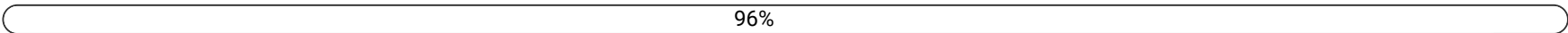⌞⌝

Congratulations!

You passed!

Your score is 96%

in f 𝕏

96%

↺ **Restart exam**   **Exit** ➔

Please rate this practice exam...it will help us improve it!

★ ★ ★ ★ ★

Which of the following languages can be used to author CloudFormation templates?

choose 2.

☐ CAMEL

☑ **JSON** ✓

☑ **YAML** ✓

☐ Python

CloudFormation supports both JavaScript Object Notation (JSON) and YAML Ain't Markup Language (aka YAML) for authoring CloudFormation templates

You notice that five of your 10 S3 buckets are no longer available in your account, and you assume that they have been deleted. You are unsure who may have deleted them, and no one is taking responsibility. What should you do to investigate and find out who deleted the S3 buckets?
Choose the Correct Answer

☐ A. Look at the S3 logs

☑ **B. Look at the CloudTrail logs.** ✓

☐ D. Look at the SNS log

☐ C. Look at the CloudWatch Logs.

CloudTrail is logging service that logs actions taken by AWS users in your AWS account, such as creating/deleting S3 buckets, starting/stopping EC2 stances, etc.

Which of the following is AWS' Data Warehousing service?

- ☐ Snowball
- ☑ **Redshift** ✅
- ☐ Elastic Map Reduce
- ☐ S3 Big Data

Redshift is AWS' data warehousing service. Elastic Map Reduce is a large scale data processing service. Snowball is a physical appliance used to transfer data into, or out of AWS. S3 Big Data does not exist.

Amazon Lightsail is an example of which of the following?

- ☐ Software as a Service
- ☑ **Platform as a Service** ✅
- ☐ Infrastructure as a Service
- ☐ Functions as a Service

Lightsail is AWS' Platform-as-a-Service offering.

Which Elastic Load Balancer type would be best suited to help you host a website?

- ☐ Classic
- ☐ Network
- ☐ Web
- ☑ **Application** ✅

Although it looks like the right answer – there is no "Web" load balancer in AWS. Instead, the Application Load Balancer fills this need. It is not recommended to use Classic Load Balancers anymore are these have been superseded, and a network Load Balancer is not right for this case.

Which AWS Load Balancer types uses a Round-Robin load distribution strategy?

- [x] **The Classic uses a Round-Robin strategy for TCP listeners only.** ✓
- [ ] The Classic uses a Round-Robin strategy for HTTP / HTTPS only.
- [ ] The ALB uses a Round-Robin strategy 1st to select an ELB node, then selects a target based on the routing rules.
- [x] **The ALB 1st selects a target based on the routing rule, then uses a Round-Robin strategy to select a node.** ✓

The Classic will use Round-Robin only for TCP. The ALB will use it for final web server selection after parsing the routing rules.

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You need to store a collection of objects that can also be accessed from a different AWS Region. Which service should you use to do this?

- [ ] Elastic Container Service
- [x] **S3** ✓
- [ ] EBS
- [ ] DynamoDB

S3 allows you to access objects from anywhere in the world – as long as the appropriate permissions are set!

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AWS VPC is a component of which of the following overall services categories?

- [ ] Database
- [ ] Compute
- [ ] Migration Services
- [ ] Management Tools
- [ ] Storage
- [x] **Networking and Content Delivery** ✓

In the AWS Console, VPC is found under the Networking and Content Delivery services. In the past it was also under Compute services however a VPC is fundamentally an network construction.

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Amazon VPC _____

☐ Allows you to build a private, virtual network in the AWS cloud.

☐ Offers several layers of security controls.

☑ **Amazon VPC offers all of these features.** ✔

☐ Affords you complete control of network configuration.

Amazon VPC allows you to build a private, virtual network in the AWS cloud, affords you complete control of network configuration, and offers several layers of security controls.

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Which of the following is AWS' event-driven, serverless compute service?

☑ **Lambda** ✔

☐ Elastic Beanstalk

☐ Lightsail

☐ EC2

Lambda is AWS' event-driven, serverless compute service?

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Your manager approaches you this morning to tell you there has been a surprise audit announced by the internal audit team for all of your company's AWS Accounts. Which service would you use to provide the necessary information to the audit team?

☐ QuickSight

☐ CloudWatch

☐ Inspector

☑ **CloudTrail** ✔

AWS CloudTrail is a service that enables governance, compliance, operational and risk auditing of your AWS account.

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You need to implement an automated service that will scan your AWS environment with the goal of both improving security and reducing costs. Which service should you use?

☑ **Trusted Advisor** ✔

☐ Config Rules

- ☐ CloudTrail

- ☐ Service Catalog

An online resource to help you reduce cost, increase performance, and improve security by optimizing your AWS environment, Trusted Advisor provides real time guidance to help you provision your resources following AWS best practices.

As an IT support center team member, you begin receiving calls from users about problems they're experiencing with your company's AWS-based point-of-sale system. You want to begin your investigation by checking with AWS for any service alerts they may be communicating. Which AWS tool will you give you the information you seek?

- ☐ AWS Trusted Advisor

- ☐ AWS Global Status Center

- ☑ **AWS Personal Health Dashboard** ✓

- ☐ AWS Operations Monitor

The AWS Personal Health Dashboard publishes alerts and remediation guidance when issues with AWS services arise. Notifications are also provided for scheduled events that may impact AWS customers. Trusted Advisor provides valuable guidance for architecting your AWS environment and workloads, but doesn't include AWS service health information. The other two options are not tools offered by AWS.

In AWS' Global Infrastructure, what are Edge Locations responsible for?

- ☐ Providing redundant backup to your AWS services

- ☐ Providing independent power grids to Availability Zones

- ☐ Providing disaster recovery services

- ☑ **Hosting a Content Delivery Network called CloudFront** ✓

Edge Locations host a Content Delivery Network called CloudFront.

An EC2 instance in your VPC needs which of the following for the Internet Gateway to route its traffic to the Internet?

- ☑ **Public IP address** ✓

- ☐ C-Name

- ☐ A-Name

- [ ] Private IP address

An EC2 instance in your VPC needs a Public IP address for the Internet Gateway to route its traffic to the Internet

Generally, there are at least _____ Availability Zones per AWS Region

- [ ] 1
- [x] **3** ✅
- [ ] 4
- [ ] 2

There are at least 3 Availability Zones per AWS Region. Some regions may contain more

For a subnet to be public and send non-local traffic to the Internet, we must update the Route Table of the public subnet and attach which of the following to the VPC that contains the subnet?

- [ ] Network Access Control List
- [ ] Route 53
- [ ] NAT Gateway
- [x] **Internet Gateway** ✅

an Internet Gateway must be attached to the VPC.

Which of the following AWS services is a fast, fully managed data warehouse that makes it simple and cost-effective to analyze all your data using standard SQL and your existing Business Intelligence tools

- [ ] Elastic Map Reduce
- [ ] DynamoDB
- [ ] Kinesis
- [x] **Redshift** ✅

Redshift is AWS' fully-managed data warehouse solution.

Which of the below allow you to make entire buckets (like one hosting an S3 website) public?

- [ ] Access Policies

- [ ] Bucket Control Lists

- [ ] Access Control Lists

- [x] **Bucket Policies** ✅

Bucket Policies allow you to control access to entire buckets, whereas Access Control Lists let you control access to individual objects within an S3 bucket. In relation to S3, Bucket Control Lists and Access Policies do not exist as configuration items.

You need to allow resources in a private subnet to access the internet. Which of the following must be present to enable this access?

- [ ] Route Tables

- [ ] Security Groups

- [ ] Network Access Control Lists

- [x] **NAT Gateway** ✅

A NAT Gateway is required to allow resources in a private subnet to access the internet. Route tables tell traffic where it should go next to reach its destination, but don't actually process or transmit traffic. Security Groups and Network Access Control Lists are used to protect resources from traffic, and by themselves do not enable access to the internet – although they need to be properly configured to let traffic bound for the internet out.

Which of the following tools provides a view of the performance and availability of your AWS services based on your requirements?

- [ ] AWS Systems Manager

- [ ] AWS Service Health Dashboard

- [x] **AWS Personal Health Dashboard** ✅

- [ ] AWS Trusted Advisor

Although it's easy to jump to AWS Service Health Dashboard as the answer, it does not provide a personalized view of AWS services; it displays their general status. It's AWS Personal Health Dashboard that focuses on the performance and availability of your AWS services so that you can respond accordingly.

Which of the following AWS services gives you a personalized view into the performance and availability of the AWS services underlying your AWS resources, alerting you and providing remediation guidance when AWS is experiencing events that my affect you?

- ☐ AWS Systems Manager

- ☐ Cloud Trail

- ☑ **AWS Personal Health Dashboard** ✓

- ☐ Trusted Advisor

AWS Personal Health Dashboard gives you a personalized view into the performance and availability of the AWS services underlying your AWS resources.

Which of the following are valid access types for an IAM user?

choose 3.

- ☑ **Using the AWS Software Developers Kit** ✓

- ☐ **Programmatic access via the command line** ✓

- ☑ **AWS Management Console access** ✓

- ☐ Emergency access via Identity Access Management (IAM)

- ☑ **Security Group access via the AWS command line** ✗

The two types of access are AWS Management Console access and Programmatic Access via the AWS API, the CLI, and the SDKs.

Which of the following Load Balancers uses Listeners, Targets, and Target Groups?

- ☑ **Application Load Blancer** ✓

- ☐ Classic Load Balancer

The ALB uses Listeners, Targets, and Target Groups.

Which of the below allows you to restrict access to individual objects in an S3 bucket?

- ☐ Access Policies

- [ ] Bucket Control Lists

- [ ] Bucket Access Lists

- [x] **Access Control Lists** ✓

Access Control Lists let you control access to individual objects within an S3 bucket, whereas Bucket Policies allow you to control access to entire buckets. In relation to S3, Bucket Control Lists and Access Policies do not exist as configuration items.

You have a mission-critical application that must be globally available at all times. Which deployment strategy should you follow?

- [ ] Deploy to all Availability Zones in your home region.

- [ ] Multi-Availability Zone

- [ ] Multi-VPC in two AWS Regions

- [x] **Multi-Region** ✓

A Multi-Region deployment will best ensure global availability. While it can be the most expensive, and complex to configure, Multi-Regional architectures will ensure that even if all Availability Zones in a single region fail due to a catastrophic event, your data will remain accessible.

True or False: To complete the process of creating a Multi-AZ RDS instance, you must copy the primary instance to a public subnet in a second Availability Zone

- [ ] True

- [x] **False** ✓

To complete the process of creating a Multi-AZ RDS instance, you must copy the primary instance to a private subnet. AWS generates a standby, and transactions are synchronously replicated.

You need to re-create an EBS volume that you have used previously. How might you go about doing that?

- [ ] Copy the AMI the volume was based on and spin it up.

- [ ] Use a CloudFormation template to recreate the volume.

- [ ] Use the copy that lives in the Auto Scaling group.

- [x] **Re-create the volume from a snapshot.** ✓

You should re-create the volume from a snapshot

You need a "virtual hard disk" for your EC2 instance. Which of the following should you choose?

- [ ] RDS
- [x] **EBS** ✓
- [ ] DDB
- [ ] S3

EBS volumes are "virtual hard disks" for your EC2 instance.

You've been tasked with assessing your AWS infrastructure in terms of cost optimization. Which of the following AWS services would help with this task?

- [ ] **Cloud Trail**
- [x] **Trusted Advisor** ✓
- [ ] **AWS Personal Health Dashboard**
- [ ] **AWS Systems Manager**

AWS Trusted Advisor is an online tool that provides you with real-time guidance to help you provision your resources following AWS best practices.

Which of the below terms represents a series of Edge Locations plus information about how you want content managed as part of a CDN?

- [x] **A Distribution** ✓
- [ ] **A Load Balancer**
- [ ] **A Circulation**
- [ ] **An Edge Group**

A Distribution is made up of Edge Locations that you want to serve content from, and details about how that content will be tracked an managed. Edge Groups and Circulations are not CloudFront Concepts, and although Load Balancer is an AWS service that helps you direct web traffic, it is not applicable in this case.

With AWS Relational Database Service (RDS), which of the following are you responsible for?

- [ ] All of these
- [ ] Scaling
- [x] **The optimization of your application using RDS** ✅
- [ ] Operating system installation and patching
- [ ] Database backups
- [ ] Database software installation and patching

You are responsible only for the optimization of your application that uses RDS – AWS will take care of the rest as this is considered a Managed Service.

You visit a clients site and get called into a corridor discussion. You are asked to describe the new (2019) URL structure for objects in S3. Which of these do you use as a description

- [ ] http, then the bucket name, then dot, then the AWS S3 regional endpoint, then slash, then the object name
- [ ] https, then the object name, then slash, then the AWS S3 regional endpoint, then slash, then bucket the name
- [ ] https, then the AWS S3 regional endpoint, then dot, then the bucket name, then slash, then the object name
- [ ] https, then the bucket name, then slash, then the AWS S3 regional endpoint, then slash, then the object name
- [ ] http, then the object name, then dot, then the AWS S3 regional endpoint, then dot, then bucket the name
- [ ] https, then the AWS S3 regional endpoint, then slash, then the bucket name, then slash, then the object name
- [x] **https, then the bucket name, then dot, then the AWS S3 regional endpoint, then slash, then the object name** ✅

AWS has updated the URL format for objects in S3 in order to partition the name space. This will introduce more consistency, but be aware that there are still multiple variation depending on feature and location.

You have just created a new bucket and uploaded a file into it – will this be automatically viewable by anyone on the internet?

- [ ] Only if you have an Internet Gateway
- [ ] Only if you have a NAT Gateway

☑ **No – by default buckets and their contents are private** ✅

☐ Yes – by default buckets and their contents are public

By default, all data stored in S3 is NOT viewable by the public. If you want a bucket or object to be accessible by the public, you must explicitly make it so. NAT Gateways and Internet Gateways are needed to allow communications between VPCs and the internet, but are not required when it comes to S3

Which of the following are key components of Amazon Glacier?

choose 3.

☑ **Archive** ✅

☑ **Access Policy** ✅

☑ **Vault** ✅

☐ Volume

☐ Table

☐ Bucket

Data is organised in S3 into Archives, and Vaults are used to group Archives together. Access policies control who can access the data in Archives & Vaults. Buckets are a part of S3, but not Glacier. Volumes are often associated with hard disks and therefore EBS, while Tables are database constructs.

A software development team needs to create numerous testing environments each day based on multiple concurrent project activities. Provisioning of these environments needs to happen within minutes to ensure that project deadlines are met. The number of environments needed daily varies depending shifting priorities in business requirements. How can the team best achieve the agility they need for creating the testing environments?

☐ Invoke AWS Lambda functions to run the test scenarios

☑ **Have AWS CloudFormation provision the stacks and resources needed for the testing environments** ✅

☐ Leverage AWS Auto Scaling to expand and contract the testing server pool based on demand

☐ Use AWS Systems Manager Automation to provision and de-provision the testing environments

AWS CloudFormation provides templates to specify all the AWS resources needed by the testing environments. These templates can be instantiated as stacks to provision consistent environments every time one is needed. AWS Auto Scaling will only handle the EC2 instances, and expands and contracts instances based on policies. AWS Systems Manager is useful for system administration tasks, and AWS Lambda has run-time limitations.

You have been asked to archive some data into Glacier that needs to be encrypted. What is the easiest way to achieve this?

☐ Once the data is in Glacier use the AWS Console to encrypt it.

☐ Glacier is not compatible with encrypted data, so it is the wrong choice for this – use S3 instead

☐ Encrypt the data locally on your server before sending it to Glacier

☑ **Send the data to Glacier and do nothing more – all data in Glacier is encrypted by default** ✓

Data stored in Glacier is encrypted by default so nothing else needs to be done. Although you can encrypt your data before sending it to Glacier, unless you need the extra security this brings over using the inbuilt encryption this is not needed. Encrypting the data in-place once it is in Glacier is not possible so is not a valid option.

For which of the following categories does AWS Trusted Advisor provide best practices and/or or checks of your AWS environment?

choose 4.

☑ **Performance** ✓

☐ Right-size

☑ **Fault Tolerance** ✓

☐ **Security** ✓

☑ **Cost Optimization** ✓

☐ High-Availability

☐ Availability of AWS resources

Trusted Advisor provide best practices and/or or checks on Cost Optimization, Performance, Security, and Fault Tolerance.

Which of the following are AWS compute services?

choose 2.

☑ **Lambda** ✓

☑ **EC2** ✓

☐ RDS

- [ ] SNS

EC2 and Lambda are AWS Compute Services.

Your project manager (PM) tasked you with launching an instance for a web application to be developed for an NGO. The PM is especially interested in using an AWS service that provides predicable monthly pricing, and he expects the instance to have the ability to burst above the baseline level of CPU performance when needed. What AWS service should you use to launch this instance?

- [ ] CloudFront

- [ ] EC2

- [x] **Lightsail** ✅

- [ ] Elasticsearch Service

Although EC2 could have been the correct answer, two things are key here: Predicable monthly pricing and instance ability to burst above the baseline level of CPU performance when needed. Lightsail accomplishes that; EC2 is more suitable for consistently high CPU performance, and costs vary according to usage.

You have a variable and intermittent workload, so you want to use a compute service that allows you to pay only for the compute resources you use, without paying for compute time when your code isn't running. Which of the following services should you use?

- [ ] Lightsail

- [ ] EC2

- [ ] ECS

- [x] **Lambda** ✅

Lambda allows you to run a variable and intermittent code without paying for compute time when your code isn't running.

Which of the following is AWS' managed database service that is up to 5X faster than a traditional MySQL database

- [ ] PostgreSQL

- [ ] DynamoDB

- [x] **Aurora** ✅

- [ ] MariaDB

Aurora is AWS' managed database service that is up to 5X faster than a traditional MySQL database.

Your application needs fully-managed storage for objects. Which of the following options should you choose?

- [ ] EC2
- [ ] EBS
- [ ] RDS
- [x] S3 ✓

S3 is fully-managed storage for objects. EBS provides virtual hard disks in the cloud and is block-based not object-based. EC2 is a compute service, and RDS is a database service.

Which of the following is the document used to grant permissions to users, groups, and roles?

- [ ] Passbook
- [x] Policy ✓
- [ ] Paradigm
- [ ] Protocol

A Policy is the document used to grant permissions to users, groups, and roles.

You need a managed, low-cost relational database for your e-commerce store. Which of the following should you use?

- [x] RDS ✓
- [ ] MySQL on EC2
- [ ] AWS ElastiCache
- [ ] DynamoDB

RDS is your best option: it's a low-cost, managed database solution.

The Solutions Architect leading your project tells you the application your team is working on requires a managed NoSQL database. Which of the following AWS services best fits that description?

- [ ] Redshift

- [ ] RDS

- [ ] ElastiCache

- [x] **DynamoDB** ✅

DynamoDB is AWS' managed NoSQL database.

True or False: S3 is object storage suitable for the storage of 'flat' files like Word documents, photos, etc

- [ ] False

- [x] **True** ✅

S3 is object storage suitable for the storage of 'flat' files like Word documents, photos, etc.

Your sales operations group would like to perform monthly analyses on large amounts of sales activity. They want to be able to rank the performance of different territories, product categories, and sales channels. They will use visualization tools to generate graphical representations of the data. Which AWS service will provide the best solution for storing the sales data?

- [ ] Amazon DynamoDB

- [ ] Amazon ElastiCache

- [ ] Amazon Aurora

- [x] **Amazon Redshift** ✅

Amazon Redshift provides the best solution for performing queries based on a predefined set of dimensions. Redshift organizes data for high performance based on user-specified distribution schemes. Amazon ElastiCache provides in-memory performance, but no data organization assistance. Amazon Aurora and Amazon DynamoDB are good solutions, but Redshift's columnar storage gives it the edge.

Which of the following AWS services should you use if you'd like to be notified when you have crossed a billing threshold?

- [ ] AWS Cost Allocation

- [x] **CloudWatch** ✅

- [ ] Trusted Advisor

- [ ] AWS Budget

A CloudWatch alarm can be set to monitor spending on your AWS Account.

What happens when an RDS Master database in a Multi-AZ deployment goes down?

- ☑ **RDS automatically fails over to the standby, which is promoted to Master.** ✓
- ☐ The asynchronous replication of RDS Multi-AZ deployments means you will suffer some data loss.
- ☐ You must copy the attached EBS volume to the standby.
- ☐ You must use the AWS console to promote the standby to Master.

Got a Question?

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