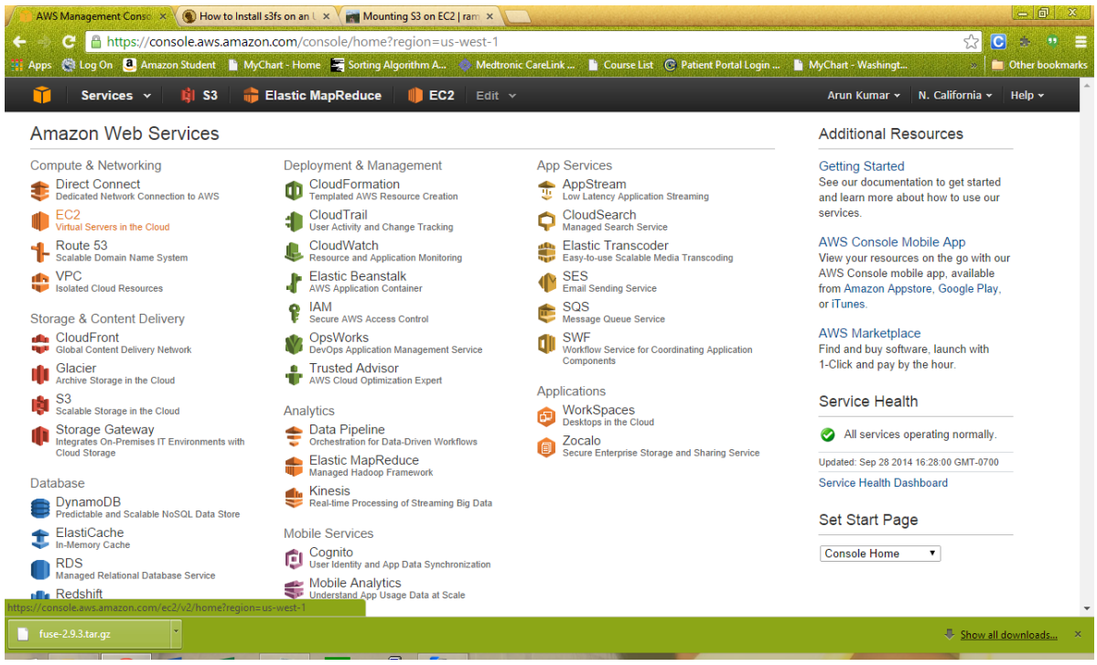
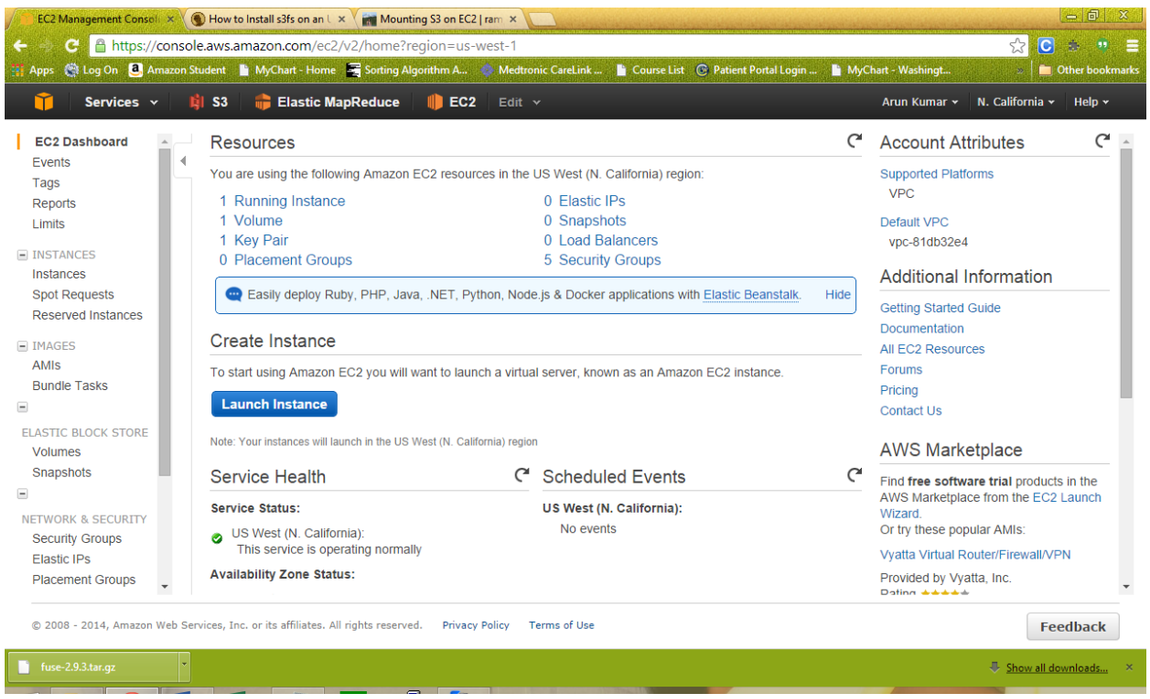
How to create an EC2 instance and mount S3 bucket using FUSE.

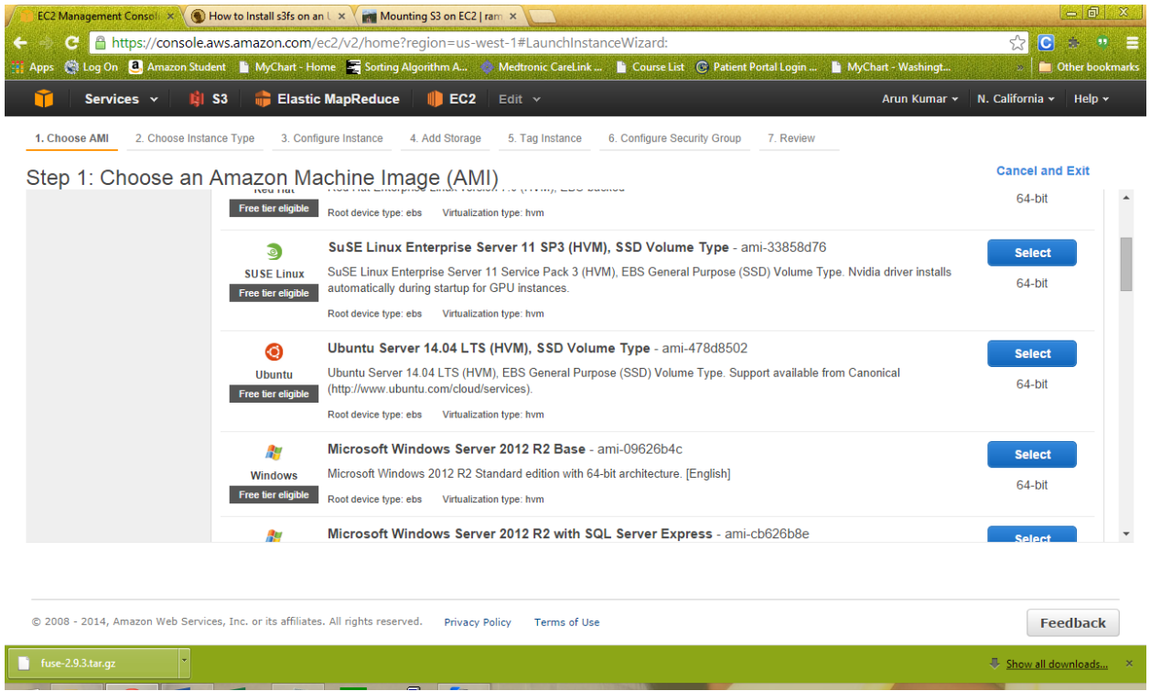
1. Click EC2 on AWS console page.



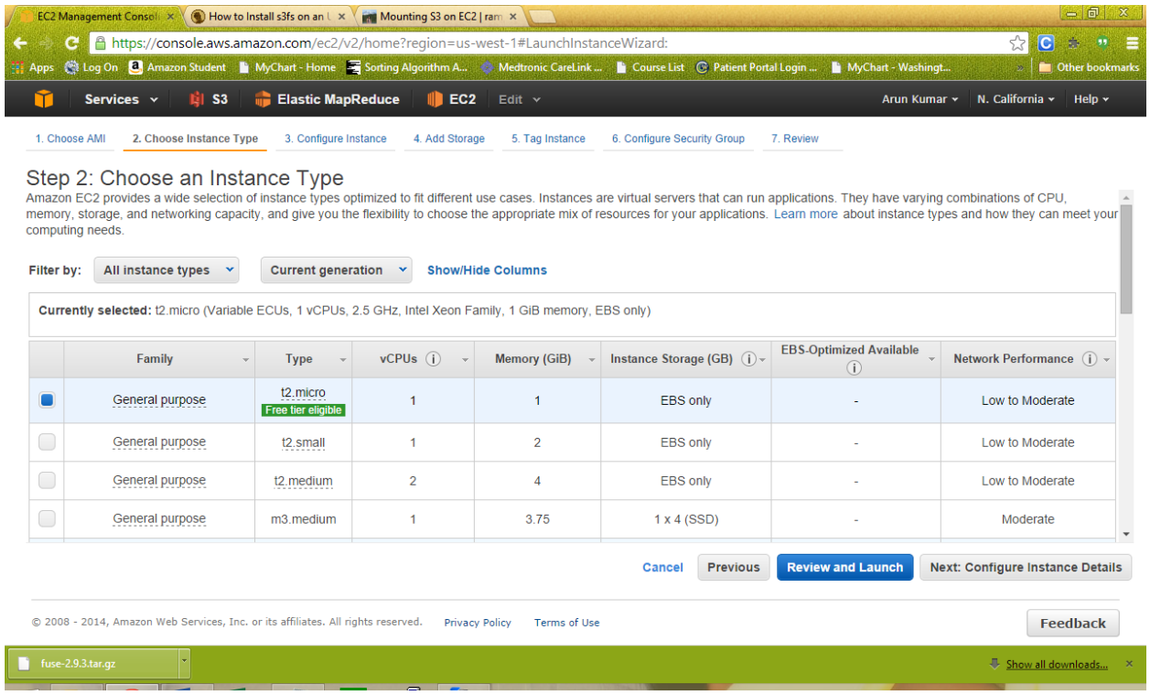
2. Click on Launch instance to create a new EC2 machine.



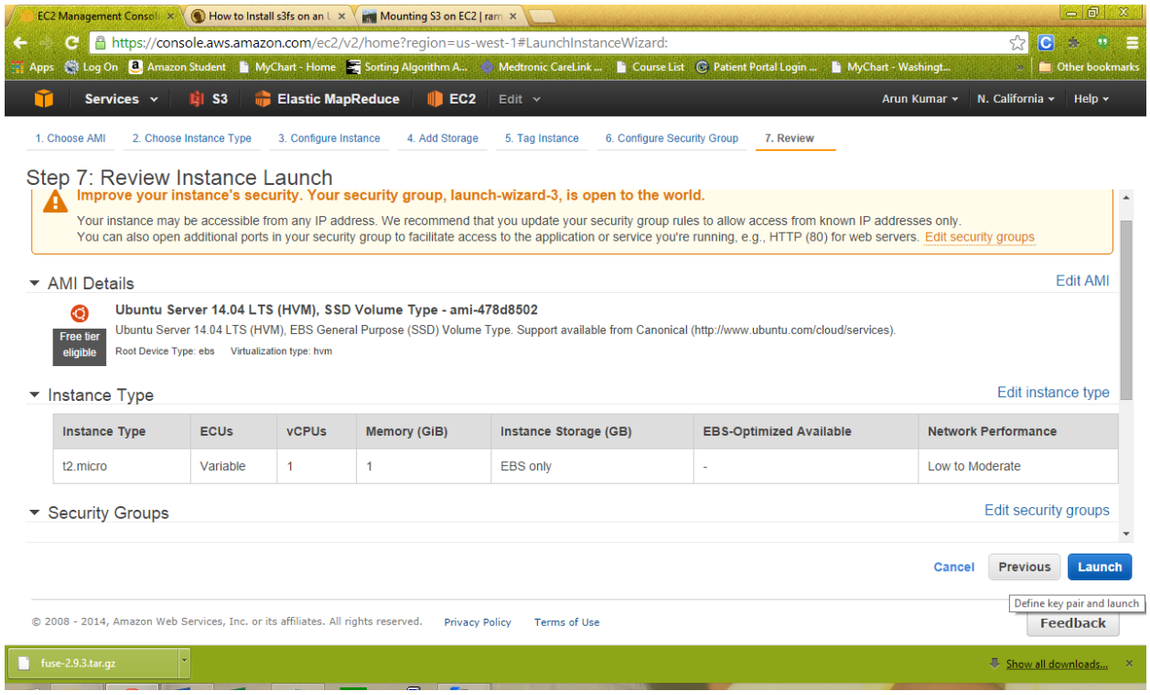
3. Select Ubuntu from the list (includes in free tier)



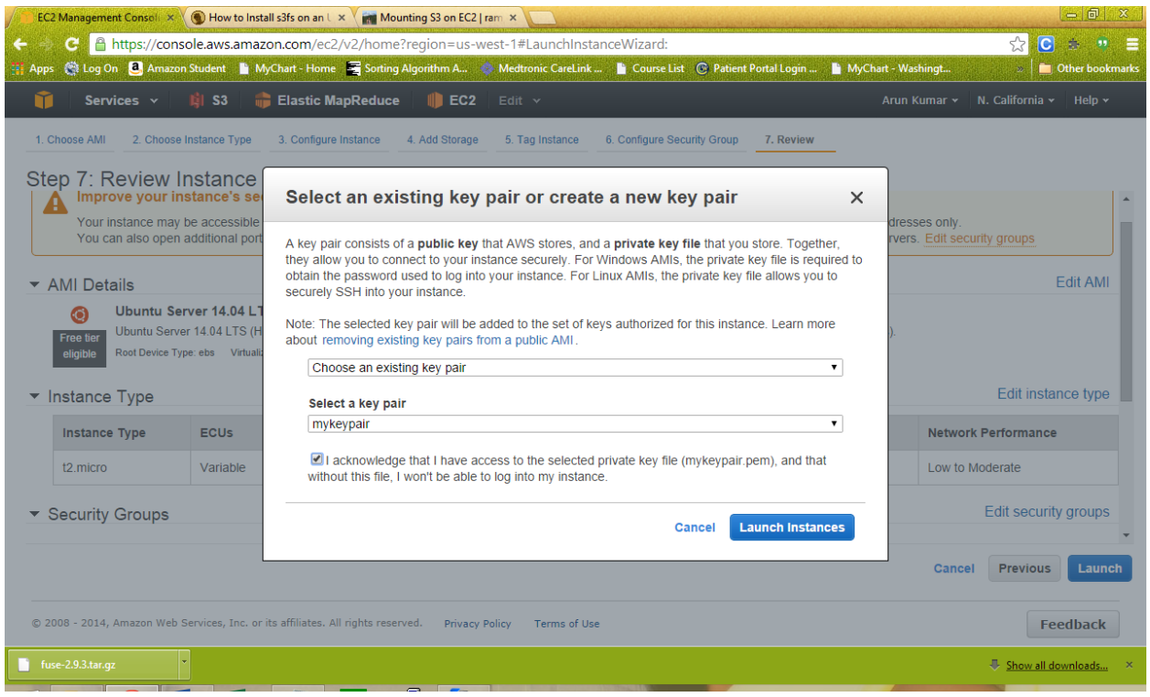
4. Select the default configuration and click on review and launch



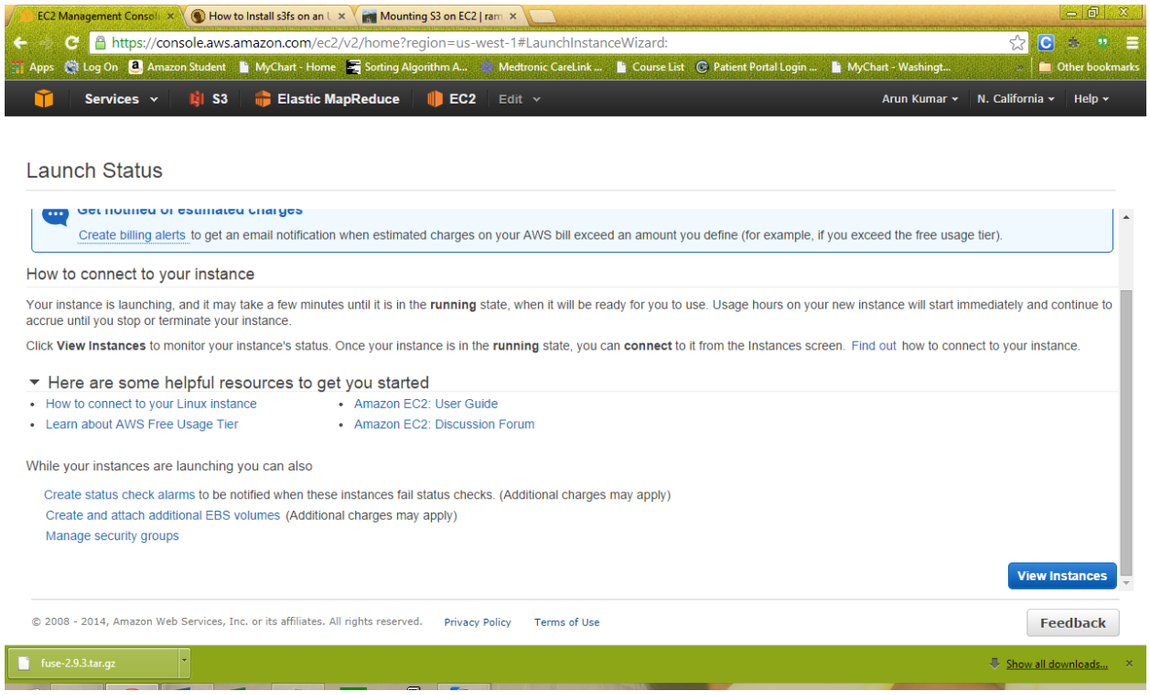
5. Click on launch



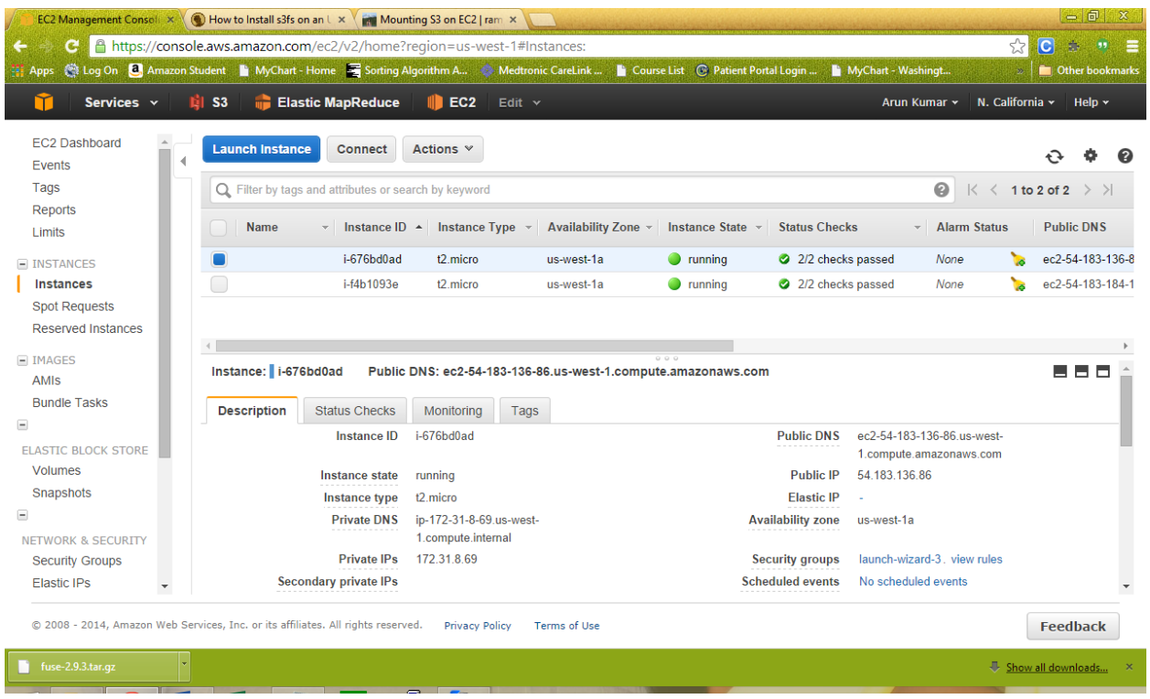
6. Load your existing key pair



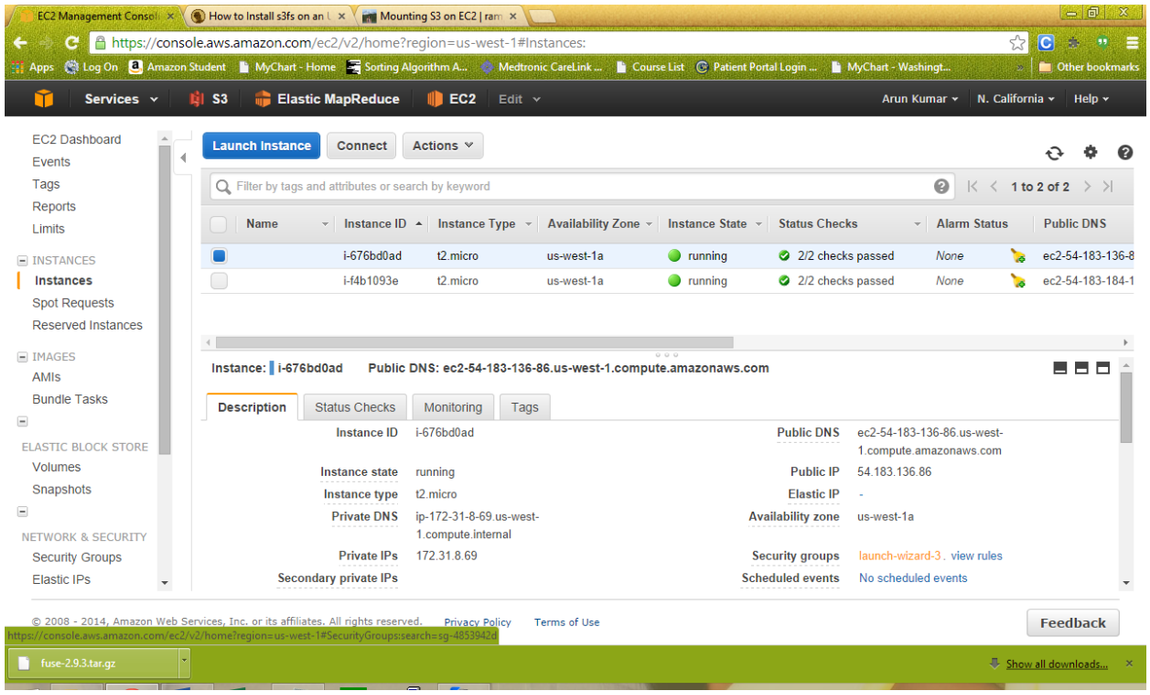
7. After launch, click on view instances



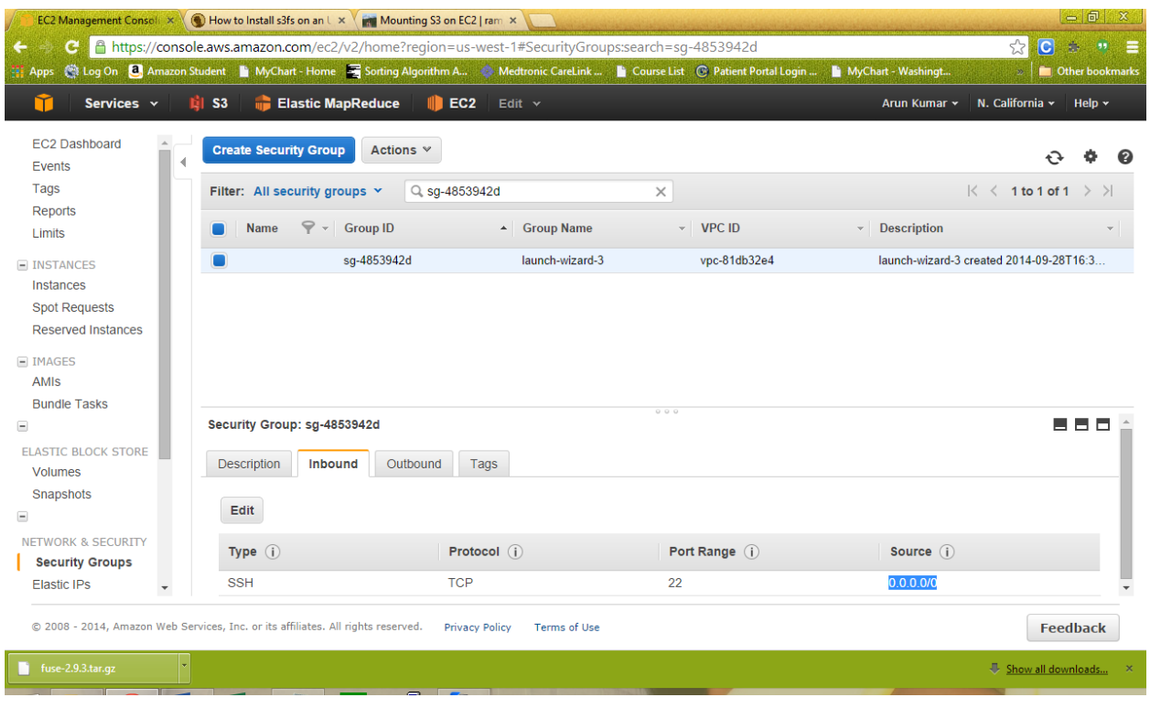
8. Click on the instance you just created to see the properties of the machine



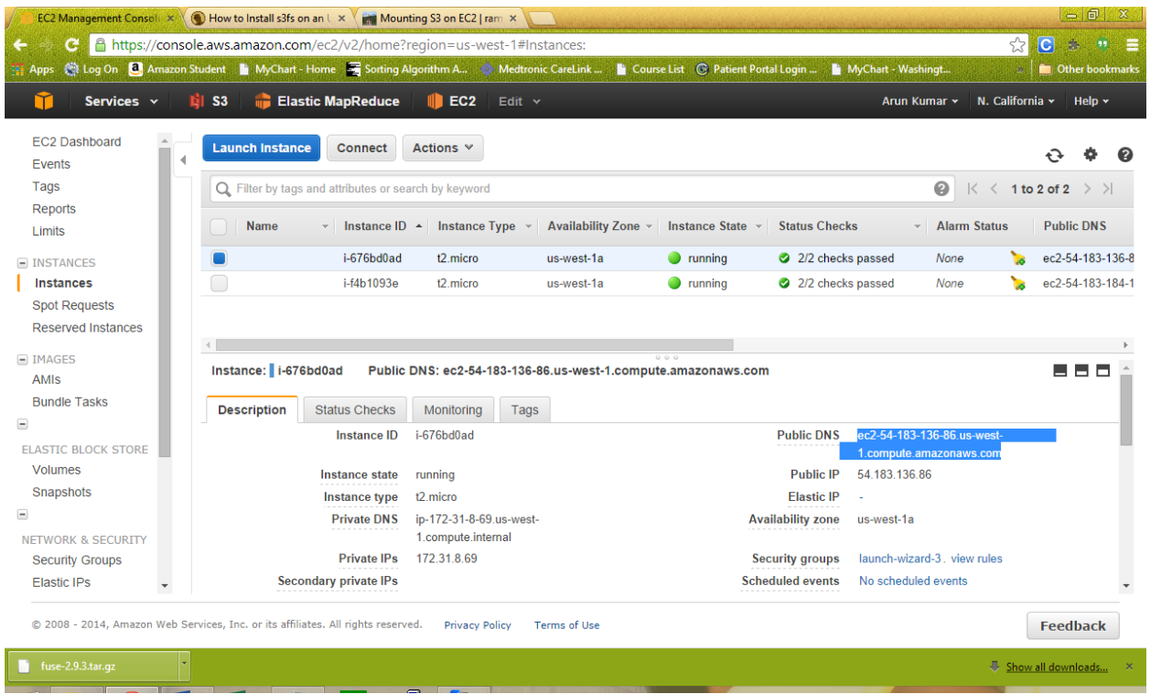
9. Click on security group to review the incoming traffic.



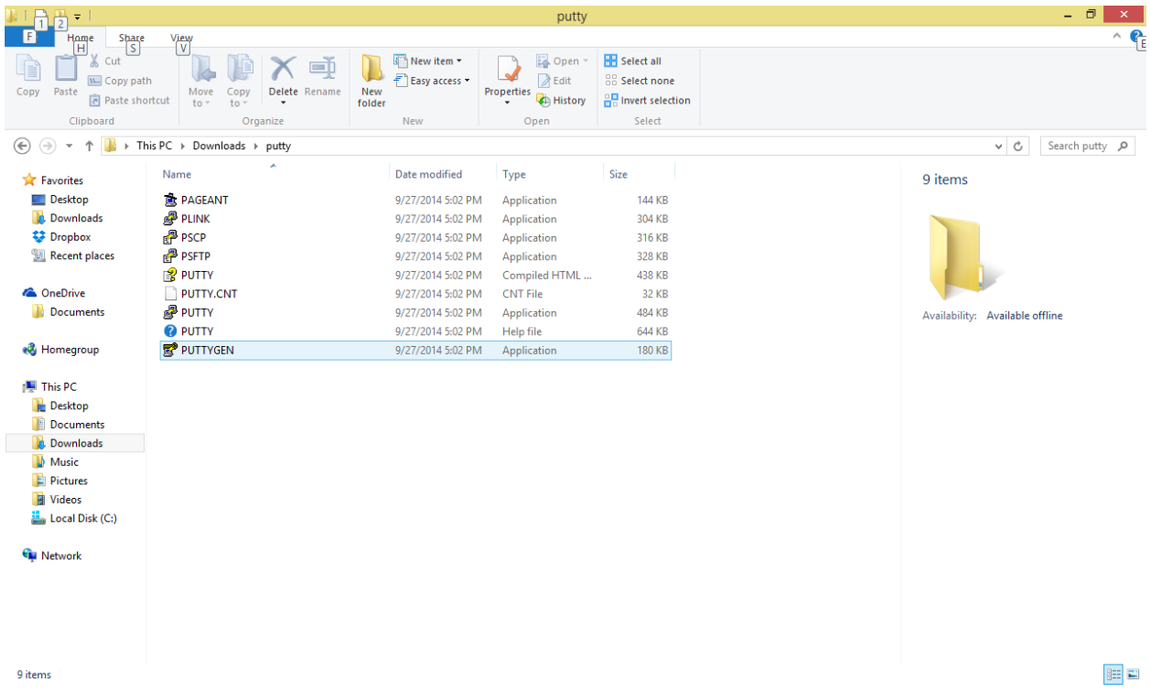
10. Inbound traffic should set to your IP address, 0.0.0.0 means anybody can access this machine. We will set to 0.0.0.0 (default) for testing purpose.



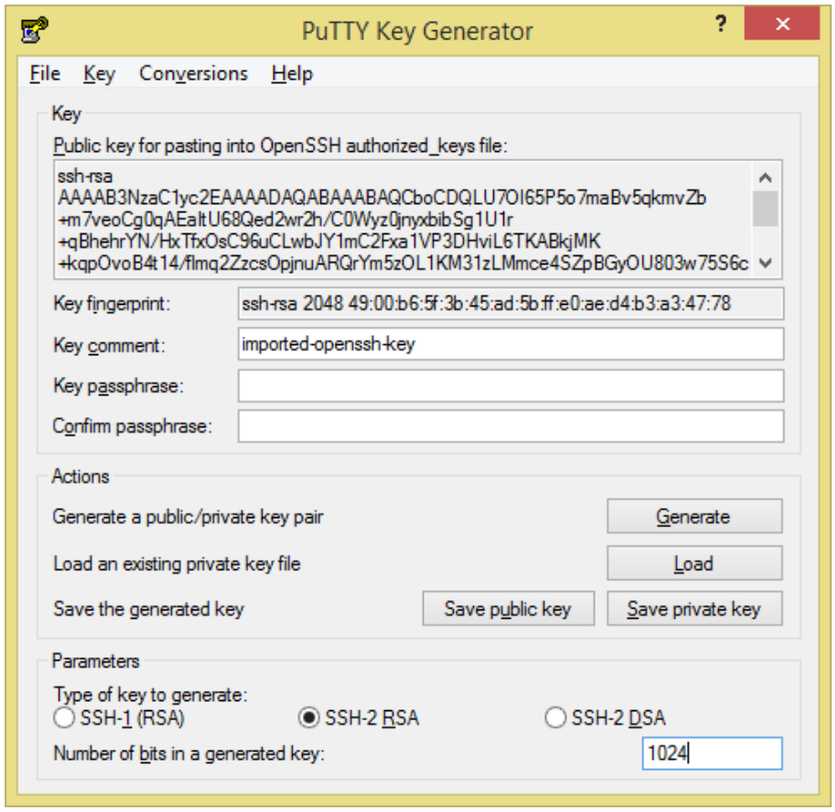
11. Note down the public DNS address. This will be our host name when we connect using putty.



12. I believe we have already downloaded the keypair while creating the security pair. Putty will not recognize .pem. So we need to convert .pem file to .ppk. This can be done by PUTTYGEN softwate (available under putty installation folder)

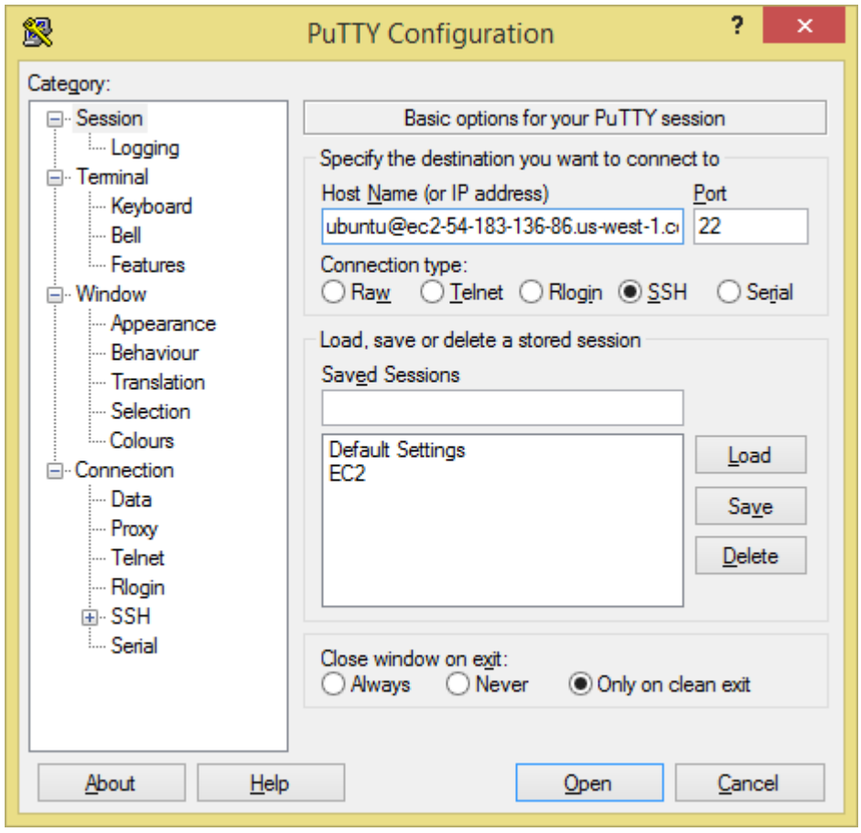


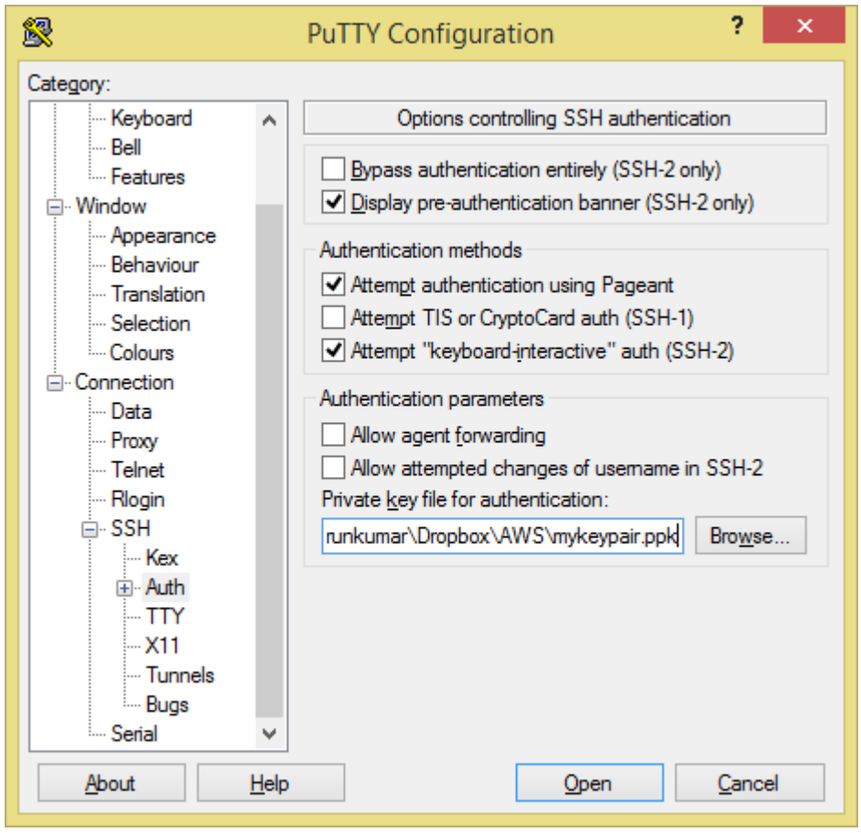
13. Load .pem file and click on 'save private key'. This will generate .ppk

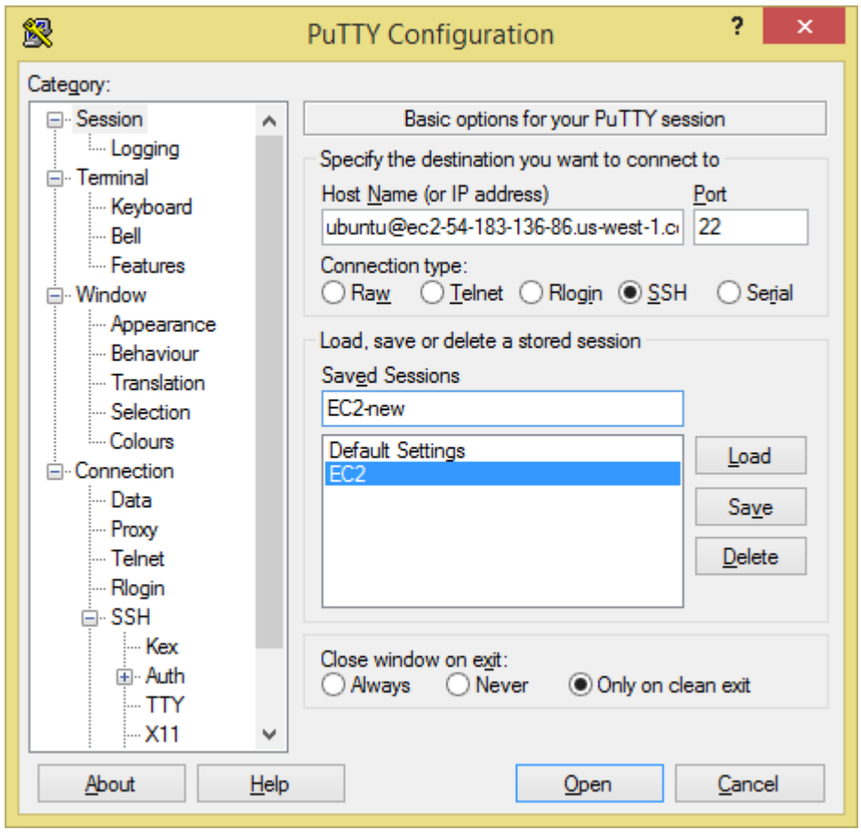


14. We can connect to our new EC2 machine using putty. Given hostname as user@PublicDNSName.
Under SSH,Auth browse and locate the .ppk file we created.

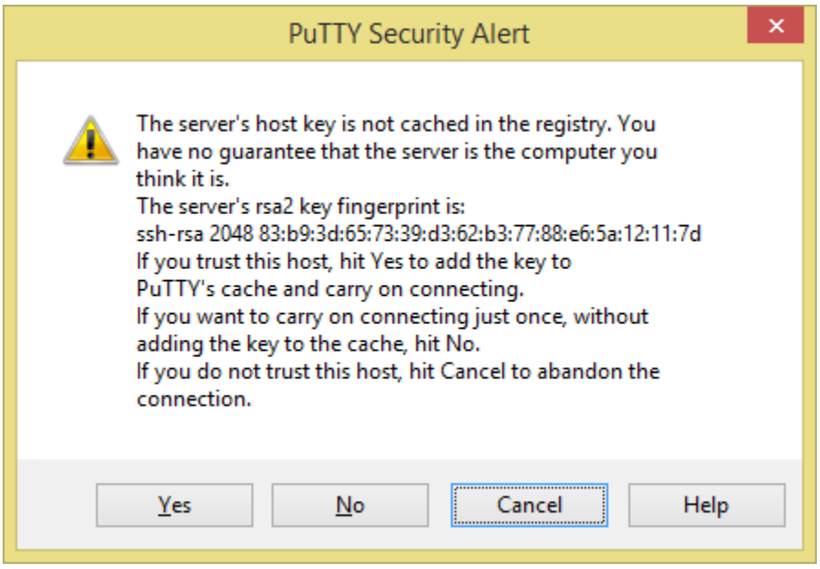
Save the configuration and click on open



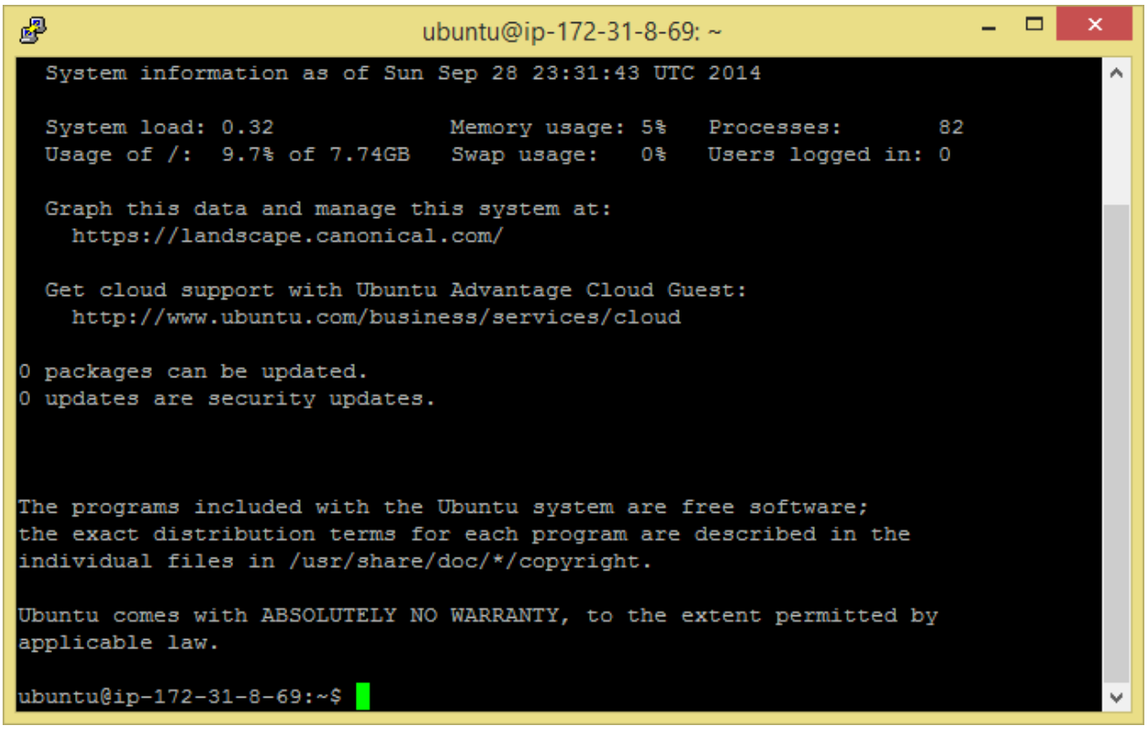

PuTTY Configuration
Category:
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Auth
TTY
X11
Tunnels
Bugs
Serial
Options controlling SSH authentication
Bypass authentication entirely (SSH-2 only)
Display pre-authentication banner (SSH-2 only)
Authentication methods
Attempt authentication using Pageant
Attempt TIS or CryptoCard auth (SSH-1)
Attempt "keyboard-interactive" auth (SSH-2)
Authentication parameters
Allow agent forwarding
Allow attempted changes of username in SSH-2
Private key file for authentication:
runkumar\Dropbox\AWS\mykeypair.ppk
Browse...
About
Help
Open
Cancel


PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Auth
TTY
X11
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
ubuntu@ec2-54-183-136-86.us-west-1.c
22
Connection type:
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
EC2-new
Default Settings
EC2
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel

15. Click on Yes for security Alert.

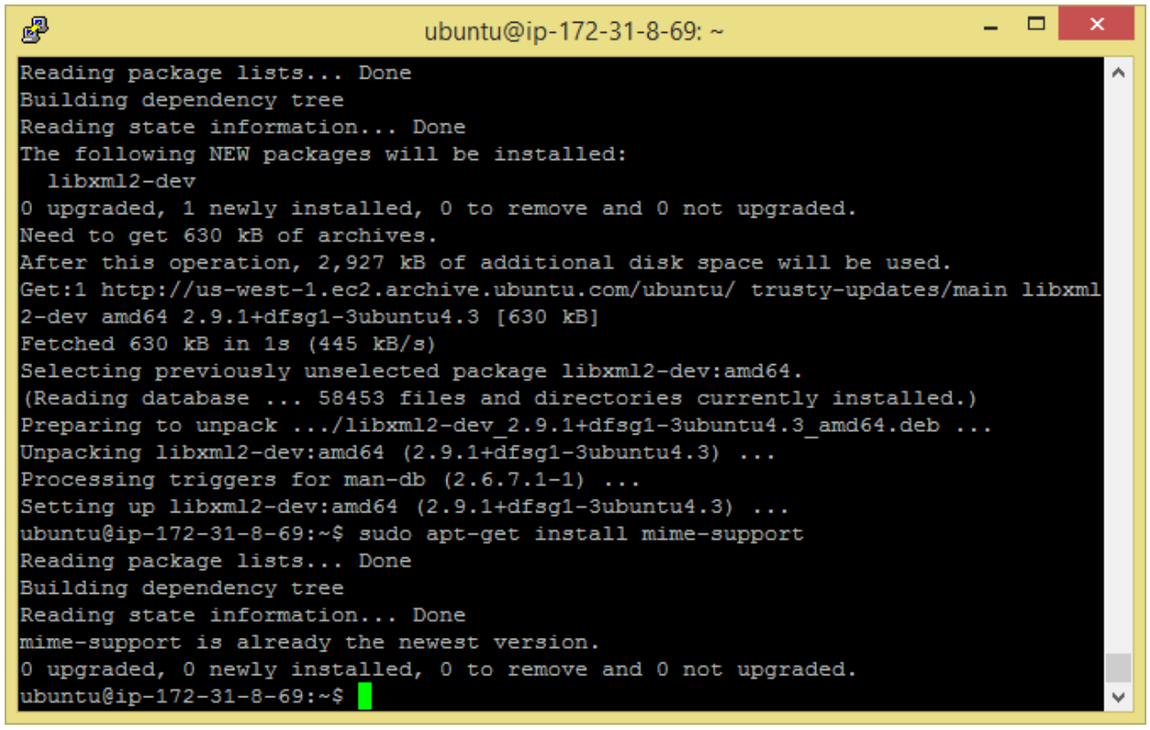


16. Now you have connected to EC2 instance.



17. Download the tools required for building FUSE

```
sudo apt-get install build-essential
 if you a see a warning/error like

" : E: Unable to fetch some archives, maybe run apt-get update or try with --
fix-missing? "

run the following :
1. sudo apt-get update
2. sudo apt-get update --fix-missing

sudo apt-get install libfuse-dev
sudo apt-get install libcurl4-openssl-dev
sudo apt-get install libxml2-dev
sudo apt-get install mime-support
```

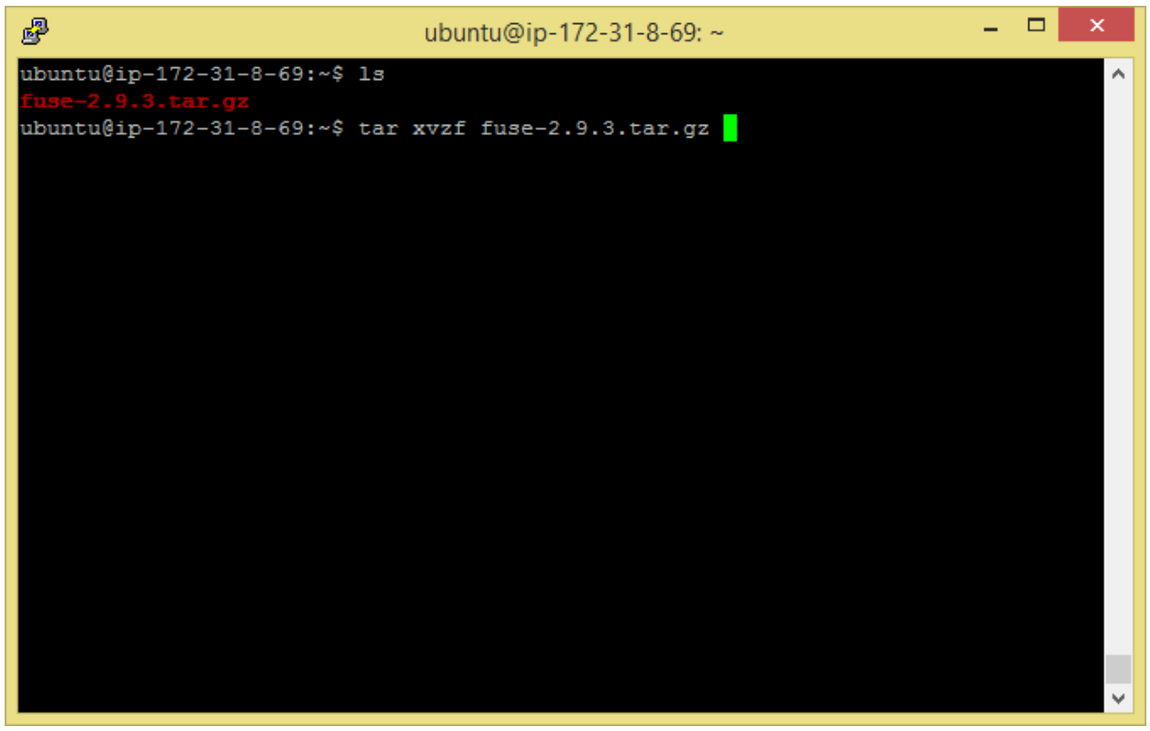


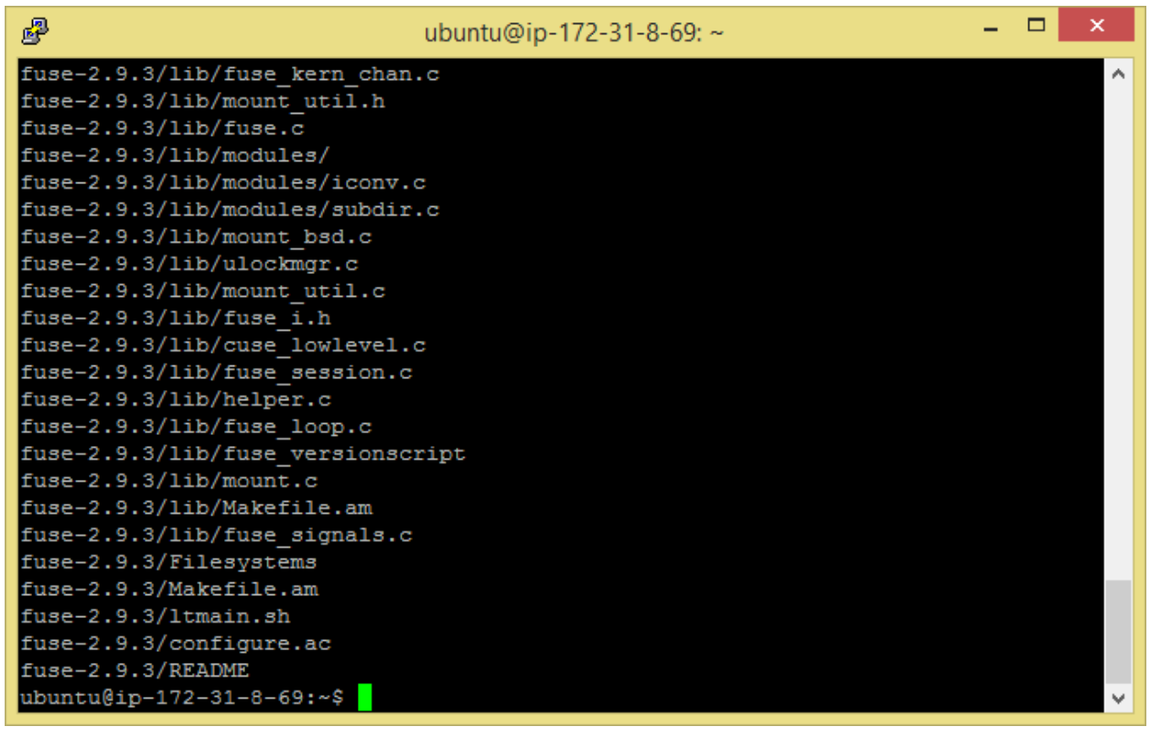
18. Download the latest version of FUSE.

wget http://downloads.sourceforge.net/project/fuse/fuse-2.X/2.9.3/fuse-2.9.3.tar.gz?r=http%3A%2F%2Fsourceforge.net%2Fprojects%2Ffuse%2Ffiles%2F&ts=1411948499&use_mirror=iweb

19. If your downloaded file has a big name, change it using mv command to ‘fuse-2.9.3.tar.gz’

20. Unzip using tar commad as shown below.





21.

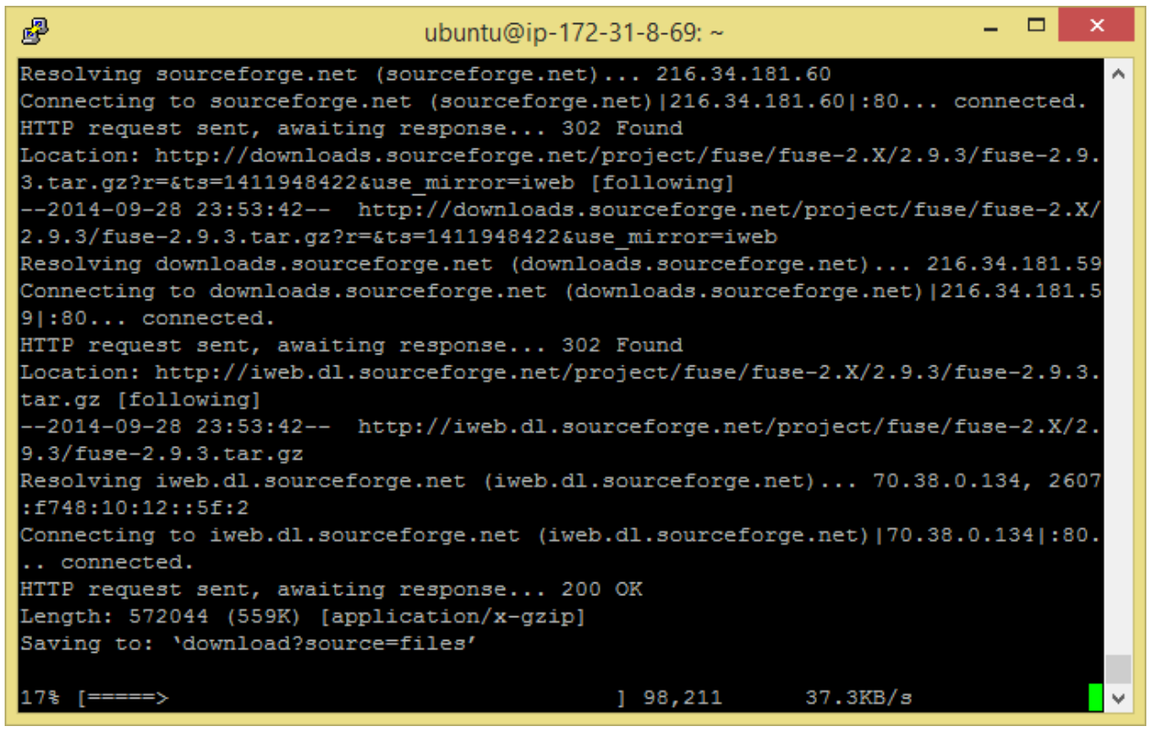
cd fuse-2.9.3/

22. Run the below commands to build FUSE

```
./configure

make
```

if you see: " The program 'make' is currently not installed. You can install it by typing: sudo apt-get install make "

```
sudo apt-get install make

make

sudo make install
```

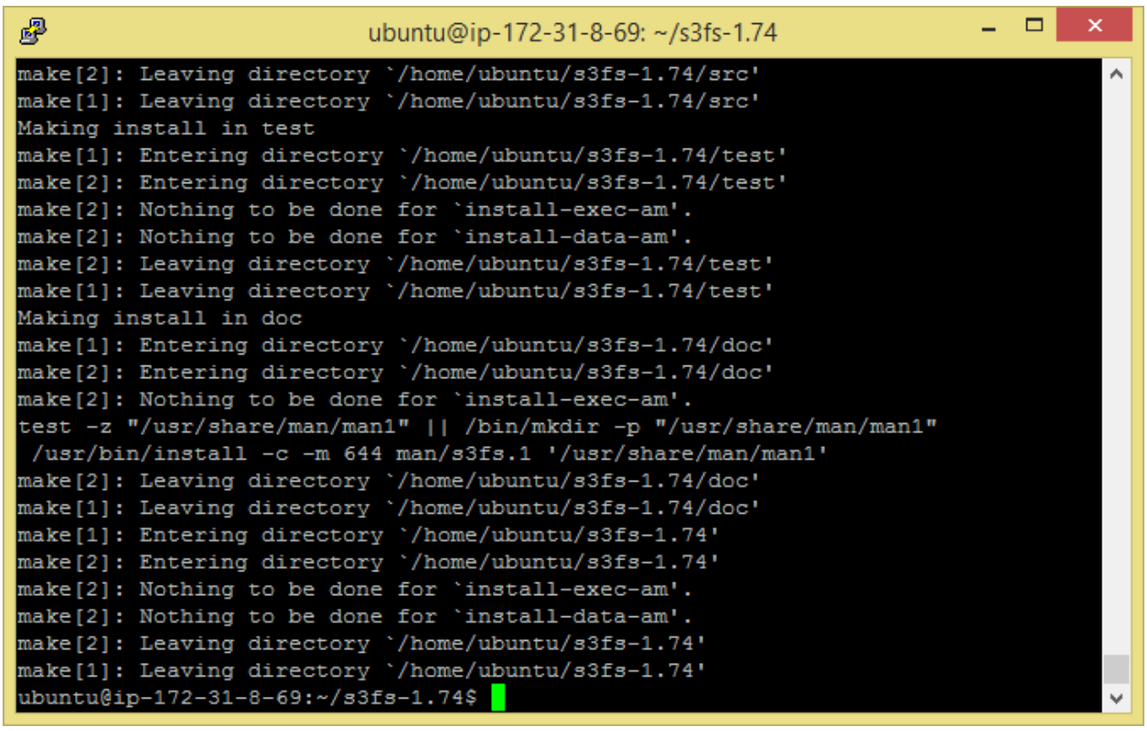

ubuntu@ip-172-31-8-69: ~
Resolving sourceforge.net (sourceforge.net)... 216.34.181.60
Connecting to sourceforge.net (sourceforge.net)|216.34.181.60|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: http://downloads.sourceforge.net/project/fuse/fuse-2.X/2.9.3/fuse-2.9.3.tar.gz?r=&ts=1411948422&use_mirror=iweb [following]
--2014-09-28 23:53:42-- http://downloads.sourceforge.net/project/fuse/fuse-2.X/2.9.3/fuse-2.9.3.tar.gz?r=&ts=1411948422&use_mirror=iweb
Resolving downloads.sourceforge.net (downloads.sourceforge.net)... 216.34.181.59
Connecting to downloads.sourceforge.net (downloads.sourceforge.net)|216.34.181.59|:80... connected.
HTTP request sent, awaiting response... 302 Found
Location: http://iweb.dl.sourceforge.net/project/fuse/fuse-2.X/2.9.3/fuse-2.9.3.tar.gz [following]
--2014-09-28 23:53:42-- http://iweb.dl.sourceforge.net/project/fuse/fuse-2.X/2.9.3/fuse-2.9.3.tar.gz
Resolving iweb.dl.sourceforge.net (iweb.dl.sourceforge.net)... 70.38.0.134, 2607:f748:10:12::5f:2
Connecting to iweb.dl.sourceforge.net (iweb.dl.sourceforge.net)|70.38.0.134|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 572044 (559K) [application/x-gzip]
Saving to: 'download?source=files'
17% [=====>] 98,211 37.3KB/s

23. Go back to home directory. Now download the latest S3FS (Amazon specific for FUSE)

```
wget http://s3fs.googlecode.com/files/s3fs-1.74.tar.gz
```

24. Unzip and build S3FS

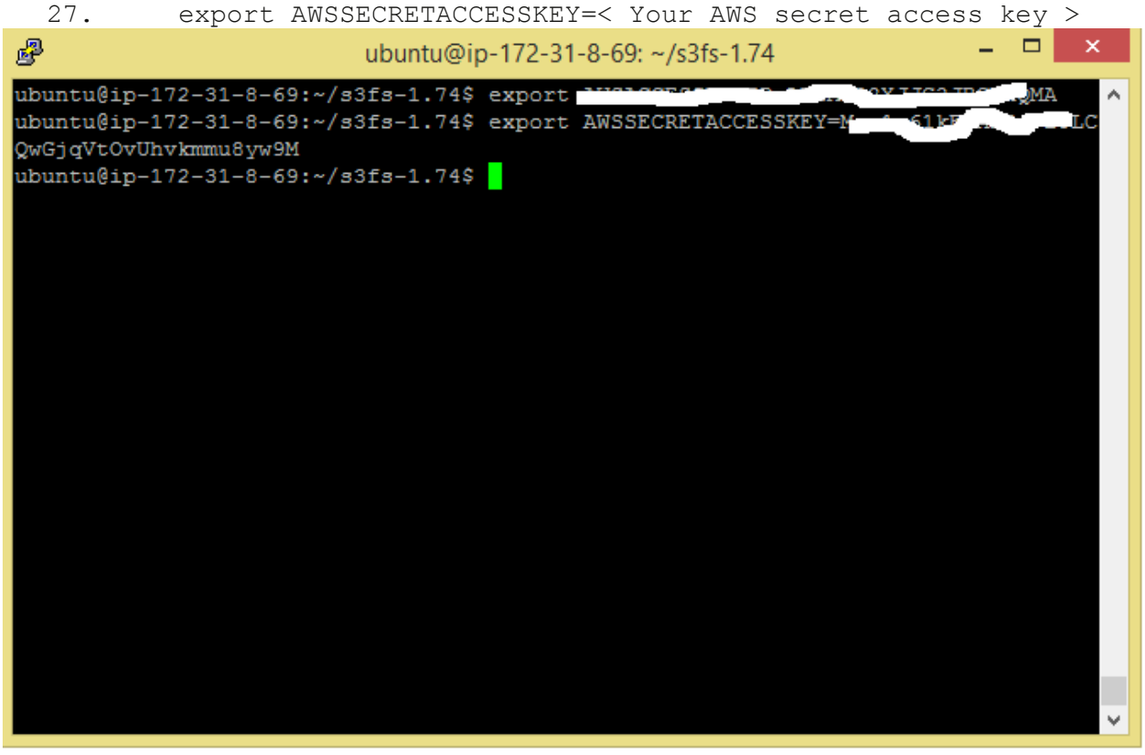
```
tar xvzf s3fs-1.74.tar.gz
cd s3fs-1.74/
./configure --prefix=/usr
make
sudo make install

if you see:
configure: error: in `/home/ubuntu/fuse-2.9.3/s3fs-1.74':
configure: error: C++ compiler cannot create executables
See `config.log' for more details.


sudo apt-get install build-essential
```



25. S3FS and FUSE is configured now. Set the below environment variable to mount S3 bucket.

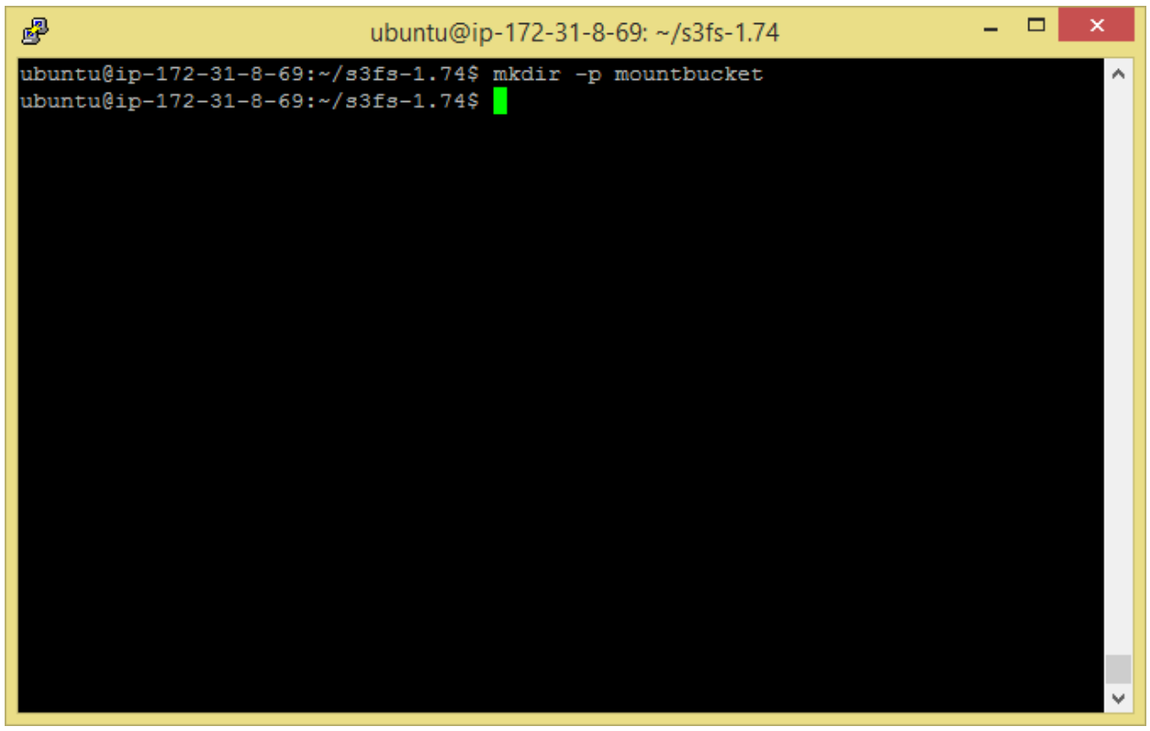
26. export AWSACCESSKEYID=<Your AWS access key >

27. export AWSSECRETACCESSKEY=< Your AWS secret access key >

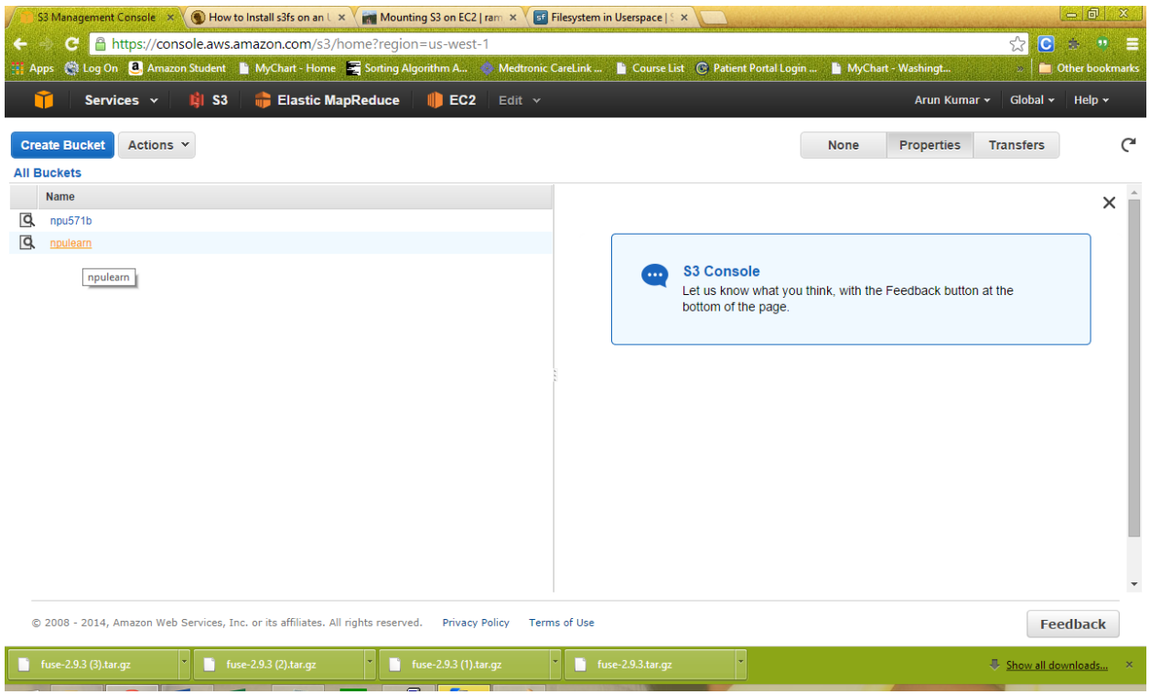


28. Create the directory where you want to mount S3

mkdir -p mountbucket



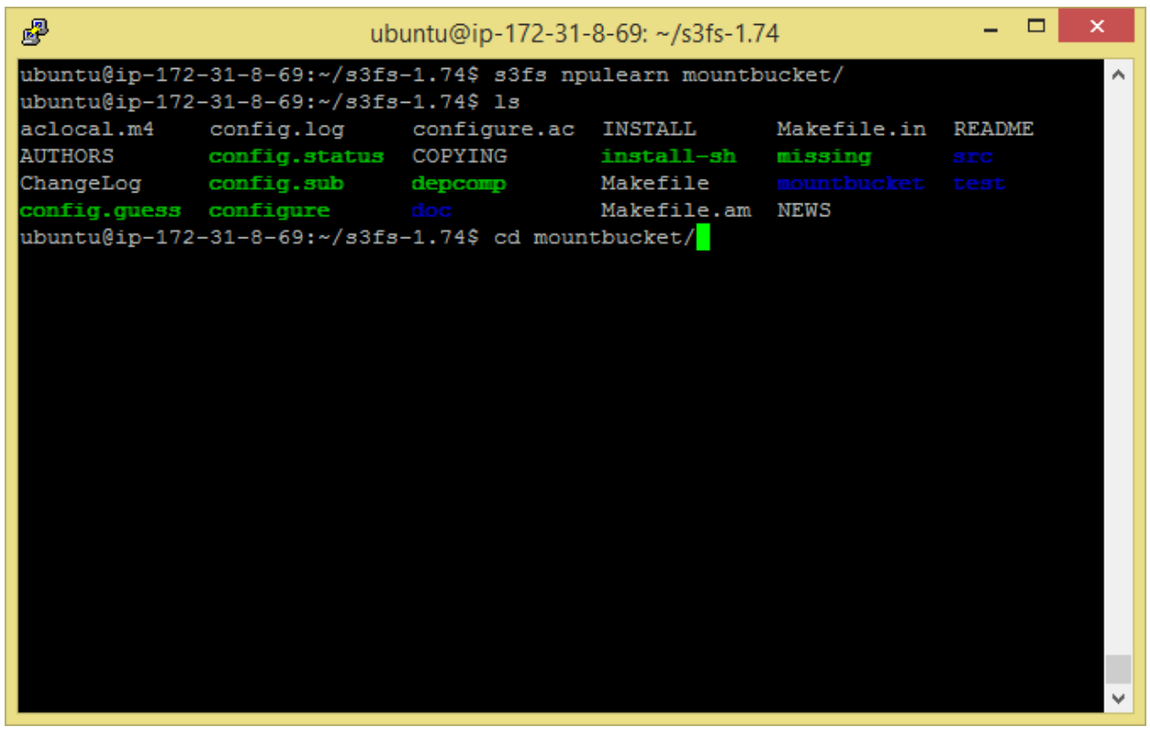
29. Check the bucket name from S3 - console

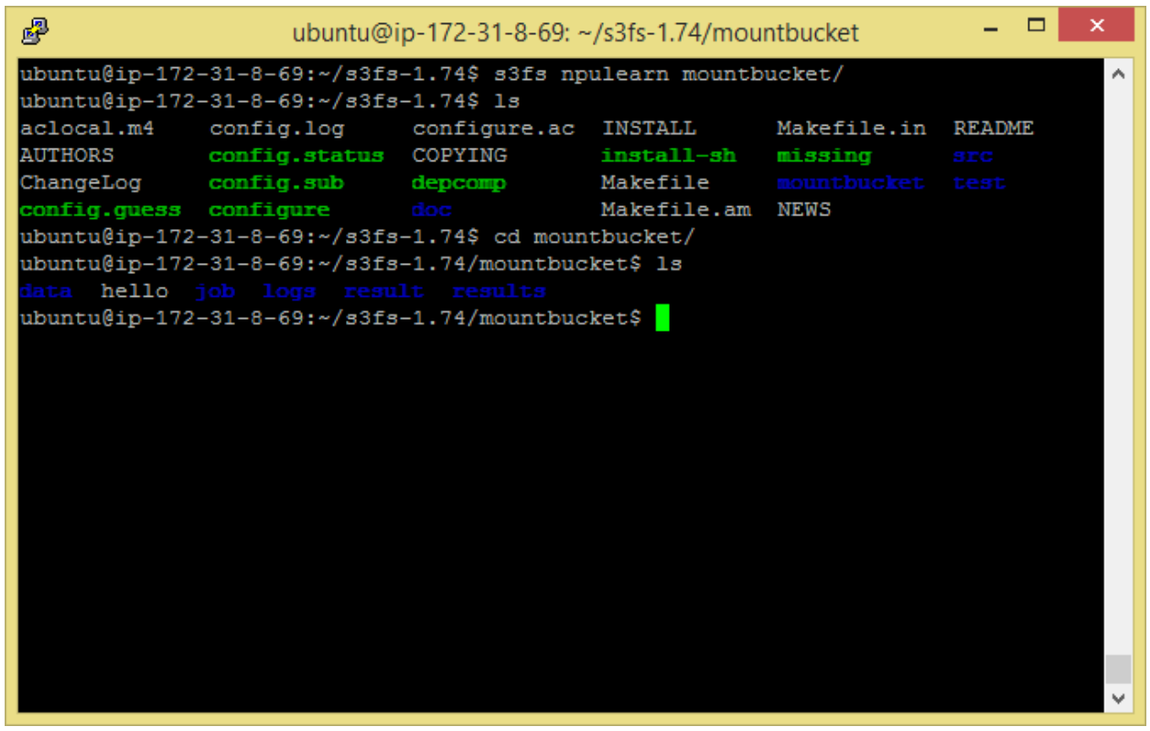


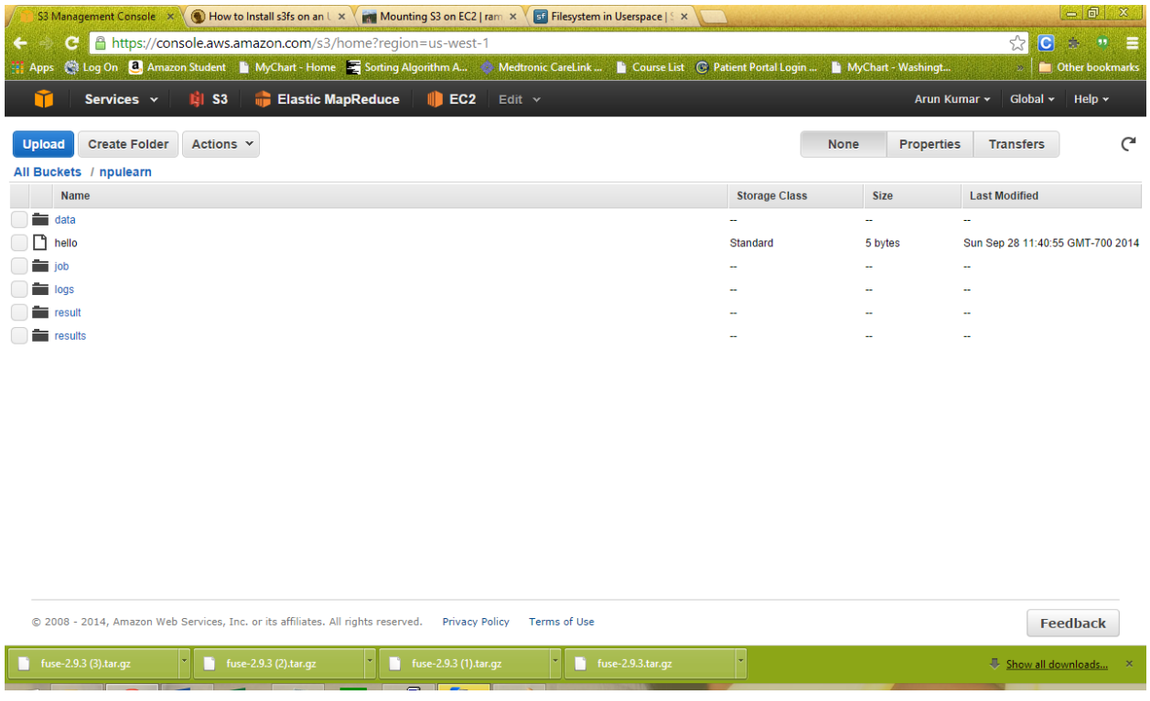
30 . Mount using the below command!

s3fs npulearn mountbucket/

30. Now you can use your filesystem like a UNIX file system!!!




ubuntu@ip-172-31-8-69: ~/s3fs-1.74/mountbucket
ubuntu@ip-172-31-8-69:~/s3fs-1.74$ s3fs npulearn mountbucket/
ubuntu@ip-172-31-8-69:~/s3fs-1.74$ ls
aclocal.m4 config.log configure.ac INSTALL Makefile.in README
AUTHORS config.status COPYING install-sh missing src
ChangeLog config.sub depcomp Makefile mountbucket test
config.guess configure doc Makefile.am NEWS
ubuntu@ip-172-31-8-69:~/s3fs-1.74$ cd mountbucket/
ubuntu@ip-172-31-8-69:~/s3fs-1.74/mountbucket$ ls
data hello job logs result results
ubuntu@ip-172-31-8-69:~/s3fs-1.74/mountbucket$


S3 Management Console
How to Install s3fs on an
Mounting S3 on EC2 | ran
Filesystem in Userspace |
https://console.aws.amazon.com/s3/home?region=us-west-1
Apps
Log On
Amazon Student
MyChart - Home
Sorting Algorithm A...
Medtronic CareLink ...
Course List
Patient Portal Login ...
MyChart - Washingt...
Other bookmarks
Services
S3
Elastic MapReduce
EC2
Edit
Arun Kumar
Global
Help
Upload
Create Folder
Actions
None
Properties
Transfers
All Buckets / npulearn
Name
Storage Class
Size
Last Modified
data -- -- --
hello Standard 5 bytes Sun Sep 28 11:40:55 GMT-700 2014
job -- -- --
logs -- -- --
result -- -- --
results -- -- --
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fuse-2.9.3 (3).tar.gz
fuse-2.9.3 (2).tar.gz
fuse-2.9.3 (1).tar.gz
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