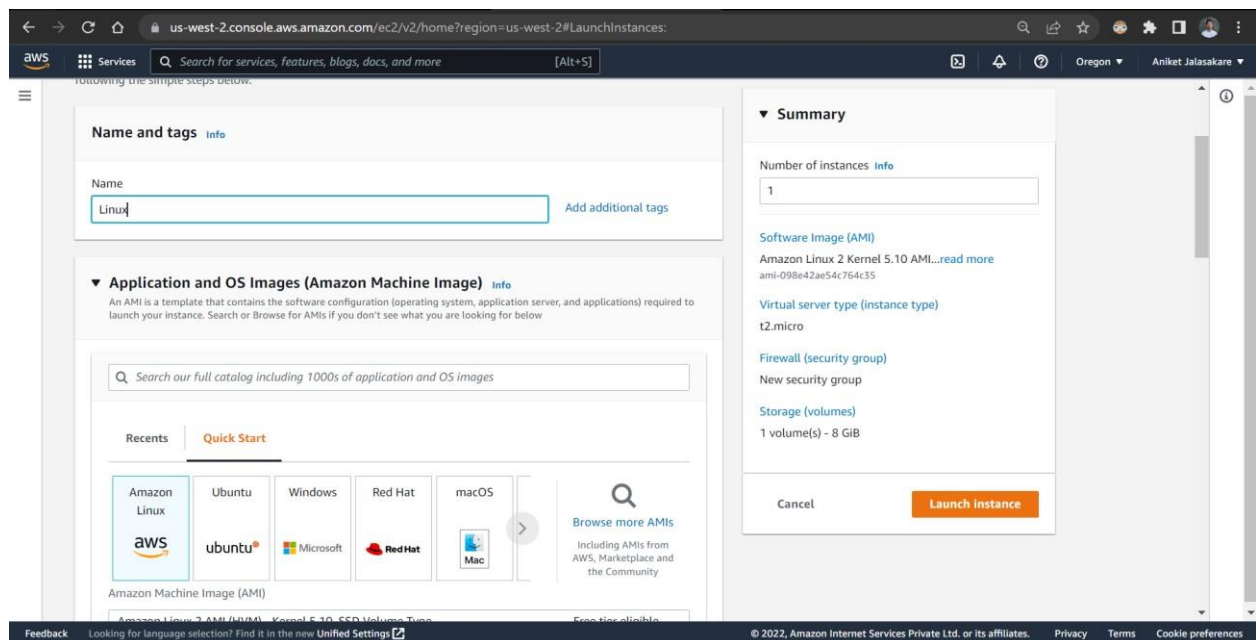


Name – Aniket Jalasakare

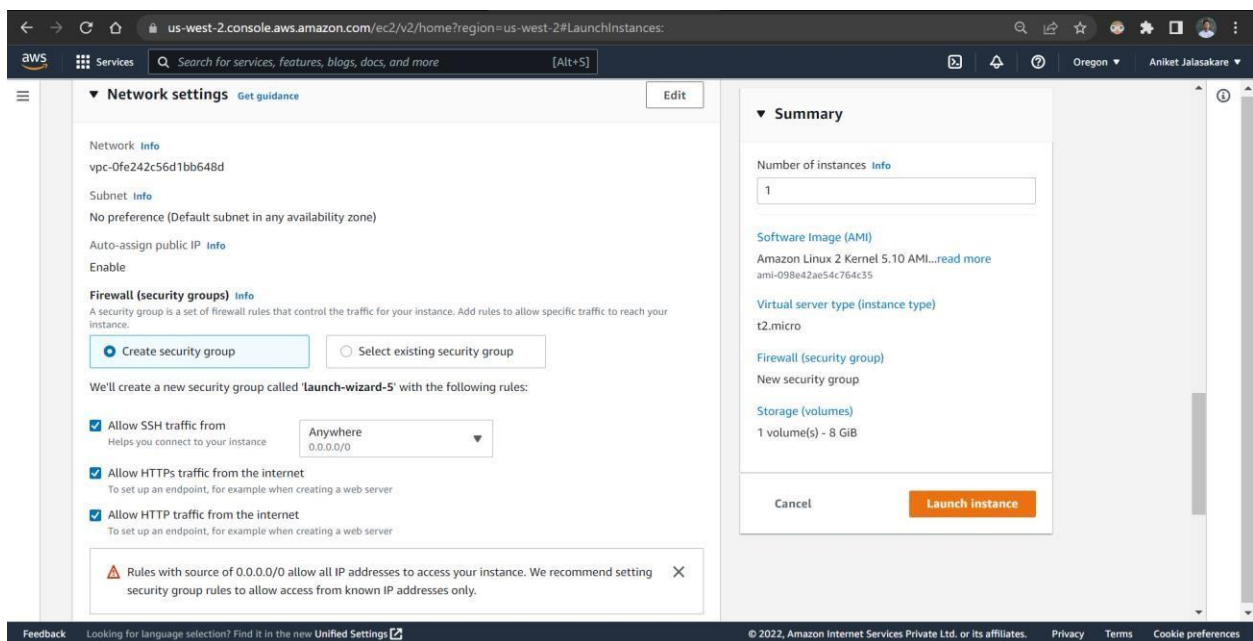
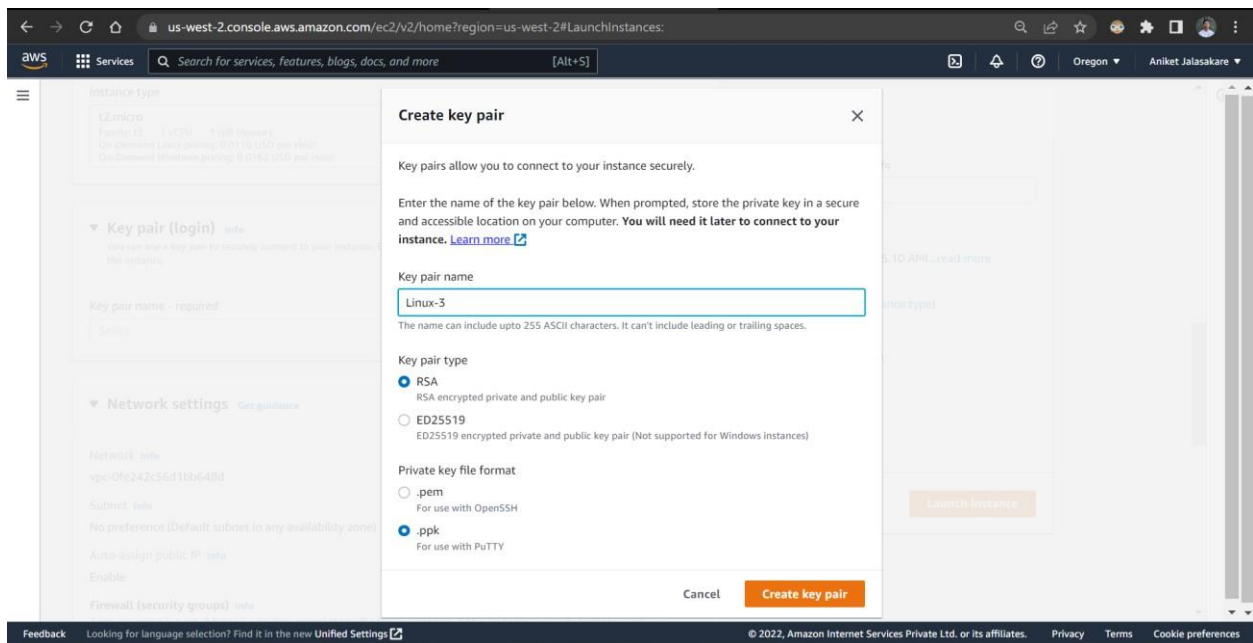
Roll No – 24

PRN – 1132210192

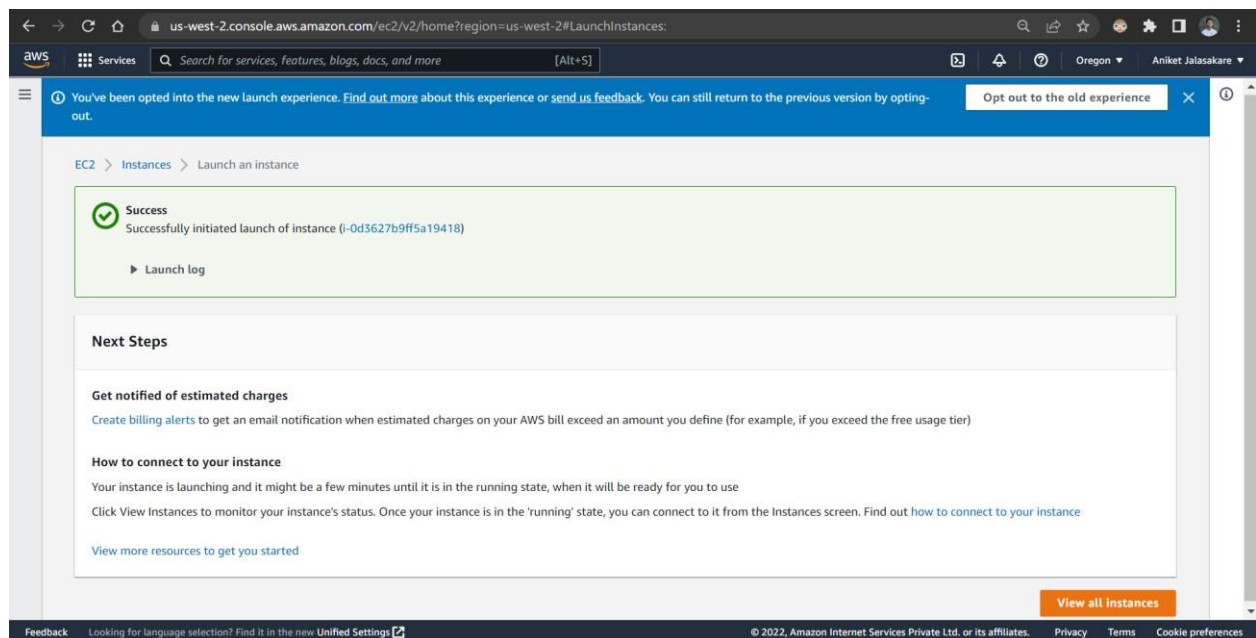
Connect EC2 Linux | T2 micro with Putty |
Windows or Linux Terminal >>> Practice
Basic Linux Commands



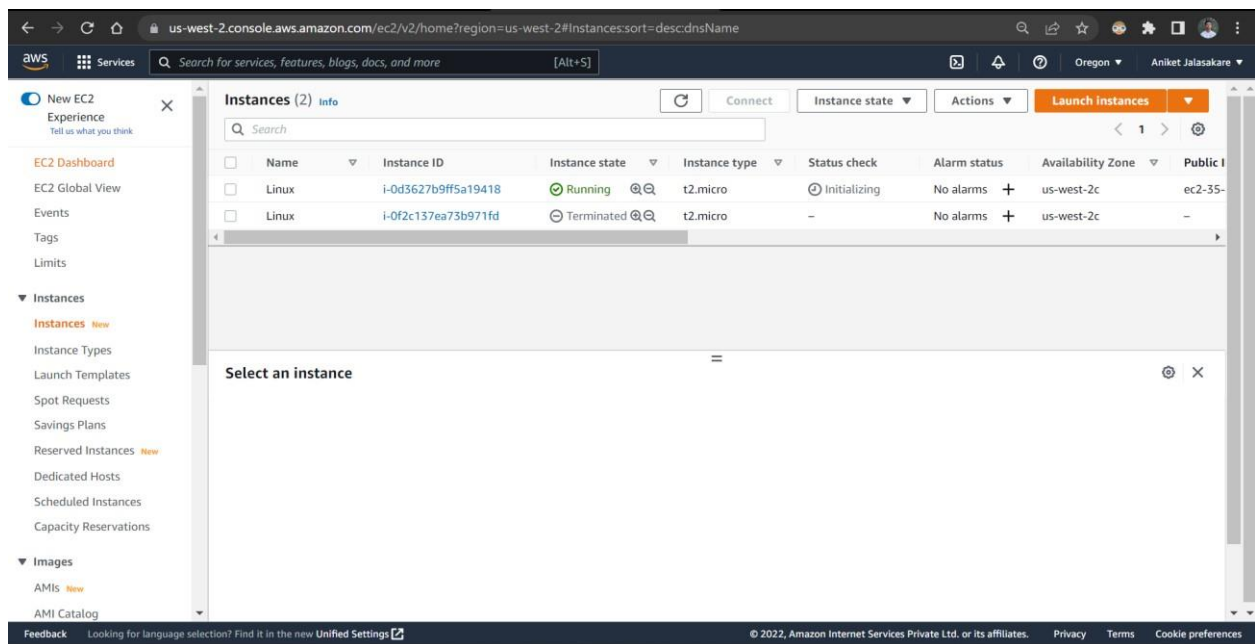
Create key-value pair



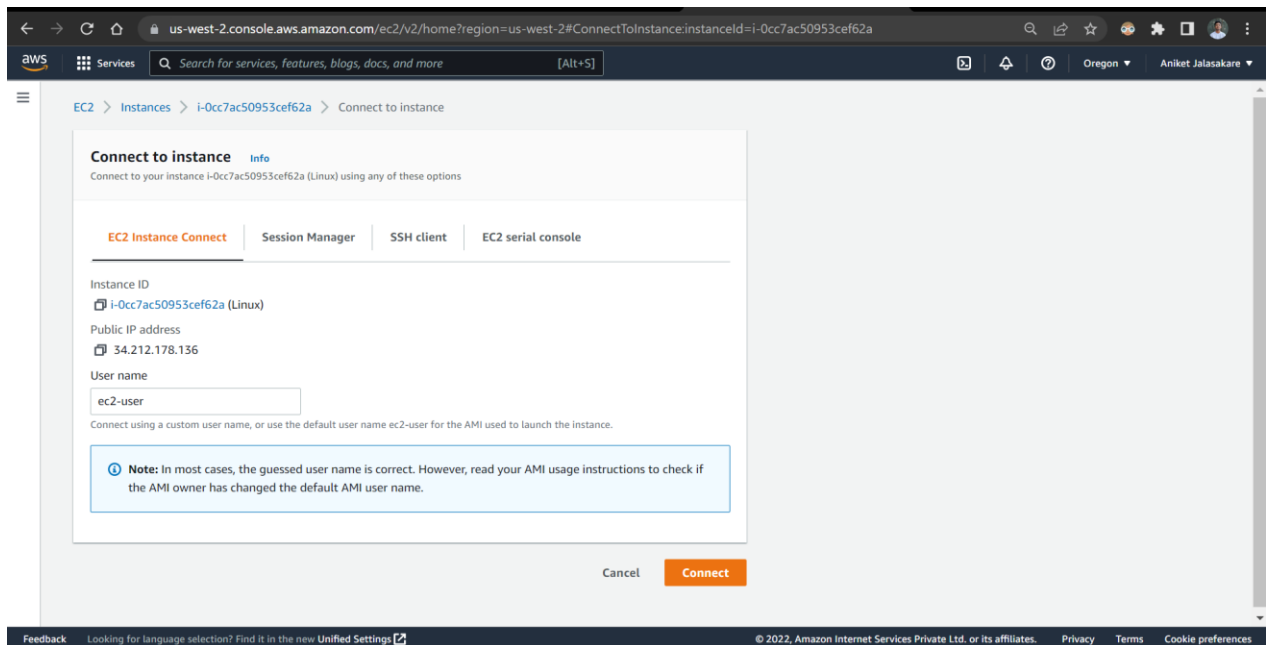
Launch Instance



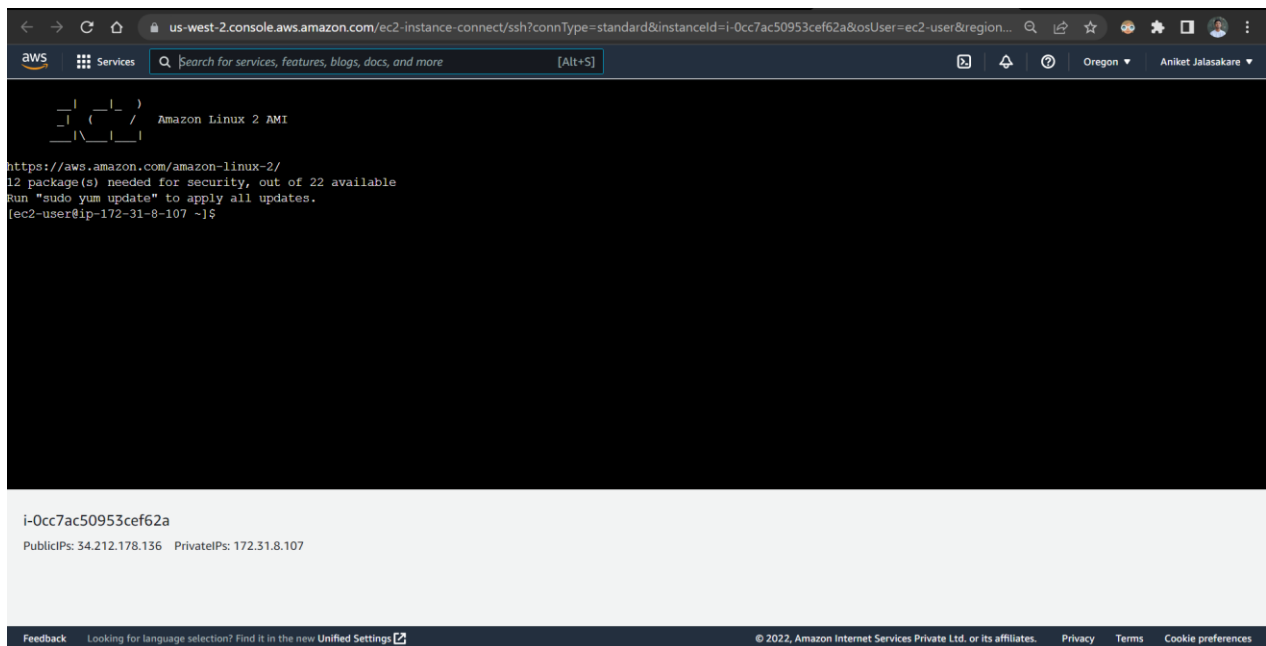
Launch and view all running instances



Connect to the Instance



Open Terminal in new window



Run command – pwd, whoami

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region=us-west-2

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
12 package(s) needed for security, out of 22 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-8-107 ~]$ pwd
/home/ec2-user
[ec2-user@ip-172-31-8-107 ~]$ whoami
ec2-user
[ec2-user@ip-172-31-8-107 ~]$
```

Run man cd

```
[ec2-user@ip-172-31-8-107 ~]$ man cd
[ec2-user@ip-172-31-8-107 ~]$
```

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region=us-west-2

BASH_BUILTINS(1)                                     General Commands Manual                                     BASH_BUILTINS(1)

NAME
  bash, :, ., [, alias, bg, bind, break, builtin, caller, cd, command, compgen, complete, compopt, continue, declare, dirs, disown, echo, enable, eval, exec, exit,
  export, false, fc, fg, getopts, hash, help, history, jobs, kill, let, local, logout, mapfile, popd, printf, pushd, pwd, read, readonly, return, set, shift,
  shopt, source, suspend, test, times, trap, true, type, typeset, ulimit, umask, unalias, unset, wait - bash built-in commands, see bash(1)

BASH BUILTIN COMMANDS
  Unless otherwise noted, each builtin command documented in this section as accepting options preceded by - accepts -- to signify the end of the options. The :,
  true, false, and test builtins do not accept options and do not treat -- specially. The exit, logout, break, continue, let, and shift builtins accept and
  process arguments beginning with - without requiring --. Other builtins that accept arguments but are not specified as accepting options interpret arguments
  beginning with - as invalid options and require -- to prevent this interpretation.
  : [arguments]
    No effect; the command does nothing beyond expanding arguments and performing any specified redirections. A zero exit code is returned.
  . filename [arguments]
  source filename [arguments]
    Read and execute commands from filename in the current shell environment and return the exit status of the last command executed from filename. If file-
    name does not contain a slash, file names in PATH are used to find the directory containing filename. The file searched for in PATH need not be exe-
    cutable. When bash is not in posix mode, the current directory is searched if no file is found in PATH. If the sourcepath option to the shopt builtin
    command is turned off, the PATH is not searched. If any arguments are supplied, they become the positional parameters when filename is executed. Other-
    wise the positional parameters are unchanged. The return status is the status of the last command exited within the script (0 if no commands are exe-
    cuted), and false if filename is not found or cannot be read.
  alias [-p] [name[=value] ...]
Manual page cd(1) line 1 (press h for help or q to quit)

i-0cc7ac50953cef62a
PublicIPs: 34.212.178.136 PrivateIPs: 172.31.8.107

Feedback Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences
```

Create a directory using mkdir

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
AWS Services Search for services, features, blogs, docs, and more [Alt+S] Oregon Aniket Jalsakare
[ec2-user@ip-172-31-8-107 ~]$ mkdir aniket
[ec2-user@ip-172-31-8-107 ~]$ ls
aniket
[ec2-user@ip-172-31-8-107 ~]$
```

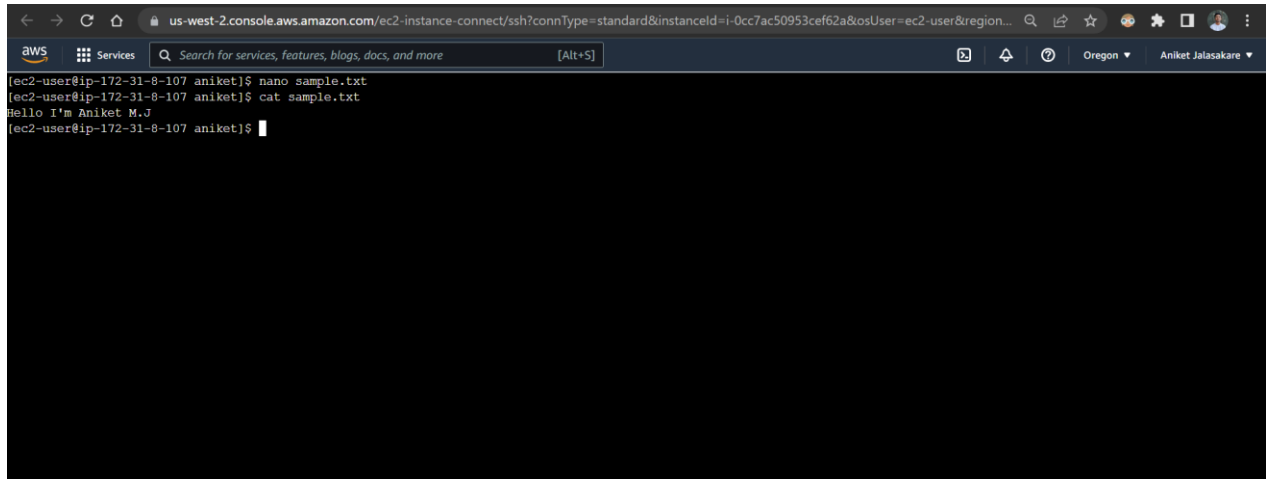
Run ls -l, ls -la

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
AWS Services Search for services, features, blogs, docs, and more [Alt+S] Oregon Aniket Jalsakare
[ec2-user@ip-172-31-8-107 ~]$ mkdir aniket
[ec2-user@ip-172-31-8-107 ~]$ ls
aniket
[ec2-user@ip-172-31-8-107 ~]$ ls -l
total 0
drwxrwxr-x 2 ec2-user ec2-user 6 Jul 28 13:51 aniket
[ec2-user@ip-172-31-8-107 ~]$ ls -la
total 12
drwx----- 4 ec2-user ec2-user 88 Jul 28 13:51 .
drwxr-xr-x 3 root root 22 Jul 28 13:42 ..
drwxrwxr-x 2 ec2-user ec2-user 6 Jul 28 13:51 aniket
-rw-r--r-- 1 ec2-user ec2-user 18 Jul 15 2020 .bash_logout
-rw-r--r-- 1 ec2-user ec2-user 193 Jul 15 2020 .bash_profile
-rw-r--r-- 1 ec2-user ec2-user 231 Jul 15 2020 .bashrc
drwx----- 2 ec2-user ec2-user 29 Jul 28 13:42 .ssh
[ec2-user@ip-172-31-8-107 ~]$
```

Move to newly created directory and create a text file

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
AWS Services Search for services, features, blogs, docs, and more [Alt+S] Oregon Aniket Jalsakare
[ec2-user@ip-172-31-8-107 ~]$ ls
aniket
[ec2-user@ip-172-31-8-107 ~]$ cd aniket
[ec2-user@ip-172-31-8-107 aniket]$ touch sample.txt
[ec2-user@ip-172-31-8-107 aniket]$ ls
sample.txt
[ec2-user@ip-172-31-8-107 aniket]$
```

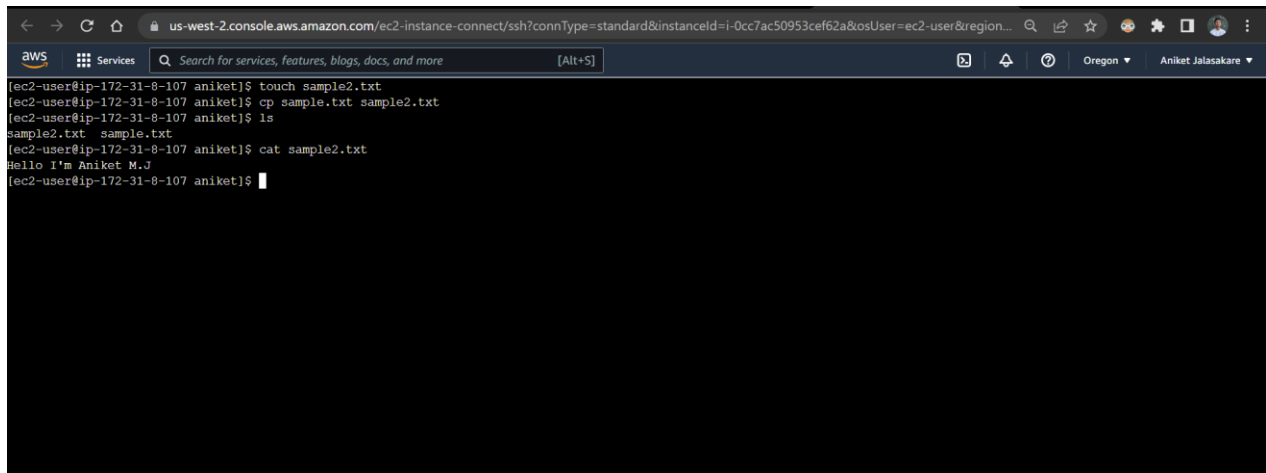
Edit the text file and add some content



A screenshot of the AWS Management Console terminal window. The terminal shows a user named 'aniket' on an EC2 instance. The user has created a file named 'sample.txt' using the 'nano' editor and added the content 'Hello I'm Aniket M.J'. The terminal output is as follows:

```
[ec2-user@ip-172-31-8-107 aniket]$ nano sample.txt
[ec2-user@ip-172-31-8-107 aniket]$ cat sample.txt
Hello I'm Aniket M.J
[ec2-user@ip-172-31-8-107 aniket]$
```

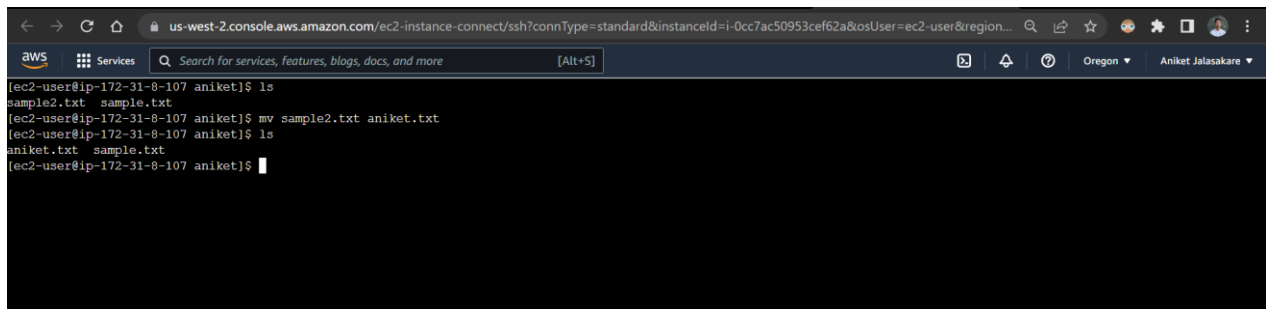
Copy the text file and view contents from it



A screenshot of the AWS Management Console terminal window. The user 'aniket' has copied 'sample.txt' to 'sample2.txt' and viewed its contents using the 'cat' command. The terminal output is as follows:

```
[ec2-user@ip-172-31-8-107 aniket]$ touch sample2.txt
[ec2-user@ip-172-31-8-107 aniket]$ cp sample.txt sample2.txt
[ec2-user@ip-172-31-8-107 aniket]$ ls
sample2.txt  sample.txt
[ec2-user@ip-172-31-8-107 aniket]$ cat sample2.txt
Hello I'm Aniket M.J
[ec2-user@ip-172-31-8-107 aniket]$
```

Rename sample2.txt to aniket.txt



A screenshot of the AWS Management Console terminal window. The user 'aniket' has renamed 'sample2.txt' to 'aniket.txt' using the 'mv' command. The terminal output is as follows:

```
[ec2-user@ip-172-31-8-107 aniket]$ ls
sample2.txt  sample.txt
[ec2-user@ip-172-31-8-107 aniket]$ mv sample2.txt aniket.txt
[ec2-user@ip-172-31-8-107 aniket]$ ls
aniket.txt  sample.txt
[ec2-user@ip-172-31-8-107 aniket]$
```

Add new lines using echo command and view the contents

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region=us-west-2
[ec2-user@ip-172-31-8-107 ~]$ cd aniket
[ec2-user@ip-172-31-8-107 aniket]$ echo My college name is MIT WPU >> sample.txt
[ec2-user@ip-172-31-8-107 aniket]$ ls
aniket.txt  sample.txt
[ec2-user@ip-172-31-8-107 aniket]$ cat aniket.txt
Hello I'm Aniket M.J
[ec2-user@ip-172-31-8-107 aniket]$ cat sample.txt
Hello I'm Aniket M.J
My college name is MIT WPU
[ec2-user@ip-172-31-8-107 aniket]$
```

Run df -m

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region=us-west-2
[ec2-user@ip-172-31-8-107 aniket]$ df
Filesystem      1K-blocks    Used Available Use% Mounted on
devtmpfs         485340         0   485340   0% /dev
tmpfs            494336         0   494336   0% /dev/shm
tmpfs            494336    464   493872   1% /run
tmpfs            494336         0   494336   0% /sys/fs/cgroup
/dev/xvda1      8376300 1628628   6747672  20% /
tmpfs            98868         0    98868   0% /run/user/1000
tmpfs            98868         0    98868   0% /run/user/0
[ec2-user@ip-172-31-8-107 aniket]$ df -m
Filesystem      1M-blocks    Used Available Use% Mounted on
devtmpfs         474         0     474   0% /dev
tmpfs            483         0     483   0% /dev/shm
tmpfs            483         1     483   1% /run
tmpfs            483         0     483   0% /sys/fs/cgroup
/dev/xvda1      8180 1591   6590  20% /
tmpfs            97         0     97   0% /run/user/1000
tmpfs            97         0     97   0% /run/user/0
[ec2-user@ip-172-31-8-107 aniket]$
```

Run uname -a

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region=us-west-2
[ec2-user@ip-172-31-8-107 aniket]$ uname -a
Linux ip-172-31-8-107.us-west-2.compute.internal 5.10.118-111.515.amzn2.x86_64 #1 SMP Wed May 25 22:12:19 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
[ec2-user@ip-172-31-8-107 aniket]$
```

Run hostname

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region=us-west-2
[ec2-user@ip-172-31-8-107 aniket]$ hostname
ip-172-31-8-107.us-west-2.compute.internal
[ec2-user@ip-172-31-8-107 aniket]$
```

Run ping command


```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
[ec2-user@ip-172-31-8-107 aniket]$ ping www.google.com
PING www.google.com (142.251.215.228) 56(84) bytes of data:
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=1 ttl=104 time=9.06 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=2 ttl=104 time=9.16 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=3 ttl=104 time=9.19 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=4 ttl=104 time=9.10 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=5 ttl=104 time=9.14 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=6 ttl=104 time=9.15 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=7 ttl=104 time=9.20 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=8 ttl=104 time=9.14 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=9 ttl=104 time=9.14 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=10 ttl=104 time=9.12 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=11 ttl=104 time=9.16 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=12 ttl=104 time=9.08 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=13 ttl=104 time=9.09 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=14 ttl=104 time=9.24 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=15 ttl=104 time=9.16 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=16 ttl=104 time=9.16 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=17 ttl=104 time=9.13 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=18 ttl=104 time=9.17 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=19 ttl=104 time=9.10 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=20 ttl=104 time=9.09 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=21 ttl=104 time=9.14 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=22 ttl=104 time=9.11 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=23 ttl=104 time=9.21 ms
64 bytes from sea09s35-in-f4.1e100.net (142.251.215.228): icmp_seq=24 ttl=104 time=9.10 ms
```

Install net-tools

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
[ec2-user@ip-172-31-8-107 aniket]$ sudo yum -y install net-tools
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
Package net-tools-2.0-0.22.20131004git.amzn2.0.2.x86_64 already installed and latest version
Nothing to do
[ec2-user@ip-172-31-8-107 aniket]$
```

Check netstat

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
[ec2-user@ip-172-31-8-107 aniket]$ sudo netstat -anp | grep tcp | grep LISTEN
tcp        0      0 0.0.0.0:111          0.0.0.0:*           LISTEN      2585/rpcbind
tcp        0      0 0.0.0.0:22          0.0.0.0:*           LISTEN      3266/sshd
tcp        0      0 127.0.0.1:25        0.0.0.0:*           LISTEN      3029/master
tcp6       0      0 :::111             :::*                LISTEN      2585/rpcbind
tcp6       0      0 :::22              :::*                LISTEN      3266/sshd
[ec2-user@ip-172-31-8-107 aniket]$
```

Remove aniket.txt

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
[ec2-user@ip-172-31-8-107 aniket]$ ls
aniket.txt  sample.txt
[ec2-user@ip-172-31-8-107 aniket]$ rm aniket.txt
[ec2-user@ip-172-31-8-107 aniket]$ ls
sample.txt
[ec2-user@ip-172-31-8-107 aniket]$
```

Remove directory named aniket

```
us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0cc7ac50953cef62a&osUser=ec2-user&region...
aws Services Search for services, features, blogs, docs, and more [Alt+S] Oregon Aniket Jalsakare
[ec2-user@ip-172-31-8-107 ~]$ ls
aniket
[ec2-user@ip-172-31-8-107 ~]$ rmdir aniket
[ec2-user@ip-172-31-8-107 ~]$ ls
[ec2-user@ip-172-31-8-107 ~]$
```