

# SET 16

Total points 49/50 ?

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Questions

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✓ A company wants to minimize network latency between its Amazon EC2 instances. The EC2 instances do not need to be highly available. Which solution meets these requirements? 1/1

- ☒ Use EC2 instances in a single Availability Zone ✓
- ☐ Use Amazon CloudFront as the database for the EC2 instances
- ☐ Use EC2 instances in the same edge location and the same Availability Zone
- ☐ Use EC2 instances in the same edge location and the same AWS region

✓ Which of the following AWS service or feature enables users to encrypt data at rest in Amazon S3? 1/1

- ☐ IAM policies
- ☒ Server-side encryption
- ☐ Amazon Guard Duty
- ☐ Client-side encryption



✓ A Company wants to add facial identification to its user verification process of an application. Which AWS service should the company use to meet this requirement? 1/1

- ☐ Amazon Polly
- ☐ Amazon Lex
- ☐ Amazon Transcribe
- ☒ Amazon Rekognition



✓ Which information is found on an AWS identity and Access management (IAM) credential report? (Choose two) 1/1

- ☐ The type of multi factor authentication device assigned to an IAM user
- ☒ Whether multi factor authentication has been enabled for an IAM user
- ☐ The number of incorrect login attempts by each IAM user in the previous 30 days
- ☒ The date and time when an IAM user's password was last used to sign in to AWS Management Console.
- ☐ The user agent browser identifier for each IAM user currently logged in



✓ A Company is planning to migrate to the AWS Cloud. The company is conducting organizational transformation and wants to become more responsive to customer enquiries and feedback. Which tasks should the company perform to meet these requirements according to AWS Cloud Adoption Framework (Choose two)? 1/1

- ☒ Realign teams to focus on products and value streams ✓
- ☐ Create new value propositions with new products and services.
- ☒ Use agile methods to rapidly iterate and evolve. ✓
- ☐ Use a new data and analytics platform to create actionable insights.
- ☐ Migrate and modernize legacy infrastructure

✓ Which of the following are 6 pillars of the AWS Well-Architected Framework? 1/1

- ☐ Encryption, documentation, speed,, reliability hybrid design and cost optimization
- ☒ Operational excellence, reliability, performance efficiency, security, sustainability and cost optimization ✓
- ☐ Containerization, cost margins, globalization, marketplace, encryption and developer operations
- ☐ Network, compute, storage, hybrid design, security and developer operations

✓ A company encourages its teams to test failure scenarios regularly and to validate their understanding of the impact of potential failures. Which Pillar of the AWS Well-Architected framework does this philosophy represent? 1/1

- ☐ Cost Optimization
- ☐ Performance efficiency
- ☐ Security
- ☒ Operational excellence



✓ Which pillar of AWS Well-Architected Framework focuses on the ability to run workloads effectively, gain insight into operations, and continuously improve supporting processes and procedures? 1/1

- ☐ Cost Optimization
- ☒ Operational Excellence
- ☐ Reliability
- ☐ Performance efficiency



✓ A user is designing a service to align with the operational excellence pillar of the AWS Well-Architected Framework. Which design principle is the company following with this practice? 1/1

- ☒ Anticipate Failure
- ☐ Make Large scale changes
- ☐ Perform manual operations
- ☐ Create static operational procedures



✓ Which of the following AWS service provides the capability to view end-to-end performance metrics and troubleshoot distributed applications? 1/1

- ☐ AWS Cloud9
- ☒ AWS X-Ray
- ☐ AWS Cloud Map
- ☐ AWS CodeStar



✓ A company needs to evaluate its AWS environment and provide best practice recommendations in five categories: cost, performance, service limits, fault tolerance and security. Which AWS service can the company use to meet these requirements? 1/1

- ☐ AWS WAF
- ☒ AWS Trusted Advisor
- ☐ AWS Service catalog
- ☐ AWS Shield



✓ A company runs a database on Amazon Aurora in the us-east-1 region. The company has a disaster recovery requirement that the database be available in another Region. Which solution meets this requirement with minimal disruption to the database operations? 1/1

- ☒ Deploy Aurora cross-Region read replicas.
- ☐ Perform an Aurora Multi-AZ deployment.
- ☐ Deploy Aurora Replicas.
- ☐ Create Amazon Elastic Block Store (Amazon EBS) volume snapshots for Aurora and copy them to another Region



✓ A Company wants the ability to quickly upload its applications to the AWS Cloud without needing to provision underlying resources. Which AWS service should be used to meet this requirement? 1/1

- ☐ AWS CloudFormation
- ☒ AWS Elastic Beanstalk
- ☐ AWS CodeCommit
- ☐ AWS CodeDeploy



✓ A company wants to run a NoSQL database on Amazon EC2 instances. Which task is the responsibility of AWS in this scenario? 1/1

- ☐ Configure the security group firewall.
- ☐ Update the guest operating system of the EC2 instances.
- ☐ Maintain high availability at the database layer.
- ☒ Patch the physical infrastructure that hosts the EC2 instances



✓ A company is reviewing its operating policies. Which policy complies with guidance in the security pillar of the AWS Well-Architected Framework? 1/1

- ☐ Expand employees permissions as they gain more experience.
- ☐ Grant all privileges and access to all users
- ☒ Apply security requirements at all layers of a process
- ☐ Ensure that employees have access to all company data



✓ A bank needs to store recordings of calls made to its contact center for 6 yrs. The recordings must be accessible within 48 hrs from the time they are requested. Which AWS service will provide a secure and cost-effective solution for retaining these files? 1/1

- ☒ Amazon S3 Glacier
- ☐ Amazon Connect
- ☐ Amazon ElastiCache
- ☐ Amazon DynamoDB



✓ A company wants to optimize long term compute costs of AWS lambda functions and Amazon EC2 instances. Which AWS purchasing option should the company choose to meet these requirements? 1/1

- ☐ Spot Instances
- ☐ Dedicated Hosts
- ☒ Compute Savings Plan
- ☐ Reserved Instances



✓ Which of the following is a benefit of decoupling an AWS Cloud architecture? 1/1

- ☐ Fewer components to manage
- ☐ Reduce latency
- ☐ Decreased costs
- ☒ Ability to upgrade components independently



✓ Which of the following factors affect costs in the AWS Cloud? (Choose two.) 1/1

- ☐ The number of unused Lambda functions
- ☐ The number of configured Amazon S3 buckets
- ☒ Compute resources that are currently in use ✓
- ☐ Inbound data transfers without acceleration.
- ☒ Outbound data transfers without acceleration ✓

✓ A company wants its Amazon EC2 instances to share the same geographic area but use redundant underlying power sources. Which solution will meet these requirements? 1/1

- ☐ Use EC2 instances in AWS OpsWorks stacks in different AWS regions.
- ☐ Use Amazon CloudFront as the database for the EC2 instances.
- ☒ Use EC2 instances across multiple Availability Zones in the same AWS region. ✓
- ☐ Use EC2 instances in the same edge location and the same Availability Zone

✓ A company wants to migrate its high performance computing (HPC) application to Amazon EC2 instances. The application has multiple components. The application must have fault tolerance and ability to fail over automatically. Which AWS infrastructure solution will meet these requirements with the Least latency between components? 1/1

- ☐ Regional Edge Caches
- ☐ Multiple AWS Regions
- ☒ Multiple Availability Zones ✓
- ☐ Multiple edge locations



✓ A company is using a central data platform to manage multiple types of data for its customers. The company wants to use AWS services to discover, transform and visualize the data. Which combination of AWS services should the company use to meet these requirements? (Choose two) 1/1

- ☒ AWS Glue ✓
- ☒ Amazon QuickSight ✓
- ☐ Amazon Redshift
- ☐ Amazon Quantum Ledger Database (Amazon QLDB)
- ☐ Amazon Elastic File System (Amazon EFS)

✓ A company wants to securely store Amazon RDS database credentials and automatically rotate user password periodically. Which AWS service or capability will meet these requirements? 1/1

- ☐ AWS Systems Manager Parameter Store
- ☐ Amazon S3
- ☐ AWS CloudTrail
- ☒ AWS Secrets Manager ✓

✓ A ecommerce company wants to use Amazon EC2 Auto Scaling to add and remove EC2 instances based on CPU utilization. Which AWS service or feature can initiate an Amazon EC2 Auto scaling action to achieve this goal ?

- ☐ Amazon Simple Queue Service (Amazon SQS)
- ☐ AWS Systems Manager
- ☐ Amazon Simple Notification Service (Amazon SNS)
- ☒ AWS CloudWatch Alarm



✓ A company provides a web-based ecommerce service that runs in two Availability zones within a single AWS region. The web service distributes content that is stored in the Amazon S3 standard storage class. The company wants to improve the web service performance globally. What should the company do to meet this requirement? 1/1

- ☐ Change the S3 storage class to S3 Intelligent tiering
- ☐ Migrate the website servers to Amazon EC2 with enhanced networking
- ☒ Deploy an Amazon CloudFront distribution to cache web server content in edge locations
- ☐ Use Amazon API gateway for the web service



✓ A company is hosting a web application on Amazon EC2 instances. The company wants to implement custom conditions to filter and control inbound web traffic. Which AWS service will meet these requirements ? 1/1

- ☐ Amazon GuardDuty
- ☐ AWS Shield
- ☒ AWS WAF
- ☐ Amazon Macie



✓ A company needs to use AWS Identity and Access Management (IAM) to attach an IAM policy to all IAM users in an AWS account. Which solution meets this requirement? 1/1

- ☐ Attach the IAM policy to each IAM user.
- ☒ Attach the IAM policy to the IAM group containing all the IAM users.
- ☐ Attach the IAM policy to the IAM role containing all the IAM users.
- ☐ Apply the IAM policy to the entire AWS account



✓ Which AWS service is designed to help users build conversational interfaces into applications using voice and text ? 1/1

- ☐ Amazon Transcribe
- ☐ Amazon Comprehend
- ☒ Amazon Lex
- ☐ Amazon Timestream



✓ Which AWS service or feature can be used to find availability status information of all AWS services? 1/1

- ☐ AWS Personal Health Dashboard
- ☐ Amazon CloudWatch
- ☐ AWS CloudTrail
- ☒ AWS Service Health Dashboard



✗ A ecommerce company recently started using AWS cloud. Which security related tasks are the company's responsibility? (Choose two) 0/1

- ☐ Install security patches on Amazon EC2 Linux instances.
- ☐ Conduct database patching for Amazon RDS instances.
- ☒ Restrict who is allowed physical access to the hosts that run the company's Amazon EC2 instances.
- ☒ Choose to encrypt data at rest that is stored in Amazon S3.
- ☐ Wipe Amazon Elastic Block Store (Amazon EBS) volumes clean before they are decommissioned.



Correct answer

- ☒ Install security patches on Amazon EC2 Linux instances.
- ☒ Choose to encrypt data at rest that is stored in Amazon S3.

✓ A company wants to store infrequently used data for data archives and long-term backups. Which AWS service or storage class will meet these requirements most cost- effectively? 1/1

- ☒ Amazon S3 Glacier Flexible Retrieval ✓
- ☐ Amazon FSx for Lustre
- ☐ Amazon Elastic Block Store (Amazon EBS)
- ☐ Amazon Elastic File System (Amazon EFS)

✓ Which scenario represents the concept of elasticity on AWS? (Choose two) 1/1

- ☐ Having the ability to create and govern environments using code
- ☒ Scaling the number of Amazon EC2 instances based on traffic ✓
- ☐ Using AWS compliance documents to accelerate the compliance process
- ☒ Resizing Amazon RDS instances as business needs change ✓
- ☐ Automatically directing traffic to less utilized Amazon EC2 instances

✓ A company wants to move its IOS application development and build activities to AWS. Which AWS service or resource should the company use for these activities? 1/1

- ☐ AWS App Runner
- ☒ AWS Amplify ✓
- ☐ AWS CodeCommit
- ☐ Amazon EC2 M1 Mac instances

✓ Which of the following is a benefit that AWS Professional Services provides? 1/1

- ☒ Advisory solutions for AWS adoption. ✓
- ☐ Technical support 24 hours a day, 7 days a week.
- ☐ Management of the ongoing security of user data.
- ☐ Monitoring of monthly billing costs in AWS accounts

✓ A company wants to provide managed windows virtual desktops and applications to its remote employees over secure network connections. Which AWS services can the company use to meet these requirements? (Choose two) 1/1

- ☐ Amazon Connect
- ☒ Amazon AppStream 2.0 ✓
- ☒ Amazon Workspaces ✓
- ☐ AWS Site-to-Site VPN
- ☐ Amazon Elastic Container Service (Amazon ECS)

✓ A company's solution architect wants to provision a few EC2 instances in an existing AWS account. The company requires a cost estimate before they can approve the request. Which AWS tool should the solutions architect use to produce the cost estimate? 1/1

- ☒ AWS Pricing Calculator ✓
- ☐ Cost Explorer
- ☐ AWS Budgets
- ☐ AWS Cost and Usage Report

✓ Which option is a perspective that includes foundational capabilities of the AWS Cloud Adoption Framework? 1/1

- ☐ Sustainability
- ☒ Governance
- ☐ Reliability
- ☐ Performance efficiency



✓ A company uses a database that has a simple sign-up page to create users and a basic login form to authenticate users so they can access the database. The company wants to give users the ability to store personal information, but the access must be controlled in a more secure and reliable way. Which AWS service or feature will meet these requirements ? 1/1

- ☐ Security Groups
- ☐ Amazon Guard Duty
- ☐ AWS Secrets Manager
- ☒ Amazon Cognito



✓ A company is migrating to the AWS cloud to meet storage needs. The company wants to optimize costs based on the amount of storage that the company uses. Which AWS offering or benefit will meet these requirements most cost-effectively? 1/1

- ☐ Savings Plan
- ☐ AWS Free Tier
- ☒ Volume-based discounts
- ☐ Pay-as-you-go pricing



✓ A company wants to monitor for misconfigured security groups that are allowing unrestricted access to specific ports. Which AWS service will meet this requirement? 1/1

- ☐ Amazon CloudWatch
- ☐ Amazon Guard Duty
- ☐ AWS Health Dashboard
- ☒ AWS Trusted Advisor



✓ Which of the following are general AWS Cloud design principles described in the AWS Well-Architected Framework? (Choose two) 1/1

- ☐ Provision more capacity than a workload is expected to need.
- ☐ Make AWS Cloud architectural decisions static, one time events.
- ☒ Drive architecture design based on data collected about the workload behavior and requirements.
- ☒ Test systems at Production scale.
- ☐ Consolidate key components into monolithic architecture



✓ A company wants to estimate its expected monthly AWS costs. The company also wants to find out the cost of a new set of instances and services. Which AWS service or tool can the company use to meet these requirements? 1/1

- ☐ AWS Budgets
- ☒ AWS Pricing Calculator
- ☐ AWS Marketplace
- ☐ AWS Trusted Advisor





✓ A company is launching a Mobile App. The Company wants customers to be able to use the app without upgrading their mobile devices. Which pillar of the AWS Well-Architected framework does this goal represent? 1/1

- ☐ Cost Optimization
- ☐ Security
- ☐ Reliability
- ☒ Sustainability



✓ A company is based out of a location where there is no AWS region but wants to move some of its Windows file servers to AWS. The data must reside in the location that the company is based in. Which AWS service can be used to meet this requirement? 1/1

- ☐ Amazon FSx for Windows File Server
- ☒ AWS Outposts
- ☐ AWS Local Zones
- ☐ Amazon EC2



✓ A company wants to update its online data processing application by implementing container based services that run for 4 hours at a time. The company doesn't want to provision or manage server instances. Which AWS service will meet these requirements? 1/1

- ☐ AWS Lambda
- ☐ Amazon EC2
- ☐ AWS Elastic Beanstalk
- ☒ AWS Fargate



- ✓ Which task can the user complete by using AWS Identity and Access Management (IAM)? 1/1
- ☐ Filter traffic to or from an Amazon EC2 instances
  - ☐ Validate JSON syntax from an application configuration file
  - ☒ Grant permissions to applications that run on Amazon EC2 instances ✓
  - ☐ Analyze logs from an Amazon API gateway call

- ✓ Which of the following tasks can a company complete by using AWS Organizations? 1/1
- ☐ Activate DDoS protection across all accounts
  - ☒ Share pre-purchased Amazon EC2 resources across accounts ✓
  - ☐ Track application deployment statuses globally
  - ☐ Remove unused and underutilized AWS resources across all accounts

- ✓ A company deployed an application on an Amazon EC2 instance. The application ran as expected for 6 months but in the past week users have reported latency issues. A system administrator found that CPU utilization was at 100% during business hours. The company wants a scalable solution to meet demand. Which AWS service or feature should the company use to handle the load for its application during periods of high demand? 1/1
- ☒ Auto Scaling groups ✓
  - ☐ An Elastic IP address
  - ☐ Amazon Route 53
  - ☐ AWS Global Accelerator

✓ A company needs to run a workload for several batch image rendering applications. It is acceptable for the workload to experience downtime. Which Amazon EC2 pricing model would be most cost-effective in this situation? 1/1

- ☐ On-Demand Instances
- ☐ Reserved Instances
- ☒ Spot Instances
- ☐ Dedicated Instances



✓ Which of the following AWS service or resource is serverless? 1/1

- ☐ AWS Snowball Edge
- ☐ Amazon EC2
- ☐ Amazon Elastic Kubernetes Service (Amazon EKS)
- ☒ Amazon API Gateway



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