

Practice Exam5

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☒ Direct Connect

(Correct)

☐ VPN CloudHub

(Correct)

Explanation

You can connect from your on-premise data center to a VPC via Direct Connect or VPN CloudHub. AWS Direct Connect is a network service that provides an alternative to using the Internet to connect a customer's on-premise sites to AWS. If you have multiple VPN connections, you can provide secure communication between sites using the AWS VPN CloudHub.

Question 2: **Incorrect**

Which AWS service can be used to run Docker containers?

☒ Amazon ECR

(Incorrect)

☐ Amazon AMI

☐ AWS Lambda

☐ Amazon ECS

(Correct)

Explanation

Amazon Elastic Container Service (ECS) is a highly scalable, high performance container management service that supports Docker containers and allows you to easily run applications on a managed cluster of Amazon EC2 instances.

AWS Lambda is a serverless technology that lets you run code in response to events as functions. Amazon Elastic 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 Machine Images (AMI) store configuration information for Amazon EC2 instances.

☐ AWS WAF

(Correct)

Explanation

AWS WAF is a web application firewall that protects against common exploits that could compromise application availability, compromise security or consume excessive resources

AWS Shield is a managed Distributed Denial of Service (DDoS) protection service

Security groups and Network ACLs are firewalls protecting at the instance and subnet level respectively

★ Question 4: Incorrect

Virtual servers such as EC2 instances are examples of services delivered under which cloud model?

☐ PaaS

(Incorrect)

☒ IaaS

(Correct)

☐ DBaaS

☐ SaaS

Explanation

Infrastructure as a Service (IaaS) contains the basic building blocks for cloud IT and typically provide access to networking features, computers (virtual or on dedicated hardware), and data storage space

Platform as a Service (PaaS) removes the need for your organization to manage the underlying infrastructure (usually hardware and operating systems) and allows you to focus on the deployment and management of your applications

Software as a Service (SaaS) provides you with a completed product that is run and managed by the service provider. In most cases, people referring to Software as a Service are referring to end-user applications

Database as a Service (DBaaS) is a type of PaaS in which a managed database is offered for consumption

Explanation

AWS recommend creating individual IAM users and assigning the least privileges necessary for them to perform their role

You should use groups to assign permissions to IAM users, should avoid embedding access keys in application code, and should enable MFA for privileged users (not everyone)

★ Question 13: Incorrect

What kinds of routing policies are available in Amazon Route 53? (choose 2)

☒ Fault tolerant

(Incorrect)

☐ Failback

☐ Latency

(Correct)

☒ Shortest path first

(Incorrect)

☐ Simple

(Correct)

Explanation

Route 53 routing policies include Simple, Weighted, Latency based, Failover, Geo-location, Geo-Proximity, Multi-Value and Traffic Flow

Which services are involved with security? (choose 2)

☐ AWS CloudHSM

(Correct)

☒ AWS KMS

(Correct)

☐ AWS SMS

☐ Amazon ELB

☒ AWS DMS

(Incorrect)

Explanation

AWS Key Management Service gives you centralized control over the encryption keys used to protect your data

AWS CloudHSM is a cloud-based hardware security module (HSM) that enables you to easily generate and use your own encryption keys on the AWS Cloud

AWS Database Migration Service and Server Migration Service are used for migration

Amazon Elastic Load Balancing is used for distributing incoming connections to pools of EC2 instances

★ Question 22: Incorrect

Which of the following are valid types of Reserved Instances? (choose 2)

☒ Scheduled RI

(Correct)

☒ Long-Term RI

(Incorrect)

☐ Special RI

☐ Discounted RI

☐ Convertible RI

(Correct)

Explanation

Standard RIs: These provide the most significant discount (up to 75% off On-Demand) and are best suited for steady-state usage

Convertible RIs: These provide a discount (up to 54% off On-Demand) and the capability to change the attributes of the RI as long as the exchange results in the creation of Reserved Instances of equal or greater value. Like Standard RIs, Convertible RIs are best suited for steady-state usage

Scheduled RIs: These are available to launch within the time windows you reserve. This option allows you to match your capacity reservation to a predictable recurring schedule that only requires a fraction of a day, a week, or a month

Question 24: **Incorrect**

What are the names of two types of AWS Storage Gateway? (choose 2)

☐ Gateway Virtual Tape Library

(Correct)

☐ File Gateway

(Correct)

Explanation

The AWS Storage Gateway service enables hybrid storage between on-premises environments and the AWS Cloud. It provides low-latency performance by caching frequently accessed data on premises, while storing data securely and durably in Amazon cloud storage services. AWS Storage Gateway supports three storage interfaces: file, volume, and tape

File gateway provides a virtual on-premises file server, which enables you to store and retrieve files as objects in Amazon S3

The volume gateway represents the family of gateways that support block-based volumes, previously referred to as gateway-cached and gateway-stored modes

Gateway Virtual Tape Library is used for backup with popular backup software

All other answers are bogus and use terms that are associated with Storage Gateways (S3, block, cached)

Explanation

Amazon WorkSpaces is a managed desktop computing service running on the AWS cloud

WorkSpaces allows customers to easily provision cloud-based desktops that allow end-users to access documents and applications

WorkSpaces offers bundles that come with a Windows 7 or Windows 10 desktop experience,

powered by Windows Server 2008 R2 and Windows Server 2016 respectively

☐ Use AWS Inspector

(Correct)

☐ Use AWS WAF

Explanation

Inspector is an automated security assessment service that helps improve the security and compliance of applications deployed on AWS. Inspector automatically assesses applications for vulnerabilities or deviations from best practices

AWS Artifact is your go-to, central resource for compliance-related information that matters to you

AWS Shield is a managed Distributed Denial of Service (DDoS) protection service

AWS WAF is a web application firewall

★ Question 34: Incorrect

To connect an on-premises network to an Amazon VPC using an Amazon Managed VPN connection, which components are required? (choose 2)

☐ Virtual Private Gateway

(Correct)

☒ Direct Connect

(Incorrect)

☒ VPC Router

(Incorrect)

☐ Customer Gateway

(Correct)

☐ NAT Instance

Explanation

Two of the components you need to connect to your VPC with a VPN connection are a virtual private gateway on the VPC side and a customer gateway on the on-premise network side

VPC routers are not part of the VPN configuration

NAT instances are not used for VPN, they are used by EC2 instances in private subnets to access the Internet

Direct Connect can be used to connect an on-premise network to the cloud however it is not part of the configuration of an Amazon Managed VPN connection

Which of the facts below are accurate in relation to AWS Regions? (choose 2)

☒ Each region consists of 2 or more availability zones

(Correct)

☒ Regions are Content Delivery Network (CDN) endpoints for CloudFront

(Incorrect)

☐ Each region is designed to be completely isolated from the other Amazon Regions

(Correct)

☐ Each region consists of a collection of VPCs

☐ Regions have direct, low-latency, high throughput and redundant network connections between each other

Explanation

A region is not a collection of VPCs, it is composed of at least 2 AZs. VPCs exist within accounts on a per region basis

Availability Zones (not regions) have direct, low-latency, high throughput and redundant network connections between each other

Edge locations are (not regions) are Content Delivery Network (CDN) endpoints for CloudFront

★ Question 40: Incorrect

Which services are managed at a regional (rather than global) level? (choose 2)

☒ Amazon S3

(Correct)

☐ Amazon Route 53

☐ Amazon EC2

(Correct)

☐ AWS IAM

☒ Amazon CloudFront

(Incorrect)

Explanation

Both Amazon EC2 and Amazon S3 are managed at a regional level. Note: Amazon S3 is a global namespace but you still create your buckets within a region
CloudFront, Route 53 and IAM are managed at a global level

☐ A collection of resources that share one or more tags

(Correct)

☐ A collection of services within a region

Explanation

A resource group is a collection of resources that share one or more *tags* or portions of tags. To create a resource group, you simply identify the tags that contain the items that members of the group should have in common

Which AWS network element allows you to assign a static IPv4 address to an EC2 instance?

☐ Static IP

☐ Elastic IP

(Correct)

☒ Amazon EMR

(Correct)

☒ Amazon EC2

(Correct)

Explanation

In this list only EC2 and EMR allow root level access to the operating system