review

Simple Storage Service (S3)
V2.01

Course title

BackSpace Academy
AWS Certified Associate

Question

Which action below should be taken to store critical business data in Amazon S3 with a backup to another AWS Region?

Answers

    A. Use an Amazon CloudFront Content Delivery Network (CDN) to cache data globally
    B. Set up Amazon S3 cross-region replication to another AWS Region
    C. Configure the AWS Backup service to back up to the data to another AWS Region
    D. Take Amazon S3 bucket snapshots and copy that data to another AWS Region

B

S3 Replication enables automatic, asynchronous copying of objects across Amazon S3 buckets. Buckets that are configured for object replication can be owned by the same AWS account or by different accounts.

https://aws.amazon.com/cn/backup-restore/use-cases/

Question

What does the Amazon S3 Intelligent-Tiering storage class offer?

Answers

    A. Payment flexibility by reserving storage capacity
    B. Long-term retention of data by copying the data to an encrypted Amazon Elastic Block Store (AmazonEBS) volume
    C. Automatic cost savings by moving objects between tiers based on access pattern changes
    D. Secure, durable, and lowest cost storage for data archival

C

S3 Intelligent-Tiering is a new Amazon S3 storage class designed for customers who want to optimize storage costs automatically when data access patterns change, without performance impact or operational overhead.

https://aws.amazon.com/about-aws/whats-new/2018/11/s3-intelligent-tiering/

Question

How should an Amazon EC2 instance be given access to an Amazon S3 bucket?

Answers

- A. Hard code an IAM user's secret key and access key directly in the application and upload the file.
- B. Store the IAM user's secret key and access key in a text file on the EC2 instance, read the keys, then
- A. upload the file.
- B. Have the EC2 instance assume a role to obtain the privileges to upload the file.
- C. Modify the S3 bucket policy so that any service can upload to it at any time.

C

Create an AWS Identity and Access Management (IAM) profile role that grants access to Amazon S3.

https://aws.amazon.com/premiumsupport/knowledge-center/ec2-instance-access-s3-bucket/

Question

A call center company needs to store recordings of calls made to its contact center for 5 years. The recordings must be accessible within 48 hours from the time they are requested. Which service below will provide a secure and cost-effective solution for retaining these files?

Answers

    A.   Amazon DynamoDB
    B.   Amazon S3 Glacier
    C.   Amazon Connect
    D.   Amazon ElastiCache

C

Amazon S3 Glacier is an extremely low-cost storage service that provides secure, durable, and flexible storage for data backup and archival. With Amazon S3 Glacier, customers can reliably store their data for as little as $0.004 per gigabyte per month. Amazon S3 Glacier enables customers to offload the administrative burdens of operating and scaling storage to AWS, so that they don't have to worry about capacity planning, hardware provisioning, data replication, hardware failure detection and repair, or time-consuming hardware migrations.

https://aws.amazon.com/s3/glacier/faqs/

Question

A company is looking to build a new archiving system on AWS that will store terabytes of data. The company will NOT retrieve the data often. Which Amazon S3 storage class will MINIMIZE the cost of the system?

Answers

A. S3 Standard-Infrequent Access (S3 Standard-IA)
B. S3 Glacier
C. S3 Intelligent-Tiering
D. S3 One Zone-Infrequent Access (S3 One Zone-IA)

B

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https://aws.amazon.com/s3/glacier/faqs/

Question

A company would like to have durable storage for static content and infinitely scalable data storage infrastructure at the lowest cost. Which service below should the company choose?

Answers

   A. Amazon Elastic Block Store (Amazon EBS)
   B. Amazon S3
   C. AWS Storage Gateway
   D. Amazon Elastic File System (Amazon EFS)

B

Amazon Simple Storage Service (Amazon S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance. This means customers of all sizes and industries can use it to store and protect any amount of data for a range of use cases, such as data lakes, websites, mobile applications, backup and restore, archive, enterprise applications, IoT devices, and big data analytics.

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

Question

Which Amazon S3 storage class allows users to store data backups for long periods of time at the LOWEST cost?

Answers

    A.   S3 Standard-Infrequent Access (S3 Standard-IA)
    B.   S3 Standard
    C.   S3 Glacier
    D.   S3 One Zone-Infrequent Access (S3 One Zone-IA)

C

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https://aws.amazon.com/s3/glacier/faqs/

Question

Which AWS service provides the ability to quickly run one-time queries on data in Amazon S3?

Answers

    A.   Amazon EMR
    B.   Amazon DynamoDB
    C.   Amazon Redshift
    D.   Amazon Athena

D

Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL. Athena is serverless, so there is no infrastructure to manage, and you pay only for the queries that you run.

https://aws.amazon.com/athena/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whats-new-cards.sort-order=desc

Question

A company is looking for a way to encrypt data stored on Amazon S3. Which service below can be used to help to accomplish this?

Answers

A. AWS Certificate Manager (ACM)
B. AWS Secrets Manager
C. AWS Resource Access Manager
D. AWS Key Management Service (AWS KMS)

D

Client-side encryption is the act of encrypting data before sending it to Amazon S3. To enable client-side encryption, you have the following options:
Use a customer master key (CMK) stored in AWS Key Management Service (AWS KMS).

https://docs.aws.amazon.com/AmazonS3/latest/userguide/UsingClientSideEncryption.html