

# Practice Exam3

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Question 3: **Incorrect**

What are the benefits of DynamoDB? (Select all that apply)

A. Supports multiple known NoSQL database engines like MariaDB and Oracle NoSQL.

B. Automatic scaling of throughput capacity. **(Correct)**

C. Single-digit millisecond latency. **(Correct)**

D. Supports both document and key-value store data models. **(Correct)**

## Explanation

DynamoDB does not use/support any other NoSQL database engines. You only have access to use DynamoDB's built-in engine.  
<https://d1.awsstatic.com/whitepapers/aws-overview.pdf>

Question 6: **Incorrect**

Which of the following should you consider when creating a tagging strategy for your AWS resources? (Select all that apply)



A. Implementing automated tools to help manage resource tags.

(Correct)

B. Using as much tags as you can to help filter your resources easily.

(Correct)

C. Using unique keys and values to help manage resources more efficiently.

(Incorrect)

D. Using a standardized, case-sensitive format for tags.

(Correct)

## Explanation

The correct answers are ABD as they were mentioned as best practices for creating a tagging strategy for your AWS resources. However Option C is not correct. If all the resources have different keys and values, then you will not benefit from using them. For example if you have a development and a production environments and you want to distinguish between the resources used in each of them you have to add a tag [KEY = let say "Purpose" and VALUE = either "Development" or "Production"] for all resources. When you want to select all production resources, select the key first which is "Purpose" then select the value "Production". <https://aws.amazon.com/answers/account-management/aws-tagging-strategies/>

Question 7: **Incorrect**

Which of the below-mentioned services is equivalent to hosting virtual servers on an on-premise location?

A. AWS IAM

B. AWS Server

C. AWS Regions

(Incorrect)



D. AWS EC2

(Correct)

## Explanation

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud. It is designed to make web-scale cloud computing easier for developers. <https://aws.amazon.com/ec2/>

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Question 8: **Incorrect**

Which of the following AWS services scale automatically without your intervention? (Select all that apply)



A. AWS Simple Storage Service.

(Correct)

B. AWS Snow family.

C. AWS Elastic File System.

(Correct)

D. Amazon EC2

(Incorrect)

E. AWS Lambda

(Correct)

## Explanation

Each of S3, EFS and Lambda scales automatically without any intervention to meet demand. However AWS Snow family is physical device to migrate data into and out of AWS. Amazon EC2 does scale automatically, But you have to create a launch configuration then create an auto scaling group, determine the desired, minimum and maximum number of instances to provision and if your needs changed you have to modify the "auto scaling" configuration manually (For example changing the AMI to another or changing the instance type,... etc.). <https://d1.awsstatic.com/whitepapers/aws-overview.pdf>

### ★ Question 9: **Incorrect**

Amazon SWF is designed to help users \_\_\_\_\_.

A. Design graphical user interface interactions.

B. Manage user identification and authorization.

(Incorrect)

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rect)

C. Store Web content.

D. Coordinate tasks across distributed application components. (Cor)

### Explanation

Amazon Simple Workflow Service (SWF) is a web service that makes it easy to coordinate work distributed application components. Amazon SWF enables applications for a range of use cases including media processing, web application back-ends, business process workflows, and analytical pipelines, to be designed as a coordination of tasks. Tasks represent invocations of various processing steps in an application which can be performed by executable code, web service calls, human actions, and scripts. The coordination of tasks involves managing execution dependencies, scheduling, and concurrency in accordance with the logical flow of the application. With Amazon SWF, developers get full control over implementing processing steps and coordinating the tasks that drive them, without worrying about underlying complexities such as tracking their progress and keeping their state. <https://aws.amazon.com/swf/>

#### Question 12: **Incorrect**

You want to take a snapshot of an EC2 Instance and create a new instance out of it. This snapshot is equivalent to:

A. ELP Volume

B. EC2 Snapshot

C. AMI (Co)

D. EBS Snapshot (Inco)

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## Explanation

An Amazon Machine Image (AMI) provides the information required to launch an instance, which is a virtual server in the cloud. You specify an AMI when you launch an instance, and you can launch many instances from the AMI as you need. You can also launch instances from as many different AMIs as you need. <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIs.html>

### Question 14: **Incorrect**

What are the benefits of having a managed service on AWS? (Select all that apply)

- A. Lowering operational complexity.
- B. Lowering cost.
- C. Enable developers to perform all patching activities on their own. (Incorrect)
- D. Reduce dependency on in-house specialized skills.
- E. Deliver new solutions faster.

### ★ Question 15: **Incorrect**

You have been asked to set up a database in AWS that will require frequent updates. You know that you will need a reasonable amount of storage space but are unsure of the best option. What is the recommended storage option when you run a database on an instance with the above criteria?

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(Correct)

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(Correct)

(Correct)

A. Amazon S3

B. Amazon EBS

(Correct)

C. AWS Storage Gateway

(Incorrect)

D. Amazon Glacier

## Explanation

Amazon EBS provides durable, block-level storage volumes that you can attach to a running Amazon EC2 instance. You can use Amazon EBS as a primary storage device for data that requires frequent and granular updates. For example, Amazon EBS is the recommended storage option when you run a database on an instance.

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AmazonEBS.html>

### ★ Question 18: Incorrect

Which of the following is used to control traffic in AWS? (Select all that apply)

A. Route Tables

(Correct)

B. Routing Groups

(Incorrect)

C. Security Groups

Firewall with EC2

(Correct)

D. Network Access Control lists.

Firewall in subnet

(Correct)



## Explanation

\*\* Security groups — Act as a firewall for associated Amazon EC2 instances, controlling both inbound and outbound traffic at the instance level.  
\*\* Network access control lists (ACLs) — Act as a firewall for associated subnets, controlling both inbound and outbound traffic at the subnet level.  
\*\*Route Tables — A route table contains a set of rules, called routes, that are used to determine where network traffic is directed.

[https://docs.aws.amazon.com/vpc/latest/userguide/VPC\\_Security.html](https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Security.html)

[https://docs.aws.amazon.com/vpc/latest/userguide/VPC\\_Route\\_Tables.html](https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Route_Tables.html)

Question 19: **Incorrect**

You want to quickly deploy your .NET application on the AWS Cloud. Which of the following AWS services can help you?                 

A. AWS Elastic Beanstalk

(Correct)

B. AWS Elastic Compute Cloud (Amazon EC2)

(Incorrect)

C. AWS VPC

D. AWS SQS

## Explanation

AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS. <https://aws.amazon.com/elasticbeanstalk/>

Question 23: **Incorrect**

What are the AWS recommendations about your root access keys?



A. Delete them.

(Correct)

Question 28: **Incorrect**

Which of the following services can be used for processing images uploaded to S3?

A. Amazon Glacier

B. AWS Lambda

(Correct)

in S3 as follows: 1- User uploads an object to an S3 bucket (object-created event). 2- Amazon S3 detects the object-created event. 3- Amazon S3 invokes a Lambda function that is specified in the bucket notification configuration. 4- AWS Lambda executes the Lambda function by assuming the execution role that you specified at the time you created the Lambda function. 5- The Lambda function executes. For more use cases visit this link.

Question 31: **Incorrect**

Which of the following services would help in reducing the complexity and time in planning your application migration to the AWS Cloud?

A. AWS Migration Planner Service

B. AWS Application Discovery Service

(Correct)

C. AWS Snowball Migration Service

(Incorrect)

D. None of the above

**Explanation**



AWS Application Discovery Service helps systems integrators quickly and reliably plan application migration projects by automatically identifying applications running in on-premises data centers, their associated dependencies, and their performance profiles. Planning data center migrations can involve thousands of workloads that are often deeply interdependent. Application discovery and dependency mapping are important early first steps in the migration process, but these tasks are difficult to perform at scale due to the lack of automated tools. AWS Application Discovery Service automatically collects configuration and usage data from servers, storage, and networking

★ Question 33: **Incorrect**

There are substantial differences between AWS Marketplace and Amazon DevPay. One of these differences is .....

- A. When you buy from AWS DevPay directly you will get great offers based on your usage. (Incorrect)
- B. Buying from the AWS DevPay is better than the AWS Marketplace especially when working with Amazon VPC.
- C. AWS Marketplace supports EBS-backed software, while DevPay does not. (Correct)
- D. AWS Marketplace does not support Reserved and Spot instances while DevPay does.

★ Question 34: **Incorrect**

Which of the following are two options to pay for the AWS Developer Support Plan? (Choose two)

- A. 4% of monthly AWS usage (Incorrect)
- B. Greater of \$29 (Correct)
- C. Greater of \$39



D. 3% of monthly AWS usage

(Correct)

Question 35: **Incorrect**

For managed services like Amazon DynamoDB. What are the security tasks that AWS is responsible for? (Select all that apply)

A. Installing an antivirus software.

(Correct)

B. Disaster recovery.

(Correct)

C. Create the required access policies.

D. Protect Credentials.

(Incorrect)

★ Question 36: **Correct**

What is a placement group in Amazon EC2?

A. It is a group of EC2 instances within a single Availability Zone.

(Correct)

B. It the edge location of your web content.

C. It is the AWS region where you run the EC2 instance of your web content.

D. It is a group used to span multiple Availability Zones.

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## Explanation

A placement group is a logical grouping of instances within a single Availability Zone. Reference: <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html>

### ★ Question 37: Incorrect

You need to set up a security certificate for a client's eCommerce website as it will use the HTTP protocol. Which of the below AWS services do you need to access in order to manage your SSL server certificate?(Select all that apply)

A. AWS Directory Service

B. AWS Identity & Access Management

C. AWS ACM

D. Amazon Route 53

*IAM*

*ACM*

*Routes*

(Correct)

(Correct)

(Incorrect)

### Question 41: Incorrect

Doodle, Inc. has a web application that ultimately stores billions of images and videos, which runs in Exabyte. Which of the following AWS services can help them transfer the data to AWS?

A. Amazon VPC

B. Snowmobile

(Correct)

PS



C. Snowball

(Incorrect)

D. S3 enhanced uploader

### Explanation

AWS Snowmobile is an Exabyte-scale data transfer service used to move extremely large amounts of data to AWS. You can transfer up to 100PB per Snowmobile, a 45-foot long ruggedized shipping container, pulled by a semi-trailer truck. Snowmobile makes it easy to move massive volumes of data to the cloud, including video libraries, image repositories, or even a complete data center migration. Transferring data with Snowmobile is more secure, fast and cost effective. Reference: <https://aws.amazon.com/snowmobile/>

### Question 44: Incorrect

A company has a distributed application that periodically processes large volumes of data across multiple Amazon EC2 Instances. The application is designed to recover gracefully from Amazon EC2 instance failures. There is a requirement to accomplish this task in the most cost-effective way. Which of the following would be most appropriate?

A. Spot Instances

(Correct)

B. Reserved instances

C. Dedicated instances

D. On-Demand instances

(Incorrect)

### Explanation

Since we need to choose the most cost effective option then we have to select either Spot or



reserved. The duration was not specified in the question therefore it is not a factor here. The question stated that "The application is designed to recover gracefully from Amazon EC2 instance failures", therefore it can handle any interruption may occur with the instance and hence we can use the Spot instances. Spot instances provides a discount (up to 90%) off the On-Demand price, however Reserved Instances provide a discount (up to 75%) compared to On-Demand instance. Spot Instances are the most cost-effective choice if you can be flexible about when your applications run and if your applications can be interrupted.

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-spot-instances.html>

#### Question 49: **Incorrect**

A user is launching an EC2 instance in the US East region. Which of the below-mentioned options is recommended by AWS with respect to the selection of the availability zone?

A. Always select the AZ while launching an instance

(Incorrect)

B. Always select the US-East-1-a zone for HA

C. Do not select the AZ; instead let AWS select the AZ

(Correct)

D. The user can never select the availability zone while launching an instance

B. CloudTrail

(Correct)

C. Cloud Compliance

D. CloudWatch

(Incorrect)

#### Explanation



Top navigation bar

AWS CloudTrail is designed to log all actions taken in your AWS account. This provides a great resource for governance, compliance, and risk auditing. <https://aws.amazon.com/cloudtrail/>

★ Question 55: **Incorrect**

What are the areas of the **performance efficiency pillar**? (Select all that apply)

A. Selection

(Correct)

B. Monitoring

(Correct)

C. Trade-offs

(Correct)

D. Agility

(Incorrect)

**Explanation**

Performance efficiency in the cloud is composed of **four areas**: Selection, Review, Monitoring and Trade-offs. Take a data-driven approach to building a high-performance architecture. Gather data on

Question 57: **Incorrect**

What is the first step in creating an auto scaling system?

A. Creating launch configuration.

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Question 58: **Incorrect**

Which of the following makes it easier for developers to store, manage, and deploy Docker container images:

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A. ECS

B. EBS

C. ECR

(Correct)

D. EMR

(Incorrect)

### Explanation

Amazon E~~C~~ Container Registry (ECR) is a fully managed Docker container registry that makes it easy for developers to store, manage, and deploy Docker container images. Amazon ECR is integrated

Question 59: **Incorrect**

How can ELBs provide fault tolerance to your application?

A. By replicating your data in multiple availability zones. (Incorrect)

B. By ensuring that only healthy targets receive traffic. (Correct)

Question 63: **Incorrect**

Which of the following AWS services could help you in security analysis and compliance auditing? (Select all that apply)

A. AWS CloudTrail

B. AWS Config

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(Correct)

(Correct)

C. AWS Inspector

D. AWS ECS

E. AWS Service Catalog

### Explanation

\*\*With CloudTrail, you can get a history of AWS API calls for your account, including API calls made using the AWS Management Console, AWS SDKs, command line tools, and higher-level AWS services (such as AWS CloudFormation). The AWS API call history produced by CloudTrail enables security analysis, resource change tracking, and compliance auditing. \*\*With AWS CloudWatch Metrics, you can discover existing and deleted AWS resources, determine your overall compliance against rules, and dive into configuration details of a resource at any point in time. These capabilities enable compliance auditing, security analysis, resource change tracking, and troubleshooting.\*\* Amazon Inspector provides an engine that analyzes system and resource configurations and monitors activity to determine what an assessment target looks like, how it behaves, and its dependent components. The combination of this telemetry provides a complete picture of the assessment target and its potential security or compliance issues. Reference: <https://d1.awsstatic.com/whitepapers/aws-overview.pdf>

Question 65: **Incorrect**

Which of the following can be used to protect data at rest on Amazon S3? (Select all that apply)

A. Versioning

B. Replication

C. Encryption

D. Backup

### Explanation

Amazon S3 provides a number of security features for protection of data at rest, which you can use or not depending on your threat profile:

- // 1- Permissions: Use bucket-level or object-level permissions alongside IAM policies to protect resources from unauthorized access and to prevent information disclosure, data integrity compromise, or deletion.
- // 2- Versioning : Amazon S3 supports object versions. Versioning is disabled by default. Enable versioning to store a new version for every modified object from which you can restore compromised objects if necessary.
- // 3- Replication: Amazon S3 replicates each object across multiple Availability Zones within the respective region. Replication can provide data and service availability in the case of system failure.

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Availability Zones within the respective regions. Replication can provide data and service availability in the case of system failure, but provides no protection against accidental deletion or data integrity compromise—it replicates changes across all Availability Zones where it stores copies. // 4- Backup: Amazon S3 supports data replication and versioning instead of automatic backups. You can, however, use application-level technologies to back up data stored in Amazon S3 to other AWS regions or to on-premises backup systems.// 5- Encryption—server side: Amazon S3 supports server-side encryption of user data. Server-side encryption is transparent to the end user. AWS generates a unique encryption key for each object, and then encrypts the data using AES-256. The encryption key is then encrypted itself using AES-256—with a master key that is stored in a secure location. The master key is rotated on a regular basis.// 6- Encryption—client side: With client-side encryption you create and manage your own encryption keys. Keys you create are not exported to AWS in clear text. Your applications encrypt data before submitting it to Amazon S3, and decrypt data after receiving it from Amazon S3. Data is stored in an encrypted form, with keys and algorithms known only to you. While you can use any encryption algorithm, and either symmetric or asymmetric keys to encrypt the data.

## ★ Question 64: **Incorrect**

### How does AWS Lambda Work?

- A. Upload your code to an S3 bucket then link it to Lambda.
- B. Configure an AutoScaling group and attach the Lambda function to it.
- C. Setup the storage, Compute Capacity, Security, and triggers for the Lambda function.
- D. Just upload your code and watch it run.

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