Conheça os Cloud Computing Models Entenda o IAM, Policies e Componentes Saiba a diferença entre S3 Storage Classes Use o S3 Policies e Versionamento Aprenda o S3 Lifecycle e Cross Access Introdução Sobre a certificação Como estudar? Criando um Billing Alarm Sobre Billing Alarm Infraestrutura da AWS Cloud Computing Models IAM e AWS Organizations AWS organizations Documentação IAM Best Practices Identity and Access Management IAM Policies IAM setup e melhores práticas IAM Components Definindo uma role EC2—S3 S3—Simple Storage Service — Parte1 S3 Simple Storage Service Documentação Storage Classes S3 SLA Visão geral do Bucket S3 Documentação Bucket Policies Amazon Glacier Permissionamento no S3 Access status Seguranca no S3 Versionamento #1 Versionamento #2 File versioning S3—Simple Storage Service — Parte2 Lifecycle Lifecycle management S3 replication Types of Object Replication S3 Cross Access #1 Documentação S3 Cross Account Access S3 Cross Access #2 Cross—account access to objects S3 Transfer Acceleration Transfer Acceleration Conclusão Domina os serviço de infraestrutra como EC2 e EBS Conheça AWS Snowball e Storage Gateway Saiba as detalhes da prova do AWS CloudFront Aprenda como usar o Amazon Elastic File System2 Avance nos seus estudos para a prova Solutions Architect Associate AWS Snowball, Storage Gateway e CloudFront Ver primeiro vídeo Introdução Storage Gateway Storage Solution CloudFront CloudFront Infrastructure EC2: Elastic Compute Cloud EC2 Overview Criando uma instâncias Manage your Amazon EC2 instances Detalhes e conectividade Connection to EC2 Linux instances Post install Boot script Private IP address and public IP address Security groups Security Groups — Inbound Traffic EBS: Amazon Elastic Block Store EBS Elastic Block Store Volume Type Adicionando um volume na instância Auto delete Volume para uso Detach EBS Volumes Movendo a instância para outra região Script da Aula Encripitando o volume root Encrypting the EBS volume EFS: Amazon Elastic File System2 Network Interfaces Which interface? EFS Overview EFS Features EFS montando o FS FSX, Lustre, Placement Groups fsx e Lustre EC2 Placement groups Placement groups Conclusão Saiba os detalhes sobre AWS CloudWatch Configure e use o AWS CLI e saiba o papel dele Conheça as funcionalidades o AWS RDS como Backups automáticos e Data Transfers Aprenda os recursos do AWS Route 53 como Roteamento e Policies Entendo o serviço AWS VPC e conheça Redes privadas, públicas e Subnets AWS CloudWatch Ver primeiro vídeo Introdução Criando um alarme #1 Criando um alarme #2 AWS CloudWatch AWS CLI Configuração e Comandos AWS CLI Variables Users vs Roles AWS CLI Configuration AWS RDS Criando um banco MySQL Operations during snapshot or backup Security group e conexão RDS access port MultiAZ e Backups Automated Backups Failover e replica de leitura Data Transfer (Primary/Secondary) Redshift Aurora e DynamoDB Scalable database AWS Route53 Overview Route53 Limits Hosted zones Route53 Features Politicas de roteamento #1 Politicas de roteamento #2 Routing Policies AWS Virtual Private Cloud Overview VPC Definitions Redes privadas e publicas VPC Subnets Conectividade entre subnets Connectivity between Subnets NAT Gateway About NAT Gateways Access Control List (ACL) Security in VPCs Conclusão Saiba a diferença entre Direct Connect e Bastian Hosts Entenda quando usar AWS SQS e SNS Conheça o AWS Cognito e API Gateway Saiba como garantir alta disponibilidade Aprenda os detalhes sobre AWS Serverless Aulas

You have taken over management of several instances in the company AWS environment. You want to quickly review scripts used to bootstrap the instances at runtime. A URL command can be used to do this. What can you append to the URL http://169.254.169.254/latest/ to retrieve this data?

Selecione uma alternativa

instance-demographic-data/

meta-data/

instance-data/

user-data/

At AWS, what feature is used to encrypt and decrypt login information on EC2 instances?

Selecione uma alternativa

Key pairs

AMI's

Templates

In DynamoDB, which scenario is recommended for you to enable Cross-region replication?

1) Easier Traffic Management

2) Disaster Recovery

3) Live Data Migration

Selecione uma alternativa

All are correct


Only 1 is correct


Only 3 is correct


Only 2 is correct


Your company expects rapid growth in the number of users. You will configure existing users and integrate new users with IAM privileges and logins. Its strategy is to create IAM groups for the company's departments and add new users to the appropriate groups. In addition, you will create policies to assign permissions and attach them to groups. What is the best practice when granting permissions to users in IAM policies?

Selecione uma alternativa

Use the principle of least privilege.


Grant all permissions to each AWS service the user will work with.


Create a policy for each department head granting root access.


Use the principle of top-down privilege.


What is the service used by AWS to segregate control over the various AWS services ?

Selecione uma alternativa

AWS RDS


Amazon EMR


AWS Integrity Management


AWS Identity and Access Management

Which of the below elements can you manage in the Billing dashboard?

Selecione 2 alternativas

Cost Explorer


Budgets


Policies


Credential Report


Your company needs a disaster recovery plan for compliance reasons. The company has established that RTO and RPO are not critical. The main point is to have a plan in place, with as much cost savings as possible. Which AWS disaster recovery pattern will best meet these requirements?

Selecione uma alternativa

Warm Standby


Backup and restore


Pilot Light


Multi Site


In your company, a key component in the disaster recovery plan (DR) will be the database instances and their data. Recovery Time Objective (RTO) allows read replicas to be used to offload read traffic from the master database. What items are the main features of reading replicas?

Selecione 3 alternativas

You can have up to five read replicas per master, each with its own DNS endpoint.


When a problem is detected in the primary instance, it will automatically failover to the read replica.


Synchronous replication

Read replica can be manually promoted as a standalone database instance.

You can create read replicas within AZ, cross-AZ, or cross-Region.

A company wants to set up a model to deploy resources on AWS. They need this feature to be dynamic so that they can set parameters and activate features based on those parameters. Which of the following AWS services has these requirements?

Selecione uma alternativa

AWS CodeDeploy

AWS Beanstalk

AWS Cloudformation

AWS CodeBuild

The IT security group decided to set up a hybrid environment for the company's computing resources. What features and advantages can a VPN connection provide?

Selecione uma alternativa

It provides a connection between an on-premises network and a VPC, using a secure and private connection with IPsec and TLS.

It provides a network connection between two VPCs that can route traffic using IPv4 or IPv6.

It provides a private, dedicated network connection between an on-premises network and the VPC.

It provides a cost-effective, private network connection that bypasses the internet.

You admin an ad-supported photo sharing website using S3 to display photos to your site visitors. For security reasons you want to prevent other sites from using links to your photos. What would be a quick solution to solve this problem?

Selecione uma alternativa

Block the IPs of the offending websites in Security Groups.


Store photos on an EBS volume of the web server.


Use CloudFront distributions for static content.


Remove public read access and use signed URLs with expiry dates.


Your company needs to monitor IOP read and write metrics for your AWS RDS instance and send real-time alerts to your management team. Which AWS services should you use?

Selecione 2 alternativas

Amazon Route 53


Amazon SES


Amazon CloudWatch


Amazon SNS


Amazon SQS


Your company has an On-premise data center and needs to connect to the AWS cloud. Note that the connection must have the maximum throughput and be dedicated to the company. How should this connection be made?

Selecione uma alternativa

Use AWS Direct Connect


Use AWS VPC Peering


Use AWS VPN


Use AWS Express Route

A data analysis company created an application to provide information to its customers. The application is hosted on EC2 instances in an Auto Scaling Group. You have added an Application Load Balancer to optimize this solution. The VPC hosting this architecture is running both IPv4 and IPv6. To complete the configuration, you must point the company domain to the Application Load Balancer. Using Route 53, which record type at the zone will you use to point the DNS name of the Application Load Balancer?

Selecione 2 alternativas

A type record set.


MX type record set.


CNAME record set.


AAAA type record set.


A company needs to deploy EC2 instances to handle nightly data processing. This job does not require high priority and there will be no problems if these batch runs are stopped. What is the best option to purchase an EC2 instance for this job?

Selecione uma alternativa

Reserved


On-Demand


Spot


Dedicated Hosts


CloudTrail can log API calls from...

1) The command line

2) The SDK

3) The Console

Choose the correct answer:

Selecione uma alternativa

Only 2 is correct.


All are correct.


Only 1 is correct.


Only 3 is correct.


A car rental company keeps a variety of information in files for one year for quick retrieval and after this period makes long-term storage. You have been hired as a consultant to find a solution that provides high availability and reasonable cost. Which storage option do you recommend?

Selecione uma alternativa

Store the files in S3 for a year, then archive to Glacier.


Store the files in Glacier for maximum cost savings.


Store the files in S3 for a year, then have the lifecycle policy move them to S3 IA.


Store the files in EBS volumes for a year, then migrate them to Glacier.


Your company will use multiple instances of EC2 to host different testing applications. Applications will receive little traffic. Only after 3 years will this application change and move to a production environment What type of EC2 will meet this requirement considering cost as an additional factor?

Selecione uma alternativa

Spot


On-Demand


Dedicated Hosts


Reserved

An organization of about 50 employees has performed the initial setup of users in IAM. All users except administrators have the same basic privileges. But now it has been determined that 20 employees will have more restrictions on EC2... They will be unable to launch new instances or change the state of existing instances. What will be the quickest way to implement these restrictions?

Selecione uma alternativa

Create the appropriate policy. With only 20 users, attach the policy to each user.


Create an IAM Role for the restrictions. Attach it to the EC2 instances.


Create the appropriate policy. Place the restricted users in the new policy.


Create the appropriate policy. Create a new group for the restricted users. Place the restricted users in the new group.


You have videos which you upload to an S3 bucket. You want to provide access to users to view the videos. You want to provide the best user experience no matter where the user is located. What is the best alternative to achieve this?

Selecione uma alternativa

Enable Cross region replication for the S3 bucket to all regions.


Use AWS Lambda functions to deliver the content to users.


Use Cloudfront with the S3 bucket as the source.


Use API gateway with S3 bucket as the source.


You need to set up a Bastion Host by your manager in the cheapest and safest way and you must be the only person who can access it via SSH. Which of the following configurations is the most effective solution?

Selecione uma alternativa

A small EC2 instance and a security group which only allows access on port 22.


A large EC2 instance and a security group which only allows access on port 22 via your IP address.


A large EC2 instance and a security group which only allows access on port 22.


A small EC2 instance and a security group which only allows access on port 22 via your IP address.



Your application uses an EC2 instance to make API calls to the Simple Storage Service. What is the best way for the application to access the Simple Storage Service?

Selecione uma alternativa

Create and Assign an IAM role to the EC2.


Embed the API credentials into your application.


Store API credentials as an object in a separate Amazon S3 bucket.


Pass API credentials to the instance using instance userdata.


An application must have files stored on AWS. The file system must have the ability to be mounted from multiple instances of Linux EC2. Which storage service can be used for this solution?

Selecione uma alternativa

Amazon EFS


Amazon S3


Amazon EC2 Instance Store


Amazon EBS


You are using CloudFront on the front end of your application to

maintain a user base worldwide. Its users are complaining about response times and accesses in real time. Which service can be used to reduce DynamoDB response times?

Selecione uma alternativa

DAX

DynamoDB Auto Scaling

Elasticache

CloudFront Edge Caches

After provisioning some EC2 instances and placing them on a public subnet. The person responsible for the task will configure the security groups. What is true for security groups?

Selecione uma alternativa

You can't specify separate rules for inbound and outbound traffic.

By default, a security group includes an inbound rule that allows all inbound traffic.

You can specify allow rules but not deny rules.

You can specify deny rules, but not allow rules.

Your company decides to use AWS to host your web application. Two subnets were created in a VPC and an Internet gateway was also attached. In the first subnet, an EC2 instance was created that will host the web application. At the end of the configuration it was verified that the application is accessible through the Internet. The second subnet has an instance that hosts a second application but it is not currently accessible on the Internet. What could be going wrong?

Selecione 2 alternativas

The second subnet does not have a route in the route table to the internet gateway.

The second subnet does not have a route in the route table to the virtual private gateway.

The EC2 instance does not have a public IP address.

The EC2 instance is not attached to an internet gateway.

An organization has a Redshift cluster on AWS. Which of the following services should be used to monitor Redshift performance as efficiently as possible?

Selecione uma alternativa

Cloudwatch

Alternativa errada!

VPC Flow Logs

AWS Trusted Advisor

You need to build and deploy code functions in the AWS cloud, but you don't want to manage the infrastructure. Which of the following services should be used?

Selecione uma alternativa

AWS DynamoDB

AWS EC2

AWS Lambda

AWS API Gateway

You have created an automatic escalation group for your on-demand instances. You need to ensure that the instances are started with a specific set of software. What resources should be used?

Selecione 2 alternativas

Create a template image and then create a launch configuration.

Add the scripts for the installation in the User data section.


Ask the IT operations team to install the software as soon as the instance is launched


Add the software installation to the configuration for the Autoscaling Group



You have a set of Lambda functions with business logic built into them. You want customers to have the ability to call these functions over HTTP. How can this be achieved?

Selecione uma alternativa

Use S3 websites to make calls to the Lambda


Use the API gateway and provide the integration with the AWS Lambda functions


Enable HTTP access on the AWS Lambda function


Add EC2 Instances with an API server installed. Integrate the server with AWS Lambda functions.



The administrator accidentally deletes some objects from an S3 bucket. Which of the following could have minimized the problem?

Selecione uma alternativa

Enable encryption for the S3 bucket


Enable IAM Roles on the S3 bucket


Enable versioning on the S3 bucket


Enable MFA delete on the S3 bucket


A startup needs to provide testing environments quickly. They want to have the ability to take them down easily to ensure that the cost is optimized. How should the environment be provisioned?

Use a custom script to create and tear down the resources

Use Cloudformation templates to provision the resources accordingly.

Use Autoscaling groups to provision the resources on demand.

Use IAM policies to have a policy to provision the resources and tear them down accordingly.

You have instances hosted on a private subnet on a VPC. The instance must download updates from the internet. What would be the most efficient and safe solution?

Selecione uma alternativa

Create a VPC link to the internet to allow the instances in the private subnet to download the updates

Use a NAT gateway to allow the instances in the private subnet to download the updates

Create a new public subnet and move the instance to that subnet

Create a new EC2 Instance to download the updates separately and then push them to the required instance.

Based on the following network ACLs:

Rule:100—ALL TRAFFIC—ALL PROTOCOL—ALL PORTS—Source—0.0.0.0/0—ALLOW,

Rule:101—Custom TCP Rule—TCP(6) PROTOCOL—3000 PORT Source:54.12.34.34/32—DENY

Rule * —ALL TRAFFIC—ALL PROTOCOL—ALL PORTS—Source:0.0.0.0/0—DENY.

What will be the outcome when a workstation of IP 54.12.34.34 tries to access your subnet?

Selecione uma alternativa

The request will be denied initially and then allowed

The request will be allowed

The request will be denied

The request will be allowed initially and then denied

When working with AWS resources, which option will incur costs?

Selecione 2 alternativas

Using an Amazon VPC

EBS Volumes attached to stopped EC2 Instances

A running EC2 Instance

A stopped EC2 Instance

Which of the following are use cases for Amazon DynamoDB?

Selecione 3 alternativas

Managing web sessions

Storing JSON documents

Storing BLOB data.

Running relational joins and complex updates.

Storing metadata for Amazon S3 objects

Which protocols are compatible with Amazon Simple Notification?

Selecione 2 alternativas

Simple Network Management Protocol

Short Message Service

CloudFront distribution


File Transfer Protocol


Email


A website runs on EC2 instances behind an ELB application load balancer. Instances run in an auto-escalation group across multiple availability zones. Instances deliver several large image files that are stored on a shared Amazon EFS file system. What should be done to improve the user experience on the site?

Selecione uma alternativa

Use reserved EC2 Instances


Cache static content using Cloudfront


Move the digital assets to Amazon Glacier


Resize the images so that they are smaller



An EC2 instance hosts a Javascript-based application that accesses a DynamoDB table. This EC2 instance is accessed by multiple users on the development team. Which of the following is a safe way to ensure that the EC2 instance accesses the DynamoDB table?

Selecione uma alternativa

Use IAM Access Groups with the right permissions to interact with DynamoDB and assign it to the EC2 Instance


Use KMS keys with the right permissions to interact with DynamoDB and assign it to the EC2 Instance


Use IAM Roles with permissions to interact with DynamoDB and assign it to the EC2 Instance


Use IAM Access Keys with the right permissions to interact with DynamoDB and assign it to the EC2 Instance

What is the best definition of an SQS message?

A set of instructions stored in an SQS queue that can be up to 256KB in size

A mobile push notification

A notification sent via SNS

A set of instructions stored in an SQS queue that can be up to 512KB in size

Which of the AWS services, if used as part of your application architecture, has the added benefit of helping to prevent DDoS attacks from reaching your backend instances?

Selecione uma alternativa

CloudFront

Kinesis

CloudWatch

CloudTrail

You have a single local 3 TB volume that is used to maintain a large image repository. This repository is growing at 500 GB per year and should be presented as a single logical volume. The IT team decided to migrate the local storage to the cloud but it needs a low latency for the data accessed frequently. Which AWS Storage Gateway configuration should be used?

Selecione uma alternativa

Gateway-Stored volumes with snapshots scheduled to Amazon S3

Gateway-Virtual Tape Library with snapshots to Amazon Glacier

Gateway-Cached volumes with snapshots scheduled to Amazon S3

Gateway-Virtual Tape Library with snapshots to Amazon S3


What can be used to monitor your EC2 instances and alert the support team if there is a problem?

Selecione uma alternativa

AWS SQS


AWS Cloudtrail


AWS Cloudwatch


Configure scheduled jobs on the EC2 instance to notify the support in case of any CPU utilization hikes.


While the creation of an EBS snapshot is not completed, the EBS volume:

Selecione uma alternativa

Can be used while the snapshot is in progress.


Cannot be detached or attached to an EC2 instance until the snapshot completes


Cannot be used until the snapshot completes.


Can be used in read-only mode while the snapshot is in progress.


You have a VPC with a public network and 3 instances running. These three instances have access to the Internet. You start a fourth instance on the same subnet, using the same AMI and security group configuration used for the others, but the new instance cannot be accessed from the Internet. What should you do to enable Internet access?

Selecione uma alternativa

Assign an Elastic IP address to the fourth instance.

Modify the routing table for the public subnet.


Deploy a NAT instance into the public subnet.


Configure a publically routable IP Address in the host OS of the
fourth instance.



Your company is deploying a two-tier, highly available web
application to AWS. Which service provides durable storage for
static content while utilizing lower Overall CPU resources for the
web tier?

Selecione uma alternativa

Amazon RDS instance


Amazon EBS volume


Amazon S3


Amazon EC2 instance store



What is the difference between an availability zone and an edge
location? Choose the correct answer.

Selecione uma alternativa

Edge locations are used as control stations for AWS resources


An availability zone is a grouping of AWS resources in a specific
region; an edge location is a specific resource within the AWS
region


An Availability Zone is an isolated location inside a region; an
edge location will deliver cached content to the closest location to
reduce latency


An edge location is used as a link when building load balancing
between regions

Which service allows one to issue temporary credentials in AWS?
Choose one answer from the options below.

Selecione uma alternativa

AWS SQS


AWS STS


None of the above.


AWS SES



An organization is planning to use AWS for its production
deployment. The organization wants to implement automation for
deployment in a way that automatically creates a LAMP stack,
download the latest installable PHP from S3 and configure the ELB.
Which of the AWS services meets the requirements?

Selecione uma alternativa

AWS Cloudformation


AWS Elastic Beanstalk


AWS Cloudfront


AWS DevOps



You are using Route53 to manage your DNS and need to distribute
traffic between your EC2 instances. You want a certain percentage of
traffic to go to each instance. Which routing policy should you use?

Selecione uma alternativa

Geolocation


Weighted


Latency

Failover


Your company has implemented a video file storage service. Users can upload a total of 10 GB of data. Your application can upload files up to 1TB in size to an S3 Bucket. What is the best way to upload files of this size?

Selecione uma alternativa

Single-part Upload


Multipart upload


AWS SnowMobile


AWS Snowball


An application on AWS is running in the Ireland region and is based on pre-built AMIs. Therefore, if the application falls in the Ireland region, it will have to be started in the London region. What points should you consider?

Selecione uma alternativa

Nothing, because all AMI's de default are available in any region as long as it is created within the same account


Copy the AMI from the Ireland region to the London region. Modify the Auto Scaling groups in the backup region to use the new AMI ID in the backup region


Modify the image permissions to share the AMI with another account, then set the default region to the backup region


Modify the image permissions and share the AMI to the London region.


An application with a 100 GB relational database runs on an EC2 Instance. The application is used infrequently with small peaks in the morning and evening. What is the MOST cost effective storage type?

Selecione 2 alternativas

Amazon EBS provisioned IOPS SSD


Amazon EFS


Amazon EBS General Purpose SSD


Amazon EBS Throughput Optimized HDD


A company runs a service on AWS to provide offsite backups for
images on laptops and phones. The solution must support millions of
customers with thousands of images per customer. Images will be
retrieved infrequently but must be available for retrieval
immediately. Which is the MOST cost efficient storage option that
meets these requirements?

Selecione uma alternativa

Amazon S3 Standard


Amazon S3 Standard IA


Amazon Glacier


Amazon EFS


You use an Application Load Balancer with an Auto Scaling Group of
EC2 instances. Your application load balancer is performing health
checks on EC2 instances. What actions will be taken if an instance
fails these health checks?

Selecione uma alternativa

The instance is terminated by the ALB.


The ALB notifies the Auto Scaling Group that the instance is down.


The ALB stops sending traffic to the instance.


The instance is replaced by the ALB.


Your company decided to adopt a hybrid cloud environment. To use the

cloud environment, you will need to move a large data warehouse to AWS. The total to be moved is 50 TB and will take more than a month to migrate, given the current available bandwidth. What is the best option available to carry out this migration considering the cost and performance aspects?

Selecione uma alternativa

AWS Snowball Edge


AWS Direct Connect


AWS VPN


AWS SnowMobile


To check the security of your applications, you are planning a penetration test on your EC2 instances. Which policy will provide information on conducting penetration tests on your EC2 instances?

Selecione uma alternativa

JSON Policy


AWS Acceptable Use Policy


IAM Policy


AWS Terms and Conditions Policy


After creating a new AWS account, you use the API to request 40 on-demand EC2 instances in a single AZ. After 20 successful requests, subsequent requests failed. What could be a reason for this issue, and how can you resolve it?

Selecione uma alternativa

AWS allows you to provision no more than 20 instances per AZ. Select a different AZ and retry the failed request.


You encountered an API throttling situation and should try the failed requests using an exponential decay retry algorithm.


You encountered a soft limit of 20 instances per region. Submit the

limit increase form and retry the failed requests once approved.

You need to use VPC in order to provision more than 20 instances in a single AZ. Simply terminate the resources already provisioned and re-launch them all in a new VPC.

Your automated transcription application uses EC2 instances as a backend. They process a loaded audio file and generate a text file. You need to store these two files in the same durable storage until the text file is recovered. You don't know what the storage capacity requirements are. Which storage option is economical and scalable?

Selecione uma alternativa

A single Amazon S3 bucket

Multiple Amazon EBS volume with snapshots

Multiple instance stores

A single Amazon Glacier vault

What are the different options available when creating a VPC using the VPC wizard? Please choose all options that apply.

Selecione 2 alternativas

VPC with Public and Private Subnets and Hardware VPN Access

VPC with Public and Private Subnets

VPC with default settings

VPC with a Primary and Secondary subnet