**Question No: 1**

Correct Answer

Which of the following can be used for quick handling of a number of batch jobs on a short-term basis?



On-demand Instances



Spot Instances

You Selected

Reserved Instances



None of these

Explanation: A fleet of spot instances will provide the most cost-effective solution for a stateless,fault-tolerant use-case like batch jobs

**Question No: 2**

Correct Answer

A large corporation is looking to provision EC2 instances with very specific software requirements, why would you want to opt for a Marketplace AMI instead of a Community AMI?



Cost-effectiveness



Ease of provisioning



None of these



Security Compliance issues

You Selected

Explanation: Marketplace AMIs are vendor-verified, unlike Community AMIs which have to be scrutinized for backdoors and security issues.

**Question No: 3**

Correct Answer

As a developer for a web application, A/B testing is normally conducted to introduce new functionality or UI changes for user feedback. This necessitates the use of multiple application servers in the same target group hosting different versions of the application, one with the new features and one without. How can you make sure that a particular user only receives a certain version of the application and doesn’t switch version midway through use?



Session stickiness

You Selected

Switching availability zones



Hardcoding the application server address to the web app



None of these

Explanation: Session stickiness will ensure that traffic from a particular user will only be directed to a particular server once a single session between the user and that server has been established.

**Question No: 4**

Correct Answer

An application developer used 6 EC2 instances, 2 each in London, Mumbai, and Oregon for geographical diversity to host his application and now wants to add the instances to a load balancer. Which of the following errors will he encounter while trying to accomplish this?



The instances in a load balancer cannot span across multiple regions

You Selected

None of these



EC2 instances cannot be used to host applications



A load balancer cannot handle 6 instances

Explanation: All the instances added to a load balancer must be in the same region

**Question No: 5**

Correct Answer

A user is unable to log in via SSH into an EC2 instance. What could be the possible reasons for this?



Port 22 has not been opened for the instance



.pem file has elevated user permissions



All of these

You Selected

.pem file is in another folder

Explanation: The pem file needs to be read-only permissions for the user only and must be in the same directory as the one where the SSH attempt is made. Port 22 also needs to be open for the instance.

**Question No: 6**

Incorrect Answer

If your organization does not allow shared tenancy as per security compliance policies, which of the following EC2 features would you take advantage of?



Reserved Instances

You Selected

Singular Instances



Placement Group



Dedicated hosts

Explanation: Using a dedicated hosts will allocate a dedicated physical server for your instances

**Question No: 7**

Incorrect Answer

Which of the following would be best for hosting a web application for a period of 3 years with a guaranteed minimal capacity?



Dedicated Hosts

You Selected

Reserved Instances



On Demand Instances



None of these

Explanation: Reserved instances provide guaranteed uptime and capacity for long-term use-cases.

**Question No: 8**

Incorrect Answer

An EC2 instance is running an application which will require access to multiple AWS services. Which will be the best way to structure this access?



Allow admin access to the instance for flexibility



Create a single role with the required policies for the services as needed and attach it to the instance



Create a composite JSON policy with access to each service and assign to EC2

You Selected

Hard code the programmatic access keys into the application for each service

Explanation: A multirole can be created for EC2 which can be modified to include or exclude permissions as required.

**Question No: 9**

Correct Answer

Let’s consider an EC2 instance with a startup script to install and configure some software. If the user makes manual changes to the software configuration and reboots the instance, which of the following errors is likely to occur if the script ignores the non-transient nature of the instance? Also, assume the cloud-init is customized to run user data every time.



All manual changes made by the user will be reset

You Selected

None of these



The script will crash



The software will be deleted

Explanation: The startup script will keep on applying the same configuration settings every time the instance is restarted, unless it is specifically asked to check if the software is already installed and configured.

**Question No: 10**

Correct Answer

Which of the following algorithms can be used by a load balancer for canary deployments?



First-come-first-served



Round Robin



None of these



Weighted target groups

You Selected

Explanation: Weighted target groups can be used to allocate a certain percentage of traffic to a given server, making them ideal for canary deployments.

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Quiz 2

###### Question No: 1

Correct Answer

Marks: 2/2

Which of the following options would be optimal to host a landing page displaying a static pamphlet for an event?



EC2



S3

You Selected

Cloudfront



None of these

Explanation: S3 can be configured to host static web sites and will return an endpoint URL which can be used as the website URL

###### Question No: 2

Correct Answer

Marks: 2/2

For a sensor network which transmits daily data to be collected by an application server at predictable intervals, which of the following autoscaling policies would be a better fit to meet this type of workload?



Scale by percentage



Fixed group size



None of these



Set to a fixed value

You Selected

Explanation: For predictable workload spikes, a fixed increase in the number of servers would yield better results than scaling as required

###### Question No: 3

Incorrect Answer

Marks: 0/2

As an educational organization, which of the following storage options would you use to store records of past students that have to be retrieved only once a year for alumni meets?



Glacier

You Selected

Standard-Infrequent Access

Correct Option

Reduced Redundancy Storage



Standard

Explanation. Standard-Infrequent Access storage will provide the most cost-effective storage for data which is not retrieved frequently while providing the same resiliency as Standard storage

###### Question No: 4

Incorrect Answer

Marks: 0/2

Which of the following storage solutions would be a better fit for a distributed application spanning a large number of EC2 instances and performing in-memory analytics jobs on a large dataset.



EFS

Correct Option

Instance Store



None of these



EBS

You Selected

Explanation: EFS is perfect for high I/O jobs spanning multiple servers or instances

###### Question No: 5

Correct Answer

Marks: 2/2

Which of the following options is best to check for an added object in an S3 bucket?



Set up a cron job in a bash script to count the number of objects in the bucket



None of these



Use a Python script with an infinite loop



Set up an event notification for a PUT event

You Selected

Explanation: SNS notifications can be set up to send an alert whenever an object is added to a bucket in S3.

###### Question No: 6

Correct Answer

Marks: 2/2

As a corporation with a large number of developers using the AWS CLI tool, which of the following would be the best way to store their access credentials as a backup?



Stored on dedicated encrypted drives on the company server

You Selected

Let each developer decide how they want to store it



Upload all credential files into a shared public Github repository



Stored in a plaintext file on the employee’s desktop.

Explanation: Access credentials are supposed to be protected with the utmost secrecy and care should be taken that they are not misplaced or easily retrievable.

###### Question No: 7

Correct Answer

Marks: 2/2

Which of the following storage options would you use to store a temporary, non critical cached copy of a file?



EBS



None of these



Instance Store

You Selected

EFS

Explanation: Instance stores are temporary and are wiped when the instances is terminated, so they should be used only to store temporary files or caches.

###### Question No: 8

Correct Answer

Marks: 2/2

When performing a disk migration with EBS, when should the older volume be deleted?



None of these



Before attaching the new volume



After verifying the contents and integrity of the new volume

You Selected

After creating the snapshot of the old volume

Explanation: It is highly recommended to delete the old volume only once it has been confirmed that data migration was a complete success.

###### Question No: 9

Incorrect Answer

Marks: 0/2

Let’s assume a manually created target group of 5 EC2 instances, monitored for autoscaling with a minimum contribution of 2 instances and a step size of 1 instance for scaling up and down. What is the minimum number of EC2 instances that will be active at any point of time in the target group if utilization thresholds are not breached?



2

You Selected

None of these



5



7

Correct Option

Explanation: Number of instances =5(Manually created)+2(Minimum contribution from the autoscaling group)=7

###### Question No: 10

Correct Answer

Marks: 2/2

EFS differs from EBS in which of the following ways?



Number of EC2 instances that it can be mounted on



All of these

You Selected

Cost model



Size

Explanation: EFS can be mounted on multiple EC2 instances, is charged only on storage actually used and scales up and down depending on usage.

Quiz 3

###### Question No: 1

Correct Answer

Marks: 2/2

Under which of the following conditions can VPC peering fail?



VPCs have overlapping CIDR blocks

You Selected

VPCs are in different availability zones



None of these



VPCs are in different regions

Explanation: VPC peering can be done among VPCs in different regions or availability zones as long as they don’t have overlapping CIDR blocks to prevent IP address conflicts.

###### Question No: 2

Correct Answer

Marks: 2/2

Which of the following statements is false about VPC peering?



Both VPCs can be from different accounts



Both VPCs can be in different regions



VPC peering is transitive in nature

You Selected

None of these

Explanation: Peeering VPC A to B and B to C does not automatically peer A to C.

###### Question No: 3

Correct Answer

Marks: 2/2

Which of the following is a difference between NACLs and Security Groups?



NACLs accept CIDR blocks while security groups accept port numbers



None of these



NACLs are stateless while security groups are stateful

You Selected

NACLs can filter traffic by IP while security groups cannot

Explanation: The response for an authorized outgoing request is allowed in by a security group irrespective of inbound rules. This is not the case for NACLs.

###### Question No: 4

Correct Answer

Marks: 2/2

If you are running A/B feature tests for your application, and want to route 80% of your traffic to the latest stable version and the remaining 20% to the beta version, which of the following Route53 routing algorithms would you use?



Geolocation



Multivalue



None of these



Weighted

You Selected

Explanation: Weighted algorithm can be used to divide your traffic to different servers based on percentage.

###### Question No: 5

Correct Answer

Marks: 2/2

Which of the following is not true regarding Elastic Network Interfaces?



The primary interface can be cold-detached from an instance.

You Selected

None of these



A hot attach on an Ubuntu instance will require you to update the route tables manually.



A secondary interface can be attached to an instance while it is running.

The primary interface can never be detached from an instance.

###### Question No: 6

Correct Answer

Marks: 2/2

Which of the following best describes a NAT instance?



Traffic filter



None of these



Traffic Conduit

You Selected

Traffic Endpoint

Explanation: A NAT instance will neither consume nor produce traffic. Its only job is to forward received traffic.

###### Question No: 7

Correct Answer

Marks: 2/2

Which of the following conditions occur when an Internet Gateway is deleted without editing the corresponding entry in the routing table?



Error 404



Unknown destination



Black Hole

You Selected

None of these

Explanation: A Black Hole entry is created when a routing table refers to a resource that does not exist.

###### Question No: 8

Correct Answer

Marks: 2/2

Which of the following features will you use if you want to transfer data from an EC2 instance in a VPC directly to an S3 bucket without having the data travel through the public Internet?



VPC Endpoint

You Selected

NAT Gateway



None of these



VPN connection

VPC Endpoints create a dedicated connection from a VPC to an AWS service which does not ever leave the AWS environment.

###### Question No: 9

Incorrect Answer

Marks: 0/2

A database server in a private subnet is set to communicate via port 3306 but is unable to receive requests from the app server despite ping requests being successful between the servers. What could be the reason for this?



There is no NAT instance between the servers

You Selected

Route tables are not set up correctly



Port 3306 is closed for the app server

Correct Option

None of these

Explanation: The required port has to be open on both servers for communication to take place between them.

###### Question No: 10

Correct Answer

Marks: 2/2

Which of the following can be used to transfer data between 2 public EC2 instances created in 2 separate AWS accounts?



VPC Peering

You Selected

NAT gateway



Bastion Host



None of these

Explanation: VPC Peering works between any 2 VPCs created anywhere on AWS, including in separate accounts.