s3 bucket

- s3 bucket is an global service
- 1.Create an S3 bucket from Amazon aws account



Select ACL →enabled option while creating an bucket.

- ▼ Making object Public
 - Go inside a bucket
 - Upload the object
 - After uploading an object Navigate to the object →object Action→Make public using ACL
- ▼ Mounting an s3 bucket to an ec2 instance
 - First of all Launch an Instance
 - update the machine using yum update
 - install the dependencies

```
[root@webserver ~]# yum update
Last metadata expiration check: 1 day, 8:20:28 ago on Fri Sep  6 06:44:14 2024.
Dependencies resolved.
Nothing to do.
[root@webserver ~]# sudo yum install automake fuse fuse-devel gcc-c++ git libcurl-devel libxml2-devel make openssl-devel
Last metadata expiration check: 1 day, 8:20:45 ago on Fri Sep  6 06:44:14 2024.
Dependencies resolved.
Package
                                             Architecture
                                                                       Version
                                                                                                                                   Repository
Installing:
                                                                        1.16.5-9.amzn2023.0.3
                                                                                                                                   amazonlinux
                                             x86_64
x86_64
x86_64
x86_64
                                                                       2.9.9-13.amzn2023.0.2
2.9.9-13.amzn2023.0.2
11.4.1-2.amzn2023.0.2
                                                                                                                                                                     80 k
34 k
12 M
54 k
                                                                                                                                   amazonlinux
 fuse-devel
                                                                                                                                   amazonlinux
                                                                                                                                   amazonlinux
                                                                        2.40.1-1.amzn2023.0.3
                                                                       8.5.0-1.amzn2023.0.4
2.10.4-1.amzn2023.0.6
                                              x86_64
                                                                                                                                   amazonlinux
                                                                                                                                                                     927 k
                                             x86_64
x86_64
x86_64
 libxml2-devel
                                                                                                                                   amazonlinux
                                                                                                                                                                     500 k
                                                                       1:4.3-5.amzn2023.0.2
1:3.0.8-1.amzn2023.0.14
                                                                                                                                                                     534 k
                                                                                                                                   amazonlinux
 make
                                                                                                                                                                     3.0 M
                                                                                                                                   amazonlinux
Installing dependencies:
                                                                       10.93-1.amzn2023.0.1
10.93-1.amzn2023.0.1
2.69-36.amzn2023.0.3
                                                                                                                                   amazonlinux
amazonlinux
                                                                                                                                                                     92 k
                                             noarch
 annobin-plugin-gcc
                                             x86_64
                                                                                                                                                                     887 k
                                                                                                                                   amazonlinux
                                             noarch
```

 Now we have to clone the s3fs source code from git→git clone https://github.com/s3fs-fuse/s3fs-fuse.git

```
[root@webserver ~]# git clone https://github.com/s3fs-fuse/s3fs-fuse.git
Cloning into 's3fs-fuse'...
remote: Enumerating objects: 10467, done.
remote: Counting objects: 100% (2515/2515), done.
remote: Compressing objects: 100% (315/315), done.
remote: Total 10467 (delta 2345), reused 2267 (delta 2199), pack-reused 7952 (from 1)
Receiving objects: 100% (10467/10467), 6.03 MiB | 20.36 MiB/s, done.
Resolving deltas: 100% (7588/7588), done.
```

 Install the s3fs code by changing directory to cloned repo and use follwing command to compile and install

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

```
[root@webserver ~]# cd s3fs-fuse
./autogen.sh
./configure --prefix=/usr --with-openssl
make
sudo make install
--- Make commit hash file -----
-> Git commit hash : 22869d9
--- Finished commit hash file ---
configure.ac:30: installing './compile'
configure.ac:26: installing './config.guess'
```

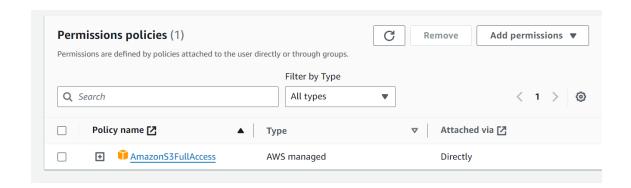
· Check if installation is successfull

```
[root@webserver s3fs-fuse]# which s3fs
/usr/bin/s3fs
```

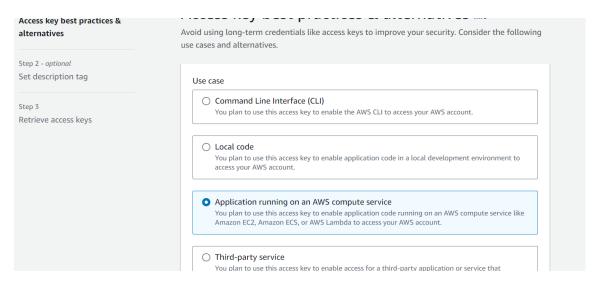
Now we need AWS access key and secret key

Go to AWS Menu → Your AWS Account Name → My Security Credentials. Here your IAM console will appear.

You have to go to Users > Your Account name and under the permissions Tab, check whether you have sufficient access to the S3 bucket. If not, you can manually assign an existing "S3 Full-Access" policy or create a new policy with sufficient permissions.



Now go to the Security Credentials Tab and Create an Access Key. A new Access Key and Secret Key pair will be generated and download the csv



 Open csv file copy access and secret key → go to you instance and do the following

Create a new file in /etc with the name passwd-s3fs and Paste the access key and secret key in the format **Your_accesskey:Your_secretkey**

touch /etc/passwd-s3fs

vim /etc/passwd-s3fs

Change the permission chmod 640 /etc/passwd-s3fs

```
[root@webserver ~]# vim /etc/passwd-s3fs
[root@webserver ~]# sudo chmod 640 /etc/passwd-s3fs
[root@webserver ~]# |
```

 Mount the S3 bucket to mount create an directory to be mounted upon mkdir /s3-bucket

s3fs name1234567 -o use_cache=/tmp -o allow_other -o uid=1001 -o mp_umask=002 -o multireq_max=5 /s3-bucket

Note: you should write your bucket name and mounting directory where bold letters are mentioned

If no error occured use df -h to see mounted memory with 64 P

 now go to mounted dir cd /s3-bucket touch hello.txt

You can see the data from bucket

