Practice Test 3 Completed on Thu, 29 Nov 2021

00:00	48/65	73.85%	0h 26m 44s	PASS
Attempt	Marks Obtained	Your Score	Time Taken	Result

Domain wise Quiz Performance Report

Join us on Slack community

No.	Domain	Total Question	Correct	Incorrect	Unattempted	Marked for Review
1	Cloud Concepts	15	15	0	0	0
2	Security	10	10	0	0	0
3	Technology	34	15	3	0	0
4	Billing and Pricing	6	1	2	0	0
Total	All Domains	65	41	5	0	0

Review the Answers

Filter By All Questions

Question 1

Correct

Domain: Technology

Which of the following can be attached to EC2 instances to store data?

A. Amazon Glacier

B. Amazon EBS Volumes Right

C. Amazon EBS Snapshots

D. Amazon SQS

Explanation:

Answer - B

The AWS Documentation mentions the following on EBS Volumes:

An Amazon EBS volume is a durable, block-level storage device that you can attach to a single EC2 instance. You can use EBS volumes as primary storage for data that requires frequent updates, such as the system drive for an instance or storage for a database application.

For more information on EBS Volumes, please refer to the below URL:

- https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AMIs.html#ami

Ask our Experts

View Question Did you like this Question?

Question 2

Correct

Domain: Technology

Which of the following networking component can be used to host EC2 resources in the AWS Cloud?

A. AWS Trusted Advisor

B. AWS VPC Right

C. AWS Elastic Load Balancer

D. AWS Autoscaling

Explanation:

Answer - B

The AWS Documentation mentions the following on Amazon VPC:

Amazon Virtual Private Cloud (Amazon VPC) enables you to launch AWS resources into a virtual network that you've defined. This virtual network closely resembles a traditional network that you'd operate in your own data center, with the benefits of using the scalable infrastructure of AWS.

For more information on AWS VPC, please refer to the below URL:

- https://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_Introduction.html

Ask our Experts

View Question Did you like this Question?

Question 3

Incorrect

Domain: Technology

I have a web application that has been deployed to the AWS Mumbai region. My application now becomes popular. Now there are users all over the world who would like to access it. If I use a Cloud Front distribution for my site, which statements are true for the Cloud Front service? (Select TWO.)

A. CloudFront uses the concept of Edge locations for caching and delivering content faster to its users.

B. CloudFront can help improve performance by using Keep-alive connections between the Edge locations & the origin server. Wrong

C. CloudFront does not cache dynamic content. Right

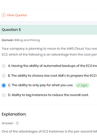
D. CloudFront can use only 10 buckets as their Origin Server from where they can cache content. Right

E. CloudFront can customize content at the Edge locations before delivering it to users. Wrong

Explanation:

Answer C, D

- Option A is incorrect: CloudFront does use the concept of Edge locations for caching content that is requested by the user. When a user in the US requests for content in a web server hosted in the Mumbai region, CloudFront will initially check whether the content is available at the nearest edge location in the US region. If it is available, content will be served directly from the Edge location. If not, CloudFront will request the Origin Server, get the content and cache it at the Edge location for serving future requests.


Mumbai
Region
Edge Location
Edge Location
Edge Location

- Option D is incorrect because it is possible to view billing information for multiple AWS accounts as long as the administrator has lawful jurisdiction over them.

Ask our Experts

View Quizlet | Did you like this Question? | Not

Question 11

Correct

Domain: Cloud Concepts

When designing a system you use the principle of "design for failure and nothing will fail". Which of the following services/features of AWS can assist in supporting this design principle? Choose 3 answers from the options given below.

- A. Availability Zones
- B. Regions
- C. Elastic Load Balancer
- D. Pay as you go

Explanation:

Answer - A, B and C

Each US is a set of one or more data centers. By deploying your AWS resources to multiple Availability zones, you are designing with failure in mind. So if one AZ were to go down, the other AZ's would still be up and running. Hence your application would be more fault tolerant.

For disaster recovery scenarios, you can place your data and or make resources run in other regions.

And finally, you can use the Elastic Load Balancer to distribute traffic across multiple instances within a particular region.

For more information on AWS Regions and AZ's, please refer to the below URL

- https://aws.amazon.com/fr/about-aws/global-infrastructure/regions_az/?nc1=h_ls&refid=pm-ocs-ecs-ecs-ec

- https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-spot-instances.html

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 23

Correct

Domain: Technology

Which service can be used to create steps required to automate build, test and deployments for a web application?

A. AWS CodeDeploy

B. AWS CodePipeline (✓ Right)

C. AWS CodeBuild

D. AWS CodeBuild

Explanation:

Correct Answer - B

AWS CodePipeline is a fully managed service that automates the release pipeline for application updates. For updates, it uses application code stored in AWS CodeCommit, performs testing using AWS CodeBuild, and uses AWS CodeDeploy for deployment.

- **Option A is Incorrect** as AWS CodeCommit is used to store application code.
- **Option C is Incorrect** as AWS CloudFormation is used for deployment of codes to instances.
- **Option D is Incorrect** as AWS CodeBuild is used to test and build application code.

For more information on AWS CodePipeline, refer to the following URL

- https://aws.amazon.com/codepipeline/faqs/

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 24

Correct

Domain: Billing and Pricing

A manufacturing firm has recently migrated their application servers to the Amazon EC2 instances. The IT Manager is looking for the details of upcoming scheduled maintenance activities which AWS would be performing on AWS resources that may impact the services Amazon EC2 instances.

Which of the following services can alert you about the changes that can affect resources in your account?

A. AWS Organizations

B. AWS Personal Health Dashboard (✓ Right)

C. AWS Trusted Advisor

D. AWS Service Health Dashboard

Explanation:

Answer - B

AWS Personal Health Dashboard provides alerts for AWS services availability & performance which may impact resources deployed in your account. Customers get email & mobile notifications for scheduled maintenance activities which might impact services on these AWS resources.

Option A is Incorrect as AWS Organizations is not provide any notifications for scheduled maintenance activities.

Option C is Incorrect as AWS Trusted Advisor will provide notification on AWS resources created within the account for cost optimization, security, fault tolerance, performance, and service limits. It will not provide notification of scheduled maintenance activities performed by AWS on its resources.

Option D is Incorrect as Service Health Dashboard displays the general status of all AWS services. It will not display scheduled maintenance activities.

For more information on the AWS Organizations, please refer to the below URL

- https://aws.amazon.com/personal-health-dashboard/

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 25

Correct

Domain: Security

Which of the following can be used as an additional security layer for the user name and password when logging into the AWS Console?

A. Multi-Factor Authentication (MFA) (✓ Right)

B. Secondary password

C. Root access privileges

D. Secondary user name

Explanation:

Answer - A

The AWS Documentation mentions the following

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.

For more information on the AWS MFA, please refer to the below URL

- https://aws.amazon.com/iam/details/mfa/

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 26

Correct

Domain: Technology

Which AWS Cloud service helps in the quick deployment of resources which can use different programming languages such as .Net and Java?

A. AWS Elastic Beanstalk (✓ Right)

B. AWS Elastic Compute Cloud (Amazon EC2)

C. AWS VPC

D. AWS S3

Explanation:

Answer - A

The AWS Documentation mentions the following

AWS Elastic Beanstalk is an easy to use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

For more information on enabling AWS Elastic beanstalk, please refer to the below URL

- https://docs.aws.amazon.com/elasticbeanstalk/?id=ug

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 27

Correct

Domain: Cloud Concepts

Your company handles a crucial e-Commerce application. The application needs to have an uptime of at least 99.9%. There is a decision to move the application to the AWS Cloud. Which of the following deployment strategies can help build a robust architecture for such an application?

A. Deploying the application across multiple VPC's

B. Deploying the application across multiple Regions (✓ Right)

C. Deploying the application across Edge locations

D. Deploying the application across multiple subnets

Explanation:

Answer - B

The AWS Documentation mentions the following

Businesses are using the AWS cloud to enable faster disaster recovery of their critical IT systems without incurring the infrastructure expense of a second physical site. The AWS cloud supports many popular disaster recovery (DR) architectures from "pilot light" environments that may be suitable for small customer data center failures to "hot standby" environments that enable rapid failover at scale. With data centers in Regions worldwide, AWS provides a set of cloud-based disaster recovery services that enable rapid recovery of your IT infrastructure and data.

For more information on enabling AWS Disaster Recovery, please refer to the below URL

- https://aws.amazon.com/disaster-recovery/

Ask our Experts

View Quiz Question | Did you like this Question? | Incorrect

Question 28

Incorrect

Domain: Billing and Pricing

Your company is moving a large application to AWS using a set of EC2 instances. A key requirement is reusing existing server bound software licensing. Which of the following options is the best for satisfying the requirement?

A. EC2 Dedicated Instances (✗ Wrong)

B. EC2 Reserved Instances

C. EC2 Dedicated Hosts (✓ Right)

D. EC2 Spot Instances

Explanation:

Answer C

- **Option A is INCORRECT** because dedicate instances run on a single tenant hardware. AWS does not give visibility to sockets and cores required for reusing server bound licenses. For more information on dedicated instances, refer the following link
  - https://aws.amazon.com/ec2/dedicated-hosts/
- **Option B is INCORRECT** because Reserved instances are only a purchasing option and there is no way to control the hardware where these instances are running on.
- **Option C is CORRECT** because dedicated hosts are a dedicated hardware where AWS gives visibility of physical characteristics. AWS documentation mentions this with the following statement "Dedicated Hosts give you visibility into the number of physical sockets and cores on the underlying hardware, which can be used to manage licenses for certain server-bound software licenses. As a result, Dedicated Hosts enable you to use your existing server-bound software licenses and address corporate compliance and regulatory requirements."
- **Option D is INCORRECT** because Spot instances are only a purchasing option.

Diagrams none

References:

AWS documentation explains the possibility of reusing server bound license

- https://aws.amazon.com/ec2/dedicated-hosts/

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 29

Correct

Domain: Technology

You are planning on deploying a video-based application onto the AWS Cloud. Users across the world will access these videos. Which of the below services can help efficiently stream the content to the users across the globe?

A. Amazon SES

B. Amazon CloudFront (✓ Right)

C. Amazon CloudFront (✓ Right)

D. Amazon S3

Explanation:

Answer - C

- **Option A is INCORRECT** because Amazon SES (Simple Email Service) is a cloud based email sending service. It is a service that allows for the management of software development versions and software development assets. These include binary files, documents and source code.
- **Option B is INCORRECT** because Amazon CloudFront is a service used to manage software development projects. It is not the appropriate Option for the scenario. Codebase project makes it possible to develop, build and deploy applications.
- **Option C is CORRECT** because it is not the best solution though it can be used in the scenario to write, run and deploy code. It is an integrated development environment (IDE) that can accommodate various runtimes. Since the contents/Page is best suited to meet the requirements of the scenario, this makes the Option incorrect.

Ask our Experts

View Quiz Question | Did you like this Question? | Incorrect

Question 30

Incorrect

Domain: Technology

Using Content Delivery Network (CDN), an administrator would like to serve varying types of content based on the viewer's browser cookies. Which is the most appropriate serverless technique that can be used to achieve this?

A. AWS CodeCommit

B. AWS Lambda@Edge (✓ Right)

C. AWS Cloudfront (✗ Wrong)

D. AWS Cloud9

Explanation:

Correct Answer - B

AWS Lambda@Edge is a serverless service that makes it possible to run event triggered functions on Edge Locations within the AWS Content Delivery Network. Using AWS CloudFront, an administrator can introduce decision making and computer processing closer to the viewer's location. Thereby it improves on their browsing experience.

- https://aws.amazon.com/lambda/edge/

- **Option A is INCORRECT** because AWS CodeCommit is inappropriate in addressing the scenario. It is a service that allows for the management of software development versions and software development assets. These include binary files, documents and source code.
- **Option C is INCORRECT** because AWS Cloudfront is a service used to manage software development projects. It is not the appropriate Option for the scenario. Codebase project makes it possible to develop, build and deploy application.
- **Option D is INCORRECT** because it is not the best solution though it can be used in the scenario to write, run and deploy code. It is an integrated development environment (IDE) that can accommodate various runtimes. Since the contents/Page is best suited to meet the requirements of the scenario, this makes the Option incorrect.

Ask our Experts

View Quiz Question | Did you like this Question? | Incorrect

Question 31

Incorrect

Domain: Cloud Concepts

For the AWS Shared Responsibility Model, which of the following responsibilities is NOT a part of shared controls by both customer and AWS?

A. Patch Management

B. Configuration Management

C. Global infrastructure that runs AWS Cloud services. (✗ Wrong)

D. Training (✗ Wrong)

Explanation:

Correct Answer - C

The global AWS infrastructure including the hardware, software, networking, and facilities is the responsibility of AWS, not the responsibility of the Customer.

- **Option A is Incorrect**. AWS is responsible for patching operations within AWS infrastructure, while customers are responsible for patching guest OS and applications.
- **Option B is Incorrect**. AWS is responsible for configuring resources within AWS infrastructure, while customers are responsible for configuring their guest OS, databases and applications.
- **Option D is Incorrect**. AWS trains for AWS employees while the customer is responsible for training employees within their organizations.

For more information on the Shared responsibility model, refer to the following URL

- https://aws.amazon.com/compliance/shared-responsibility-model/

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 32

Correct

Domain: Billing and Pricing

There is a requirement to host EC2 instances in the AWS Cloud, wherein the utilization is for a duration of more than 3 years. Which of the following would you utilize to minimize the costs?

A. Reserved Instances (✓ Right)

B. On-demand instances

C. Spot instances

D. Regular instances

Explanation:

Answer - A

When you have instances that will be used continuously and throughout the year, the best option is to buy reserved instances. By buying reserved instances, you are actually allocated an instance for the entire year or the duration you specify with a reduced cost.

For more information on Reserved instances, please visit the link.

- https://aws.amazon.com/ec2/pricing/reserved-instances/

Ask our Experts

View Quiz Question | Did you like this Question? | Incorrect

Question 33

Incorrect

Domain: Cloud Concepts

An administrator would like to check if the Amazon Cloudfront identity is making access API calls to an S3 bucket where a static website is hosted. Where can this information be obtained?

A. Configuring Amazon Athena to run queries on the Amazon Cloudfront distribution

B. Check AWS Cloudtrail logs on the S3 bucket (✗ Wrong)

C. In the webserver, tail for identity access logs from the Amazon Cloudfront identity

D. In AWS Cloudfront Event history, look up access calls and filter for the Amazon Cloudfront identity (✓ Right)

Explanation:

Correct Answer - D

By viewing Event history in Amazon CloudTrail, the administrator can be able to access operational, access and activity logs for the past 90 days. In the S3 bucket that hosts the static website.

- https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/cloudfront-event-monitoring.html

- **Option A is INCORRECT** because Amazon Athena will need a specific data repository from which a database and table can be created in order to run queries. Data repositories can be a bucket in S3 but where logs are written to.
- **Option B is INCORRECT** because AWS Cloudtrail does not log access API calls from any resource to another. AWS Cloudtrail can do this.
- **Option C is INCORRECT** because it is not possible to access the underlying web server for Cloudfront. It is fully managed by AWS.

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 34

Correct

Domain: Security

Which of the following AWS services can be used to retrieve configuration changes made to AWS resources causing operational issues?

A. Amazon Inspector

B. AWS CloudFormation

C. AWS Trusted Advisor

D. AWS Config (✓ Right)

Explanation:

Correct Answer - D

AWS Config can be used to audit, evaluate configurations of AWS resources. If there are any operational issues, AWS config can be used to retrieve configurational changes made to AWS resources that may have caused these issues.

- **Option A is Incorrect** as Amazon Inspector can be used to analyze potential security threats for an Amazon EC2 instance against an assessment template with predefined rules. It does not provide historical data for configurational changes done to AWS resources.
- **Option B is Incorrect** as AWS Cloudformation provided templates to provision and configure resources in AWS.
- **Option C is Incorrect** as AWS Trusted Advisor can help optimize resources with AWS cloud with respect to cost, security, performance, fault tolerance, and service limits. It does not provide historical data for configurational changes done to AWS resources.

For more information on AWS Config, refer to the following URL

- https://docs.aws.amazon.com/config/latest/developerguide/WhatIsConfig.html

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 35

Correct

Domain: Technology

A company is deploying a keen for highly available web application to AWS. The application needs a storage layer to store artifacts such as photos and videos. Which of the following services can be used for the underlying storage mechanism?

A. Amazon EBS volume

B. Amazon S3 (✓ Right)

C. Amazon EC2 instance store

D. Amazon RDS instance

Explanation:

Answer - B

Amazon S3 is the default storage service that should be considered for companies. It provides durable storage for all static content.

For more information on AWS S3, please visit the link

- https://aws.amazon.com/s3/

Ask our Experts

View Quiz Question | Did you like this Question? | Correct

Question 30

Incorrect

Domain: Security

An organization runs several EC2 instances inside a VPC using three subnets, one for Development, one for Test and one for Production. The Security team has some concerns about the VPC configuration and it requires to restrict the same information across the EC2 instances using Security Groups.

Which of the following options is true for Security Groups?

- A. You can change a Security Group associated to an instance if the instance state is stopped or running. ✗ Wrong
- B. You can change a Security Group associated to an instance if the instance state is stopped but not if the instance state is running. ✗ Wrong
- C. You can change a Security Group only if they are no instances associated to it.
- D. The only Security Group you can change is the Default Security Group.
- E. None of the above

Explanation:

Answer: B

- **Option A is CORRECT** because the AWS documentation mentions it in the section called "Changing an instance's Security Group" using the following sentence: "After you launch an instance into a VPC, you can change the security groups that are associated with the instance. You can change the security groups for an instance when the instance is in the running or stopped state."
- **Option B, C, D are not INCORRECT** as a consequence of A.

Diagrams: none

References:

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 37

Correct

Domain: Technology

Which of the below-mentioned services is equivalent to hosting virtual servers on an on-premises location?

- A. AWS IAM
- B. AWS Lambda
- C. AWS EC2 ✓ Right
- D. AWS Regions

Explanation:

Answer - C

The AWS Documentation mentions the following:

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud. It is designed to make web-scale cloud computing easier for developers.

For more information on AWS EC2, please refer to the following link:

- https://aws.amazon.com/ec2/

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 38

Correct

Domain: Security

You have a set of EC2 instances hosted on the AWS Cloud. The EC2 instances are hosting a web application. Which of the following acts as a firewall to your VPC and the instances in VPC? Choose 2 answers from the options given below.

- A. Usage of Security Groups ✓ Right
- B. Usage of AWS Config
- C. Usage of Network Access Control Lists ✓ Right
- D. Usage of the Internet gateway

Explanation:

Answer - A and C

The AWS Documentation mentions the following:

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic.

A network access control list (ACL) is an optional layer of security for your VPC that acts as a firewall for controlling traffic in and out of one or more subnets.

For more information on Security Groups, please refer to the following link:

- https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html

For more information on Network Access Control Lists, please refer to the following link:

- https://docs.aws.amazon.com/vpc/latest/userguide/vpc-acls.html

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 39

Incorrect

Domain: Technology

Which of the following can be used to launch EC2 instances on the AWS Cloud?

- A. DB Volumes
- B. DB Snapshots ✗ Wrong
- C. Amazon Machine Image ✓ Right
- D. Amazon VMware

Explanation:

Answer - C

The AWS Documentation mentions the following:

An Amazon Machine Image (AMI) provides the information required to launch an instance, which is a virtual server in the cloud. You specify an AMI when you launch an instance and you can launch as many instances from the AMI as you need. You can also launch instances from as many different AMIs as you need.

For more information on Amazon Machine Images, please refer to the following link

- https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ami.html

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 40

Incorrect

Domain: Technology

Which of the below options cannot be used to upload archives to Amazon Glacier?

- A. AWS Glacier API
- B. AWS Console ✓ Right
- C. AWS Glacier SDK
- D. AWS S3 Lifecycle policies ✗ Wrong

Explanation:

Answer - B

Note that the AWS Console cannot be used to upload data into Glacier. The console can only be used to create a Glacier vault which can be used to upload the data.

- For more information on uploading data into Glacier, please refer to the following link
  - https://docs.aws.amazon.com/amazonglacier/latest/dev/uploading-an-archive.html
- **Option A - AWS Glacier API:**
  AWS Glacier is a storage service optimized for infrequently used data or "cold data." This option is used for programmatically access Glacier and work with it. Due to this reason, AWS Glacier API can be used.
  - https://docs.aws.amazon.com/amazonglacier/latest/dev/api-aws-glacier-update.html
- **Option C - AWS Glacier SDK:** SDK, i.e. Software Development Kit, is used to develop applications for Amazon S3 Glacier. It provides libraries that map to the underlying REST API and provide objects that you can use to construct requests and process responses. Due to this reason, it's not a valid answer for the asked question.
  - https://docs.aws.amazon.com/amazonglacier/latest/dev/sdk-java-sdk.html
- **Option D - AWS S3 Lifecycle Policies:** AWS Lifecycle Policies allow you to automatically move objects within your S3 Buckets and have them moved to Glacier or have the objects deleted from S3.
  - https://docs.aws.amazon.com/AmazonS3/latest/user-guide/create-lifecycle.html
  - https://docs.aws.amazon.com/glacier/faq/

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 41

Correct

Domain: Billing and Pricing

Your company is planning to pay for an AWS Support plan. They have the following requirements as far as the support plan goes:

- 24/7 access to Cloud Support Engineers via email, chat & phone
- Response time of less than 15 minutes for any business-critical system faults

Which of the following plans will suffice to keep in mind the above requirements?

- A. Basic
- B. Developer
- C. Business
- D. Enterprise ✓ Right

Explanation:

Answer - D

As per the AWS document, there is no critical support available for Basic, Developer and Business plans.

Enterprise plan has critical support within 15 minutes. The question mentions less than 15 minutes for critical faults, hence the correct answer is Enterprise.

For more information on the support plans, please refer to the following link

- https://docs.aws.amazon.com/awssupport/latest/user/aws-support-plans/

Support Plans | AWS Performance | Support | Customers | Partners | Compliance | Blogs | More | English | My Account

	Basic	Developer	Business	Enterprise
Customer Service & Communities	24/7 access to customer service, documentation, whitepapers, and support forums	24/7 access to customer service, documentation, whitepapers, and support forums	24/7 access to customer service, documentation, whitepapers, and support forums	24/7 access to customer service, documentation, whitepapers, and support forums
Trusted Advisor	Access to 6 core Trusted Advisor checks	Access to 6 core Trusted Advisor checks	Access to full set of Trusted Advisor checks	Access to full set of Trusted Advisor checks
AWS Health API (programmatic access)	Access to Personal Health Dashboard	Access to Personal Health Dashboard	Access to Personal Health Dashboard, programmatic access via Support API	Access to Personal Health Dashboard, programmatic access via Support API
Technical Support	Business hours* access via email, chat, and phone	24/7 access via email, chat, and phone for one contact	24/7 access via email, chat, and phone for unlimited contacts	24/7 access via email, chat, and phone for unlimited contacts
When You Need Help	Only primary contact (AWS account owner)	1 primary contact (AWS account owner)	Unlimited contacts (AWS account owners)	Unlimited contacts (AWS account owners)
Case Severity/ Response Times	General guidance: Business day*	General guidance: Business day*	General guidance: 24/7	General guidance: 24/7
	System impairment: Business day*	System impairment: 12 business hours*	System impairment: 24/7	System impairment: 24/7
		Production system impairment: 12 hours*	Production system impairment: 4 hours*	Production system impairment: 1 hour*
			Production system down: 4 hours*	Production system down: 1 hour*
				Business critical functionality impaired: 15 minutes*
Architectural Guidance	General guidance	General guidance	Contextual guidance based on your use case	Consultative review and architectural guidance
Tools			1 Windows or Linux host or application	1 Windows or Linux host or application

https://aws.amazon.com/premiumsupport/compare-plans/

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 42

Correct

Domain: Technology

Which of the following are features of an edge location? Choose 3 answers from the options given below.

- A. It distributes content to users ✓ Right
- B. It lets popular contents ✗ Wrong
- C. Distributes load across multiple resources
- D. Used in conjunction with the CloudFront service ✓ Right

Explanation:

Answer - A, B and D

The AWS Documentation mentions the following:

Amazon CloudFront employs a global network of edge locations and regional edge caches that cache copies of your content close to your viewers. Amazon CloudFront ensures that end-user requests are served by the closest edge location.

Regional edge caches are CloudFront locations that are deployed globally, close to your viewers. They're located between your origin server and the POPs - global edge locations that serve content directly to viewers. As objects become less popular, individual POPs might remove those objects to make room for more popular content.

For more information on CloudFront and Edge locations, please refer to the following link

- https://aws.amazon.com/cloudfront/faqs/#cloudfront.net/.faqs/.faq.edge.locations.html

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 43

Correct

Domain: Technology

Which of the following storage options provides the option of Lifecycle policies that can be used to move objects to archive storage.

- A. Amazon S3 ✓ Right
- B. Amazon Glacier
- C. Amazon Storage Gateway
- D. Amazon EBS

Explanation:

Answer - A

The AWS Documentation mentions the following:

Lifecycle configuration enables you to specify the lifecycle management of objects in a bucket. The configuration is a set of one or more rules, where each rule defines an action for Amazon S3 to apply to a group of objects. These actions can be classified as follows:

Transition actions - In which you define when objects transition to another storage class. For example, you may choose to transition objects to the STANDARD_IA (IA, for infrequent access) storage class 30 days after creation, or archive objects to the GLACIER storage class one year after creation.

Expiration actions - In which you specify when the objects expire. Then Amazon S3 deletes the expired objects on your behalf.

For more information on AWS Object Lifecycle management, please visit the Link

- https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-ug-vpc-nat-gateway.html

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 44

Incorrect

Domain: Technology

Which of the following features of Amazon RDS allows for better availability of database? Choose the answer from the options given below.

- A. VPC Peering
- B. Multi-AZ ✓ Right
- C. Read Replicas ✗ Wrong
- D. Data encryption

Explanation:

Answer - B

The AWS Documentation mentions the following:

If you are looking to use replication to increase database availability while protecting your latest database updates against unplanned outages, consider running your DB instance as a Multi-AZ deployment.

For more information on AWS RDS, please visit the FAQ link

- https://aws.amazon.com/rds/faqs/

Ask our Experts

View Quotes — Did you like this Question? — Report

Question 45

Correct

Domain: Cloud Concepts

A client who has adopted AWS Cloud would like to ensure that his systems need to deliver continuous business value & improve supporting processes and procedures. Which design pillar will he need to focus for achieving this?

- A. Reliability
- B. Availability
- C. Automation
- D. Operational Excellence ✓ Right

Explanation:

Correct Answer: D

Continuous business value is achieved with the ability to monitor existing running systems & improving processes and procedures by managing & automating changes, for eg in response to a saturation in CPU usage of an EC2 instance, a monitoring system like Cloudwatch will automatically trigger a creation of a new instance though alarms. This will ensure that the system's capacity meets changing load demands. This is a part of the Operational Excellence pillar of the AWS well-architected framework which focuses on running & monitoring systems to deliver business value.

- **Option A is incorrect** since the Reliability pillar focuses on the ability of the system to recover from infrastructure or service failures
- **Option B is incorrect** since availability is a key product of monitoring solutions which provide the capability for infrastructure resources to cope with increase or decrease of capacity by adding or terminating resources when not needed.
- **Option C is incorrect** since automation is the ability to make certain systems requirements like scalability, disc recovery using monitoring solutions. It helps in improving system's reliability, availability or performance
- **Option D is CORRECT:** Refer to the above description for details

Diagrams

Amazon Route 53
Amazon Cloudfront
Edge Locations
Amazon Cloudwatch
Amazon Cloudfront
Amazon Cloudwatch
Amazon Cloudwatch
Amazon Cloudwatch

A. AWS Kinesis Data Streams

B. AWS CloudTrail - Optional

C. AWS CloudWatch Logs - Optional

D. AWS Application Logs

Explanation:

Answer: C

- **Option A is INCORRECT** because in order to feed a Data Streams from custom logs you have to change the application code. AWS documentation describes this with the following sentence: "To put data into the stream, you must specify the name of the stream, a partition key, and the data blob to be added to the stream."
- **Option B is INCORRECT** because it is not related to the scenario and costs extra log files.
- **Option C is CORRECT** because AWS CloudWatch Logs has the capability to reuse existing application logs increasing efficiency in operation with the ability to generate on them metrics, alerts and analytics with AWS CloudWatch Logs insight.

The application and custom log files are exactly as they were when the application was running on-prem. So you don't need to change any piece of application code that makes them regardless to AWS CloudWatch Logs.

AWS official documentation in the FAQ section highlights the reusing capability with the sentence: "AWS CloudWatch Logs lets you monitor and troubleshoot your systems and applications using your existing system, application and custom log files., so, no code changes are required."

You can also leverage CloudWatch Metrics, Alarms and Dashboards with Logs to get full operational visibility into your applications. This empowers you to understand your applications, make improvements, and troubleshoot problems quickly. Thus you can continue to innovate rapidly.

- **Option D is INCORRECT** because AWS Application Logs does not exist.

Diagram: None

References:

- https://aws.amazon.com/cloudwatch/faqs/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 48 Correct

Domain: Technology

Your company wants to move an existing Oracle database to the AWS Cloud. Which of the following services can help facilitate this move?

- **A.** AWS Database Migration Service - Correct
- **B.** AWS SM Migration Service
- **C.** AWS Inspector
- **D.** AWS Trusted Advisor

Explanation:

Answer: A

The AWS Documentation mentions the following:

AWS Database Migration Service helps you migrate databases to AWS quickly and securely. The source database remains fully operational during the migration, minimizing downtime to applications that rely on the database. The AWS Database Migration Service can migrate your data to and from most widely used commercial and open-source databases.

For more information on AWS Database Migration, please refer to the below URL:

- https://aws.amazon.com/dms/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 49 Correct

Domain: Cloud Concepts

Which of the following features of AWS RDS allow you to reduce the load on the database while reading data?

- **A.** Cross region replication
- **B.** Creating Read Replicas - Correct
- **C.** Using snapshots
- **D.** Using Multi-AZ feature

Explanation:

Answer: B

The AWS Documentation mentions the following:

You can reduce the load on your source DB instance by routing read queries from your applications to the read replica. Read replicas allow you to elastically scale out beyond the capacity constraints of a single DB instance for read-heavy database workloads.

For more information on Read Replicas, please refer to the below URL:

- https://aws.amazon.com/rds/details/read-replica/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 50 Correct

Domain: Cloud Concepts

Which of the following terms refers to a physical location around the world where data centers are located in AWS?

- **A.** Sub zone
- **B.** Edge center
- **C.** Region - Correct
- **D.** Edge location

Explanation:

Answer: C

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.

For more information on Regions and Availability Zones in AWS, please refer to the below URL:

- https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 51 Correct

Domain: Cloud Concepts

A company wants to have a database hosted on AWS. As much as possible they want to have control over the database itself. Which of the following would be an ideal option for this?

- **A.** Using the AWS DynamoDB service
- **B.** Using the AWS RDS service
- **C.** Creating the database on an EC2 instance - Correct
- **D.** Using the Amazon Aurora service

Explanation:

Answer: C

If you want a self managed database, that means you want complete control over the database engine and the underlying infrastructure. In such a case you need to host the database on an EC2 instance.

For more information on EC2 instances, please refer to the below URL:

- https://aws.amazon.com/ec2/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 52 Correct

Domain: Security

On which of the following resources does Amazon Inspector perform network accessibility checks?

- **A.** Amazon CloudFront
- **B.** Amazon VPN
- **C.** Amazon EC2 instance - Correct
- **D.** Amazon VPC

Explanation:

Correct Answer – C

Amazon Inspector provides two types of packages. Network reachability rules package checks network accessibility checks on Amazon EC2 instances. Host assessment rules package checks vulnerabilities on Amazon EC2 instances.

- **Options A, B, D are incorrect** as Amazon Inspector performs network accessibility checks on Amazon EC2 instances, not on Amazon CloudFront, Amazon VPN or Amazon VPC.

For more information on Amazon Inspector, refer to the following URL:

- https://aws.amazon.com/inspector/faqs/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 53 Correct

Domain: Cloud Concepts

Which of the following services helps to achieve the computing elasticity in AWS?

- **A.** AWS RDS
- **B.** VPC Endpoint
- **C.** AWS EC2 Auto Scaling Group - Correct
- **D.** Amazon S3

Explanation:

Answer: C

AWS EC2 Auto Scaling Group achieves the computing elasticity by scaling up/down the EC2 instances based on demand.

For more information on the AWS Autoscaling service, please refer to the below URL:

- https://aws.amazon.com/autoscaling/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 54 Correct

Domain: Cloud Concepts

To receive AWS Trusted Advisor Notifications, what actions are required from the customer and?

- **A.** Opt-in to Basic with AWS Support.
- **B.** Set up Notification in Dashboard - Correct
- **C.** Set up Amazon Simple Notification Service
- **D.** No action is required, all Notifications are sent automatically on a weekly basis.

Explanation:

Correct Answer – B

AWS Trusted Advisor Notification is an optional service that needs to be set up from the dashboard providing a list of recipients and selecting resource items for which status is changed.

- **Option A is incorrect** as opening an AWS support ticket is not required to receive AWS Trusted Advisor Notification.
- **Option C is incorrect** as AWS is a separate services for push notifications. But it is not required to receive AWS Trusted Advisor Notification.
- **Option D is incorrect** as no need to set up the notifications in the dashboard.

For more information on AWS Trusted Advisor, refer to the following URL:

- https://docs.aws.amazon.com/awssupport/latest/user/trusted-advisor.html

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 55 Correct

Domain: Cloud Concepts

Why is Amazon DynamoDB a best fit for implementation in mobile, Internet of Things (IoT) and gaming applications?

- **A.** DynamoDB is a fully managed database instance with no infrastructure overheads.
- **B.** DynamoDB has a flexible data model and single-digit millisecond latency - Correct
- **C.** Which is operates, DynamoDB instances on spread across at least three geographically distinct centers, AWS Regions.
- **D.** DynamoDB supports overhead and strongly consistent reads.

Explanation:

Correct Answer – B

The use cases mentioned in the scenario have unpublished data in common. Therefore, the most appropriate attributes of Amazon DynamoDB is its flexible data model and single-digit millisecond latency.

https://aws.amazon.com/blogs/database/how-to-determine-if-amazon-dynamodb-is-appropriate-for-your-needs-and-then-plan-your-migration/

- **Option A is INCORRECT** because being fully managed and having no infrastructure overheads do not distinguish DynamoDB as the best-suited solution for the given use cases.
- **Option C is INCORRECT** because the aspect of fault tolerance, disaster recovery and high availability is also present in Amazon Relational Database (RDS). This feature does not distinguish the suitability of DynamoDB in the specified use cases.
- **Option D is INCORRECT** because this attributes of DynamoDB does not fully justify its exclusive choice over other instances when considered for implementation in the use cases mentioned in the question.

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 56 Incorrect

Domain: Billing and Pricing

A client who is using AWS cloud services has multiple environments for the EC2 servers like DEV, QA, PROD respectively. The client would like to know billing details for each of these environments to make informed decisions related to saving costs. Using which of the following options the requirements can be achieved?

- **A.** Consolidated Billing
- **B.** AWS Budgets - Correct
- **C.** AWS Cost allocation tags - Correct
- **D.** AWS Organizations

Explanation:

Correct Answer: C

Cost allocation tags appear as additional columns in detailed billing reports. As an example, let's say an AWS Region has 50 EC2 instances running out of which 15 are DEV, 10 are QA & the remaining are PROD. While launching these instances, one can apply a tag named 'env' providing value of DEV for 15 instances, QA for 10 instances and PROD for 25 instances. These tags then appear in a detailed billing report as columns which can be filtered based on the environment and the cost of a set of environment servers calculated easily.

- **Option A is incorrect** since consolidated billing is a feature that applies to accounts where a client has multiple accounts and would like to receive one bill for all the accounts.
- **Option B is incorrect** since AWS budgets are used for setting custom budgets (budgeting costs to track costs and usage of resources & get alerted when actual or forecasted cost and usage exceeds the limits set for that budget).
- **Option C is CORRECT**: Refer above description for the same.
- **Option D is incorrect**, AWS Organizations allows you to consolidate multiple AWS accounts into an Organization that can be centrally managed for billing. They can have Service Control Policies applied at the organization level that can control access and set up the IAM individual accounts

Reference:

- https://docs.aws.amazon.com/awsaccountbilling/latest/about-aws-billing.html

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 57 Incorrect

Domain: Cloud Concepts

Which of the following does AWS perform on its behalf for DB volumes to make it less prone to failure?

- **A.** Replication of the volume across Availability Zones - Correct
- **B.** Replication of the volume in the same Availability Zone - Correct
- **C.** Replication of the volume across Regions
- **D.** Replication of the volume across Edge locations

Explanation:

Answer – B

When you create an DB volume in an Availability Zone, it is automatically replicated within that zone to prevent data loss due to the failure of any single hardware component.

For more information on DB Volumes, please refer to the below URL:

- https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSVolumes.html

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 58 Incorrect

Domain: Technology

You are requested to expose your serverless application implemented with AWS Lambda to HTTP clients, (using HTTP Proxy)

Which of the following AWS services can you use to accomplish the task? (Select TWO)

- **A.** AWS Elastic Load Balancing (ELB) - Correct
- **B.** AWS Route53
- **C.** AWS API Gateway - Correct
- **D.** AWS Cognito - Correct
- **E.** AWS Elastic Beanstalk

Explanation:

Answer: A and C

- **Option A is CORRECT** because AWS documentation mentions that "Application Load Balancers now support invoking Lambda functions to serve HTTP(S) requests." This enables clients to access serverless applications from any HTTP client, including web browsers.
- **Option B is INCORRECT** because Route53 is a Domain Name System and not an HTTP proxy.
- **Option C is CORRECT** because API Gateway + Lambda is a common pattern for exposing serverless functions as HTTP/HTTPS. AWS documentation mentions that "Creating, deploying, and managing a RESTful application programming interface (API) to expose backend HTTP endpoints, AWS Lambda functions, or other AWS services.
- **Option D is INCORRECT** because AWS Lightsail has a completely different goal. It is a service to speed up the provisioning of AWS resources.
- **Option E is INCORRECT** because AWS Elastic Beanstalk has a completely different goal. It is a service that makes it easier for developers to deploy and manage applications in the AWS Cloud quickly. Developers simply upload their applications. then Elastic Beanstalk automatically handles the deployment details of capacity provisioning, load balancing, auto scaling, and application health monitoring.

Diagram: None

References:

ELB

- https://docs.aws.amazon.com/elasticloadbalancing/latest/application/lambda-functions.html

API Gateway

- https://aws.amazon.com/api-gateway/faqs/

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 59 Incorrect

Domain: Security

You have an EC2 instance in development that interacts with the Simple Storage Service. The EC2 instance is going to be promoted to the production environment. Which of the following features should be used to grant the EC2 instance suitable permissions to access the Simple Storage Service?

- **A.** IAM Users
- **B.** IAM Roles - Correct
- **C.** IAM Groups
- **D.** IAM Policies - Correct

Explanation:

Answer: D

The AWS Documentation mentions the following:

IAM policies are used to manage access in AWS by attaching them to IAM identities (users, groups of users, or roles) or AWS resources. A policy is an object in AWS that, when associated with an identity or resource, defines their permissions. AWS evaluates these policies when an IAM principal (user or role) makes a request.

An IAM role is an IAM identity that you can create in your account that has specific permissions. An IAM role is similar to an IAM user, in that it is an AWS identity with permission policies that determine what the identity can and cannot do in AWS.

An IAM user group is a collection of IAM users.

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

An IAM user with administrator permissions but not the same thing as the AWS account root user.

For more information on IAM Roles, please refer to the below URL:

- https://docs.aws.amazon.com/IAM/latest/UserGuide/id_groups.html
- https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles.html
- https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

Question 60 Correct

Domain: Cloud Concepts

A live online game uses Symmetrical Multiprocessors in the backend to store real time scores of the participants as they compete against each other from various parts of the world. Which data consistency option is the most appropriate to implement?

- **A.** Eventual consistency - Correct
- **B.** Strong consistency
- **C.** Weak consistency
- **D.** Read after write consistency

Explanation:

Answer: A

The AWS Documentation mentions the following:

Amazon DynamoDB stores three geographically distinct copies of each item. Eventually consistent read operations (the default) will deliver the item's latest value when all copies of the item have converged. Eventually consistent read operations are ideal for applications that can tolerate occasional stale data. For example, a game application that displays a leaderboard of the top 10 scores for a game. Eventually consistent read operations are ideal for this type of application because it can tolerate the occasional stale data that may be returned when a new high score is achieved.

- **Option B is incorrect** because Strong consistency is not the most appropriate option for the given use cases.
- **Option C is incorrect** because the aspect of fault tolerance, disaster recovery and high availability is also present in Amazon Relational Database (RDS). This feature does not distinguish the suitability of DynamoDB in the specified use cases.
- **Option D is incorrect** because this attributes of DynamoDB does not fully justify its exclusive choice over other instances when considered for implementation in the use cases mentioned in the question.

Ask our Experts

View Quiz Notes | Did you like this Question? | Not sure

A. Strongly consistent right

B. Eventually consistent

C. Strong Eventual consistency

D. Optimistic consistency

Explanation:

Correct Answer – A

Since the gamers are from geographically distinct locations, the data will need to be immediately readable within a second as soon as it is written. Therefore strongly consistency is needed.

https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/HowItWorks.ReadConsistency.html

- **Option B is INCORRECT** because the scenarios outline that the participants of the game are live. It will not suffice if any of them get updates on scores in less than real-time.
- **Option C is INCORRECT** because strong eventual consistency is not applicable in DynamoDB.
- **Option D is INCORRECT** because only two data consistency models are available with the DynamoDB service. Optimistic consistency is not supported.

Ask our Experts

View Queries

Did you like this **Question?**

Question 61

Correct

Domain: Security

Your company is planning to host a large e-commerce application on the AWS Cloud. One of their major concerns is Internet attacks such as DDoS attacks. Which of the following services can help mitigate this concern? Choose 2 answers from the options given below.

- [x] A. Cloudfront right
- [x] B. AWS Shield right
- [ ] C. AWS EC2
- [ ] D. AWS Config

Explanation:

Answer – A and B

The AWS Documentation mentions the following on DDoS attacks.

AWS Services for DDoS Attack Mitigation

AWS offers globally distributed, high network bandwidth and resilient services that, when used in conjunction with application-specific strategies, are key to mitigating DDoS attacks. For more information on how to leverage each of these services and details on how their various features help protect against DDoS attacks, see the whitepaper AWS Best Practices for DDoS Resiliency.

AWS Shield

AWS Shield is a managed DDoS protection service that is available in two tiers: Standard and Advanced. AWS Shield Standard applies always-on detection and inline mitigation techniques, such as deterministic packet filtering and priority-based traffic shaping, to minimize application downtime and latency. AWS Shield Standard is included automatically and transparently to your Elastic Load Balancing load balancers, Amazon CloudFront distributions, and Amazon Route 53 resources at no additional cost. When you use these services that include AWS Shield Standard, you receive comprehensive availability protection against all known infrastructure layer attacks. Customers who have the technical expertise to manage their own monitoring and mitigation of application layer attacks can use AWS Shield together with AWS WAF rules to create a comprehensive DDoS attack mitigation strategy.

AWS Shield Advanced provides enhanced DDoS attack detection and monitoring for application-layer traffic to your Elastic Load Balancing load balancers, CloudFront distributions, Amazon Route 53 hosted zones and resources attached to an Elastic IP address, such Amazon EC2 instances. AWS Shield Advanced uses additional techniques to provide granular detection of DDoS attacks, such as resource-specific traffic monitoring to detect HTTP floods or DNS query floods. AWS Shield Advanced includes 24x7 access to the AWS DDoS Response Team (DRT), support experts who apply manual mitigations for more complex and sophisticated DDoS attacks, directly create or update AWS WAF rules, and can recommend improvements to your AWS architectures. AWS WAF is included at no additional cost for resources that you protect with AWS Shield Advanced.

AWS Shield Advanced includes access to near real-time metrics and reports, for extensive visibility into infrastructure layer and application layer DDoS attacks. You can combine AWS Shield Advanced metrics with additional, fine-tuned AWS WAF metrics for a more comprehensive CloudWatch monitoring and alarming strategy. Customers subscribed to AWS Shield Advanced can also apply for a credit for charges that result from scaling during a DDoS attack on protected Amazon EC2, Amazon CloudFront, Elastic Load Balancing, or Amazon Route 53 resources. See the AWS Shield Developer Guide for a detailed comparison of the two AWS Shield offerings.

AWS WAF

AWS WAF is a web application firewall that helps protect web applications from common web exploits that could affect application availability, compromise security, or consume excessive resources. You can use AWS WAF to define customizable web security rules that control which traffic accesses your web applications. If you use AWS Shield Advanced, you can use AWS WAF at no extra cost for those protected resources and can engage the DRT to create WAF rules.

AWS WAF rules use conditions to target specific requests and trigger an action, allowing you to identify and block common DDoS request patterns and effectively mitigate a DDoS attack. These include size constraint conditions to block a web request based on the length of its query string or request body, and geographic match conditions to implement geo restriction (also known as *geoblocking*) on requests that originate from specific countries. For a complete list of conditions, see the AWS WAF Developer Guide. With AWS WAF, you can also create rate-based rules that automatically block requests from a single IP address if they exceed a customer-defined rate limit. One benefit of rate-based rules is that you can block requests from an IP address while it exceeds the threshold, and then automatically allow requests from that same client once they drop to an acceptable rate. This helps ensure that regular viewers are not held in a persistent block list. You can also combine the rate limit with conditions to trigger different actions for distinct scenarios.

Amazon Route 53

One of the most common targets of DDoS attacks is the Domain Name System (DNS). Amazon Route 53 is a highly available and scalable DNS service designed to route end users to infrastructure running inside or outside of AWS. Route 53 makes it possible to manage traffic globally through a variety of routing types, and provides out-of-the-box shuffle sharding and Anycast routing capabilities to protect domain names from DNS-based DDoS attacks.

Amazon CloudFront

Amazon CloudFront distributes traffic across multiple edge locations and filters requests to ensure that only valid HTTP(S) requests will be forwarded to backend hosts. CloudFront also supports geoblocking, which you can use to prevent requests from particular geographic locations from being served.

Elastic Load Balancing

Elastic Load Balancing automatically distributes incoming application traffic across multiple targets, such as Amazon Elastic Compute Cloud (Amazon EC2) instances, containers, and IP addresses, and multiple Availability Zones, which minimizes the risk of overloading a single resource. Elastic Load Balancing, like CloudFront, only supports valid TCP requests, so DDoS attacks such as UDP and SYN floods are not able to reach EC2 instances. It also offers a single point of management and can serve as a line of defense between the internet and your backend, private EC2 instances. Elastic Load Balancing includes the Application Load Balancer, which is best suited for load balancing of HTTP and HTTPS traffic and also directly supports AWS WAF.

VPCs and Security Groups

Amazon Virtual Private Cloud (Amazon VPC) allows customers to configure subnet routes, public IP addresses, security groups, and network access control lists in order to minimize application attack surfaces. You can configure load balancers and EC2 instance security groups to allow traffic that originates from specific IP addresses only, such as that from CloudFront or AWS WAF, protecting backend application components from a direct attack.

For more information on DDoS attack prevention, please refer to the below URL:

- https://aws.amazon.com/answers/networking/aws-ddos-attack-mitigation/

Ask our Experts