

Practice Exam4

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Which AWS service is primarily used for software version control?

☐ AWS CodeCommit

(Correct)

Explanation

AWS CodeCommit is a fully-managed source control service that hosts secure Git-based repositories. It makes it easy for teams to collaborate on code in a secure and highly scalable ecosystem

AWS CodeStar enables you to quickly develop, build, and deploy applications on AWS. AWS CodeStar provides a unified user interface, enabling you to easily manage your software development activities in one place

AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser

AWS CodeDeploy is a deployment service that automates application deployments to Amazon EC2 instances, on-premises instances, or serverless Lambda functions

Which AWS service can you use to install a third-party database?

☒ Amazon RDS

(Incorrect)

☐ Amazon DynamoDB

☐ Amazon EC2

(Correct)

☐ Amazon EMR

Explanation

All of these services are managed services except for Amazon EC2. EC2 is the only service in the list upon which you can manually install the database software of your choice

Identify the services that have a global (rather than regional) scope? (choose 2)

☐ Amazon Route 53

(Correct)

☒ Amazon S3

(Incorrect)

☐ Amazon CloudFront

(Correct)

☒ AWS Lambda

(Incorrect)

☐ Amazon EC2

Explanation

Amazon Route 53 and Amazon CloudFront have a global scope

Amazon S3 uses a global namespace but buckets and objects are created within a region

AWS Lambda is a regional service

Which service can you use to provision a preconfigured server with little to no AWS experience?

☐ Amazon Elastic Beanstalk

☒ AWS Lambda

(Incorrect)

☐ Amazon EC2

☐ Amazon Lightsail

(Correct)

Explanation

Lightsail provides developers compute, storage, and networking capacity and capabilities to deploy and manage websites, web applications, and databases in the cloud

Lightsail provides preconfigured virtual private servers (instances) that include everything required to deploy and application or create a database

Deploying a server on Lightsail is extremely easy and does not require knowledge of how to configure VPCs, security groups, network ACLs etc.

AWS Elastic Beanstalk can be used to quickly deploy and manage applications in the AWS Cloud. It is considered a PaaS service. However, you do still need to deploy within a VPC so more AWS expertise is required

Amazon EC2 also requires AWS expertise as it deploys within a VPC

AWS Lambda provides serverless functions not preconfigured servers

Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL

Which items can be configured from within the VPC management console? (choose 2)

☐ Subnets

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☐ Regions

☐ Load Balancing

☐ Auto Scaling

☒ Security Groups

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Explanation

Subnets and Security groups can be configured from within the VPC console

Regions are not configured, resources within regions are configured

Load balancing and auto scaling is configured from the EC2 console

☐ Bucket names must be unique globally

☐ Buckets are region-specific

Which AWS storage technology can be considered a "virtual hard disk in the cloud"?

☐ Amazon Elastic File Storage (EFS) filesystem

☒ Amazon Elastic Block Storage (EBS) volume

AWS are responsible for items such as the physical security of the DC, replacement of old disk drives, and patch management of the infrastructure

Customers are responsible for items such as configuring security groups, network ACLs, patching their operating systems and encrypting their data

Explanation

The 6 advantages of cloud are:

- 1 Trade capital expense for variable expense
- 2 Benefit from massive economies of scale
- 3 Stop guessing about capacity
- 4 Increase speed and agility
- 5 Stop spending money running and maintaining data centres
- 6 Go global in minutes

You do not gain greater control of the infrastructure layer as AWS largely control this, and though AWS is compliant with lots of security compliance programs, not all programs in all local countries will be included

☒ AWS managed VPN

(Correct)

Explanation

An AWS managed VPN can be used to quickly connect from an office to an Amazon VPC
Direct Connect provides high-bandwidth, low-latency connectivity but takes weeks to months to setup (and is much more expensive)

What is the scope of a VPC within a region?

reg → VPC — AZ — data center

☐ Spans all Availability Zones within the region

Explanation

A VPC spans all availability zones within a region
VPCs do not span regions, you create VPCs in each region
VPCs are not limited by subnets, subnets are created within AZs and you can have many subnets in an AZ
An AZ uses one or more data centers. AWS does not publicize the details

☐ Amazon VPC

(Correct)

☐ Amazon EBS

☐ Amazon CloudFormation

(Correct)

☐ Amazon S3

☒ Amazon SNS

(Incorrect)

Explanation

Amazon VPC and CloudFormation are free of charge, however in the case of CloudFormation you pay for the resources it creates
All other listed services are chargeable

☐ EBS volumes must be in the same AZ as the instances they are attached to (Correct)

☐ You can attach multiple EBS volumes to an instance (Correct)

☐ You can attach an EBS volume to multiple instances

☒ EBS volumes cannot be backed up (Incorrect)

Explanation

EBS volumes must be in the same AZ as the instances they are attached to
You can attach multiple EBS volumes to an instance
Root EBS volumes are deleted on termination by default
You cannot attach an EBS volume to multiple instances
EBS volumes can be backed up by taking a snapshot

What constraints apply to customers when performing penetration testing? (choose 2)

☐ Permission is required for all penetration tests (Correct)

☐ You can perform penetration testing on your own systems at any time without prior authorization

☐ You must complete and submit the AWS Vulnerability / Penetration Testing Request Form to request authorization (Correct)

Which feature can you use to grant read/write access to an Amazon S3 bucket?

☐ IAM Role

☐ IAM Policy

(Correct)

☐ IAM Group

☒ IAM User

(Incorrect)

Explanation

IAM Policies are documents that define permissions and can be applied to users, groups and roles

IAM policies can be written to grant access to Amazon S3 buckets

IAM Roles are created and then "assumed" by trusted entities and define a set of permissions for making AWS service requests

IAM Groups are collections of users and have policies attached to them

An IAM user is an entity that represents a person or service

AWS Organizations enables you to create groups of AWS accounts and then centrally manage policies across those accounts. AWS Organizations provides consolidated billing in both feature sets, which allows you set up a single payment method in the organization's master account and still receive an invoice for individual activity in each member account. Volume pricing discounts can be applied to resources

AWS Budgets gives you the ability to set custom budgets that alert you when your costs or usage exceed (or are forecasted to exceed) your budgeted amount

AWS Identity and Access Management (IAM) enables you to manage access to AWS services and resources securely

The AWS Cost Explorer is a free tool that allows you to view charts of your costs