amazon SMS
- C. VM Import/Export
- D. EBS Snapshot
- E. S3 bucket

Answer (A,D)

Question 13:

What is required to prevent an instance from being launched and incurring costs?

- A. stop instance
- B. terminate instance
- C. terminate AMI and de-register instance
- D. stop and de-register instance
- E. stop, deregister AMI and terminate instance

Answer (E)

Question 14:

What is an EBS Snapshot?

- A. backup of an EBS root volume and instance data
- B. backup of an EC2 instance
- C. backup of configuration settings
- D. backup of instance store

Answer (A)

Question 15:

Where are ELB and Auto-Scaling groups deployed as a unified solution for horizontal scaling?

- A. database instances
- B. all instances
- C. web server instances
- D. default VPC only

Answer (C)

Question 16:

What feature is supported when attaching or detaching an EBS volume from an EC2 instance?

- A. EBS volume can be attached and detached to an EC2 instance in the same region
- B. EBS volume can be attached and detached to an EC2 instance that is cross-region
- C. EBS volume can only be copied and attached to an EC2 instance that is cross-region
- D. EBS volume can only be attached and detached to an EC2 instance in the same Availability Zone

Answer (D)

Question 17:

What two statements correctly describe how to add or modify IAM roles to a running EC2 instance?

- A. attach an IAM role to an existing EC2 instance from the EC2 console
- B. replace an IAM role attached to an existing EC2 instance from the EC2 console
- C. attach an IAM role to the user account and relaunch the EC2 instance
- D. add the EC2 instance to a group where the role is a member

Answer (A,B)

Question 18:

What is the default behavior for an EC2 instance when terminated? (Select two)

- A. *DeleteOnTermination* attribute cannot be modified
- B. EBS root device volume and additional attached volumes are deleted immediately
- C. EBS data volumes that you attach at launch persist
- D. EBS root device volume is automatically deleted when instance terminates

Answer (C,D)

Question 19:

How do you launch an EC2 instance after it is terminated? (Select two)

- A. launch a new instance using the same AMI
- B. reboot instance from CLI
- C. launch a new instance from a Snapshot
- D. reboot instance from management console
- E. contact AWS support to reset

Answer (A,C)

Question 20:

What service can automate EBS snapshots (backups) for restoring EBS volumes?

- A. CloudWatch event
- B. SNS topic
- C. CloudTrail
- D. Amazon Inspector
- E. CloudWatch alarm

Answer (A)

Question 21:

What will cause AWS to terminate an EC2 instance on launch? (Select two)

- A. security group error
- B. number of EC2 instances on AWS account exceeded
- C. EBS volume limits exceeded
- D. multiple IP addresses assigned to instance
- E. unsupported instance type assigned

Answer (B,C)

Question 22:

You recently made some configuration changes to an EC2 instance. You then launched a new EC2 instance from the same AMI however none of the settings were saved. What is the cause of this error?

- A. did not save configuration changes to EC2 instance
- B. did not save configuration changes to AMI
- C. did not create new AMI
- D. did not reboot EC2 instance to enable changes

Answer (C)

Question 23:

What statements are correct concerning *DisableApiTermination* attribute? (Select two)

- A. cannot enable termination protection for Spot instances
- B. termination protection is disabled by default for an EC2 instance
- C. termination protection is enabled by default for an EC2 instance
- D. can enable termination protection for Spot instances
- E. *DisableApiTermination* attribute supported for EBS-backed instances only

Answer (A,B)

Question 24:

What is required to copy an encrypted EBS snapshot cross-account? (Select two)

- A. copy the unencrypted EBS snapshot to an S3 bucket
- B. distribute the custom key from CloudFront
- C. share the custom key for the snapshot with the target account
- D. share the encrypted EBS snapshot with the target account
- E. share the encrypted EBS snapshots publicly
- F. enable root access security on both accounts

Answer (C,D)

Question 25:

What three services enable Single-AZ as a default?

- A. EC2
- B. ELB
- C. Auto-Scaling
- D. DynamoDB
- E. S3

Answer (A,B,C)

Question 26:

What AWS service automatically publishes access logs every five minutes?

- A. VPC Flow Logs
- B. Elastic Load Balancer**
- C. CloudTrail
- D. DNS Route 53

Answer (B)

Question 27:

You have developed a web-based application for file sharing that will allow customers to access files. There are a variety of sizes that include larger .pdf and video files. What two solution stacks could tenants use for an online file sharing service? (Select two)

- A. EC2, ELB, Auto-Scaling, S3
- B. Route 53, Auto-Scaling, DynamoDB
- C. EC2, Auto-Scaling, RDS
- D. CloudFront

Answer (A,D)

Question 28:

What infrastructure services are provided to EC2 instances? (Select three)

- A. VPN
- B. storage
- C. compute
- D. transport
- E. security
- F. support

Answer (B,C,D)

Question 29:

What steps are required from AWS console to copy an EBS-backed AMI for a database instance cross-region?

- A. create Snapshot of data volume, select Copy, select destination region
- B. select Copy EBS-backed AMI option and destination region
- C. select copy database volume and destination region
- D. create Snapshot of EBS-backed AMI, select Copy Snapshot option, select destination region
- E. create Snapshot of Instance-store AMI, select Copy AMI option, select destination region

Answer (D)

Question 30:

How is capacity (compute, storage and network speed) managed and assigned to EC2 instances?

- A. AMI
- B. instance type
- C. IOPS
- D. Auto-Scaling

Answer (B)

Question 31:

What storage type enable permanent attachment of volumes to EC2 instances?

- A. S3
- B. RDS
- C. TDS
- D. EBS**
- E. instance store

Answer (D)

Question 32:

What is the recommended method for migrating (copying) an EC2 instance to a different region?

- A. terminate instance, select region, copy instance to destination region
- B. select AMI associated with EC2 instance and use *Copy AMI* option
- C. stop instance and copy AMI to destination region
- D. cross-region copy is not currently supported

Answer (B)

Question 33:

What are two attributes that define an EC2 instance type?

- A. vCPU
- B. license type
- C. EBS volume storage
- D. IP address
- E. Auto-Scaling

Answer (A,C)

Question 34:

How is an Amazon Elastic Load Balancer (ELB) assigned?

- A. per EC2 instance
- B. per Auto-Scaling group
- C. per subnet
- D. per VPC

Answer (A)

Question 35:

What method detects when to replace an EC2 instance that is assigned to an Auto-Scaling group?

- A. health check
- B. load balancing algorithm
- C. EC2 health check
- D. not currently supported
- E. dynamic path detection
- F. Auto-Scaling

Answer (A)

Question 36:

What two statements correctly describe Auto-Scaling groups?

- A. horizontal scaling of capacity
- B. decrease number of instances only
- C. EC2 instances are assigned to a group
- D. database instances only
- E. no support for multiple availability zones

Answer (A,C)

Question 37:

What is the default maximum number of Elastic IP addresses assignable per Amazon AWS region?

- A. 1
- B. 100
- C. 5
- D. unlimited

Answer (C)

Question 38:

How are snapshots for an EBS volume created when it is the root device for an instance?

- A. pause instance, unmount volume and snapshot
- B. terminate instance and snapshot
- C. unencrypt volume and snapshot dynamically
- D. stop instance, unmount volume and snapshot

Answer (D)

Question 39:

What cloud compute components are configured by tenants and not Amazon AWS support engineers? (Select three)

- A. hypervisor
- B. upstream physical switch
- C. virtual appliances
- D. guest operating system
- E. applications and databases
- F. RDS

Answer (C,D,E)

Question 40:

What three attributes are used to define a launch configuration template for an Auto-Scaling group?

- A. instance type
- B. private IP address
- C. Elastic IP
- D. security group
- E. AMI

Answer (A,D,E)

Question 41:

What three characteristics or limitations differentiate EC2 instance types?

- A. VPC only
- B. application type
- C. EBS volume only
- D. virtualization type
- E. AWS service selected

Answer (A,C,D)

Question 42:

Select two difference between HVM and PV virtualization types?

- A. HVM supports all current generation instance types
- B. HVM is similar to bare metal hypervisor architecture
- C. PV provides better performance than HVM for most instance types
- D. HVM doesn't support enhanced networking
- E. HVM doesn't support current generation instance types

Answer (A,B)

Virtual Private Cloud (VPC)

Question 1:

What are the minimum components required to enable a web-based application with public web servers and a private database tier? (select three)

- A. Internet gateway
- B. Assign EIP addressing to database instances on private subnet
- C. Virtual private gateway
- D. Assign database instances to private subnet and private IP addressing
- E. Assign EIP and private IP addressing to web servers on public subnet

Answer (A,D,E)

Question 2:

Refer to the network drawing. How are packets routed from private subnet to public subnet for the following web-based application with a database tier?

- A. Internet gateway
- B. custom route table
- C. 10.0.0.0/16
- D. nat-instance-id**
- E. igw-id
- F. add custom route table

Answer (D)

Question 3:

What VPC component provides Network Address Translation?

- A. NAT instance
- B. NAT gateway
- C. virtual private gateway
- D. Internet gateway**
- E. ECS

Answer (D)

Question 4:

What are the advantages of NAT gateway over NAT instance? (Select two)

- A. NAT gateway requires a single EC2 instance
- B. NAT gateway is scalable
- C. NAT gateway translates faster
- D. NAT gateways is a managed service
- E. NAT gateway is Linux-based

Answer (B,D)

Question 5:

What is the management responsibility of tenants and not Amazon AWS?

A. EC2 instances

B. RDS

C. Beanstalk

D. NAT instance

Answer (A,D)

Question 6:

What two features provide an encrypted (VPN) connection from VPC to an enterprise data center?

- A. Internet gateway
- B. Amazon RDS
- C. Virtual private gateway
- D. CSR 1000V router
- E. NAT gateway

Answer (C,D)

Question 7:

What two attributes are supported when configuring an Amazon Virtual private gateway (VPG)?

- A. route propagation
- B. Elastic IP (EIP)
- C. DHCP
- D. public IPv4 address
- E. public subnets

Answer (A,C)

Question 8:

What two features are available with AWS Direct Connect service?

- A. internet access
- B. extend on-premises VLANs to cloud
- C. bidirectional forwarding detection (BFD)
- D. load balancing between Direct Connect and VPN connection
- E. public and private AWS services

Answer (C,E)

Question 9:

When is Direct Connect a preferred solution over VPN IPsec?

- A. fast and reliable connection
- B. redundancy is a key requirement
- C. fast and easy to deploy
- D. layer 3 connectivity
- E. layer 2 connectivity

Answer (A)

Question 10:

You have been asked to setup a VPC endpoint connection between VPC and S3 buckets for storing backups and snapshots. What AWS components are currently required when configuring a VPC endpoint?

- A. Internet gateway
- B. NAT instance
- C. Elastic IP
- D. private IP address

Answer (D)

Question 11:

What are the primary advantages of VPC endpoints? (Select two)

- A. reliability
- B. cost
- C. throughput
- D. security

Answer (B,D)

Question 12:

What are the DHCP option attributes used to assign private DNS servers to your VPC?

- A. dns resolution and domain name
- B. hostnames and internet domain
- C. domain servers and domain name
- D. domain-name-servers and domain-name

Answer (D)

Question 13:

What DNS attributes are configured when **Default VPC** option is selected?

- A. DNS resolution: **yes** / DNS hostnames: **yes**
- B. DNS resolution: **yes** / DNS hostnames: **no**
- C. DNS resolution: **no** / DNS hostnames: **yes**
- D. DNS resolution: **no** / DNS hostnames: **no**

Answer (A)

Question 14:

What configuration settings are required from the remote VPC in order to create cross-account peering? (Select three)

- A. VPC ID
- B. account username
- C. account ID
- D. CMK keys
- E. VPC CIDR block
- F. volume type

Answer (A,C,E)

Question 15:

What CIDR block range is supported for IPv4 addressing and subnetting within a single VPC?

- A. /16 to /32
- B. /16 to /24
- C. /16 to /28
- D. /16 to /20

Answer (C)

Question 16:

What problem is caused by the fact that VPC peering does not permit transitive routing?

- A. additional VPC route tables to manage
- B. virtual private gateway is required
- C. Internet gateway is required for each VPC
- D. routing between connected spokes through hub VPC is complex
- E. increased number of peer links required

Answer (E)

Question 17:

What two statements correctly describes Elastic Load Balancer operation?

- A. spans multiple regions
- B. assigned per EC2 instance
- C. assigned per subnet
- D. assigned per Auto-Scaling group
- E. no cross-region support

Answer (D,E)

Question 18:

What are two advantages of Elastic IP (EIP) over AWS public IPv4 addresses?

- A. EIP can be reassigned
- B. EIP is private
- C. EIP is dynamic
- D. EIP is persistent
- E. EIP is public and private

Answer (A,D)

Question 19:

What AWS services are globally managed? (Select four)

- A. IAM
- B. S3
- C. CloudFront
- D. Route 53
- E. DynamoDB
- F. WAF
- G. ELB

Answer (A,C,D,F)

Question 20:

What methods are available for creating a VPC? (Select three)

A. AWS management console

B. AWS marketplace

C. VPC wizard

D. VPC console

E. Direct Connect

Answer (A,C,D)

Question 21:

What two default settings are configured for tenants by AWS when **Default VPC** option is selected?

- A. creates a size /20 default subnet in each Availability Zone
- B. creates an Internet gateway
- C. creates a main route table with local route 10.0.0.0/16
- D. create a virtual private gateway
- E. create a security group that explicitly denies all traffic

Answer (A,B)

Question 22:

What three statements correctly describes IP address allocation within a VPC?

- A. EC2 instance must be terminated to reassign an IP address
- B. EC2 instance that is paused can reassign IP address
- C. EC2 instance that is stopped can reassign IP address
- D. private IP addresses are allocated from a pool and can be reassigned
- E. private IP addresses can be assigned by tenant
- F. VPC supports dual stack mode (IPv4/IPv6)

Answer (A,E,F)

Question 23:

What are two advantages of selecting default tenancy option for your VPC when creating it?

- A. performance and reliability
- B. some AWS services do not work with a dedicated tenancy VPC
- C. tenant can launch instances within VPC as default or dedicated instances
- D. instance launch is faster

Answer (B,C)

Question 24:

What is the purpose of a local route within a VPC route table?

- A. local route is derived from the default VPC CIDR block 10.0.0.0/16
- B. communicate between instances within the same subnet or different subnets
- C. used to communicate between instances within the same subnet
- D. default route for communicating between private and public subnets
- E. only installed in the main route table

Answer (C)

Question 25:

What is the default behavior when adding a new subnet to your VPC? (Select two)

- A. new subnet is associated with the main route table
- B. new subnet is associated with the custom route table
- C. new subnet is associated with any selected route table
- D. new subnet is assigned to the default subnet
- E. new subnet is assigned from the VPC CIDR block

Answer (A,E)

Question 26:

You have enabled Amazon RDS database services in VPC1 for an application that has public web servers in VPC2. How do you connect the web servers to the RDS database instance so they can communicate considering the VPC's are in the same region?

- A. VPC endpoints
- B. VPN gateway
- C. path-based routing
- D. VPC peering**
- E. AWS Network Load Balancer

Answer (D)

Question 27:

What AWS services now support VPC endpoints feature for optimizing security?
(Select three)

- A. Kinesis
- B. DNS Route 53
- C. S3
- D. DynamoDB
- E. RDS

Answer (A,C,D)

Question 28:

What are three characteristics of an Amazon Virtual Private Cloud?

- A. public and private IP addressing
- B. broadcasts
- C. multiple private IP addresses per network interface
- D. dedicated single tenant hardware only
- E. persistent public IP addresses
- F. HSRP

Answer (A,C,E)

Question 29:

What is the difference between VPC main route table and custom route table?

- A. VPC only creates a main route table when started
- B. custom route table is the default
- C. custom route table is created for public subnets
- D. custom route table is created for private subnets
- E. main route table is created for public and private subnets

Answer (C)

Question 30:

What is the purpose of the native VPC router?

- A. route packets across the internet
- B. route packets between private cloud instances
- C. route packets between subnets
- D. route packets from instances to S3 storage volumes
- E. route packets across VPN

Answer (C)

Question 31:

How are private DNS servers assigned to an Amazon VPC?

- A. not supported
- B. select nondefault VPC
- C. select default VPC
- D. select EC-2 classic

Answer (B)

Question 32:

What are two characteristics of an Amazon security group?

- A. instance level packet filtering
- B. deny rules only
- C. permit rules only
- D. subnet level packet filtering
- E. inbound only

Answer (A,C)

Question 33:

What statement is true of Network Access Control Lists (ACL) operation within an Amazon VPC?

- A. instance and subnet level packet filtering
- B. subnet level packet filtering**
- C. inbound only
- D. only one ACL allowed per VPC
- E. outbound only

Answer (B)

Question 34:

How are packets forwarded between public and private subnets within VPC?

- A. EIP
- B. NAT**
- C. main route table
- D. VPN

Answer (B)

Question 35:

What two statements accurately describe Amazon VPC architecture?

- A. Elastic Load Balancer (ELB) cannot span multiple availability zones
- B. VPC does not support DMVPN connection
- C. VPC subnet cannot span multiple availability zones
- D. VPC cannot span multiple regions
- E. Flow logs are not supported within a VPC

Answer (C,D)

Question 36:

What is a requirement for attaching EC2 instances to on-premises clients and applications?

A. Amazon Virtual Private Gateway (VPN)

B. Amazon Internet Gateway

C. VPN Connection

D. Elastic Load Balancer (ELB)

E. NAT

Answer (B)

Question 37:

What two statements correctly describe Amazon virtual private gateway?

- A. assign to private subnets only
- B. assign to public subnets only
- C. single virtual private gateway per VPC
- D. multiple virtual private gateways per VPC
- E. single virtual private gateway per region

Answer (A,C)

Question 38:

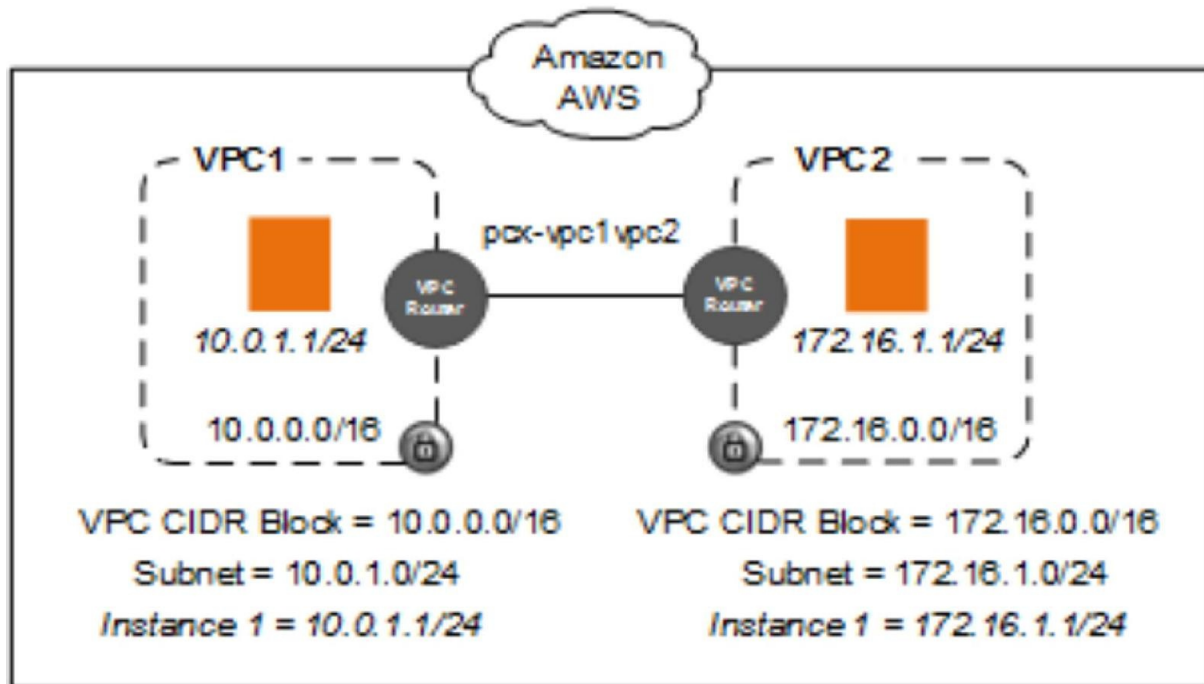
What is the maximum access port speed available with Amazon Direct Connect service?

- A. 1 Gbps
- B. 10 Gbps**
- C. 500 Mbps
- D. 100 Gbps
- E. 100 Mbps

Answer (B)

Question 39:

Refer to the drawing. Your company has asked you to configure a peering link between two VPCs that are currently not connected or exchanging any packets. What destination and target is configured in the routing table of VPC1 to enable packet forwarding to VPC2?



- A. destination = `172.16.0.0/16`
target = `pcx-vpc2vpc1`
- B. destination = `10.0.0.0/16`
target = `pcx-vpc2`
- C. destination = `172.16.0.0/16`
target = `10.0.0.0/16`
- D. destination = `172.16.0.0/16`
target = `pcx-vpc1vpc2`
- E. default route only

Answer (D)

Question 40:

How is routing enabled by default within a VPC for an EC2 instance?

- A. add a default route
- B. main route table**
- C. custom route table
- D. must be configured explicitly

Answer (B)

Question 41:

What three features are not supported with VPC peering?

A. overlapping CIDR blocks

B. IPv6 addressing

C. Gateways

D. transitive routing

E. RedShift

F. ElastiCache

Answer (A,C,D)

Question 42:

What route is used in a VPC routing table for packet forwarding to a Gateway?

- A. static route
- B. 10.0.0.0/16
- C. tenant configured
- D. 0.0.0.0/0**
- E. 0.0.0.0/16

Answer (D)

Question 43:

You are asked to deploy a web application comprised of multiple public web servers with only private addressing assigned. What Amazon AWS solutions enables multiple servers on a private subnet with only a single EIP required and Availability Zone redundancy?

- A. NAT instance
- B. Internet gateway
- C. virtual private gateway
- D. NAT gateway**
- E. Elastic Network Interface (ENI)

Answer (D)

Question 44:

What is the IP addressing schema assigned to a default VPC?

- A. 172.31.0.0/16 CIDR block subnetted with 172.31.0.0/20
- B. 172.16.0.0/16 CIDR block subnetted with 172.16.0.0/24
- C. 10.0.0.0/16 CIDR block subnetted with 10.0.0.0/24
- D. 172.16.0.0/24 CIDR block subnetted with 172.31.0.0/18

Answer (A)

Question 45:

What default configuration and components are added by AWS when **Default VPC** type is selected? (Select three)

- A. Internet gateway
- B. virtual private gateway
- C. NAT instance
- D. security group
- E. DNS

Answer (A,D,E)

Question 46:

What feature requires tenants to disable source/destination check?

- A. Elastic IP (EIP)
- B. data replication
- C. VPC peering
- D. NAT**
- E. Internet gateway

Answer (D)

Storage Services

Question 1:

What AWS storage solution allows thousands of EC2 instances to simultaneously upload, access, delete and share files?

- A. EBS
- B. S3
- C. Glacier
- D. EFS

Answer (D)

Question 2:

What is required for an EFS mount target? (Select two)

- A. EIP
- B. DNS name
- C. IP address
- D. DHCP
- E. IAM role

Answer (B,C)

Question 3:

What connectivity features are recommended for copying on-premises files to EFS? (Select two)

- A. VPN IPsec
- B. Internet Gateway
- C. Direct Connect
- D. File Sync
- E. FTP
- F. AWS Storage Gateway

Answer (C,D)

Question 4:

What AWS services encrypts data at rest by default? (Select two)

- A. S3
- B. AWS Storage Gateway
- C. EBS
- D. Glacier
- E. RDS

Answer (B,D)

Question 5:

What fault tolerant features does S3 storage provide? (Select three)

- A. cross-region replication
- B. versioning must be disabled
- C. cross-region asynchronous replication of objects
- D. synchronous replication of objects within a region
- E. multiple destination buckets

Answer (A,C,D)

Question 6:

What is the fastest technique for deleting 900 objects in an S3 bucket with a single HTTP request?

- A. Multi-Part Delete API
- B. Multi-Object Delete API**
- C. 100 objects is maximum per request
- D. Fast-Delete API

Answer (B)

Question 7:

What security controls technique is recommended for S3 cross-account access?

- A. IAM group
- B. security groups
- C. S3 ACL
- D. bucket policies

Answer (D)

Question 8:

What are two advantages of cross-region replication of an S3 bucket?

- A. cost
- B. security compliance
- C. scalability
- D. Beanstalk support
- E. minimize latency

Answer (B,E)

Question 9:

What are two primary difference between Amazon S3 Standard and S3/RRS storage classes?

- A. Amazon Standard does not replicate at all
- B. RRS provides higher durability
- C. RRS provides higher availability
- D. RRS does not replicate objects as many times
- E. application usage is different

Answer (D,E)

Question 10:

What two features are enabled with S3 services?

- A. store objects of any size
- B. dynamic web content
- C. supports Provisioned IOPS
- D. store virtually unlimited amounts of data
- E. bucket names are globally unique

Answer (D,E)

Question 11:

What new feature was recently added to SQS that defines how messages are ordered?

- A. streams
- B. SNS
- C. FIFO
- D. TLS
- E. decoupling

Answer (C)

Question 12:

What two AWS storage types are persistent?

- A. ephemeral
- B. S3
- C. EBS
- D. instance store
- E. SAML

Answer (B,C)

Question 13:

Select three on-premises backup solutions used for copying data to an Amazon AWS S3 bucket?

- A. AWS Import/Export
- B. RDS
- C. Snowball
- D. Availability Zone (AZ) replication
- E. AWS Storage Gateway

Answer (A,C,E)

Question 14:

You have 1 TB of data and want to archive the data that won't be accessed that often. What Amazon AWS storage solution is recommended?

- A. Glacier
- B. EBS
- C. ephemeral
- D. CloudFront

Answer (A)

Question 15:

What are three methods of accessing DynamoDB for customization purposes?

- A. CLI
- B. AWS console
- C. API call
- D. vCenter
- E. Beanstalk

Answer (A,B,C)

Question 16:

What are two primary differences between Glacier and S3 storage services?

- A. Glacier is lower cost
- B. S3 is lower cost
- C. Glacier is preferred for frequent data access with lower latency
- D. S3 is preferred for frequent data access with lower latency
- E. S3 supports larger file size

Answer (A,D)

Question 17:

What statement correctly describes the operation of AWS Glacier archive?

- A. archive is a group of vaults
- B. archive is an unencrypted vault
- C. archive supports aggregated files only
- D. maximum file size is 1 TB
- E. archive supports single and aggregated files

Answer (E)

Question 18:

What are three primary differences between S3 vs EBS?

- A. S3 is a multi-purpose public internet-based storage
- B. EBS is directly assigned to a tenant VPC EC2 instance
- C. EBS and S3 provide persistent storage
- D. EBS snapshots are typically stored on S3 buckets
- E. EBS and S3 use buckets to manage files
- F. EBS and S3 are based on block level storage

Answer (A,B,D)

Question 19:

What on-premises solution is available from Amazon AWS to minimize latency for all data?

- A. Gateway-VTL
- B. Gateway-cached volumes
- C. Gateway-stored volumes
- D. EBS
- E. S3 bucket
- F. ElastiCache

Answer (C)

Question 20:

What feature transitions S3 storage to Standard-IA for cost optimization?

- A. RRS/S3
- B. Glacier vault
- C. storage class analysis
- D. path-based routing

Answer (C)

Question 21:

How does AWS uniquely identify S3 objects?

- A. bucket name
- B. version
- C. key
- D. object tag

Answer (C)

Question 22:

What is the advantage of read-after-write consistency for S3 buckets?

- A. no stale reads for PUT of any new object in all regions
- B. higher throughput for all requests
- C. stale reads for PUT requests in some regions
- D. no stale reads for GET requests in a single regions

Answer (A)

Question 23:

What is the maximum single file object size supported with Amazon S3?

- A. 5 GB
- B. 5 TB**
- C. 1 TB
- D. 100 GB

Answer (B)

Question 24:

What security problem is solved by using Cross-Origin Resource Sharing (CORS)?

- A. enable HTTP requests from within scripts to a different domain
- B. enable sharing of web-based files between different buckets
- C. provide security for third party objects within AWS
- D. permits sharing objects between AWS services

Answer (A)

Question 25:

What is recommended for migrating 40 TB of data from on-premises to S3 when the internet link is often overutilized?

- A. AWS Storage gateway
- B. AWS Snowball**
- C. AWS Import/Export
- D. AWS Elastic File System
- E. AWS Elasticsearch
- F. AWS Multi-Part Upload API

Answer (B)

Question 26:

Your company is publishing an online catalog of books that is currently using DynamoDB for storing the information associated with each item. There is a requirement to add images for each book. What solution is most cost effective and designed for that purpose?

- A. RedShift
- B. EBS
- C. RDS
- D. S3**
- E. Kinesis

Answer (D)

Question 27:

You have an application that collects monitoring data from 10,000 sensors (IoT) deployed in the USA. The datapoints are comprised of video events for home security and environment status alerts. The application will be deployed to AWS with EC2 instances as data collectors. What AWS storage service is preferred for storing video files from sensors?

- A. RedShift
- B. RDS
- C. S3
- D. DynamoDB

Answer (C)

Security Architecture

Question 1:

What statements correctly describe security groups within a VPC? (Select three)

- A. default security group only permit inbound traffic
- B. security groups are stateful firewalls
- C. only allow rules are supported
- D. allow and deny rules are supported
- E. security groups are associated to network interfaces

Answer (B,C,E)

Question 2:

What three items are required to configure a security group rule?

A. protocol type

B. VPC name

C. port number

D. source IP

E. destination IP

F. description

Answer (A,C,D)

Question 3:

What two source IP address types are permitted in a security group rule?

- A. only CIDR blocks with /16 subnet mask
- B. source IP address 0.0.0.0/0
- C. single source IP address with /24 subnet mask
- D. security group id
- E. IPv6 address with /64 prefix length

Answer (B,D)

Question 4:

What protocols must be enabled for remote access to Linux-based and Windows-based EC2 instances?

- A. SSH, ICMP, Telnet
- B. SSH, HTTP, RDP
- C. SSH, HTTP, SSL
- D. SSH, RDP, ICMP

Answer (D)

Question 5:

Distinguish network ACLs from security groups within a VPC? (Select three)

- A. ACL filters at the subnet level
- B. ACL is based on deny rules only
- C. ACL is applied to instances and subnets
- D. ACL is stateless
- E. ACL supports a numbered list for filtering

Answer (A,D,E)

Question 6:

What happens to the security permissions of a tenant when an IAM role is granted? (Select two)

- A. tenant inherits only permissions assigned to the IAM role temporarily
- B. add security permissions of the IAM role to existing permissions
- C. previous security permissions are no longer in effect
- D. previous security permissions are deleted unless reconfigured
- E. tenant inherits only read permissions assigned to the IAM role

Answer (A,C)

Question 7:

Where are IAM permissions granted to invoke and execute a Lambda function for S3 access? (Select two)

- A. S3 bucket
- B. EC2 instance
- C. Lambda function
- D. IAM role
- E. event mapping

Answer (A,D)

Question 8:

You have some developers working on code for an application and they require temporary access to AWS cloud up to an hour. What is the easiest web-based solution from AWS to provides access and minimize security exposure?

- A. ACL
- B. security group
- C. IAM group
- D. STS**
- E. EFS

Answer (D)

Question 9:

What two methods are used to request temporary credentials based on AWS Security Token Service (STS)?

A. Web Identity Federation

B. LDAP

C. IAM identity

D. dynamic ACL

E. private key rotation

Answer (A,C)

Question 10:

What two components are required for enabling SAML authentication requests to AWS Identity and Access Management (IAM)?

- A. access keys
- B. session token
- C. SSO
- D. identity provider (IdP)
- E. SAML provider entity

Answer (D,E)

Question 11:

What are two reasons for deploying Origin Access Identity (OAI) when enabling CloudFront?

- A. prevent users from deleting objects in S3 buckets
- B. mitigate distributed denial of service attacks (DDoS)
- C. prevent users from accessing objects with Amazon S3 URL
- D. prevent users from accessing objects with CloudFront URL
- E. replace IAM for internet-based customer authentication

Answer (B,C)

Question 12:

What solutions are recommended to mitigate DDoS attacks? (Select three)

- A. host-based firewall
- B. elastic load balancer
- C. WAF
- D. SSL/TLS
- E. Bastion host
- F. NAT gateway

Answer (B,C,E)

Question 13:

What features are required to prevent users from bypassing AWS CloudFront security? (Select three)

- A. Bastion host
- B. signed URL
- C. IP whitelist
- D. signed cookies
- E. origin access identity (OAI)

Answer (B,D,E)

Question 14:

What is the advantage of resource-based policies for cross-account access?

- A. trusted account permissions are not replaced
- B. trusted account permissions are replaced
- C. resource-based policies are easier to deploy
- D. trusting account manages all permissions

Answer (A)

Question 15:

Select three requirements for configuring a Bastion host?

- A. EIP
- B. SSH inbound permission
- C. default route
- D. CloudWatch logs group
- E. VPN
- F. Auto-Scaling

Answer (A,B,D)

Question 16:

What rule must be added to the security group assigned to a mount target instance that enables EFS access from an EC2 instance?

- A. Type = EC2, protocol = IP, port = 2049, source = remote security group id
- B. Type = EC2, protocol = EFS, port = 2049, source = 0.0.0.0/0
- C. Type = NFS, protocol = TCP, port = 2049, source = remote security group id
- D. Type = NFSv4, protocol = UDP, port = 2049, source = remote security group id

Answer (C)

Question 17:

What statement correctly describes IAM architecture?

- A. IAM security is unified per region and replicated based on requirements for an AWS tenant account
- B. IAM security is defined per region for roles only on an AWS tenant account
- C. IAM security is globally unified across the AWS cloud for an AWS tenant account
- D. IAM security is defined separately per region and cross-region security enabled for an AWS tenant account

Answer (C)

Question 18:

What are two advantages of customer-managed encryption keys (CMK)?

- A. create and rotate encryption keys
- B. AES-128 cipher for data at rest
- C. audit encryption keys
- D. encrypts data in-transit for server-side encryption only

Answer (A,C)

Question 19:

What feature is not available with AWS Trusted Advisor?

- A. cost optimization
- B. infrastructure best practices
- C. vulnerability assessment
- D. monitor application metrics

Answer (C)

Question 20:

What is required to Ping from a source instance to a destination instance?

A. **Network ACL:** not required

Security Group: allow ICMP outbound on source/destination EC2 instances

B. **Network ACL:** allow ICMP inbound/outbound on source/destination subnets

Security Group: not required

C. **Network ACL:** allow ICMP inbound/outbound on source/destination subnets

Security Group: allow ICMP outbound on source EC2 instance

Security Group: allow ICMP inbound on destination EC2 instance

D. **Network ACL:** allow TCP inbound/outbound on source/destination subnets

Security Group: allow TCP and ICMP inbound on source EC2 instance

Answer (C)

Question 21:

What two steps are required to grant cross-account permissions between AWS accounts?

- A. create an IAM user
- B. attach a trust policy to S3
- C. create a transitive policy
- D. attach a trust policy to the role
- E. create an IAM role

Answer (D,E)

Question 22:

You have configured a security group to allow ICMP, SSH and RDP inbound and assigned the security group to all instances in a subnet. There is no access to any Linux-based or Windows-based instances and you cannot Ping any instances. The network ACL for the subnet is configured to allow all inbound traffic to the subnet. What is the most probable cause?

- A. on-premises firewall rules
- B. security group and network ACL outbound rules
- C. network ACL outbound rules
- D. security group outbound rules
- E. Bastion host required

Answer (C)

Question 23:

What three techniques provide authentication security on S3 volumes?

- A. bucket policies
- B. network ACL
- C. Identity and Access Management (IAM)
- D. encryption
- E. AES256

Answer (A,B,C)

Question 24:

What statement correctly describes support for AWS encryption of S3 objects?

- A. tenants manage encryption for server-side encryption of S3 objects
- B. Amazon manages encryption for server-side encryption of S3 objects**
- C. client-side encryption of S3 objects is not supported
- D. S3 buckets are encrypted only
- E. SSL is only supported with Glacier storage

Answer (B)

Question 25:

What authentication method provides Federated Single Sign-On (SSO) for cloud applications?

- A. ADS
- B. ISE
- C. RADIUS
- D. TACACS
- E. SAML

Answer (E)

Question 26:

Based on the Amazon security model, what infrastructure configuration and associated security is the responsibility of tenants and not Amazon AWS? (Select two)

- A. dedicated cloud server
- B. hypervisor
- C. operating system level
- D. application level
- E. upstream physical switch

Answer (C,D)

Question 27:

What security authentication is required before configuring or modifying EC2 instances? (Select three)

- A. authentication at the operating system level
- B. EC2 instance authentication with asymmetric keys
- C. authentication at the application level
- D. Telnet username and password
- E. SSH/RDP session connection

Answer (A,B,E)

Question 28:

What feature is part of Amazon Trusted Advisor?

- A. security compliance
- B. troubleshooting tool
- C. EC2 configuration tool
- D. security certificates

Answer (A)

Question 29:

What are two best practices for account management within Amazon AWS?

- A. do not use root account for common administrative tasks
- B. create a single AWS account with multiple IAM users that have root privilege
- C. create multiple AWS accounts with multiple IAM users per AWS account
- D. use root account for all administrative tasks
- E. create multiple root user accounts for redundancy

Answer (A,C)

Question 30:

What AWS feature is recommended for optimizing data security?

- A. Multi-factor authentication
- B. username and encrypted password
- C. Two-factor authentication
- D. SAML
- E. Federated LDAP

Answer (A)

Question 31:

What IAM class enables an EC2 instance to access a file object in an S3 bucket?

- A. user
- B. root
- C. role
- D. group

Answer (C)

Question 32:

What are three recommended solutions that provide protection and mitigation from distributed denial of service (DDoS) attacks?

A. security groups

B. CloudWatch

C. encryption

D. WAF

E. data replication

F. Auto-Scaling

Answer (A,B,D)

Question 33:

What are three recommended best practices when configuring Identity and Access Management (IAM) security services?

- A. Lock or delete your root access keys when not required
- B. IAM groups are not recommended for storage security
- C. create an IAM user with administrator privileges
- D. share your password and/or access keys with members of your group only
- E. delete any AWS account where the access keys are unknown

Answer (A,C,E)

Question 34:

What two features create security zones between EC2 instances within a VPC?

- A. security groups
- B. Virtual Security Gateway
- C. network ACL
- D. WAF

Answer (A,B)

Question 35:

What AWS service provides vulnerability assessment services to tenants within the cloud?

- A. Amazon WAF
- B. Amazon Inspector**
- C. Amazon Cloud Logic
- D. Amazon Trusted Advisor

Answer (B)

Question 36:

What are two primary differences between AD Connector and Simple AD for cloud directory services?

- A. Simple AD requires an on-premises ADS directory
- B. Simple AD is fully managed and setup in minutes
- C. AD Connector requires an on-premises ADS directory
- D. Simple AD is more scalable than AD Connector
- E. Simple AD provides enhanced integration with IAM

Answer (B,C)

Database Services

Question 1:

How is load balancing enabled for multiple tasks to the same container instance?

- A. path-based routing
- B. reverse proxy
- C. NAT
- D. dynamic port mapping
- E. dynamic listeners

Answer (D)

Question 2:

What encryption support is available for tenants that are deploying AWS DynamoDB?

- A. server-side encryption
- B. client-side encryption**
- C. client-side and server-side encryption
- D. encryption not supported
- E. block level encryption

Answer (B)

Question 3:

What are three primary reasons for deploying ElastiCache?

- A. data security
- B. managed service
- C. replication with Redis
- D. durability
- E. low latency

Answer (B,C,E)

Question 4:

What service does not support session data persistence store to enable web-based stateful applications?

- A. RDS
- B. Memcached
- C. DynamoDB
- D. Redis
- E. RedShift

Answer (B)

Question 5:

How does Memcached implement horizontal scaling?

- A. Auto-Scaling
- B. database store
- C. partitioning
- D. EC2 instances
- E. S3 bucket

Answer (C)

Question 6:

What two options are available for tenants to access ElastiCache?

A. VPC peering link

B. EC2 instances

C. EFS mount

D. cross-region VPC

Answer (A,B)

Question 7:

What two statements correctly describe in-transit encryption support on ElastiCache platform ?

- A. not supported for ElastiCache platform
- B. supported on Redis replication group
- C. encrypts cached data at rest
- D. not supported on Memcached cluster
- E. IPsec must be enabled first

Answer (B,D)

Question 8:

What Amazon AWS platform is designed for complex analytics of a variety of large data sets based on custom code. The applications include machine learning and data transformation?

- A. EC2
- B. Beanstalk
- C. Redshift
- D. EMR**

Answer (D)

Question 9:

What are two primary advantages of DynamoDB?

- A. SQL support
- B. managed service
- C. performance
- D. CloudFront integration

Answer (B,C)

Question 10:

What two fault tolerant features does Amazon RDS support?

- A. copy snapshot to a different region
- B. create read replica to a different region
- C. copy unencrypted read-replica only
- D. copy read/write replica and snapshot

Answer (A,B)

Question 11:

What managed services are included with Amazon RDS? (select four)

- A. assign network capacity to database instances
- B. install database software
- C. perform regular backups
- D. data replication across multiple availability zones
- E. data replication across single availability zone only
- F. configure database
- G. performance tuning

Answer (A,B,C,D)

Question 12:

What two configuration features are required to create a private database instance?

- A. security group
- B. network ACL
- C. CloudWatch
- D. Elastic IP (EIP)
- E. Nondefault VPC
- F. DNS

Answer (A,F)

Question 13:

What storage type is recommended for an online transaction processing (OLTP) application deployed to Multi-AZ RDS with significant workloads?

- A. General Purpose SSD
- B. Magnetic
- C. EBS volumes
- D. Provisioned IOPS**

Answer (D)

Question 14:

What features are supported with Amazon RDS? (Select three)

- A. horizontal scaling with multiple read replicas
- B. elastic load balancing RDS read replicas
- C. replicate read replicas cross-region
- D. automatic failover to master database instance
- E. application load balancer (ALB)

Answer (A,C,E)

Question 15:

What are three advantages of standby replica in a Multi-AZ RDS deployment?

- A. fault tolerance
- B. eliminate I/O freezes
- C. horizontal scaling
- D. vertical scaling
- E. data redundancy

Answer (A,B,E)

Question 16:

What consistency model is the default used by DynamoDB?

- A. strongly consistent
- B. eventually consistent**
- C. no default model
- D. casual consistency
- E. sequential consistency

Answer (B)

Question 17:

What does RDS use for database and log storage?

- A. EBS
- B. S3
- C. instance store
- D. local store
- E. SSD

Answer (A)

Question 18:

What statements correctly describe support for Microsoft SQL Server within Amazon VPC? (Select three)

- A. read/write replica
- B. read replica only
- C. vertical scaling
- D. native load balancing
- E. EBS storage only
- F. S3 storage only

Answer (B,C,D)

Question 19:

Select two features available with Amazon RDS for MySQL?

- A. Auto-Scaling
- B. read requests to standby replicas
- C. real-time database replication
- D. active read requests only

Answer (B,C)

Question 20:

What are two characteristics of Amazon RDS?

- A. database managed service
- B. NoSQL queries
- C. native load balancer
- D. database write replicas
- E. automatic failover of read replica

Answer (A,C)

Question 21:

What caching engines are supported with Amazon ElastiCache? (Select two)

- A. HAProxy
- B. Route 53
- C. RedShift
- D. Redis
- E. Memcached
- F. CloudFront

Answer (D,E)

Question 22:

What are three primary characteristics of DynamoDB?

- A. less scalable than RDS
- B. static content
- C. store metadata for S3 objects
- D. replication to three Availability Zones
- E. high read/write throughput

Answer (C,D,E)

Question 23:

What are three examples of using Lambda functions to move data between AWS services?

- A. read data directly from DynamoDB streams to RDS
- B. read data from Kinesis stream and write data to DynamoDB
- C. read data from DynamoDB stream to Firehose and write to S3
- D. read data from S3 and write metadata to DynamoDB
- E. read data from Kinesis Firehose to Kinesis data stream

Answer (B,C,D)

Question 24:

You have enabled Amazon RDS database services in VPC1 for an application with public web servers in VPC2. How do you connect the web servers to the RDS database instance so they can communicate considering the VPC's are in different regions?

- A. VPC endpoints
- B. VPN gateway
- C. path-based routing
- D. publicly accessible database
- E. VPC peering

Answer (D)

Question 25:

You have a requirement to create an index to search customer objects stored in S3 buckets. The solution should enable you to create a metadata search index for each object stored to an S3 bucket. Select the most scalable and cost effective solution?

- A. RDS, ElastiCache
- B. DynamoDB, Lambda**
- C. RDS, EMR, ALB
- D. RedShift

Answer (B)

Question 26:

What are three advantages of using DynamoDB over S3 for storing IoT sensor data where there are 100,000 datapoint samples sent per minute?

- A. S3 must create a single file for each event
- B. IoT can write data directly to DynamoDB
- C. DynamoDB provides fast read/writes to a structured table for queries
- D. DynamoDB is designed for frequent access and fast lookup of small records
- E. S3 is designed for frequent access and fast lookup of smaller records
- F. IoT can write data directly to S3

Answer (B,C,D)

Question 27:

Your company is a provider of online gaming that customers access with various network access devices including mobile phones. What is a data warehousing solutions for large amounts of information on player behavior, statistics and events for analysis using SQL tools?

- A. RedShift
- B. DynamoDB
- C. RDS
- D. DynamoDB
- E. Elasticsearch

Answer (A)

Question 28:

What two statements are correct when comparing Elasticsearch and RedShift as analytical tools?

- A. Elasticsearch is a text search engine and document indexing tool
- B. RedShift supports complex SQL-based queries with Petabyte sized data store
- C. Elasticsearch supports SQL queries
- D. RedShift provides only basic analytical services
- E. Elasticsearch does not support JSON data type

Answer (A,B)

Question 29:

What happens when read or write requests exceed capacity units (throughput capacity) for a DynamoDB table or index? (Select two)

- A. DynamoDB automatically increases read/write units
- B. DynamoDB can throttle requests so that requests are not exceeded
- C. HTTP 400 code is returned (Bad Request)
- D. HTTP 500 code is returned (Server Error)
- E. DynamoDB automatically increases read/write units if provisioned throughput is enabled

Answer (B,C)

Question 30:

What read consistency method provides lower latency for *GetItem* requests?

- A. strongly persistent
- B. eventually consistent
- C. strongly consistent
- D. write consistent

Answer (B)

Question 31:

You must specify strongly consistent read and write capacity for your DynamoDB database. You have determined read capacity of 128 Kbps and write capacity of 25 Kbps is required for your application. What is the read and write capacity units required for DynamoDB table?

- A. 32 read units, 25 write units
- B. 1 read unit, 1 write unit
- C. 16 read units, 2.5 write units
- D. 64 read units, 10 write units

Answer (A)

Question 32:

What DynamoDB capacity management technique is based on the tenant specifying an upper and lower range for read/write capacity units?

- A. demand
- B. provisioned throughput
- C. reserved capacity
- D. auto scaling
- E. general purpose

Answer (D)

Question 33:

What is the maximum volume size of a MySQL RDS database?

- A. 6 TB
- B. 3 TB
- C. 16 TB**
- D. unlimited

Answer (C)

Question 34:

What is the maximum size of a DynamoDB record (item)?

- A. 400 KB
- B. 64 KB
- C. 1 KB
- D. 10 KB

Answer (A)

Fault Tolerant Systems

Question 1:

What two features describe an Application Load Balancer (ALB)?

- A. dynamic port mapping
- B. SSL listener
- C. layer 7 load balancer
- D. backend server authentication
- E. multi-region forwarding

Answer (A,C)

Question 2:

What enables load balancing between multiple applications per load balancer?

- A. listeners
- B. sticky sessions
- C. path-based routing
- D. backend server authentication

Answer (C)

Question 3:

What three features are characteristic of Classic Load Balancer?

- A. dynamic port mapping
- B. path-based routing
- C. SSL listener
- D. backend server authentication
- E. ECS
- F. Layer 4 based load balancer

Answer (C,D,F)

Question 4:

What security feature is only available with Classic Load Balancer?

- A. IAM role
- B. SAML
- C. back-end server authentication
- D. security groups
- E. LDAP

Answer (C)

Question 5:

What is a primary difference between Classic and Network Load Balancer?

- A. IP address target
- B. Auto-Scaling
- C. protocol target
- D. cross-zone load balancing
- E. listener

Answer (A)

Question 6:

What are the first two conditions used by Amazon AWS default termination policy for Multi-AZ architecture?

- A. unprotected instance with oldest launch configuration
- B. Availability Zone (AZ) with the most instances
- C. at least one instance that is not protected from scale in
- D. unprotected instance closest to the next billing hour
- E. random selection of any unprotected instance

Answer (B,C)

Question 7:

What feature is used for horizontal scaling of consumers to process data records from a Kinesis data stream?

- A. vertical scaling shards
- B. Auto-Scaling**
- C. Lambda
- D. Elastic Load Balancer

Answer (B)

Question 8:

What DNS records can be used for pointing a zone apex to an Elastic Load Balancer or CloudFront distribution? (Select two)

A. Alias

B. CNAME

C. MX

D. A

E. Name Server

Answer (A,D)

Question 9:

What services are primarily provided by DNS Route 53? (Select three)

- A. load balancing web servers within a private subnet
- B. resolve hostnames and IP addresses
- C. load balancing web servers within a public subnet
- D. load balancing data replication requests between ECS containers
- E. resolve queries and route internet traffic to AWS resources
- F. automated health checks to EC2 instances

Answer (B,E,F)

Question 10:

What are two features that correctly describe Availability Zone (AZ) architecture?

- A. multiple regions per AZ
- B. interconnected with private WAN links
- C. multiple AZ per region
- D. interconnected with public WAN links
- E. data auto-replicated between zones in different regions
- F. Direct Connect supports Layer 2 connectivity to region

Answer (B,C)

Question 11:

How is Route 53 configured for Warm Standby fault tolerance? (Select two)

- A. automated health checks
- B. path-based routing
- C. failover records
- D. Alias records

Answer (A,C)

Question 12:

How is DNS Route 53 configured for Multi-Site fault tolerance? (Select two)

- A. IP address
- B. weighted records (non-zero)
- C. health checks
- D. Alias records
- E. zero weighted records

Answer (B,C)

Question 13:

What is an Availability Zone?

- A. data center
- B. multiple VPCs
- C. multiple regions
- D. single region
- E. multiple EC2 server instances

Answer (A)

Question 14:

How are DNS records managed with Amazon AWS to enable high availability?

- A. Auto-Scaling
- B. server health checks
- C. reverse proxy
- D. elastic load balancing

Answer (C)

Question 15:

What is the difference between Warm Standby and Multi-Site fault tolerance?
(Select two)

- A. Multi-Site enables lower RTO and most recent RPO
- B. Warm Standby enables lower RTO and most recent RPO
- C. Multi-Site provides active/active load balancing
- D. Multi-Site provides active/standby load balancing
- E. DNS Route 53 is not required for Warm Standby

Answer (A,C)

Question 16:

What AWS best practice is recommended for creating fault tolerant systems?

- A. vertical scaling
- B. Elastic IP (EIP)
- C. security groups
- D. horizontal scaling
- E. RedShift

Answer (D)

Question 17:

What two statements correctly describe versioning for protecting data at rest on S3 buckets?

- A. enabled by default
- B. overwrites most current file version
- C. restores deleted files
- D. saves multiple versions of a single file
- E. disabled by default

Answer (C,E)

Question 18:

What two methods are recommended by AWS for protecting EBS data at rest?

A. replication

B. snapshots

C. encryption

D. VPN

Answer (B,C)

Question 19:

You have an Elastic Load Balancer assigned to a VPC with public and private subnets. ELB is configured to load balance traffic to a group of EC2 instances assigned to an Auto-Scaling group. What three statements are correct?

- A. Elastic Load Balancer is assigned to a public subnet
- B. network ACL is assigned to Elastic Load Balancer
- C. security group is assigned to Elastic Load Balancer
- D. cross-zone load balancing is not supported
- E. Elastic Load Balancer forwards traffic to primary private IP address (eth0 interface) on each instance

Answer (A,C,E)

Deployment

Question 1:

What Amazon AWS service is available for container management?

- A. ECS
- B. Docker
- C. Kinesis
- D. Lambda

Answer (A)

Question 2:

What is associated with Microservices? (Select two)

A. Application Load Balancer

B. Kinesis

C. RDS

D. DynamoDB

E. ECS

Answer (A,E)

Question 3:

Where does Amazon retrieve web content when it is not in the nearest CloudFront edge location?

- A. secondary location
- B. file server
- C. EBS
- D. S3 bucket

Answer (D)

Question 4:

What two features of an API Gateway minimize the effects of peak traffic events and minimize latency?

A. load balancing

B. firewalling

C. throttling

D. scaling

E. caching

Answer (C,E)

Question 5:

What three characteristics differentiate Lambda from traditional EC2 deployment or containerization?

- A. Lambda is based on Kinesis scripts
- B. Lambda is serverless
- C. tenant has ownership of EC2 instances
- D. tenant has no control of EC2 instances
- E. Lambda is a code-based service
- F. Lambda supports only S3 and Glacier

Answer (B,D,E)

Question 6:

How is code uploaded to Lambda?

- A. Lambda instance
- B. Lambda container
- C. Lambda entry point
- D. Lambda function**
- E. Lambda AMI

Answer (D)

Question 7:

How are Lambda functions triggered?

- A. EC2 instance
- B. hypervisor
- C. Kinesis
- D. operating system
- E. event source

Answer (E)

Question 8:

What three statements correctly describe standard Lambda operation?

- A. Lambda function is allocated 500 MB ephemeral disk space
- B. Lambda function is allocated 100 MB EBS storage
- C. Lambda stores code in S3
- D. Lambda stores code in a Glacier vault
- E. Lambda stores code in containers
- F. maximum execution time is 300 seconds

Answer (A,C,F)

Question 9:

What network events are restricted by Lambda? (Select two)

- A. only inbound TCP network connections are blocked by AWS Lambda
- B. all inbound network connections are blocked by AWS Lambda
- C. all inbound and outbound connections are blocked
- D. outbound connections support only TCP/IP sockets
- E. outbound connections support only SSL sockets

Answer (B,D)

Question 10:

How is versioning supported with Lambda? (Select two)

A. Lambda native support

B. ECS container

C. not supported

D. Aliases

E. replication

F. S3 versioning

Answer (A,D)

Question 11:

What is the difference between Stream-based and AWS Services when enabling Lambda?

- A. streams maintains event source mapping in Lambda
- B. streams maintains event source mapping in event source
- C. streams maintains event source mapping in EC2 instance
- D. streams maintains event source mapping in notification
- E. streams maintains event source mapping in API

Answer (A)

Question 12:

Select two custom origin servers from the following?

- A. S3 bucket
- B. S3 object
- C. EC2 instance
- D. Elastic Load Balancer
- E. API gateway

Answer (C,D)

Question 13:

What two attributes are only associated with CloudFront private content?

- A. Amazon S3 URL
- B. signed cookies
- C. web distribution
- D. signed URL
- E. object

Answer (B,D)

Question 14:

How are origin servers located within CloudFront (Select two)

- A. DNS request
- B. distribution list
- C. web distribution
- D. RTMP protocol
- E. source mapping

Answer (A,C)

Question 15:

Where are HTML files sourced from when they are not cached at a CloudFront edge location?

- A. S3 object
- B. origin HTTP server**
- C. S3 bucket
- D. nearest edge location
- E. RTMP server
- F. failover edge location

Answer (B)

Question 16:

What is the capacity of a single Kinesis shard? (Select two)

- A. 2000 PUT records per second
- B. 1 MB/sec data input and 2 MB/sec data output
- C. 10 MB/sec data input and 10 MB/sec data output
- D. 1000 PUT records per second
- E. unlimited

Answer (B,D)

Question 17:

What Amazon AWS service supports real-time processing of data stream from multiple consumers and replay of records?

- A. DynamoDB
- B. EMR
- C. Kinesis data streams
- D. SQS
- E. RedShift

Answer (C)

Question 18:

Your company has asked you to capture and forward a real-time data stream on a massive scale directly to RedShift for analysis with BI tools. What AWS tool is most appropriate that provides the feature set and cost effective?

- A. DynamoDB
- B. SQS
- C. Elastic Map Reduce
- D. Kinesis Firehose
- E. SNS
- F. CloudFront

Answer (D)

Question 19:

What feature permits tenants to use a private domain name instead of the domain name that CloudFront assigns to a distribution?

- A. Route 53
- B. CNAME record**
- C. MX record
- D. RTMP
- E. Signed URL

Answer (B)

Question 20:

What Amazon AWS service is available to guarantee the consuming of a unique message only once?

- A. Beanstalk
- B. SQL
- C. Exchange
- D. SQS

Answer (D)

Question 21:

What is the fastest and easiest method for migrating an on-premises VMware virtual machine to the AWS cloud?

- A. Amazon Marketplace
- B. AWS Server Migration Service**
- C. AWS Storage Gateway
- D. EC2 Import/Export

Answer (B)

Question 22:

Select the stateless protocol from the following?

- A. FTP
- B. TCP
- C. HTTP
- D. SSH

Answer (C)

Question 23:

What are three valid endpoints for an API gateway?

- A. RESTful API
- B. Lambda function
- C. AWS service
- D. web server
- E. HTTP method

Answer (B,C,D)

Question 24:

How is a volume selected (identified) when making an EBS Snapshot?

- A. account id
- B. volume id
- C. tag
- D. ARN**

Answer (D)

Question 25:

What deployment service enables tenants to replicate an existing AWS stack?

- A. Beanstalk
- B. CloudFormation**
- C. RedShift
- D. EMR

Answer (B)

Question 26:

What three services can invoke a Lambda function?

- A. SNS topic
- B. CloudWatch event
- C. EC2 instance
- D. security group
- E. S3 bucket notification

Answer (A,B,E)

Question 27:

What two services enable automatic polling of a stream for new records only and forward them to an AWS storage service?

- A. SNS
- B. Kinesis
- C. Lambda
- D. DynamoDB

Answer (B,C)

Question 28:

Your company is deploying a web site with dynamic content to customers in US, EU and APAC regions of the world. Content will include live streaming videos to customers. SSL certificates are required for security purposes. Select the AWS service delivers all requirements and provides the lowest latency?

A. DynamoDB

B. CloudFront

C. S3

D. Redis

Answer (B)

Question 29:

What are the advantages of Beanstalk? (Select two)

- A. orchestration and deployment abstraction
- B. template-oriented deployment service
- C. easiest solution for developers to deploy cloud applications
- D. does not support cloud containers

Answer (A,C)

Question 30:

You are a network analyst with JSON scripting experience and asked to select an AWS solution that enables automated deployment of cloud services. The template design would include a nondefault VPC with EC2 instances, ELB, Auto-Scaling and active/active failover. What AWS solution is recommended?

- A. Beanstalk
- B. OpsWorks
- C. CloudTrail
- D. CloudFormation

Answer (D)

Question 31:

Select two statements that correctly describe OpsWorks?

- A. Opsworks provides operational and configuration automation
- B. OpsWorks is a lower cost alternative to BeanStalk
- C. OpsWorks is primarily a monitoring service
- D. Chef scripts (recipes) are a key aspect of OpsWorks

Answer (A,D)

Question 32:

Your company has developed an IoT application that sends Telemetry data from 100,000 sensors. The sensors send a datapoint of 1 KB at one-minute intervals to a DynamoDB collector for monitoring purposes. What AWS stack would enable you to store data for real-time processing and analytics using BI tools?

- A. Sensors -> Kinesis Stream -> Firehose -> DynamoDB
- B. Sensors -> Kinesis Stream -> Firehose -> DynamoDB -> S3
- C. Sensors -> AWS IoT -> Firehose -> RedShift
- D. Sensors -> Kinesis Data Streams -> Firehose -> RDS

Answer (C)

Question 33:

Your company has an application that was developed and migrated to AWS cloud. The application leverages some AWS services as part of the architecture. The stack includes EC2 instances, RDS database, S3 buckets, RedShift and Lambda functions. In addition there is IAM security permissions configured with defined users, groups and roles.

The application is monitored with CloudWatch and STS was recently added for permitting Web Identity Federation sign-on from Google accounts. You want a solution that can leverage the experience of your employees with AWS cloud infrastructure as well. What AWS service can create a template of the design and configuration for easier deployment of the application to multiple regions?

- A. Snowball
- B. Opsworks
- C. CloudFormation
- D. Beanstalk

Answer (C)

Monitoring Services

Question 1:

What statement correctly describes CloudWatch operation within AWS cloud?

- A. log data is stored indefinitely
- B. log data is stored for 15 days
- C. alarm history is never deleted
- D. ELB is not supported

Answer (A)

Question 2:

What are two AWS subscriber endpoint services that are supported with SNS?

- A. RDS
- B. Kinesis
- C. SQS
- D. Lambda
- E. EBS
- F. ECS

Answer (C,D)

Question 3:

What AWS services work in concert to integrate security monitoring and audit within a VPC? (Select three)

- A. Syslog
- B. CloudWatch
- C. WAF
- D. CloudTrail
- E. VPC Flow Log

Answer (B,D,E)

Question 4:

How is CloudWatch integrated with Lambda? (Select two)

- A. tenant must enable CloudWatch monitoring
- B. network metrics such as latency are not monitored
- C. Lambda functions are automatically monitored through Lambda service
- D. log group is created for each event source
- E. log group is created for each function

Answer (C,E)

Question 5:

What two statements correctly describe AWS monitoring and audit operations?

- A. CloudTrail captures API calls, stores them in an S3 bucket and generates a Cloudwatch event
- B. CloudWatch alarm can send a message to a Lambda function
- C. CloudWatch alarm can send a message to an SNS Topic that triggers an event for a Lambda function
- D. CloudTrail captures all AWS events and stores them in a log file
- E. VPC logs do not support events for security groups

Answer (A,C)

Question 6:

What is required for remote management access to your Linux-based instance?

- A. ACL
- B. Telnet
- C. SSH**
- D. RDP

Answer (C)

Question 7:

What are two features of CloudWatch operation?

- A. CloudWatch does not support custom metrics
- B. CloudWatch permissions are granted per feature and not AWS resource
- C. collect and monitor operating system and application generated log files
- D. AWS services automatically create logs for CloudWatch
- E. CloudTrail generates logs automatically when AWS account is activated

Answer (B,C)

Question 8:

You are asked to select an AWS solution that will create a log entry anytime a snapshot of an RDS database instance and deletes the original instance. Select the AWS service that would provide that feature?

- A. VPC Flow Logs
- B. RDS Access Logs
- C. CloudWatch
- D. CloudTrail

Answer (D)

Question 9:

What is required to enable application and operating system generated logs and publish to CloudWatch Logs?

- A. Syslog
- B. enable access logs
- C. IAM cross-account enabled
- D. CloudWatch Log Agent

Answer (D)

Question 10:

What is the purpose of VPC Flow Logs?

- A. capture VPC error messages
- B. capture IP traffic on network interfaces**
- C. monitor network performance
- D. monitor netflow data from subnets
- E. enable Syslog services for VPC

Answer (B)

Question 11:

Select two cloud infrastructure services and/or components included with default CloudWatch monitoring?

- A. SQS queues
- B. operating system metrics
- C. hypervisor metrics
- D. virtual appliances
- E. application level metrics

Answer (A,C)

Question 12:

What feature enables CloudWatch to manage capacity dynamically for EC2 instances?

- A. replication lag
- B. Auto-Scaling**
- C. Elastic Load Balancer
- D. vertical scaling

Answer (B)

Question 13:

What AWS service is used to monitor tenant remote access and various security errors including authentication retries?

- A. SSH
- B. Telnet
- C. CloudFront
- D. CloudWatch

Answer (D)

Question 14:

How does Amazon AWS isolate metrics from different applications for monitoring, store and reporting purposes?

- A. EC2 instances
- B. Beanstalk
- C. CloudTrail
- D. namespaces**
- E. Docker

Answer (D)

Question 15:

What Amazon AWS service provides account transaction monitoring and security audit?

- A. CloudFront
- B. CloudTrail**
- C. CloudWatch
- D. security group

Answer (B)

Question 16:

What two statements correctly describe CloudWatch monitoring of database instances?

- A. metrics are sent automatically from DynamoDB and RDS to CloudWatch
- B. alarms must be configured for DynamoDB and RDS within CloudWatch
- C. metrics are not enabled automatically for DynamoDB and RDS
- D. RDS does not support monitoring of operating system metrics

Answer (A,B)

Question 17:

What AWS service can send notifications to customer smartphones and mobile applications with attached video and/or alerts?

- A. EMR
- B. Lambda
- C. SQS
- D. SNS**
- E. CloudTrail

Answer (D)

Amazon Books

- AWS Certified Solutions Architect Associate Exam: Study Notes
- AWS Certified Solutions Architect Associate Exam: Certification Practice Questions (**full answer key version**)