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QUESTION 1

Which service is an AWS-managed Hadoop framework that makes it easy, fast, and cost-effective to process large amounts of data across dynamically scalable Amazon EC2 instances?

- A. Amazon EMR
- B. Amazon EC2
- C. AWS Elastic Beanstalk
- D. Amazon Redshift

Correct Answer: A

Reference: <https://aws.amazon.com/big-data/what-is-hbase/#:~:text=HBase%20and%20Hadoop%20on%20AWS,across%20dynamically%20scalable%20EC2%20instances>.

QUESTION 2

How can the AWS Cloud increase user workforce productivity after migration from an on-premises data center?

- A. Users do not have to wait for infrastructure provisioning.
- B. The AWS Cloud infrastructure is much faster than an on-premises data center infrastructure.
- C. AWS takes over application configuration management on behalf of users.
- D. Users do not need to address security and compliance issues.

Correct Answer: A

Reference: <https://d1.awsstatic.com/whitepapers/Migration/aws-migration-whitepaper.pdf>

QUESTION 3

An ecommerce company anticipates a huge increase in web traffic for two very popular upcoming shopping holidays.

Which AWS service or feature can be configured to dynamically adjust resources to meet this change in demand?

- A. AWS CloudTrail
- B. Amazon EC2 Auto Scaling
- C. Amazon Forecast
- D. AWS Config

Correct Answer: B

Reference: <https://aws.amazon.com/autoscaling/>



QUESTION 4

What is a benefit of loose coupling as a principle of cloud architecture design?

- A. It facilitates low-latency request handling.
- B. It allows applications to have dependent workflows.
- C. It prevents cascading failures between different components.
- D. It allows companies to focus on their physical data center operations.

Correct Answer: C

IT systems should ideally be designed in a way that reduces inter-dependencies. Your components need to be loosely coupled to avoid changes or failure in one of the components from affecting others.

Your infrastructure also needs to have well defined interfaces that allow the various components to interact with each other only through specific, technology-agnostic interfaces. Modifying any underlying operations without affecting other components should be made possible.

Reference: <https://www.botmetric.com/blog/aws-cloud-architecture-design-principles/>

QUESTION 5

A company wants to use Amazon Elastic Compute Cloud (Amazon EC2) to deploy a global commercial application. The deployment solution should be built with the highest redundancy and fault tolerance.

Based on this situation, the Amazon EC2 instances should be deployed:

- A. in a single Availability Zone in one AWS Region
- B. with multiple Elastic Network Interfaces belonging to different subnets
- C. across multiple Availability Zones in one AWS Region
- D. across multiple Availability Zones in two AWS Regions

Correct Answer: C

Reference: <https://jayendrapatil.com/aws-high-availability-fault-tolerance-architecture-certification/>

QUESTION 6

Which of the following can limit Amazon Storage Service (Amazon S3) bucket access to specific users?

- A. A public and private key-pair
- B. Amazon Inspector
- C. AWS Identity and Access Management (IAM) policies



D. Security Groups

Correct Answer: C

Reference: <https://aws.amazon.com/blogs/security/how-to-restrict-amazon-s3-bucket-access-to-a-specificiam-role/>

QUESTION 7

Which Amazon EC2 pricing option is best suited for applications with short-term, spiky, or unpredictable workloads that cannot be interrupted?

- A. Spot Instances
- B. Dedicated Hosts
- C. On-Demand Instances
- D. Reserved Instances

Correct Answer: C

QUESTION 8

According to the AWS shared responsibility model, what is the sole responsibility of AWS?

- A. Application security
- B. Edge location management
- C. Patch management
- D. Client-side data

Correct Answer: B

Client-side data, application security is the sole responsibility of the customer. Patch management is a shared responsibility. That leaves us with edge location management and since this out of the control of the customer, AWS is the one responsible for it.

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 9

A pharmaceutical company operates its infrastructure in a single AWS Region. The company has thousands of VPCs in a various AWS accounts that it wants to interconnect.

Which AWS service or feature should the company use to help simplify management and reduce operational costs?

- A. VPC endpoint

- B. AWS Direct Connect
- C. AWS Transit Gateway
- D. VPC peering

Correct Answer: C

Reference: <https://d1.awsstatic.com/whitepapers/building-a-scalable-and-secure-multi-vpc-aws-networkinfrastructure.pdf> (9)

QUESTION 10

The user is fully responsible for which action when running workloads on aws?

- A. Patching the infrastructure components
- B. Maintaining the underlying infrastructure components
- C. Maintaining physical and environmental controls
- D. Implementing controls to route application traffic

Correct Answer: B

QUESTION 11

Which of the following describes a security best practice that can be implemented using AWS IAM?

- A. Disable AWS Management Console access for all users
- B. Generate secret keys for every IAM user
- C. Grant permissions to users who are required to perform a given task only
- D. Store AWS credentials within Amazon EC2 instances

Correct Answer: C

Reference: <https://cloudcheckr.com/cloud-security/top-5-iam-best-practices/>

QUESTION 12

A company has refined its workload to use specific AWS services to improve efficiency and reduce cost. Which best practice for cost governance does this example show?

- A. Resource controls
- B. Cost allocation
- C. Architecture optimization



D. Tagging enforcement

Correct Answer: B

Reference <https://d1.awsstatic.com/whitepapers/architecture/AWS-Cost-Optimization-Pillar.pdf>

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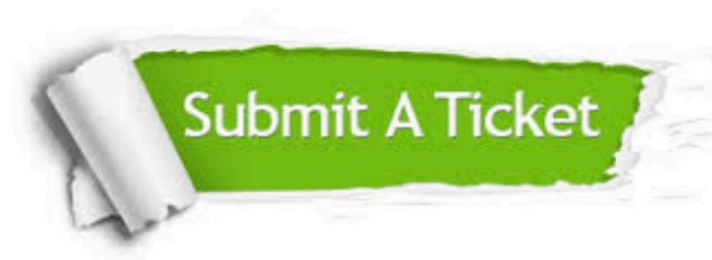
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