(https://linuxacademy.com/cp)   gbalam@avioconsulting.com 👤

2 🔔   Support ❓ (https://support.linuxacademy.com/hc/en-us)

≡
Navigation

Read the Linux Academy Oath (https://go.acloudguru.com/faq-la-customer-oath) from Sam Kroonenburg, our CEO.

See What the LA Product Team Has Been Up To! (/updates)

AWS Certified Cloud Practitioner Exam

🕐 1 hour 30 minutes   ⭐ 65 Questions   🕐 1.38 Minutes per Question   Beginner (/search?type=Practice Exam Challenge&difficulty=Beginner&categories=Cloud)

Go Back   Start Challenge

Question List   Show All Answers   ▼

‹   3 ③⑨ ④⓪ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ④⑨ ⑤⓪ ⑤① ⑤② ⑤③ ⑤④ ⑤⑤   ›

← Go Back

83%
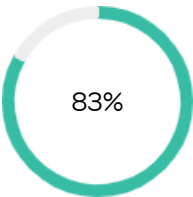
Congratulations!

You passed this challenge on this attempt.

Expectations Report Card

Domain 1: Cloud Concepts	82.35%
Domain 2: Security and Compliance	64.71%
Domain 3: Technology	95.24%
Domain 4: Billing and Pricing	90%

Exam Breakdown

Domain 1: Cloud Concepts   ^

1. You are reviewing the AWS Shared Responsibility model to present an overview to management on what your company is responsible for in AWS. Which option is a customer responsibility?   👍 👎

A	Networking

B	Edge Locations

C	**Customer Data**

D	Availability Zones

Correct Answer: C

Why is this correct?

Customers are responsible for the storage and securing of their own data. https://aws.amazon.com/compliance/shared-responsibility-model/#:~:text=Security%20and%20Compliance%20is%20a%20shared%20responsibility%20between%20AWS%20and%20the%20customer.&text=The%20customer%20assumes%20responsibility%20and,AWS%20provided%20security%20group%20firewall (https://aws.amazon.com/compliance/shared-responsibility-model/#:~:text=Security%20and%20Compliance%20is%20a%20shared%20responsibility%20between%20AWS%20and%20the%20customer.&text=The%20customer%20assumes%20responsibility%20and,AWS%20provided%20security%20group%20firewall).

---

2. You suspect that one of the AWS services your company is using has gone down. How can you check on the status of this service?

A	AWS Organizations

B	AWS Trusted Advisor

C	Amazon Inspector

D	**AWS Personal Health Dashboard**

Correct Answer: D

Why is this correct?

AWS Personal Health Dashboard provides alerts and remediation guidance when AWS is experiencing events that may impact you. While the Service Health Dashboard displays the general status of AWS services, Personal Health Dashboard gives you a personalized view into the performance and availability of the AWS services underlying your AWS resources.
The dashboard displays relevant and timely information to help you manage events in progress, and provides proactive notifications to help you plan for scheduled activities. With Personal Health Dashboard, alerts are triggered by changes in the health of AWS resources, giving you event visibility and guidance to help quickly diagnose and resolve issues. https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/ (https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/)

---

3. The CFO of a software company had requested an Executive Summary detailing the advantages of a potential move to the AWS Cloud. What can you say is an advantage of an RDS database over a traditional database?

A   It is much easier to convert to a NoSQL database.

B   AWS maintains the underlying OS and performs software patching on the database.

C   It is 5 times faster than traditional databases.

D   There is much greater access for DBAs.

Correct Answer: B

Why is this correct?

Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching, and backups. It frees you to focus on your applications so you can give them the fast performance, high availability, security, and the compatibility they need. https://aws.amazon.com/rds/ (https://aws.amazon.com/rds/)

INCORRECT

4.   When configuring an Application Load Balancer, what step will you take to ensure a highly available architecture?

A   Configure the Load Balancer to serve traffic to multiple Availability Zones.

B   Set up cross-region Load Balancing.

C   Set up multiple Edge Locations for your load balancer.

D   Set up more than one ALB.

Your Answer: B

Why is this incorrect?

Load Balancing can be set up to serve traffic across multiple availability zones (not multi-region).

Correct Answer: A

Why is this correct?

You would set up the load balancer to deliver traffic across multiple availability zones. https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/enable-disable-az.html (https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/enable-disable-az.html)

5.   An on-premises application requires a consistent, high-speed connection to the AWS Cloud environment that is better than an internet-based connection. Which AWS service can provide this connection?

A   STS

B   VPC Peering

C   AWS VPN

D   Direct Connect

Correct Answer: D

Why is this correct?

AWS Direct Connect is a cloud service solution that makes it easy to establish a dedicated network connection from your premises to AWS. AWS Direct Connect lets you establish a dedicated network connection between your network and one of the AWS Direct Connect locations. https://aws.amazon.com/directconnect/ (https://aws.amazon.com/directconnect/)

---

6. Which statement is true regarding the AWS Global Infrastructure?   👍 👎

A Each AWS Region consists of multiple, isolated, and physically separate AZ's within a geographic area.

B Availability Zones contain Edge Locations

C Edge Locations contain Regions

D Each AWS Availability Zone contains multiple regions.

Correct Answer: A

Why is this correct?

AWS has the concept of a Region, which is a physical location around the world where we cluster data centers. We call each group of logical data centers an Availability Zone. Each AWS Region consists of multiple, isolated, and physically separate AZ's within a geographic area. Unlike other cloud providers, who often define a region as a single data center, the multiple AZ design of every AWS Region offers advantages for customers. Each AZ has independent power, cooling, and physical security and is connected via redundant, ultra-low-latency networks. AWS customers focused on high availability can design their applications to run in multiple AZ's to achieve even greater fault-tolerance. AWS infrastructure Regions meet the highest levels of security, compliance, and data protection.
Reference: Regions (https://aws.amazon.com/about-aws/global-infrastructure/regions_az/#Regions)

---

7. You want to define a virtual network in an AWS account to be able to launch resources in that virtual   👍 👎
        network. What do you need to configure?

A Internet Gateway

B Virtual Private Gateway

C VPC

D AWS Organizations

Correct Answer: C

Why is this correct?

Amazon Virtual Private Cloud (Amazon VPC) lets you provision a logically isolated section of the AWS Cloud where you can launch AWS resources in a virtual network that you define. You have complete control over your virtual networking environment, including the selection of your own IP address range, creation of subnets, and configuration of route tables and network gateways. You can use both IPv4 and IPv6 in your VPC for secure and easy access to resources and applications. https://aws.amazon.com/vpc/ (https://aws.amazon.com/vpc/)

---

8. Which of the following is an AWS Global Service?   👍 👎

A   Amazon RDS

B   EC2

C   IAM

D   VPC

Correct Answer: C

Why is this correct?

Identity and Access Management is a Global service.

---

9. Which AWS service can help you optimize your AWS environment by giving recommendations to reduce   👍 👎
cost, increase security, and improve performance?

A   AWS Optimizations

B   AWS Trusted Advisor

C   AWS Inspector

D   AWS CloudWatch

Correct Answer: B

Why is this correct?

AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices. Trusted Advisor checks help optimize your AWS infrastructure, increase security and performance, reduce your overall costs, and monitor service limits. Whether establishing new workflows, developing applications, or as part of ongoing improvement, take advantage of the recommendations provided by Trusted Advisor on a regular basis to help keep your solutions provisioned optimally.
https://aws.amazon.com/premiumsupport/technology/trusted-advisor/
(https://aws.amazon.com/premiumsupport/technology/trusted-advisor/)

---

10. Upon venturing into using the AWS Cloud, your company decides to follow the 5 pillars of the AWS Well   👍 👎

Architected Framework. Which items are pillars of the Well Architected Framework?

A Reliability

B Scalability

C Elasticity

D Operational Excellence

E Ease of Use

Correct Answer: A

Why is this correct?

The reliability pillar includes the ability of a system to recover from infrastructure or service disruptions, dynamically acquire computing resources to meet demand, and mitigate disruptions such as misconfigurations or transient network issues. https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/ (https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/)

Correct Answer: D

Why is this correct?

The operational excellence pillar includes the ability to run and monitor systems to deliver business value and to improve supporting processes and procedures continually. https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/ (https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/)

---

11. You would like to set up a loosely coupled architecture. Which service would allow you to send and receive messages, but most importantly, store messages if they are not consumed immediately?

A AWS SES

B AWS CloudSearch

C AWS SQS

D AWS S3

Correct Answer: C

Why is this correct?

Amazon Simple Queue Service (SQS) is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. SQS eliminates the complexity and overhead associated with managing and operating message-oriented middleware and empowers developers to focus on differentiating work. Using SQS, you can send, store, and receive messages between software components at any volume, without losing messages or requiring other services to be available. https://aws.amazon.com/sqs/ (https://aws.amazon.com/sqs/)

INCORRECT

12. A video production company uploads large video files to S3 buckets using multipart upload. To which AWS Cloud best practice does this adhere?

A   Implement Elasticity

B   Decouple your components

C   Think Parallel

D   Design for Failure

Your Answer: B

Why is this incorrect?

The cloud reinforces the SOA design principle that the more loosely coupled the components of the system, the bigger and better it scales. Reference: Architecting in the Cloud (http://aws001.s3.amazonaws.com/trailhead/TrailHead_ArchitectingInTheCloud.pdf).

Correct Answer: C

Why is this correct?

Multipart uploads use multi-threading to upload large files to S3 buckets in parallel (the parts of the file are uploaded in parallel). Reference: Architecting in the Cloud (http://aws001.s3.amazonaws.com/trailhead/TrailHead_ArchitectingInTheCloud.pdf).

---

13. Which AWS service can you use to connect your AWS cloud with an on-premises data center?

A   Virtual Private Gateway

B   Internet Gateway

C   VPC Peering

D   IAM

Correct Answer: A

Why is this correct?

A virtual private gateway is a logical, fully redundant distributed edge routing function that sits at the edge of your VPC. As it is capable of terminating VPN connections from your on-prem or customer environments, the VPG is the VPN concentrator on the Amazon side of the Site-to-Site VPN connection.

---

14. Your company is moving to the AWS Cloud and is reviewing the shared responsibility model. Which item is entirely the responsibility of AWS?

A   Implementing IAM Groups

B   Patching of the guest OS

C   Storing CloudFormation Templates in another region for Disaster Recovery.

D   Physical and Environmental Controls

Correct Answer: D

Why is this correct?

AWS is responsible for protecting the physical infrastructure and environmental controls that run all of the services offered in the AWS Cloud. This infrastructure is composed of the hardware, software, networking, and facilities that run AWS Cloud services.

---

15. Which statement below is one of the 6 advantages of cloud computing?

A   Benefit from increased speed and agility.

B   Trade variable expense for capital expense.

C   Easily guess capacity.

D   Benefit from minor economies of scale.

Correct Answer: A

Why is this correct?

Increase speed and agility – In a cloud computing environment, new IT resources are only a click away, which means that you reduce the time to make those resources available to your developers from weeks to just minutes. This results in a dramatic increase in agility for the organization since the cost and time it takes to experiment and develop is significantly lower.
https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html (https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html)

INCORRECT

16. Your company has decided to use Amazon WorkSpaces. They can use Amazon WorkSpaces to provision either Windows or Linux desktops in just a few minutes. What type of solution is this?

A   PaaS

B   IaaS

C   SaaS

D   DaaS

Your Answer: A

Why is this incorrect?

A good example of PaaS is AWS Elastic Beanstalk. Platforms as a Service remove the need for organizations to manage the underlying infrastructure (usually hardware and operating systems) and allow you to focus on the deployment and management of your applications.

Correct Answer: D

Why is this correct?

Amazon WorkSpaces provides a Desktop as a Service (DaaS) solution. https://aws.amazon.com/workspaces/?workspaces-blogs.sort-by=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc (https://aws.amazon.com/workspaces/?workspaces-blogs.sort-by=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc)

---

17. Which of the following can you use as a web-based interface to view processes in AWS?

A	AWS CLI

B	AWS SDK

C	AWS Management Console

D	AWS API

Correct Answer: C

Why is this correct?

AWS Management Console is a web application for managing Amazon Web Services.

Domain 2: Security and Compliance   ⌃

---

18. You are concerned about access to your top-secret application by stolen passwords. What additional layer of security can you add for logging in to AWS Management Console, in addition to user passwords?

A	AWS Voice Recognition

B	AWS Transcribe

C	Multi-Factor Authentication

D	Secret Access Keys

Correct Answer: C

Why is this correct?

AWS Multi-Factor Authentication (MFA) is a simple best practice that adds an extra layer of protection on top of your user name and password. With MFA enabled, when a user signs in to an AWS Management Console, they will be prompted for their user name and password (the first factor—what they know), as well as for an authentication code from their AWS MFA device (the second factor—what they have). Taken together, these multiple factors provide increased security for your AWS account settings and resources. https://aws.amazon.com/iam/features/mfa/ (https://aws.amazon.com/iam/features/mfa/)

19. As an AWS account administrator, you are in charge of creating AWS accounts and securing those 👍 👎 accounts. What steps can you take?

A Create multi-factor authentication for the root account.

B Add IP restrictions for all accounts

C Store the root account credentials in sharepoint.

D Grant admin access to all users.

E Create functional groups for each department and use a common password for each group.

Correct Answer: A

Why is this correct?
This will add an additional layer of security to the root account.

Correct Answer: B

Why is this correct?
This would greatly limit who can access your environment and from where.

---

20. A new application needs temporary access to resources in AWS. How can this best be achieved? 👍 👎

A Create an IAM Policy and attach it to the application.

B Create an IAM Role and have the application assume the role.

C Store access key in an S3 Bucket and give the application access to the bucket.

D Add the application to a group that has the appropriate permissions.

Correct Answer: B

Why is this correct?
Use an IAM role to manage temporary credentials for applications that run on an EC2 instance. When you use a role, you don't have to distribute long-term credentials (such as a user name and password or access keys) to an EC2 instance. Instead, the role supplies temporary permissions that applications can use when they make calls to other AWS resources. When you launch an EC2 instance, you specify an IAM role to associate with the instance. Applications that

run on the instance can then use the role-supplied temporary credentials to sign API requests.
https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_switch-role-ec2.html
(https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_switch-role-ec2.html)

INCORRECT

21. A software development team has requested IAM access to be able to work with AWS from the CLI. 👍 👎
    What will you provide these developers?

> **A** Access Keys

> **B** Security Token

> **C** Username and password

> **D** Root user credentials

Your Answer: B

Why is this incorrect?

Security tokens provide limited, short term access for IAM users or Federated (outside) users. AWS Security Token Service (AWS STS) is a web service that enables you to request temporary, limited-privilege credentials for AWS Identity and Access Management (IAM) users or for users that you authenticate (federated users).
https://docs.aws.amazon.com/STS/latest/APIReference/welcome.html
(https://docs.aws.amazon.com/STS/latest/APIReference/welcome.html)

Correct Answer: A

Why is this correct?

Access keys are long-term credentials for an IAM user or the AWS account root user. You can use access keys to sign programmatic requests to the AWS CLI or AWS API.
https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html
(https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html)

---

22. You need to set up a virtual firewall for your EC2 instance. Which would you use? 👍 👎

> **A** Security Group

> **B** Subnet

> **C** Network ACL

> **D** IAM Policy

Correct Answer: A

Why is this correct?

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. When you launch an instance in a VPC, you can assign up to five security groups to the instance. Security groups act at the instance level, not the subnet level. Therefore, each instance in a subnet in your VPC can be assigned to a different set of security groups. https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html (https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html)

INCORRECT

23. AWS uses the shared responsibility model. For security, which of the following are the responsibilities of 👍 👎 AWS?

A	Configure Security Groups

B	User password rules

C	Physically securing compute resources

D	Network patching

E	Disk disposal

Your Answer: B

Why is this incorrect?

All passwords are the responsibility of the customer, as they are in charge of their information.

Correct Answer: C

Why is this correct?

AWS is in charge of physically securing compute resources, as it is part of the infrastructure that runs all of the services offered in the AWS Cloud.

Correct Answer: D

Why is this correct?

Network patching is one of AWS's responsibilities, as it is connected to the infrastructure that AWS handles.

Correct Answer: E

Why is this correct?

Disk disposal is one of AWS's responsibilities, as it is connected to the infrastructure, which AWS handles.

INCORRECT

24. A company has a large number of S3 buckets and needs to manage and automate tasks on these buckets at one time. Which AWS feature can do this?

A	IAM Groups

B	Resource Groups

C	Tagging

D   IAM

Your Answer: C

Why is this incorrect?

Tagging assists with the organization of resources but not directly managing those resources. Amazon Web Services allows customers to assign metadata to their AWS resources in the form of tags. Each tag is a simple label consisting of a customer-defined key and an optional value that can make it easier to manage, search for, and filter resources by purpose, owner, environment, or other criteria.

Correct Answer: B

Why is this correct?

You can use resource groups to organize your AWS resources. Resource groups make it easier to manage and automate tasks on large numbers of resources at one time. This guide shows you how to create and manage resource groups in AWS Resource Groups. https://docs.aws.amazon.com/ARG/latest/userguide/welcome.html (https://docs.aws.amazon.com/ARG/latest/userguide/welcome.html)

INCORRECT

25. Your company has recently migrated large amounts of data to the AWS cloud in S3 buckets. But it is necessary to discover and protect the sensitive data in these buckets. Which AWS service can do that?

A   GuardDuty

B   Amazon Macie

C   CloudTrail

D   AWS Inspector

Your Answer: D

Why is this incorrect?

Amazon Inspector is an automated security assessment service that helps improve the security and compliance of applications deployed on AWS. Amazon Inspector automatically assesses applications for exposure, vulnerabilities, and deviations from best practices. https://aws.amazon.com/inspector/ (https://aws.amazon.com/inspector/)

Correct Answer: B

Why is this correct?

Amazon Macie is a fully managed data security and data privacy service that uses machine learning and pattern matching to discover and protect your sensitive data in AWS. https://aws.amazon.com/macie/ (https://aws.amazon.com/macie/)

26. You are storing sensitive employee information in an S3 Bucket. What can you use to give bucket access only to authorized personnel?

A   Network Access Control List

B   Access Keys

C Bucket Policy

D Login and password

Correct Answer: C

Why is this correct?

S3 bucket policies specify what actions are allowed or denied for which principals on the bucket that the bucket policy is attached to (e.g., allow user Alice to PUT but not DELETE objects in the bucket).
https://aws.amazon.com/blogs/security/iam-policies-and-bucket-policies-and-acls-oh-my-controlling-access-to-s3-resources/#:~:text=In%20other%20words%2C%20IAM%20policies,do%20in%20your%20AWS%20environment.&text=S3%20bucket%20policies%20specify%20what,DELETE%20objects%20in%20the%20bucket)
(https://aws.amazon.com/blogs/security/iam-policies-and-bucket-policies-and-acls-oh-my-controlling-access-to-s3-resources/#:~:text=In%20other%20words%2C%20IAM%20policies,do%20in%20your%20AWS%20environment.&text=S3%20bucket%20policies%20specify%20what,DELETE%20objects%20in%20the%20bucket)).

27. Which AWS service can be used to detect and prevent Distributed Denial of Service attacks against services hosted on AWS?

A AWS Shield

B AWS Inspector

C AWS WAF

D Amazon GuardDuty

Correct Answer: A

Why is this correct?

AWS Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield provides always-on detection and automatic inline mitigations that minimize application downtime and latency, so there is no need to engage AWS Support to benefit from DDoS protection. There are two tiers of AWS Shield - Standard and Advanced. https://aws.amazon.com/shield/ (https://aws.amazon.com/shield/)

28. Which policy will provide information on performing penetration testing on your EC2 instances?

A AWS Customer Agreement

B IAM Policy

C JSON Policy

D Customer Service Policy for Penetration Testing

Correct Answer: D

Why is this correct?

AWS customers are welcome to carry out security assessments or penetration tests against their AWS infrastructure without prior approval for Amazon EC2 instances, NAT Gateways, Elastic Load Balancers, and other 7 services. Reference: Penetration Testing (https://aws.amazon.com/security/penetration-testing/).

---

29. You are creating a few IAM policies. This is the first time you have worked with IAM policies. Which tool can you use to test IAM policies? 👍 👎

A   CloudWatch

B   IAM Policy Simulator

C   Amazon GuardDuty

D   Amazon Inspector

Correct Answer: B

Why is this correct?

With the IAM policy simulator, you can test and troubleshoot identity-based policies, IAM permissions boundaries, Organizations service control policies, and resource-based policies.
https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_testing-policies.html
(https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_testing-policies.html)

---

30. A company is configuring IAM for its new AWS account. There are 5 departments with between 5 to 10 users in each department. How can they efficiently apply access permissions for each of these departments and simplify management of these users? 👍 👎

A   Create an IAM role defining the permissions needed. Create an IAM group and attach the policy to the group. Add the department's members to the group.

B   Create policies for each department that define the permissions needed. Create an IAM group for each department and attach the policy to each group. Add each department's members to their respective IAM group.

C   Create a policies defining the permissions needed. Attach the policies to all users in each department.

D   Create an IAM group for each department. Add the department's members to the group.

Correct Answer: B

Why is this correct?

By creating an IAM group, all like users can be managed all at one time. Once the permissions are defined within the policy, it can be attached to the IAM group, allowing them access to the resources/services stated within the policy.

INCORRECT

👍 👎

31. Developers in your company need to interact with AWS from the Command Line Interface. Which security item will you need to provide to the developers?

| A | Login ID |

| B | Root password |

| C | Security Token |

| D | Access Key |

Your Answer: C

Why is this incorrect?

Tokens are used for such things as requesting temporary access, but access keys are used with the CLI.

Correct Answer: D

Why is this correct?

When working with AWS from the CLI, you need to provide an access key and secret access key.

---

32. Which AWS service provides central governance and management across multiple AWS accounts?

| A | CloudFormation |

| B | Identity and Access Management |

| C | AWS Systems Manager |

| D | AWS Organizations |

Correct Answer: D

Why is this correct?

AWS Organizations helps you centrally govern your environment as you grow and scale your workloads on AWS. Whether you are a growing startup or a large enterprise, AWS Organizations helps you to centrally manage billing, control access, compliance, and security, and share resources across your AWS accounts.
Using AWS Organizations, you can automate account creation, create groups of accounts to reflect your business needs, and apply policies for these groups for governance. You can also simplify billing by setting up a single payment method for all of your AWS accounts. Through integrations with other AWS services, you can use Organizations to define central configurations and resource sharing across accounts in your organization. AWS Organizations is available to all AWS customers at no additional charge. https://aws.amazon.com/organizations/ (https://aws.amazon.com/organizations/)

INCORRECT

33. In Identity and Access Management, which term applies to a person or application that uses the AWS account root user, an IAM user, or an IAM role to sign in and make requests to AWS?

A Principal

B Resource

C Identity

D Entity

Your Answer: C

Why is this incorrect?

Identities are the IAM resource objects that are used to identify and group. You can attach a policy to an IAM identity. These include users, groups, and roles.

Correct Answer: A

Why is this correct?

A Principal is a person or application that uses the AWS account root user, an IAM user, or an IAM role to sign in and make requests to AWS.

---

34. Your organization is multi-national and uses multiple AWS regions. Which AWS service can be used to route users to the nearest datacenter to reduce latency?   👍 👎

A AWS IAM

B AWS VPC

C AWS Organizations

D AWS Route 53

Correct Answer: D

Why is this correct?

Amazon Route 53 effectively connects user requests to infrastructure running in AWS – such as Amazon EC2 instances, Elastic Load Balancing load balancers, or Amazon S3 buckets – and can also be used to route users to infrastructure outside of AWS. You can use Amazon Route 53 to configure DNS health checks to route traffic to healthy endpoints or to independently monitor the health of your application and its endpoints. Amazon Route 53 Traffic Flow makes it easy for you to manage traffic globally through a variety of routing types, including Latency Based Routing, Geo DNS, Geoproximity, and Weighted Round Robin—all of which can be combined with DNS Failover to enable a variety of low-latency, fault-tolerant architectures. Using Amazon Route 53 Traffic Flow's simple visual editor, you can easily manage how your end-users are routed to your application's endpoints—whether in a single AWS region or distributed around the globe. Amazon Route 53 also offers Domain Name Registration – you can purchase and manage domain names such as example.com, and Amazon Route 53 will automatically configure DNS settings for your domains. https://aws.amazon.com/route53/ (https://aws.amazon.com/route53/)

Domain 3: Technology   ^

35. Several S3 Buckets have been deleted, and a few EC2 instances have been terminated. Which AWS service can you use to determine who took these actions?

A   AWS CloudWatch

B   AWS Inspector

C   AWS CloudTrail

D   Trusted Advisor

Correct Answer: C

Why is this correct?

CloudTrail provides the event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command line tools, and other AWS services.

---

36. A software company is looking for a tool to automate their deployments from end to end. Which AWS service can provide this continuous delivery functionality?

A   CodeCommit

B   CodeDeploy

C   CodePipeline

D   CodeBuild

Correct Answer: C

Why is this correct?

AWS CodePipeline is a fully managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates. CodePipeline automates the build, test, and deploy phases of your release process every time there is a code change, based on the release model you define. This enables you to rapidly and reliably deliver features and updates. https://aws.amazon.com/codepipeline/ (https://aws.amazon.com/codepipeline/)

---

37. You have joined a small company and inherited an AWS application built within the EC2 Classic network. Which Load Balancer will work with this application?

A   Application Load Balancer

B   Network Load Balancer

C Classic Load Balancer

D None, the application needs to be upgraded.

Correct Answer: C

Why is this correct?

Classic Load Balancer provides basic load balancing across multiple Amazon EC2 instances and operates at both the request level and connection level. Classic Load Balancer is intended for applications that were built within the EC2-Classic network. https://aws.amazon.com/elasticloadbalancing/ (https://aws.amazon.com/elasticloadbalancing/)

---

38. Your company utilizes DNS and wants to migrate DNS and management of DNS to the cloud. Which 👍 👎
AWS service would you use?

A Route 53

B Application Load Balancers

C CloudFront

D CloudFormation

Correct Answer: A

Why is this correct?

Amazon Route 53 provides highly available and scalable Domain Name System (DNS) services, domain name registration, and health-checking web services. It is designed to give developers and businesses an extremely reliable and cost-effective way to route end users to Internet applications by translating names like example.com into the numeric IP addresses, such as 192.0.2.1, that computers use to connect. https://aws.amazon.com/route53/ (https://aws.amazon.com/route53/)

---

39. Several EC2 instances in a public subnet need internet access. Which will you configure as one step in 👍 👎
granting internet access?

A API Gateway

B VPC Peering

C NAT Gateway

D Internet Gateway

Correct Answer: D

Why is this correct?

An internet gateway is a horizontally scaled, redundant, and highly available VPC component that allows communication between your VPC and the internet. An internet gateway serves two purposes: to provide a target in your VPC route tables for internet-routable traffic, and to perform network address translation (NAT) for instances that have been

assigned public IPv4 addresses. https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html
(https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html)

INCORRECT

40. A financial company needs to migrate large amounts of data, at a petabyte-scale, to AWS. Which AWS 👍 👎
service can perform this type of migration?

A AWS Snowball

B Database Migration Service

C AWS Data Pipeline

D API Gateway

Your Answer: B

Why is this incorrect?

It would not be practical to use this service for such a large migration. Additionally, it has not been specified that this data
is all contained within a database. https://aws.amazon.com/dms/ (https://aws.amazon.com/dms/)

Correct Answer: A

Why is this correct?

Snowball is a petabyte-scale data transport solution that uses secure appliances to transfer large amounts of data into
and out of the AWS cloud. Using Snowball addresses common challenges with large-scale data transfers including high
network costs, long transfer times, and security concerns. https://aws.amazon.com/getting-started/projects/migrate-
petabyte-scale-data/services-
costs/#:~:text=Description%3A%20Snowball%20is%20a%20petabyte,transfer%20times%2C%20and%20security%20
concerns (https://aws.amazon.com/getting-started/projects/migrate-petabyte-scale-data/services-
costs/#:~:text=Description%3A%20Snowball%20is%20a%20petabyte,transfer%20times%2C%20and%20security%20
concerns).

---

41. You need to store key-value pairs of users and their high scores for a gaming application. Which is the 👍 👎
best option for this type of data?

A AWS S3

B DynamoDB

C RDS MySQL

D Amazon RedShift

Correct Answer: B

Why is this correct?

DynamoDB is ideally suited for storing key-value pairs as it is a key-value and document database that delivers single-digit millisecond performance at any scale. https://aws.amazon.com/dynamodb/ (https://aws.amazon.com/dynamodb/)

---

42. If you have an RDS database, which is very I/O intensive, which service is most suitable to improve performance? 👍 👎

A DAX

B DynamoDB

C Elasticache

D RedShift

Correct Answer: C

Why is this correct?

You can use Elasticache to store the results of often-used queries, and this will allow quicker retrieval of this data. https://aws.amazon.com/elasticache/ (https://aws.amazon.com/elasticache/)

---

43. A company is migrating to the AWS Cloud. They need to set up DNS in the cloud. Which service is a highly available and scalable cloud DNS service in AWS? 👍 👎

A Amazon Macie

B Amazon VPC

C Route 53

D CloudFront

Correct Answer: C

Why is this correct?

Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service. It is designed to give developers and businesses an extremely reliable and cost-effective way to route end users to Internet applications by translating names like www.example.com (http://www.example.com) into the numeric IP addresses like 192.0.2.1 that computers use to connect. Amazon Route 53 is fully compliant with IPv6 as well. https://aws.amazon.com/route53/ (https://aws.amazon.com/route53/)

---

44. You have two software systems that need to communicate, and you also need to ensure that messages are not lost between them. Which AWS service can help meet these requirements? 👍 👎

A SES

B SQS

C CloudWatch

D SNS

Correct Answer: B

Why is this correct?

Amazon SQS is a message queue service used by distributed applications to exchange messages through a polling model, and can be used to decouple sending and receiving components. Amazon SQS also provides extremely high message durability, ensuring that messages are not lost if your software systems fail.

---

45. Which AWS service allows the deployment of resources in code templates, otherwise known as infrastructure as code?

A Elastic Beanstalk

B CloudFormation

C Systems Manager

D OpsWorks

Correct Answer: B

Why is this correct?

AWS CloudFormation provides a common language for you to model and provision AWS and third-party application resources in your cloud environment. AWS CloudFormation allows you to use programming languages or a simple text file to model and provision, in an automated and secure manner, all the resources needed for your applications across all regions and accounts. https://aws.amazon.com/cloudformation/ (https://aws.amazon.com/cloudformation/)

---

46. Your design team has recommended the need to distribute incoming traffic across multiple EC2 instances and also across multiple availability zones. Which AWS service can accomplish this?

A CloudFormation

B Auto Scaling Group

C Elastic Load Balancer

D CloudFront

Correct Answer: C

5/17/2021

Linux Academy

Why is this correct?

Elastic Load Balancing automatically distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, and Lambda functions. It can handle the varying load of your application traffic in a single Availability Zone or across multiple Availability Zones. Elastic Load Balancing offers three types of load balancers that all feature the high availability, automatic scaling, and robust security necessary to make your applications fault-tolerant. https://aws.amazon.com/elasticloadbalancing/ (https://aws.amazon.com/elasticloadbalancing/)

---

47. A new application rolled out by the development team is going to require load balancing of HTTP and HTTPS traffic. Which Load Balancer is best suited for this type of traffic?

A Application Load Balancer

B Network Load Balancer

C Classic Load Balancer

D HTTP Load Balancer

Correct Answer: A

Why is this correct?

Application Load Balancer is best suited for load balancing of HTTP and HTTPS traffic and provides advanced request routing targeted at the delivery of modern application architectures, including microservices and containers. https://aws.amazon.com/elasticloadbalancing/ (https://aws.amazon.com/elasticloadbalancing/)

---

48. You have been tasked with going into the AWS company account and getting information on saving money, improving system performance and reliability, and closing security gaps. Which tool can you use to get this information?

A AWS Cost and Usage Report

B AWS Trusted Advisor

C AWS Inspector

D CloudWatch

Correct Answer: B

Why is this correct?

AWS Trusted Advisor is an online tool that provides you real-time guidance to help you provision your resources following AWS best practices. Trusted Advisor helps optimize your AWS infrastructure, increase security and performance, reduce your overall costs, and monitor service limits. https://aws.amazon.com/premiumsupport/technology/trusted-advisor/ (https://aws.amazon.com/premiumsupport/technology/trusted-advisor/)

https://app.linuxacademy.com/challenges/aws-certified-cloud-practitioner?redirect_uri=https:%2F%2Flinuxacademy.com%2Fcp%2Fmodules%2Fvie…   23/31

49. Which storage service can provide very high durability storage for Objects?

A Amazon S3

B DynamoDB

C Amazon Aurora

D RDS MySQL

Correct Answer: A

Why is this correct?

S3 provides high durability storage of objects. https://aws.amazon.com/s3/ (https://aws.amazon.com/s3/)

50. You need to stream data in real-time for a dashboard application. Which AWS service would you use?

A AWS Kinesis

B AWS CloudWatch

C AWS CloudTrail

D Amazon RedShift

Correct Answer: A

Why is this correct?

Amazon Kinesis makes it easy to collect, process, and analyze real-time, streaming data so you can get timely insights and react quickly to new information. https://aws.amazon.com/kinesis/ (https://aws.amazon.com/kinesis/)

51. After experiencing unusual behavior in your AWS account, you need to determine if there are any issues with AWS that may be affecting your account. What section of the AWS portal helps you to inspect account alerts and find remediation guidance for your account?

A AWS SNS

B AWS CloudWatch

C AWS Personal Health Dashboard

D AWS Service Health Dashboard

Correct Answer: C

Why is this correct?

AWS Personal Health Dashboard provides alerts and remediation guidance when AWS is experiencing events that may impact you. While the Service Health Dashboard displays the general status of AWS services, Personal Health Dashboard gives you a personalized view into the performance and availability of the AWS services underlying your AWS resources. https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/ (https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/)

---

52. Your company hosts gaming applications online and would like to deliver these apps to a worldwide audience. Which AWS Service would enable delivery to users worldwide and greatly improve response times?

A DynamoDB

B Elasticache

C CloudFront

D CloudFormation

Correct Answer: C

Why is this correct?

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment.

---

53. AWS Trusted Advisor provide checks in 5 different categories. Which item is not one of those checks?

A Cost Optimization

B Security

C Elasticity

D Fault Tolerance

Correct Answer: C

Why is this correct?

Although this is a valued concept in AWS, it is not one of the 5 checks provided in Trusted Advisor.

---

54. A Healthcare agency needs to store certain patient information for up to 10 years. To save cost, they want to archive this data to cheaper storage. The data needs to be retrieved within 12 hours. Which is the cheapest option?

A Glacier Deep Archive

B   Glacier

C   Redshift

D   S3 Standard IA

Correct Answer: A

Why is this correct?

Glacier Deep Archive meets the requirement and is the cheapest option. Amazon S3 Glacier and S3 Glacier Deep Archive are secure, durable, and extremely low-cost Amazon S3 cloud storage classes for data archiving and long-term backup. They are designed to deliver 99.999999999% durability and provide comprehensive security and compliance capabilities that can help meet even the most stringent regulatory requirements. https://aws.amazon.com/glacier/ (https://aws.amazon.com/glacier/)

---

55. A travel company has an application that serves customers worldwide. Which AWS service can speed up delivery of content to this widespread customer base?

A   OpsWorks

B   S3

C   CloudFront

D   CodeDeploy

Correct Answer: C

Why is this correct?

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment. CloudFront is integrated with AWS – both physical locations that are directly connected to the AWS global infrastructure, as well as other AWS services. https://aws.amazon.com/cloudfront/ (https://aws.amazon.com/cloudfront/)

Domain 4: Billing and Pricing   ^

---

56. A company has multiple AWS accounts across multiple regions. Which AWS service can be used to manage these accounts and provide consolidated billing?

A   CloudFormation

B   Trusted Advisor

C Identity and Access Management

D AWS Organizations

Correct Answer: D

Why is this correct?

AWS Organizations helps you centrally govern your environment as you grow and scale your workloads on AWS. Whether you are a growing startup or a large enterprise, Organizations helps you to centrally manage billing; control access, compliance, and security; and share resources across your AWS accounts. https://aws.amazon.com/organizations/ (https://aws.amazon.com/organizations/)

---

57. You are leading a pilot program to try the AWS Cloud for one of your applications. You have been instructed to provide an estimate of your AWS bill. Which service will allow you to do this by manually entering your planned resources by service?

A AWS CloudTrail

B AWS Cost and Usage Report

C AWS Pricing Calculator

D AWS Cost Explorer

Correct Answer: C

Why is this correct?

With the AWS Pricing Calculator, you can input the services you will use, and the configuration of those services, and get an estimate of the costs these services will accrue. AWS Pricing Calculator lets you explore AWS services, and create an estimate for the cost of your use cases on AWS.

---

58. You need to track your AWS costs on a detailed level. Which tool will allow you to do this?

A AWS CloudWatch

B Cost Allocation Tags

C AWS Organizations

D AWS CloudTrail

Correct Answer: B

Why is this correct?

A tag is a label that you or AWS assigns to an AWS resource. Each tag consists of a key and a value. For each resource, each tag key must be unique, and each tag key can have only one value. You can use tags to organize your resources, and cost allocation tags to track your AWS costs on a detailed level. After you activate cost allocation tags, AWS uses the cost

allocation tags to organize your resource costs on your cost allocation report to make it easier for you to categorize and track your AWS costs. AWS provides two types of cost allocation tags, an AWS generated tags and user-defined tags. AWS defines, creates, and applies the AWS generated tags for you, and you define, create, and apply user-defined tags. You must activate both types of tags separately before they can appear in Cost Explorer or on a cost allocation report. https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/cost-alloc-tags.html (https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/cost-alloc-tags.html)

---

59. You have many database backups that you need to store for an indefinite amount of time. If the backups are ever needed, they just need to be retrieved within 6 hours. What is the lowest cost solution for this scenario?

> A   Amazon S3 Standard-IA

> B   Amazon S3

> C   Amazon EFS

> **D**   Amazon Glacier

Correct Answer: D

Why is this correct?

Amazon Glacier provides the lowest cost option for long-term storage and is perfectly suited for this scenario. The backups would not need to be retrieved quickly, so Glacier is the best option. https://aws.amazon.com/glacier/ (https://aws.amazon.com/glacier/)

---

60. A fantasy sports company needs to run an application for the length of a football season (5 months). They will run the application on an EC2 instance and there can be no interruption. Which purchasing option best suits this use case?

> **A**   On-Demand

> B   Reserved

> C   Dedicated

> D   Spot

Correct Answer: A

Why is this correct?

This is not a long enough term to make reserved instances the better option. Plus, the application can't be interrupted, which rules out spot instances.

---

61. A healthcare company has nightly batch jobs that can afford to be interrupted. Which EC2 pricing model can meet this need and provide great savings by using a supply and demand model?

A   Standard Reserved Instances

B   On-Demand

C   Spot Instances

D   Scheduled Reserved Instances

Correct Answer: C

Why is this correct?

Amazon EC2 Spot Instances let you take advantage of unused EC2 capacity in the AWS cloud. Spot Instances are available at up to a 90% discount compared to On-Demand prices. You can use Spot Instances for various stateless, fault-tolerant, or flexible applications such as big data, containerized workloads, CI/CD, web servers, high-performance computing (HPC), and test and development workloads. https://aws.amazon.com/ec2/spot/ (https://aws.amazon.com/ec2/spot/)

---

62. Your Finance Department has instructed you to save costs wherever possible when using the AWS Cloud. You notice that using reserved EC2 instances on a 1-year contract will save money. What payment method will save the most money?

A   Deferred

B   Partial Upfront

C   All Upfront

D   No Upfront

Correct Answer: C

Why is this correct?

With the All Upfront option, you pay for the entire Reserved Instance term with one upfront payment. This option provides you with the largest discount compared to On-Demand Instance pricing. https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/ (https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/)

INCORRECT

63. Your company is considering migrating its data center to the cloud. What are the advantages of the AWS cloud over an on-premises data center?

A   Replace upfront operational expenses with low variable operational expenses.

B   Maintain physical access to the new data center, but share responsibility with AWS.

C   Replace low variable costs with upfront capital expenses.

D   Replace upfront capital expenses with low variable costs.

Your Answer: A

Why is this incorrect?

The focus on moving to the cloud is the ability to replace upfront capital expenses.

Correct Answer: D

Why is this correct?

All the hardware purchased upfront for a data center will be replaced by resources which are variable in nature with low upfront costs. https://d1.awsstatic.com/whitepapers/introduction-to-aws-cloud-economics-final.pdf (https://d1.awsstatic.com/whitepapers/introduction-to-aws-cloud-economics-final.pdf)

---

64. What is the most cost effective AWS Support Plan if you want the full set of Trusted Advisor checks?   👍 👎

A   Basic

B   Developer

C   Business

D   Enterprise

Correct Answer: C

Why is this correct?

The Business Plan is the cheapest plan that will still provide the full set of Trusted Advisor checks. https://aws.amazon.com/premiumsupport/plans/ (https://aws.amazon.com/premiumsupport/plans/)

---

65. You work for a financial company that has several mission-critical workloads. Which AWS Support Plan should you use?   👍 👎

A   Business

B   Basic

C   Enterprise

D   Developer

Correct Answer: C

Why is this correct?

Recommended if you have business and/or mission critical workloads in AWS. https://aws.amazon.com/premiumsupport/plans/ (https://aws.amazon.com/premiumsupport/plans/)