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AWS S3 Interview Questions

Practice here Best Amazon S3 Interview Questions & Answers

AWS S3 Stands for **Amazon Simple Storage Service**. This is a cloud-based storage service that is offered by Amazon. This is designed to make web-scale computing easier for developers. Here you can read the **Best Interview Questions on AWS S3** or **AWS S3 faq** that are asked during job interviews.

Q1. Explain AWS S3 bucket?

Amazon S3 (Simple Storage Service) is a simple web service interface that allows huge amount of data storage and retrival from anywhere from the internet.Its provides developers highly scalable, reliable, fast and low cost data storage infrastructure.

Q2. What is the maximum size of S3 bucket?

In S3 bucket you can store unlimited volume of data and number of objects. A single Amazon S3 objects can be a size of range 0 bytes to 5 terabytes. In single upload request You can put an object of around 5 GB but you must have to enable Multipart Upload capability.

Q3. How to list objects of a S3 bucket?

use `aws s3 ls --recursive` command on aws CLI to list all files or objects under the specified directory or prefix

Q4. Explain process of mounting s3 to ec2 instance?

Follow the steps given below to mount s3 to the ec2 instance

- Update the system

`apt-get update`

- Install the dependencies

```
sudo apt-get install automake autotools-dev fuse g++ git libcurl4-gnutls-dev lib
```

- Clone s3fs source code from git

```
git clone https://github.com/s3fs-fuse/s3fs-fuse.git
```

- Run the below commands to change the source code directory, and compile and install the code.

```
cd s3fs-fuse
autogen.sh
./configure --prefix=/usr --with-openssl
makesudo make install
```

- Run the s3fs command to check where the command is placed

```
which s3fs
```

- Get your access key and secret key ready.
- Create a new file in /etc with the name passwd-s3fs and paste your access key and secret key.

```
touch /etc/passwd-s3fs
vim /etc/passwd-s3fs
Your_accesskey:Your_secretkey
```

- Change the permission of the file

```
sudo chmod 640 /etc/passwd-s3fs
```

- Now create a directory or provide the path of an existing directory and mount S3bucket in it.

```
mkdir /mys3bucket
s3fs your_bucketname -o use_cache=/tmp -o allow_other -o uid=1001 -o mp_umask=00
```

Q5. [How to install aws s3 cli?](#)

Prerequisite to install AWS CLI.

- Python2 version 2.6.5+ or Python3 version 3.3+

- Windows, Linux, macOS,or Unix

After that, if you are using Unix or Linux system run below command to install AWS CLI

```
 pip install awscli --upgrade --user
```

For window and other OS please read: https://docs.aws.amazon.com/cli/latest/userguide/installing.html

Q6. How to clear AWS S3 cache?

You can use invalidations to clear AWS S3 cache. To create invalidations login to AWS Console and go to **Distribution Settings > Invalidations > Create Invalidation**. Once invalidation is created just type path of file or a wildcard to purge the cache.

Q7. How to delete a AWS s3 bucket?

Here are steps to delete an S3 bucket:-

- **Step1:** Login to AWS Management Console.
- **Step2:** Select S3 from services.
- **Step3:** Check the bucket you want to delete.
- **Step4:** Click on the delete button. As confirmation Aws ask you to type the bucket name to delete.
- **Step5**: Type bucket name and click on the Confirm button.

Q8. How to get AWS S3 access key?

AWS S3 Access keys are TCP connections to an S3 bucket and allow you to get from it, store your data in it and download it. You can create a new access key or update an existing one when you're creating a new bucket or modifying existing ones.

Q9. What are options available for protecting data at rest in Amazon S3?

Amazon S3 offers several options for protecting data at rest. For example, you can encrypt or obfuscate Key Pair URIs with X.509 certificates and EC2 instances by using either Linux containers or EC2 instances to transfer the data out of S3.

Q10. Explain S3 Versioning? What are benefits of using versioning in S3.

Versioning allows us to keep multiple variants of an object in a bucket. Versioning helps us to restore an object to a previous or specific version of an object. You can take advantage of versioning to recover a deleted or mistakenly overwritten object.

Q11. How to Configure Versioning on a Bucket?

Versioning helps you to keep multiple versions of an object in one bucket. Here are simple steps to enable versioning on an S3 bucket.

- **Step1:** Login to your AWS console.
- **Step2:** From services choose S3.
- **Step3:** Select a bucket for which you want to enable versioning.
- **Step4:** Click on the properties tab.
- **Step5:** Choose versioning from properties.
- **Step6:** Choose to enable versioning and click on the Ok button.

Q12. How to enable Multipart Upload capability in Amazon S3.

Multipart Upload is a new feature that allows you to add multiple files in a single operation. This means that instead of uploading a file with S3 and having it uploaded to all the destinations separately, you can upload multiple files in one step. Multipart Upload lets you expand your use cases, by having faster downloads and big data transfer, or by making sure that files are always accessible from anywhere and from any device

Q13. What is AWS s3fs.

It is a FUSE filesystem. Amazon web services simple storage service supports it. It can be operated with two different methods

1.Command method-

In this type of mode, s3fs is eligible for managing Amazon s3 buckets in several efficient methods.

2. Mount method-

It is used to mount the Amazon s3 bucket as a local file system.

Q14. Why would you mount an s3 bucket to an instance?

You don't want to. Block storage is not the same as object storage, and there are serious implications to this.

Q15. What are the features of AWS S3?

AWS S3 Provides you a simple and secure way to store your data. It comes with a set of features that allows you secure access to your data at any time. You can store information in various bucket objects (objects) using Amazon S3 and use the various buckets as needed.

The features of AWS S3 are as follows -

- Storage management and monitoring
- Storage analytics and insights
- Access management and security
- Data processing
- Query in place
- Data transfer

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