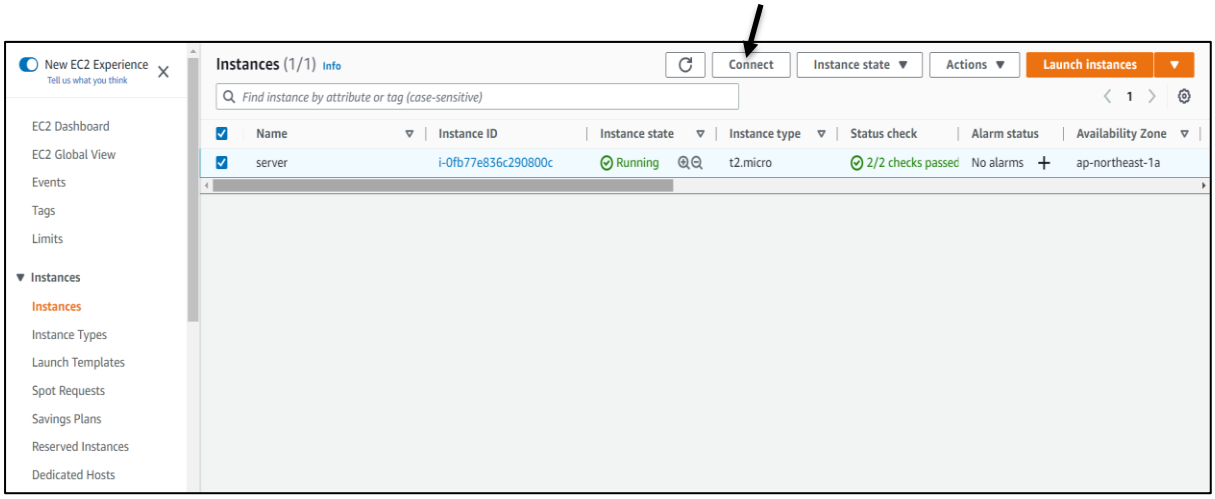
Mount S3 bucket on EC2 instance

- Create an **IAM user** with **S3fullaccess**, **EC2 fullaccess policies**
- Generate **access key** and **Secret access key** from **Security credentials**.
- Copy access key and Secret access key to notepad.
- Login to your **EC2 console**
- In the left navigation panel choose **Instances**
- **Launch** and **Connect** **'Server'** Instance.



- Write **sudo –i** to switch to root user

```
       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-34-31 ~]$ sudo -i
[root@ip-172-31-34-31 ~]#
```

- Now install Amazon linux extras packages using
    - **amazon-linux-extras install epel –y**

```
[root@ip-172-31-34-31 ~]# amazon-linux-extras install epel -y
```

- Now install file-system to mount s3 using
    - **yum install s3fs-fuse -y**

```
[root@ip-172-31-34-31 ~]# yum install s3fs-fuse -y
```

- Now overwrite access key and private key in ${HOME}/ give name to that file like
  - **Echo AKIAZG46R75N6MFD6PYW: mvjFD3Nq2rNwk7PpHFp2fffKnmRNFBMm0dlA4Xb6 >${HOME}/.smitpassword**

```
[root@ip-172-31-34-31 ~]# echo AKIAZG46R75N6MFD6PYW:mvjFD3Nq2rNwk7PpHFp2fffKnmRNFBMm0dlA4Xb6 >${HOME}/.smitpassword
```

- Use **ls -la** command to show **.smitpassword** file

```
[root@ip-172-31-34-31 ~]# ls -la
total 24
dr-xr-x---  3 root root 124 Mar  3 08:07 .
dr-xr-xr-x 18 root root 257 Mar  3 07:39 ..
-rw-r--r--  1 root root  18 Oct 18  2017 .bash_logout
-rw-r--r--  1 root root 176 Oct 18  2017 .bash_profile
-rw-r--r--  1 root root 176 Oct 18  2017 .bashrc
-rw-r--r--  1 root root 100 Oct 18  2017 .cshrc
-rw-r--r--  1 root root  62 Mar  3 08:07 .smitpassword
drwx------  2 root root  29 Mar  3 07:39 .ssh
-rw-r--r--  1 root root 129 Oct 18  2017 .tcshrc
[root@ip-172-31-34-31 ~]#
```

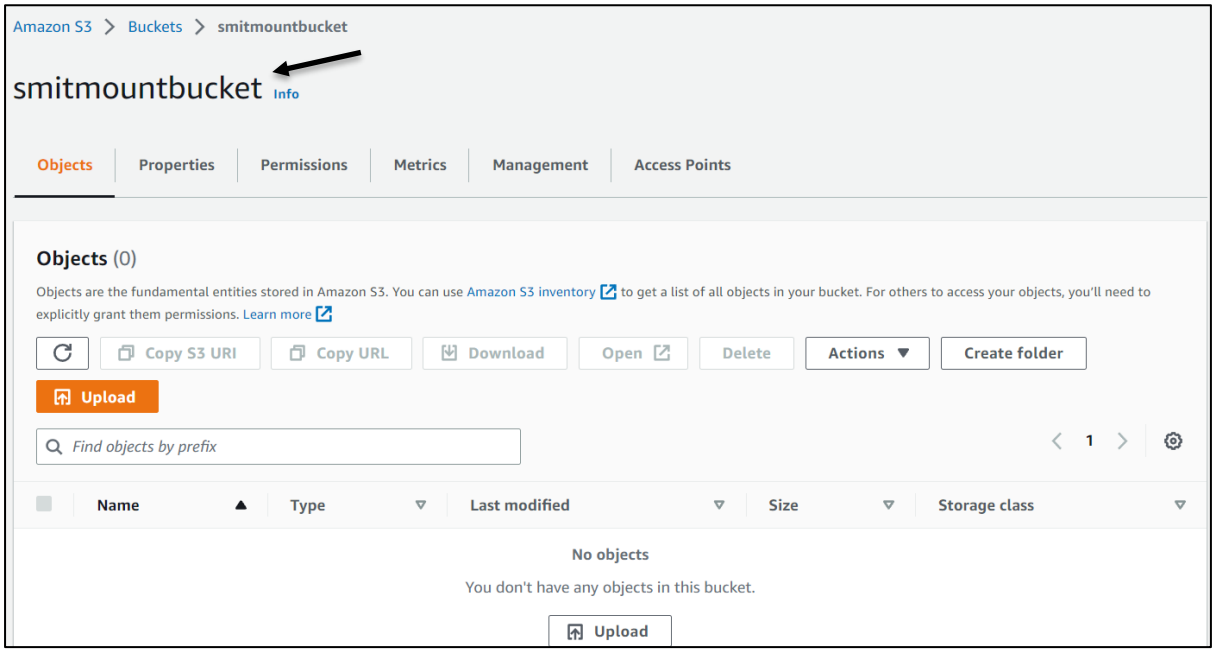
- Now **change permission** of file **smitpassword** to **600**
  - **chmod 600 /root/.smitpassword**

```
[root@ip-172-31-34-31 ~]# chmod 600 /root/.smitpassword
[root@ip-172-31-34-31 ~]# ls -la
total 24
dr-xr-x---  3 root root 124 Mar  3 08:07 .
dr-xr-xr-x 18 root root 257 Mar  3 07:39 ..
-rw-r--r--  1 root root  18 Oct 18  2017 .bash_logout
-rw-r--r--  1 root root 176 Oct 18  2017 .bash_profile
-rw-r--r--  1 root root 176 Oct 18  2017 .bashrc
-rw-r--r--  1 root root 100 Oct 18  2017 .cshrc
-rw-------  1 root root  62 Mar  3 08:07 .smitpassword
drwx------  2 root root  29 Mar  3 07:39 .ssh
-rw-r--r--  1 root root 129 Oct 18  2017 .tcshrc
[root@ip-172-31-34-31 ~]#
```

- **Make directory** to mount with s3 bucket
  - **mkdir bucketmount**

```
[root@ip-172-31-34-31 /]# mkdir bucketmount
```

- Create **S3 bucket** from console



- now make file system of that bucket using below command
  - **s3fs smitmountbucket /bucketmount –o passwd_file =${HOME}/.smitpassword**

```
[root@ip-172-31-34-31 /]# s3fs smitmountbucket /bucketmount -o passwd_file=${HOME}/.smitpassword
```

- Check bucket is mounted or not using
  - **mount | grep bucketmount**

```
[root@ip-172-31-34-31 /]# mount|grep bucketmount
s3fs on /bucketmount type fuse.s3fs (rw,nosuid,nodev,relatime,user_id=0,group_id=0)
```

- Change directory to bucketmount
  - **cd bucketmount**

```
[root@ip-172-31-34-31 /]# cd bucketmount
[root@ip-172-31-34-31 bucketmount]#
```

- Create some files it will reflect in s3 bucket in console
  touch file{1..100}

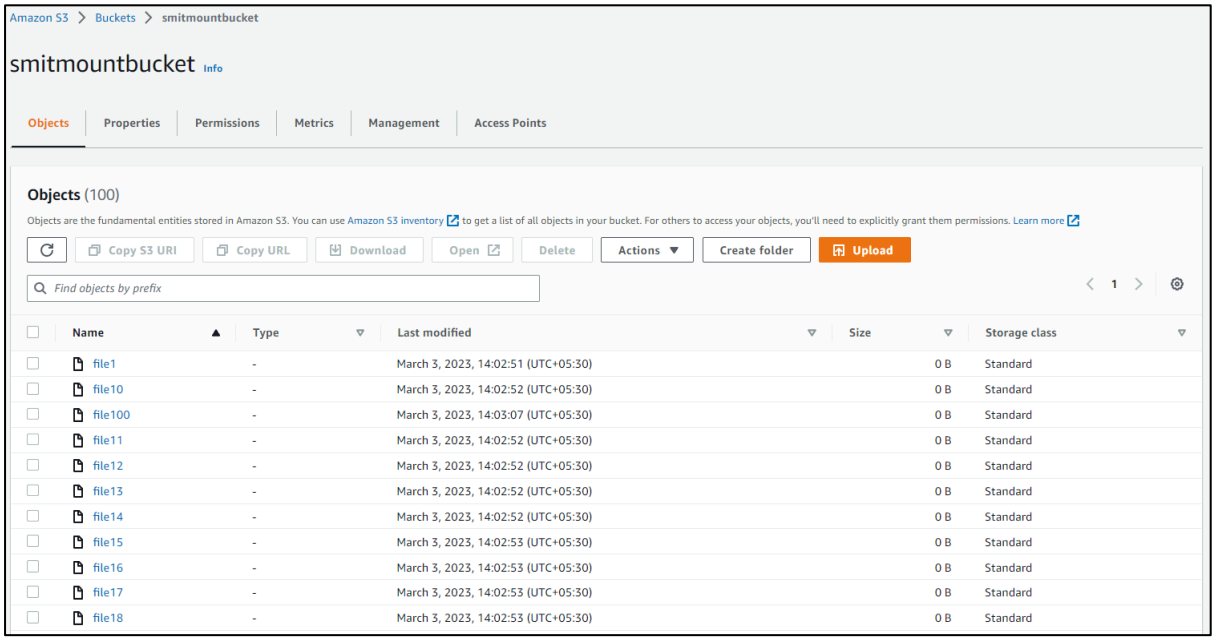
```
[root@ip-172-31-34-31 bucketmount]# touch file{1..100}
```

- We can see 100 files in bucket **on Console** & **on Terminal**

    - **On Console**

```
[root@ip-172-31-34-31 bucketmount]# touch file{1..100}
[root@ip-172-31-34-31 bucketmount]# ls
file1    file13  file18  file22  file27  file31  file36  file40  file45  file5   file54  file59  file63  file68  file72  file77  file81  file86  file90  file95
file10   file14  file19  file23  file28  file32  file37  file41  file46  file50  file55  file6   file64  file69  file73  file78  file82  file87  file91  file96
file100  file15  file2   file24  file29  file33  file38  file42  file47  file51  file56  file60  file65  file7   file74  file79  file83  file88  file92  file97
file11   file16  file20  file25  file3   file34  file39  file43  file48  file52  file57  file61  file66  file70  file75  file8   file84  file89  file93  file98
file12   file17  file21  file26  file30  file35  file4   file44  file49  file53  file58  file62  file67  file71  file76  file80  file85  file9   file94  file99
[root@ip-172-31-34-31 bucketmount]#
```

    - **On Terminal**



NOTE :-

- **If we delete from bucket on console, it will also be deleted form terminal and vise versa.**
- **So S3 bucket is mounted on EC2 instance.**