SET 17

Total points   50/50   ?

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Questions   50 of 50 points

✓ Which of the following is the method for building a highly available   1/1
   application on AWS?

◉ Place an independent copy of the application in two or more Availability Zones   ✓

○ Place codependent components of the application in two or more Availability
   Zones

○ Run one version of the application in one availability zone and run an earlier version
   of the application in a second Availability Zone

○ Deploy two copies of the application in a single Availability Zone

✓   A user is a new AWS account owner who has no special access   1/1
    requirements. What should this user do with the AWS account root user
    access keys?

○   Share the keys with all relevant internal users so that those users can
    programmatically access AWS services.

○   Post the keys on GitHub to provide development teams with access to AWS
    services.

○   Use the keys for access, but do not share the keys with anyone.

◉   Delete the keys and create IAM users   ✓

✓   A company is setting up AWS Identity and Access Management (IAM) on   1/1
    an AWS account. Which recommendation complies with IAM security best
    practices?

○   Use the account root user access keys for administrative tasks.

○   Grant broad permissions so that all company employees can access the resources
    they need.

◉   Turn on multi-factor authentication (MFA) for added security during the login   ✓
    process

○   Avoid rotating credentials to prevent issues in production applications

✓ A company wants to set up a secure network connection from on premises 1/1
to the AWS Cloud within 1 week. Which solution will meet these
requirements?

○ AWS Direct Connect

○ Amazon VPC

◉ AWS Site-to-Site VPN ✓

○ Edge location

✓ Where can AWS users review answers to frequently asked questions about 1/1
security in the AWS Cloud?

○ AWS Trusted Advisor

◉ AWS Knowledge Center ✓

○ AWS Support Center

○ AWS Artifact

✓ A food delivery company needs to block users in certain countries from 1/1
accessing its website. Which AWS service should the company use to
meet this requirement ?

◉ AWS WAF ✓

○ AWS Control Tower

○ Amazon Fraud Detector

○ Amazon Pinpoint

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

☐ Analyze and attribute expenditures

☑ Monitor, alert, and audit actions and changes to AWS resources.   ✓

☐ Deploy globally in minutes.

☑ Protect data in transit and at rest   ✓

☐ Perform operations as code

✓ A company runs business applications in an on-premises data center and   1/1
in the AWS cloud. The company needs a shared file system that can be
available to both environments. Which AWS service meets these
requirements?

○ Amazon EBS

◉ Amazon EFS   ✓

○ Amazon S3

○ Amazon ElasticCache

✓ A company is building an application that needs to deliver images and   1/1
videos globally with minimal latency. Which approach can the company
use to accomplish this in a cost effective manner?

◉ Deliver the content through Amazon CloudFront.   ✓

○ Store the content on Amazon S3 and enable S3 cross-region replication.

○ Implement a VPN across multiple AWS Regions.

○ Deliver the content through AWS PrivateLink

✓ What is the purpose of having an internet gateway within a VPC?   1/1

○ To create a VPN connection to the VPC.

○ To impose bandwidth constraints on internet traffic.

◉ To allow communication between the VPC and the internet.   ✓

○ To load balance traffic from the internet across Amazon EC2 instances

✓ Which AWS service is always provided at no charge?   1/1

○ Amazon S3

◉ AWS Identity and Access Management (IAM):   ✓

○ Elastic Load Balancers

○ AWS WAF

✓ Which AWS services or tools can identify rightsizing opportunities for   1/1
Amazon EC2 instances? (Choose two)

☑ AWS Cost Explorer   ✓

☐ AWS Billing Conductor

☐ Amazon CodeGuru

☐ Amazon SageMaker

☑ AWS Compute Optimizer   ✓

✓ A user wants to review all Amazon S3 buckets with ACLs and S3 bucket   1/1
    policies in the S3 console. Which AWS service or resource will meet this
    requirement?

○ S3 Multi-Region Access Points

○ S3 Storage Lens

○ AWS IAM Identity Center (AWS Single Sign-On)

◉ Access Analyzer for S3   ✓

✓ Which of the following actions will help increase security in AWS Cloud?   1/1

○ Enable programmatic access for all IAM users.

○ Use IAM users instead of IAM roles to delegate permissions.

◉ Rotate access keys on a reoccurring basis   ✓

○ Use inline policies instead of customer managed policies

✓ A company is developing an application that uses multiple AWS services.   1/1
    The application needs to use temporary, limited-privilege credentials for
    authentication with other AWS APIs. Which AWS service or feature should
    the company use to meet these authentication requirements?

○ Amazon API Gateway

○ IAM users

◉ AWS Security Token Service (AWS STS)   ✓

○ IAM instance profiles

✓ Which option is a benefit of the economies of scale based on the advantages of cloud computing?   1/1

○ The ability to trade variable expense for fixed expense

○ Increased speed and agility

◉ Lower variable costs over fixed costs   ✓

○ Increased operational costs across data centers

✓ A Company wants to build an application that uses AWS Lambda to run Python code. Under the AWS Shared responsibility model, which tasks will be the company's responsibility? (Choose two)   1/1

☐ Management of the underlying infrastructure

☐ Management of the operating system

☑ Writing the business logic code   ✓

☐ Installation of the computer language runtime

☑ Providing AWS IAM access to the Lambda service   ✓

✓ A company wants to manage deployed IT services and govern its infrastructure as code (IaC) templates. Which AWS service will meet this requirement?   1/1

○ AWS Resource Explorer

◉ AWS Service Catalog   ✓

○ AWS Organizations

○ AWS Systems Manager

✓ A network engineer needs to build a hybrid cloud architecture connecting   1/1
on- premises networks to the AWS Cloud using AWS Direct Connect. The
company has a few VPCs in a single AWS Region and expects to increase
the number of VPCs to hundreds over time. Which AWS service or feature
should the engineer use to simplify and scale this connectivity as the VPCs
increase in number?

○ VPC endpoints

◉ AWS Transit Gateway   ✓

○ Amazon Route 53

○ AWS Secrets Manager

✓ Which AWS service or resource can a company use to deploy AWS WAF   1/1
rules?

○ Amazon EC2

◉ Application Load Balancer   ✓

○ AWS Trusted Advisor

○ Network Load Balancer

✓ **Which options are available to a user who wants to contact AWS Support?** 1/1

(Choose two)

| ✓ | Create an email case in the AWS support Center | ✓ |

| ☐ | Visit a local AWS Support Center |

| ✓ | Use live Chat functionality | ✓ |

| ☐ | Call the customer service phone number |

| ☐ | Use the video conference functionality of the AWS support console |

✓ **A company needs to consolidate the billing for multiple AWS accounts. The** 1/1
company needs to use one account to pay on behalf of all the other
accounts. Which AWS service or tool should the company use to meet this
requirement?

○ AWS Trusted Advisor

○ AWS Budgets

◉ AWS Organizations ✓

○ AWS Service Catalog

✓ **Which AWS service or feature is used to send both text and email** 1/1
messages from distributed applications?

◉ Amazon Simple Notification Service (Amazon SNS) ✓

○ Amazon Simple Email Service (Amazon SES)

○ Amazon CloudWatch alerts

○ Amazon Simple Queue Service (Amazon SQS)

✓ A company needs a firewall that will control network connections to and
from a single Amazon EC2 instance. This firewall will not control network
connections to and from other instances that are in the same subnet.
Which AWS service or feature can the company use to meet these
requirements?

1/1

○ Network ACL

○ AWS WAF

○ Route Table

◉ Security Group ✓

✓ Which of the following are characteristics of Availability Zones (Choose
two)?

1/1

☑ All Availability zones in an AWS region are interconnected with high-bandwidth, ✓
low-latency networking.

☐ Availability Zones are physically separated by a minimum distance of 150KM (100
miles)

☑ All traffic between Availability zones is encrypted. ✓

☐ Availability Zones within an AWS region share redundant power, networking and
connectivity.

☐ Every Availability Zone contains a single data center.

✓ A company is using Amazon DynamoDB. Which task is the company's responsibility, according to the AWS shared responsibility model? 1/1

○ Patch the operating system.

○ Provision hosts.

◉ Manage database access permissions. ✓

○ Secure the operating system

✓ Which AWS Cloud Adoption Framework (AWS CAF) capability belongs to the people perspective? 1/1

○ Data architecture

○ Event management

○ Strategic partnership

◉ Cloud fluency ✓

✓ A company needs to use dashboards and charts to analyze insights from business data. Which AWS service will provide the dashboards and charts for these insights? 1/1

○ Amazon Macie

○ Amazon Aurora

○ AWS CloudTrail

◉ Amazon QuickSight ✓

✓ What is a customer responsibility when using AWS Lambda according to   1/1
the AWS shared responsibility model?

🔘 Managing the code within the Lambda function   ✓

⭕ Confirming that the hardware is working in the data center

⭕ Patching the operating system

⭕ Shutting down Lambda functions when they are no longer in use

✓ A company is storing sensitive customer data in an Amazon S3 bucket.   1/1
The company wants to protect the data from accidental deletion or
overwriting. Which S3 feature should the company use to meet these
requirements?

⭕ S3 Lifecycle rules

🔘 S3 Versioning   ✓

⭕ S3 bucket policies

⭕ S3 server-side encryption

✓ Who is responsible for decommissioning end-of-life underlying storage   1/1
devices that are used to host data on AWS?

⭕ Customer

🔘 AWS   ✓

⭕ Account creator

⭕ Auditing team

✓ Elasticity in the AWS Cloud refers to which of the following? (Choose two) 1/1

☐ How quickly an Amazon EC2 instance can be restarted

☑ The ability to rightsize resources as demand shifts ✓

☐ The maximum amount of RAM an Amazon EC2 instance can use

☐ The pay-as-you-go billing model

☑ How easily resources can be procured when they are needed ✓

✓ Which of the following services can be used to block network traffic to an instance? (Choose two) 1/1

☑ Security groups ✓

☐ Amazon Virtual Private Cloud (Amazon VPC) flow logs

☑ Network ACLS ✓

☐ Amazon CloudWatch

☐ AWS CloudTrail

✓ Which of the following are AWS Trusted Advisor support categories? (Choose two) 1/1

☐ Operational Excellence

☑ Cost Optimization ✓

☑ Security ✓

☐ Well-Architected Framework

☐ Righsizing

✓ A company needs to categorize and track AWS usage cost based on   1/1
business categories. Which AWS service or feature should the company
use to meet these requirements?

○ ● Cost allocation tags   ✓

○ AWS Organizations

○ AWS Security Hub

○ AWS Cost and Usage Report

✓ What is a customer responsibility under the AWS shared responsibility   1/1
model when using AWS Lambda?

○ The Lambda server software

○ Maintenance of the Lambda networking infrastructure

● The code and libraries that run in the lambda functions   ✓

○ Maintenance of the underlying Lambda hardware

✓ Amazon Elastic File System (EFS) and Amazon FSx offer which type of   1/1
storage?

○ Object storage

○ Block storage

● File storage   ✓

○ Instance store

✓ Which AWS network services or features allow CIDR block notation when providing an IP address range? (Choose two.)   1/1

☐ Amazon Machine Image (AMI)

☑ Security groups   ✓

☑ Network access control list (network ACL)   ✓

☐ AWS Budgets

☐ Amazon Elastic Block Store (Amazon EBS)

✓ A company needs to host a highly available application in the AWS Cloud. The application runs infrequently for short periods of time. Which AWS service will meet these requirements with the LEAST amount of operational overhead ?   1/1

◉ AWS Lambda   ✓

◯ AWS Fargate

◯ Amazon Aurora

◯ Amazon EC2

✓ A company moves its infrastructure from on-premises to the AWS Cloud. 1/1
The company can now provision additional Amazon EC2 instances
whenever the instances are required. With this ability, the company can
launch new marketing campaigns in 3 days instead of 3 weeks. Which
benefit of the AWS Cloud does this scenario demonstrate?

○ Cost Savings

○ Improved Operational resilience

◉ Increased business agility   ✓

○ Enhanced security

✓ A company wants to define a central data protection policy that works 1/1
across AWS services for compute, storage, and database resources. Which
AWS service will meet this requirement?

○ AWS Batch

◉ AWS Backup   ✓

○ AWS Elastic Disaster Recovery

○ Amazon FSx

✓ How do AWS users trade infrastructure expenses for operational   1/1
expenses?

○ Use AWS Budgets to ensure that spending on AWS resources doesn't exceed
present thresholds.

◉ Use AWS Auto Scaling to dynamically increase and decrease compute   ✓
resources as needed.

○ Eliminate the electricity costs that are associated with the hosting of physical
servers

○ Secure their physical infrastructure to prevent malicious attacks

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✓ A company wants to protect its AWS Cloud information, systems, and   1/1
assets while performing risk assessment and mitigation tasks. Which pillar
of the AWS Well- Architected Framework is supported by these goals?

○ Reliability

◉ Security   ✓

○ Operational excellence

○ Performance efficiency

✓ Which Reserved Instance (RI) provides the highest average cost savings   1/1
compared to an on-demand instance?

○ 1-year, No Upfront, Standard RI

○ 1-year, All Upfront, Convertible RI

◉ 3-year, All Upfront, Standard RI   ✓

○ 3-year, No Upfront, Convertible RI

✓   A large retail company wants to use an AWS service to process clickstream 1/1
data from the company's ecommerce website. The company wants to
collect and analyze the streaming data in real time. Which AWS service
meets these requirements?

🔘 Amazon Kinesis   ✓

⚪ Amazon Athena

⚪ Amazon CloudFront

⚪ AWS Data Exchange

✓   Which AWS service or feature is associated with a subnet in a VPC and is   1/1
used to control inbound and outbound traffic?

⚪ Amazon Inspector

🔘 Network ACLS   ✓

⚪ AWS Shield

⚪ VPC Flow Logs

✓   Which design principles are enabled by the AWS cloud to improve the   1/1
operation of workloads? (Choose two)

☐ Minimize upfront design

☑ Loose coupling   ✓

☑ Disposable resources   ✓

☐ Server design and concurrency

☐ Minimal viable product

✓ Using AWS Identity and Access Management (IAM) to grant access only to 1/1
the resources needed to perform a task is a concept known as:

○ restricted access.

○ as-needed access.

◉ least privilege access.   ✓

○ token access.

✓ A company runs its production workload in the AWS Cloud. The company 1/1
needs to choose one of the AWS Support Plans. Which of the AWS Support
Plans will meet these requirements at the LOWEST cost?

○ Developer

◉ Business   ✓

○ Enterprise On-Ramp

○ Enterprise

✓ A company is based in the us-east-1 region and has a satellite office in the 1/1
eu-west-2 region. The company wants to use Amazon workspaces to host
its internal web portal and virtual desktops for employees. What should the
company do to minimize latency and ensure the best possible
performance for employees?

○ Deploy the internal web portal to us-east-1 only. Deploy the virtual desktops to us-east-1 and eu-west-2.

○ Deploy the internal web portal to us-east-1 and eu-west-2. Deploy the virtual desktops on network optimized Amazon EC2 instances to us-east-1 only.

◉ Deploy the internal web portal and virtual desktops to us-east-1 and eu-west-2 ✓

○ Deploy the internal web portal and virtual desktops to us-east-1 only. Use an Amazon CloudFront distribution for the users in eu-west-2

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