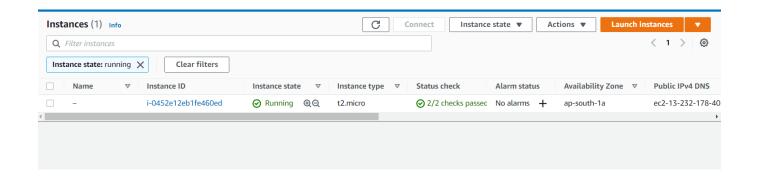
Launching an ec2 instance and setting up the webserver
 In command prompt by using the command

Command:

aws ec2 run-instances --image-id ami-0e306788ff2473ccb -- instance-type t2.micro --count 1 --security-group-ids --subnet-id subnet-3388825b --key-name tasks.pem



Creating the volume

Command:

create-volume --availability-zone ap-south-1c --size 1 --volume-type gp2

```
"C:\Users\muvva\Downloads>aws ec2 create-volume --availability-zone ap-south-1c --size 1 --volume-type gp2

"AvailabilityZone": "ap-south-1c",
    "CreateTime": "2021-05-30T05:35:26+00:00",
    "Encrypted": false,
    "Size": 1,
    "SnapshotId": "",
    "State": "creating",
    "VolumeId": "vol-08fad0fa8b305c253",
    "Iops": 100,
    "Tags": [],
    "VolumeType": "gp2",
    "MultiAttachEnabled": false
```

Attaching the created volume

Command:

attach-volume -- device /dev/sdh --instance-id i-09b654a72e58332c2 --volume-id vol-011e299a5326135db

```
:\Users\muvva\Downloads>aws ec2 attach-volume --device /dev/sdh --instance-id i-0f6ade50053fea4ae --volume-id vo
-0d5da42324b6e538a

"AttachTime": "2021-05-30T05:45:54.231000+00:00",

"Device": "/dev/sdh",

"InstanceId": "i-0f6ade50053fea4ae",

"State": "attaching",

"VolumeId": "vol-0d5da42324b6e538a"
```

```
ecz-user@ip-1/2-31-2-46 ~]$ sudo su
[root@ip-172-31-2-46 ec2-user]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
                                                                                               3.7 kB 00:00:00
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86 64 0:2.4.46-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.46-1.amzn2 for package: httpd-2.4.46-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.46-1.amzn2 for package: httpd-2.4.46-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.46-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.46-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.46-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.46-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.46-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.46-1.amzn2.x86_64
--> Running transaction check
---> Package apr.x86_64 0:1.6.3-5.amzn2.0.2 will be installed
---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86 64
    Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
```

After attaching we need to format and mount it on the folder

For formatting: mkfs.ext4/dev/xvdh

```
[root@ip-172-31-2-46 ec2-user]# mkfs.ext4 /dev/xvdh
nke2fs 1.42.9 (28-Dec-2013)
ilesystem label=
OS type: Linux
Block size=4096 (log=2)
ragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
55536 inodes, 262144 blocks
L3107 blocks (5.00%) reserved for the super user
irst data block=0
Maximum filesvstem blocks=268435456
3 block groups
32768 blocks per group, 32768 fragments per group
3192 inodes per group
Superblock backups stored on blocks:
       32768, 98304, 163840, 229376
Allocating group tables: done
Nriting inode tables: done
reating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done
```

Then mount the folder:

Mount/dev/xvdh /var/www/html

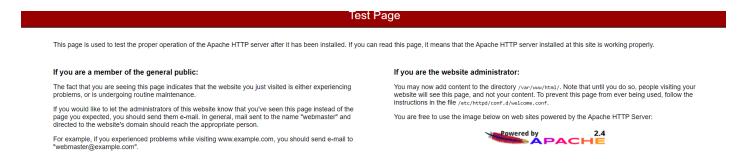
```
root@ip-172-31-2-46 ec2-user]# mount /dev/xvdh /var/www/html
root@ip-172-31-2-46 ec2-user]# df -h
              Size Used Avail Use% Mounted on
ilesystem
levtmpfs
                          482M
                                 0% /dev
              482M
mpfs
              492M
                          492M
                                 0% /dev/shm
mpfs
                          492M 1% /run
              492M 404K
mpfs
                       0 492M
                                 0% /sys/fs/cgroup
              492M
dev/xvda1
              8.0G 1.5G
                         6.6G 18% /
mpfs
               99M
                           99M
                                 0% /run/user/1000
dev/xvdh
                                 1% /var/www/html
              976M 2.6M
                          907M
```

```
[root@ip-172-31-2-46 ec2-user]# systemctl start httpd
[root@ip-172-31-2-46 ec2-user]# systemctl status httpd

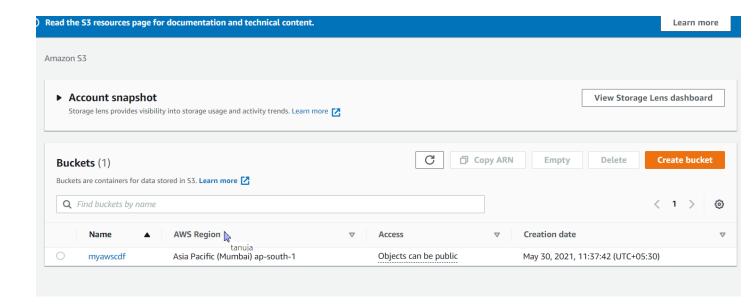
• httpd.service - The Apache HTTP Server
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
Active: active (running) since Sun 2021-05-30 05:59:55 UTC; 10s ago
Docs: man:httpd.service(8)

Main PID: 3578 (httpd)
Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
CGroup: /system.slice/httpd.service
-3578 /usr/sbin/httpd -DFOREGROUND
-3580 /usr/sbin/httpd -DFOREGROUND
-3581 /usr/sbin/httpd -DFOREGROUND
-3582 /usr/sbin/httpd -DFOREGROUND
-3583 /usr/sbin/httpd -DFOREGROUND
-3583 /usr/sbin/httpd -DFOREGROUND
```

On then testing we will get



 Creating a s3 bucket to upload the data files in it by changing the acess to public



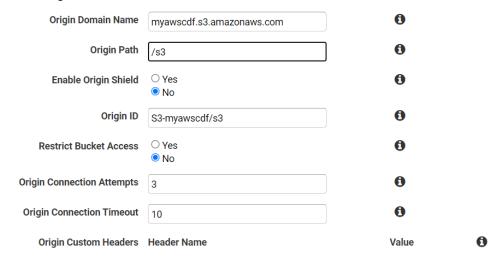
 Then we need to set up the cloud front to deliver the conent or data

Command:

aws cloudfront create-distribution —origin-domain-name webserver-cloudfront.s3.amazonaws.com

Create Distribution

Origin Settings





```
[root@ip-172-31-2-46 html]# vi index.html
[root@ip-172-31-2-46 html]# systemctl restart httpd
[root@ip-172-31-2-46 html]# vi index.html
[root@ip-172-31-2-46 html]# systemctl restart httpd
root@ip-172-31-2-46 html]# aws cloudfrontclient_loop: send disconne
C:\Users\muvva\Downloads>ssh -i "tasks.pem" ec2-user@13.233.158.234
ast login: Sun May 30 05:50:09 2021 from 160.238.74.241.
                     Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
 package(s) needed for security, out of 17 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-2-46 ~]$ sudo su
[root@ip-172-31-2-46 ec2-user]# cd /var/www/html
[root@ip-172-31-2-46 html]# ls
index.html lost+found
[root@ip-172-31-2-46 html]# vi index.html
[root@ip-172-31-2-46 html]# systemctl restart httpd
```

Now replace the domain named link with the original image