**we will see how to mount the S3 bucket on the Linux instance file system. The s3fs tool was created to easily copy files or objects to our local directory.**

**The s3fs tool provides assistance as it simplifies our tasks on our server and includes that you can mount it in the folder directory. It is easier to export files and objects to the s3 bucket because it automatically syncs your file to the s3 bucket when it is mounted in that file directory.**

**SSH to your EC2 instance and install the required dependencies in your instance,**

sudo apt-get update && apt-get install awscli -y

**Install all dependency packages for fuse and s3cmd**

sudo apt-get install automake autotools-dev fuse g++ git libcurl4-gnutls-dev libfuse-dev libssl-dev libxml2-dev make pkg-config -y

**Download and Compile Your S3Fs Source Code**

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

cd s3fs-fuse

./autogen.sh

./configure

make

sudo make install

which s3fs

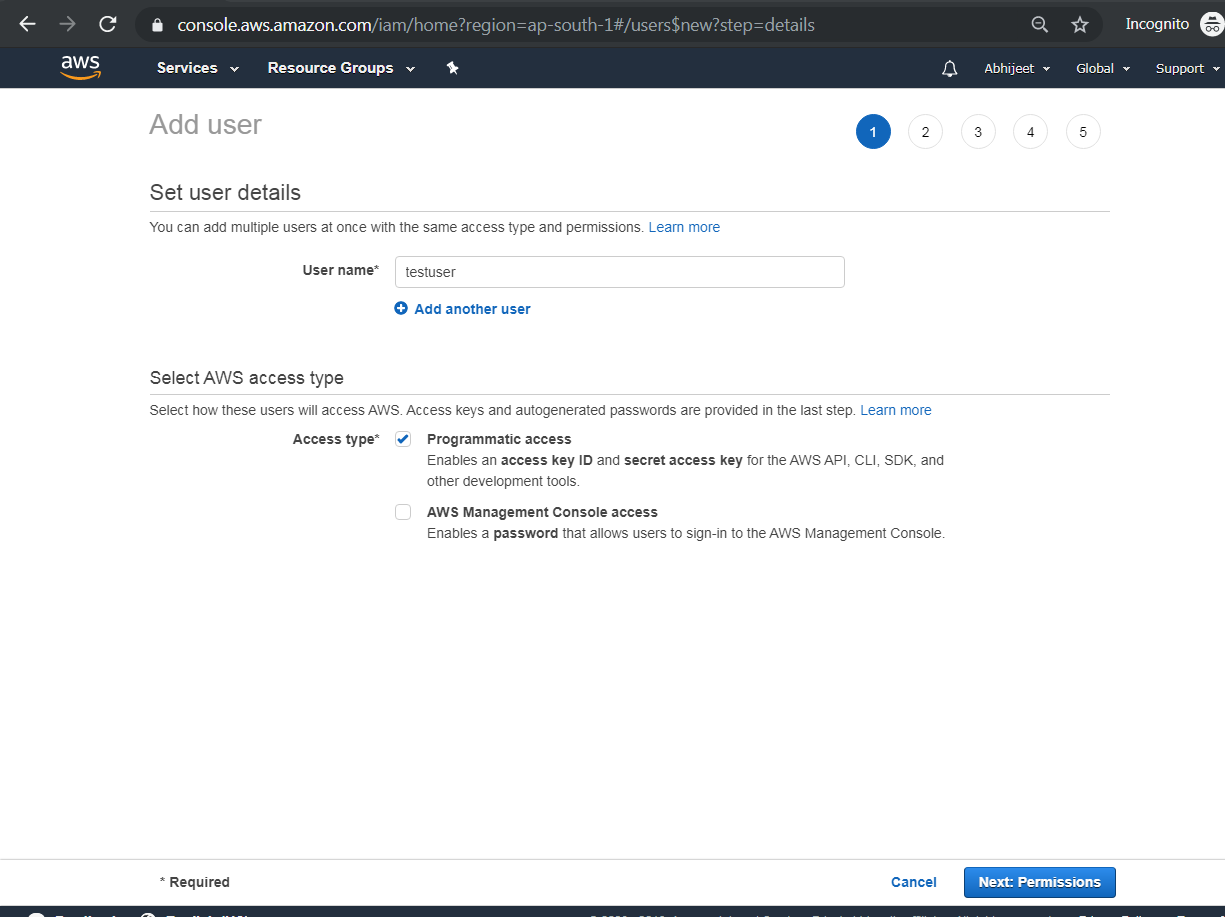
**Create Security Credentials**

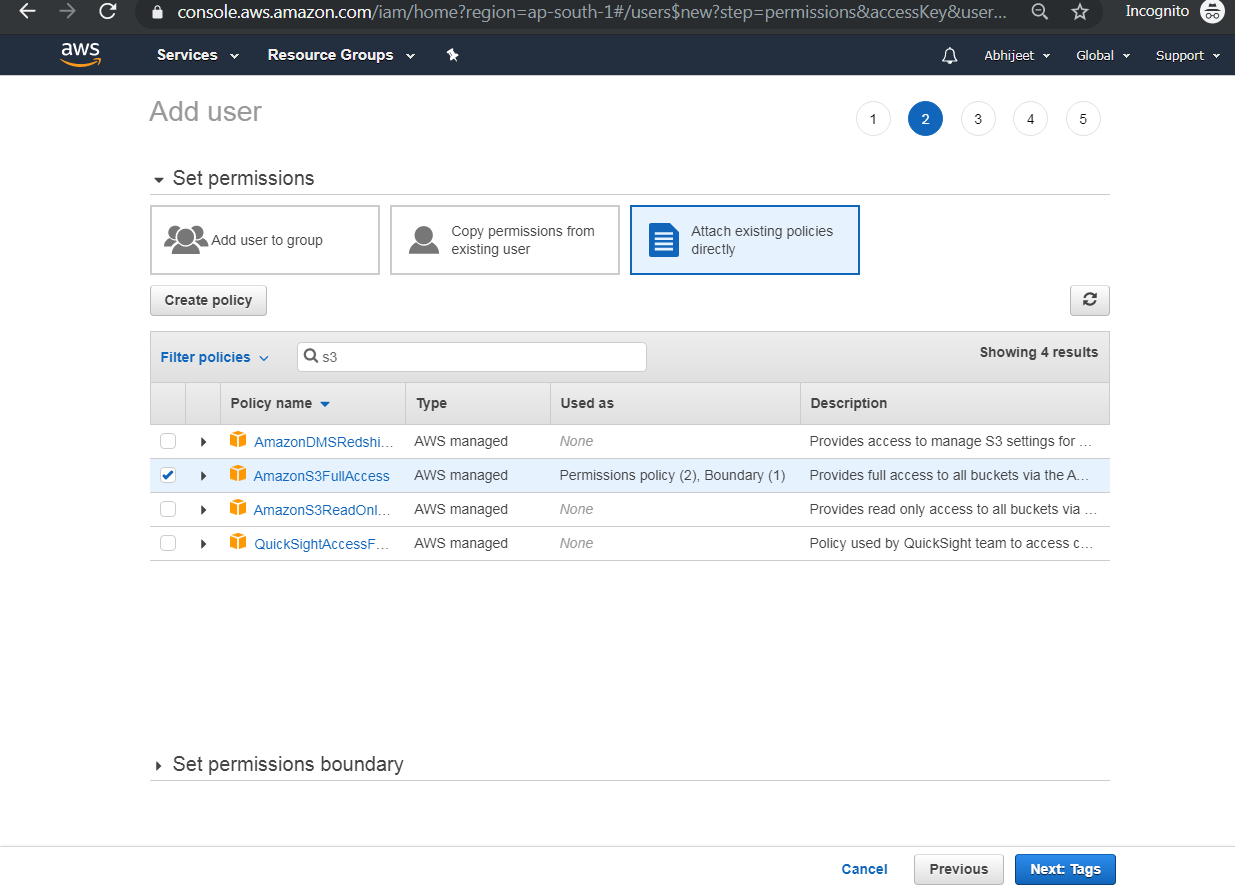
**Make a file for storing your credentials to connect on the s3 bucket and for us to secure the transfer of our object to the S3 bucket.**

**You will need AWS Access key and Secret key with appropriate permissions in order to access your s3 bucket from your EC2 instance.**

**Create an IAM user with S3 full access or use root credentials of your Account.**

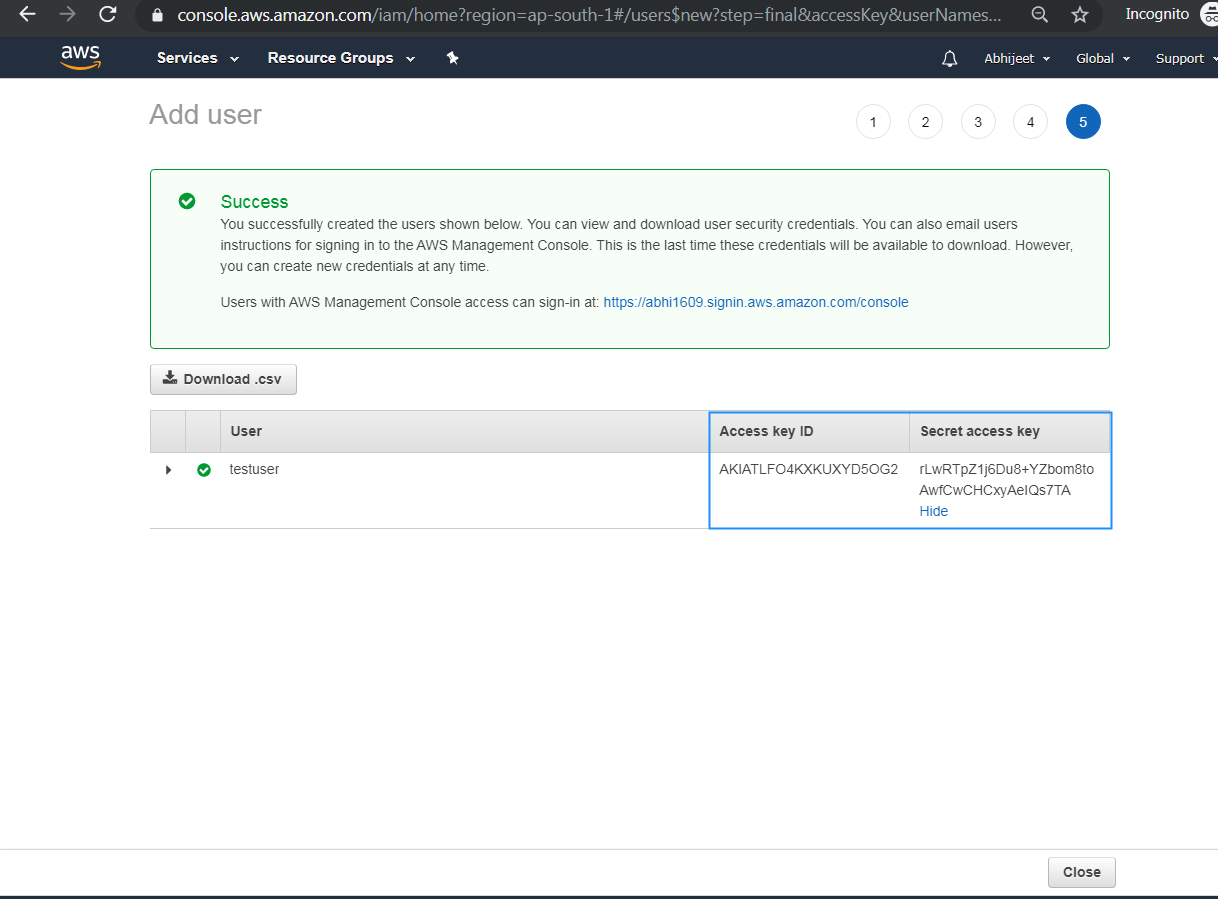
Go to AWS Menu -> Your AWS Account Name -> My Security Credentials. Here your IAM console will appear. You have to go to Users > Your Account name and under permissions Tab, check whether you have sufficient access on S3 bucket. If not, you can manually assign an existing “S3 Full-Access” policy or create a new policy with sufficient permissions.





(give s3 full access permissins )

after that you will get access key and sercrte key like below:



**Create a new file in /home/ubuntu/.passwd-s3fs with the name .passwd-s3fs and Paste the access key and secret key in the below format .**

touch /home/ubuntu/.passwd-s3fs

vim /home/ubuntu/.passwd-s3fs

***put you your access key and secret key like below***

AKIATLFO4KXKUXYD5OG2:rLwRTpZ1j6Du8+YZbom8toAwfCwCHCxyAeIQs7TA

**change the permission of file**

chmod 600 /home/ubuntu/.passwd-s3fs

**Create a Mount Point**

**Create a folder directory where we can mount our s3fs agent.**

mkdir -p /mnt/s3mount

**Run the command below to mount correctly to the directory you created.**

s3fs abhijeetbuckets3 /mnt/s3mount -o passwd\_file=/home/ubuntu/.passwd-s3fs

(abhijeetbuckets3= my s3 bucket\_name)

**Then check your file system to see if it mounts correctly, using the command below.**

df -h

Filesystem Type Size Used Avail Use% Mounted on

*s3fs fuse.s3fs 256T 0 256T 0% /mnt/s3mount*

**Setup Auto-mount on Boot**

**In this step you need to create a consistent mounted bucket to avoid losing your files during instance state reboot. You have two options to configure on how to automount the s3fs fuse on system reboot.**

**The first option this can be done by editing the file/etc/fstab and adding the content below:**

vi /etc/fstab

s3fs#mybucket /mnt/s3mount fuse \_netdev,allow\_other 0 0

**it will always mounted after reboot.**

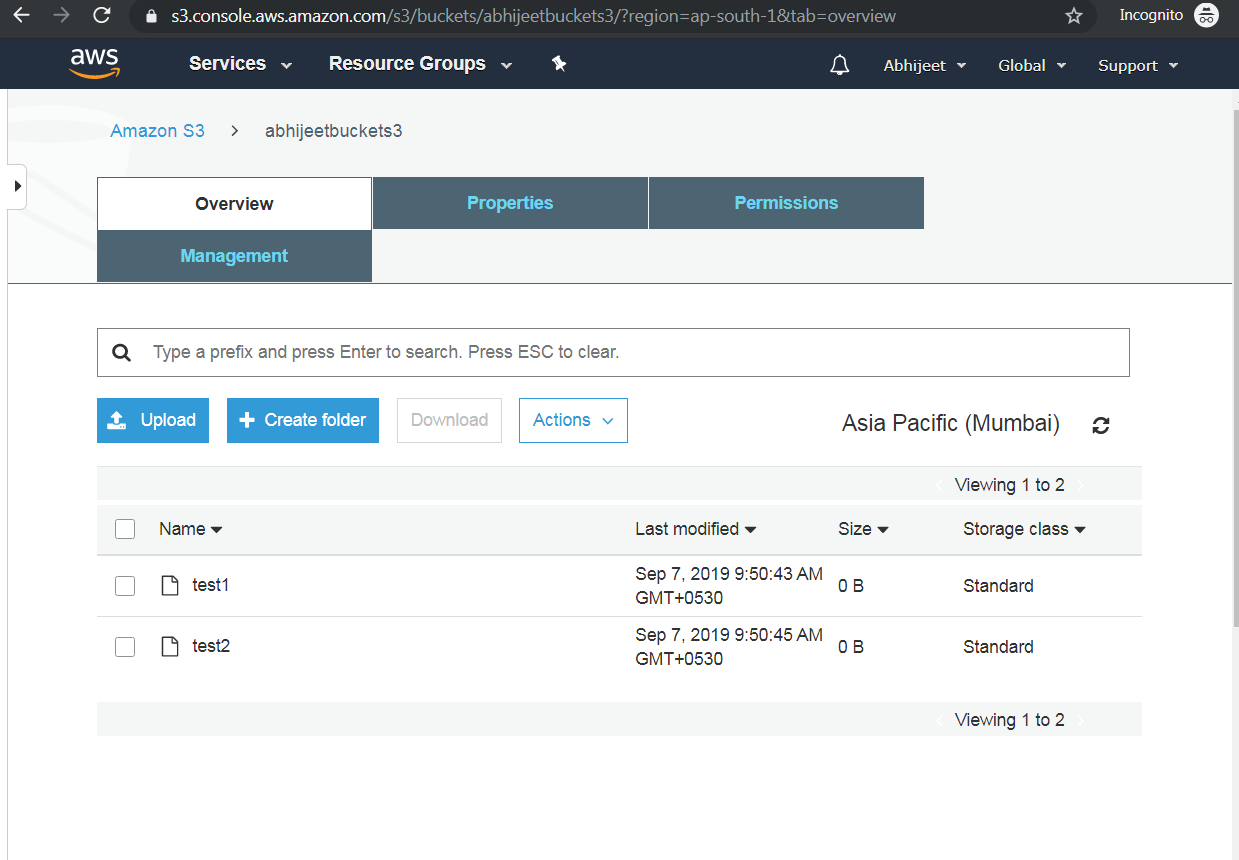
**Test Upload Files To Our S3 Bucket.**

cd /mnt/s3mount

touch test1

touch test2

**Sign in to your AWS management console > Services > S3 and click your S3 bucket. On the next screen, you will see the file objects you created from the local directory.**

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