Amazon

SAA-C03 Exam

AWS Certified Solutions Architect - Associate

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Version: 20.1

Topic 1, Exam Pool A

Question: 1

A company collects temperature, humidity, and atmospheric pressure data in cit es across mult ple cont nents. The average volume of data collected per site each day is 500 GB. Each site has a high-speed internet connect on. The company's weather forecast ng applicat ons are based in a single Region and analyze the data daily.

What is the FASTEST way to aggregate data from all of these global sites?

A. Enable Amazon S3 Transfer Accelerat on on the dest nat on bucket. Use mult part uploads to directly upload site data to the dest nat on bucket.

B. Upload site data to an Amazon S3 bucket in the closest AWS Region. Use S3 cross-Region replicat on to copy objects to the dest nat on bucket.

C. Schedule AWS Snowball jobs daily to transfer data to the closest AWS Region. Use S3 cross-Region replicat on to copy objects to the dest nat on bucket.

D. Upload the data to an Amazon EC2 instance in the closest Region. Store the data in an Amazon Elast c Block Store (Amazon EBS) volume. Once a day take an EBS snapshot and copy it to the centralized Region. Restore the EBS volume in the centralized Region and run an analysis on the data daily.

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Answer: A

Explanat on:

You might want to use Transfer Accelerat on on a bucket for various reasons, including the following:

You have customers that upload to a centralized bucket from all over the world.

You transfer gigabytes to terabytes of data on a regular basis across cont nents.

You are unable to ut lize all of your available bandwidth over the Internet when uploading to Amazon S3.

ht ps://docs.aws.amazon.com/AmazonS3/latest/dev/transfer-accelerat on

ht ps://aws.amazon.com/s3/transfer-accelerat on/#:~:text=S3%20Transfer%20Accelerat on%20(S3TA)%20reduces,to%20S3%20for%20remote%20applicat ons:

"Amazon S3 Transfer Accelerat on can speed up content transfers to and from Amazon S3 by as much as 50-500% for long-distance transfer of larger objects. Customers who have either web or mobile applicat ons with widespread users or applicat ons hosted far away from their S3 bucket can experience long and variable upload and download speeds over the Internet"

ht ps://docs.aws.amazon.com/AmazonS3/latest/userguide/mpuoverview

"Improved throughput - You can upload parts in parallel to improve throughput."

Question: 2

A company needs the ability to analyze the log f les of its proprietary applicat on. The logs are stored in JSON format in an Amazon S3 bucket Queries will be simple and will run on-demand A solut ons architect needs to perform the analysis with minimal changes to the exist ng architecture

What should the solut ons architect do to meet these requirements with the LEAST amount of operat onal overhead?

A. Use Amazon Redshif to load all the content into one place and run the SQL queries as needed

B. Use Amazon CloudWatch Logs to store the logs Run SQL queries as needed from the Amazon CloudWatch console

C. Use Amazon Athena directly with Amazon S3 to run the queries as needed

D. Use AWS Glue to catalog the logs Use a transient Apache Spark cluster on Amazon EMR to run the SQL queries as needed

Answer: C

Explanat on:

Amazon Athena can be used to query JSON in S3

Question: 3

A company uses AWS Organizat ons to manage mult ple AWS accounts for dif erent departments. The management account has an Amazon S3 bucket that contains project reports. The company wants to limit access to this S3 bucket to only users of accounts within the organizat on in AWS Organizat ons.

Which solut on meets these requirements with the LEAST amount of operat onal overhead?

A. Add the aws:PrincipalOrgID global condit on key with a reference to the organizat on ID to the S3

bucket policy.

B. Create an organizat onal unit (OU) for each department. Add the aws:PrincipalOrgPaths global
condit on key to the S3 bucket policy.

C. Use AWS CloudTrail to monitor the CreateAccount, InviteAccountToOrganizat on, LeaveOrganizat on,
and RemoveAccountFromOrganizat on events. Update the S3 bucket policy accordingly.

D. Tag each user that needs access to the S3 bucket. Add the aws:PrincipalTag global condit on key to the
S3 bucket policy.

Answer: A

Explanat on:

ht ps://aws.amazon.com/blogs/security/control-access-to-aws-resources-by-using-the-aws-
organizat on-of-iam-principals/

The aws:PrincipalOrgID global key provides an alternat ve to list ng all the account IDs for all AWS
accounts in an organizat on. For example, the following Amazon S3 bucket policy allows members of any
account in the XXX organizat on to add an object into the examtopics bucket.

{"Version": "2020-09-10",

"Statement": {

"Sid": "AllowPutObject",

"Ef ect": "Allow",

"Principal": "*",

"Act on": "s3:PutObject",

"Resource": "arn:aws:s3:::examtopics/*",

"Condit on": {"StringEquals":

{"aws:PrincipalOrgID":["XXX"]}}}}

ht ps://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_condit on-keys

Question: 4

An applicat on runs on an Amazon EC2 instance in a VPC. The applicat on processes logs that are stored in an Amazon S3 bucket. The EC2 instance needs to access the S3 bucket without connect vity to the internet.

Which solut on will provide private network connect vity to Amazon S3?

A. Create a gateway VPC endpoint to the S3 bucket.

B. Stream the logs to Amazon CloudWatch Logs. Export the logs to the S3 bucket.

C. Create an instance prof le on Amazon EC2 to allow S3 access.

D. Create an Amazon API Gateway API with a private link to access the S3 endpoint.

Answer: A

Explanat on:

VPC endpoint allows you to connect to AWS services using a private network instead of using the public Internet

Question: 5

A company is host ng a web applicat on on AWS using a single Amazon EC2 instance that stores user-uploaded documents in an Amazon EBS volume. For bet er scalability and availability, the company

duplicated the architecture and created a second EC2 instance and EBS volume in another Availability Zone placing both behind an Applicat on Load Balancer Af er complet ng this change, users reported that, each t me they refreshed the website, they could see one subset of their documents or the other, but never all of the documents at the same t me.

What should a solut ons architect propose to ensure users see all of their documents at once?

A. Copy the data so both EBS volumes contain all the documents.

B. Conf gure the Applicat on Load Balancer to direct a user to the server with the documents

C. Copy the data from both EBS volumes to Amazon EFS Modify the applicat on to save new documents to Amazon EFS

D. Conf gure the Applicat on Load Balancer to send the request to both servers Return each document from the correct server.

Answer: C

Explanat on:

ht ps://docs.aws.amazon.com/efs/latest/ug/how-it-works#how-it-works-ec2

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