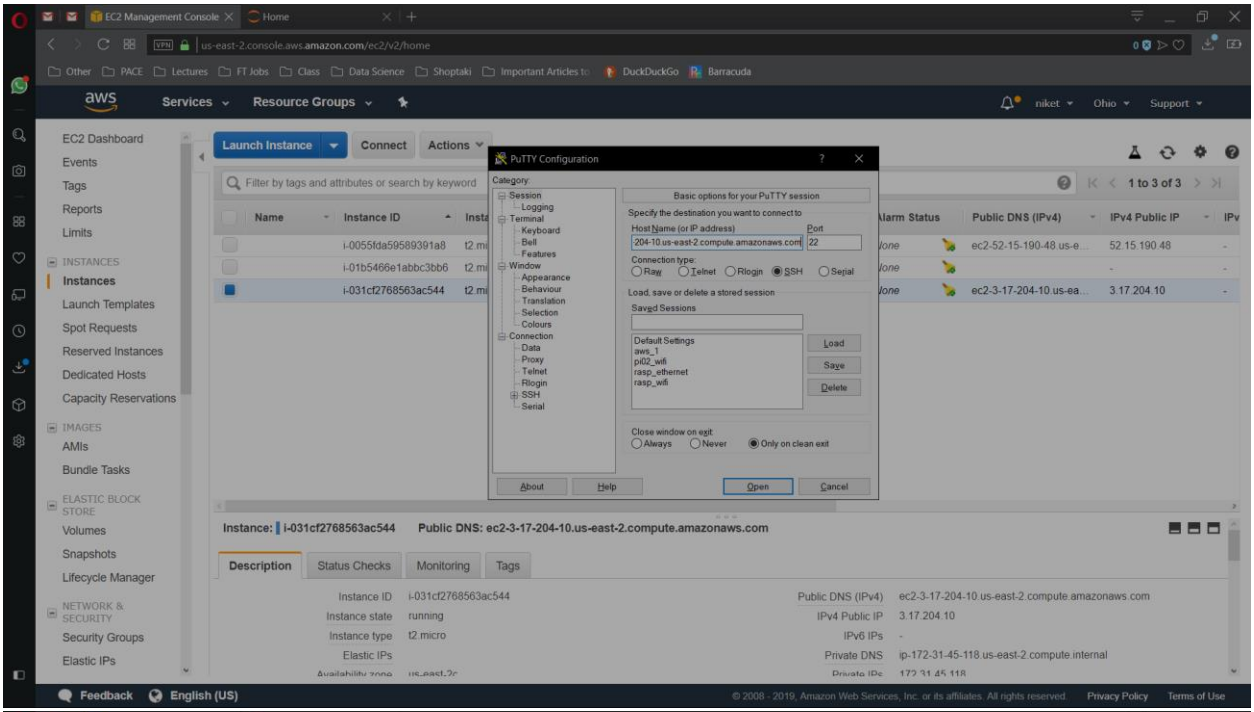
EC2 Management Console
Home
us-east-2.console.aws.amazon.com/ec2/v2/home
Services
Resource Groups
niket
Ohio
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Launch Templates
Spot Requests
Reserved Instances
Dedicated Hosts
Capacity Reservations
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
Lifecycle Manager
NETWORK & SECURITY
Security Groups
Elastic IPs
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
1 to 3 of 3
Name
Instance ID
Public DNS (IPv4)
IPv4 Public IP
i-0055fda59589391a8
i-01b5466e1abbc3bb6
i-031cf2768563ac544
ec2-52-15-190-48.us-e...
52.15.190.48
ec2-3-17-204-10.us-ea...
3.17.204.10
PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Serial
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
204-10.us-east-2.compute.amazonaws.com
22
Connection type:
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
Default Settings
aws_1
pi02_wifi
rasp_ethernet
rasp_wifi
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel
Instance: i-031cf2768563ac544
Public DNS: ec2-3-17-204-10.us-east-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-031cf2768563ac544
Instance state
running
Instance type
t2.micro
Elastic IPs
Public DNS (IPv4)
ec2-3-17-204-10.us-east-2.compute.amazonaws.com
IPv4 Public IP
3.17.204.10
IPv6 IPs
Private DNS
ip-172-31-45-118.us-east-2.compute.internal
Feedback
English (US)
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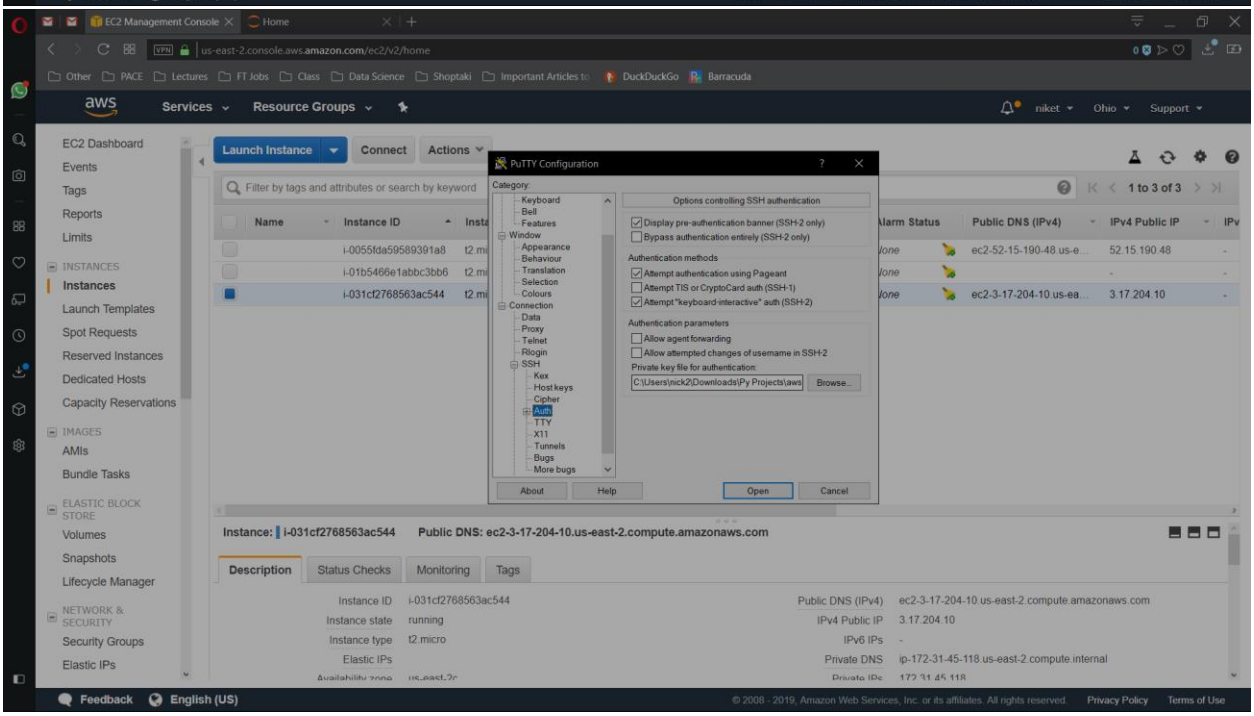
EC2 Management Console
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Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Host keys
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Options controlling SSH authentication
Display pre-authentication banner (SSH-2 only)
Bypass authentication entirely (SSH-2 only)
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:
C:\Users\nick2\Downloads\Py Projects\aws
Browse...
About
Help
Open
Cancel
Instance: i-031cf2768563ac544
Public DNS: ec2-3-17-204-10.us-east-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-031cf2768563ac544
Instance state
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Instance type
t2.micro
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3.17.204.10
IPv6 IPs
Private DNS
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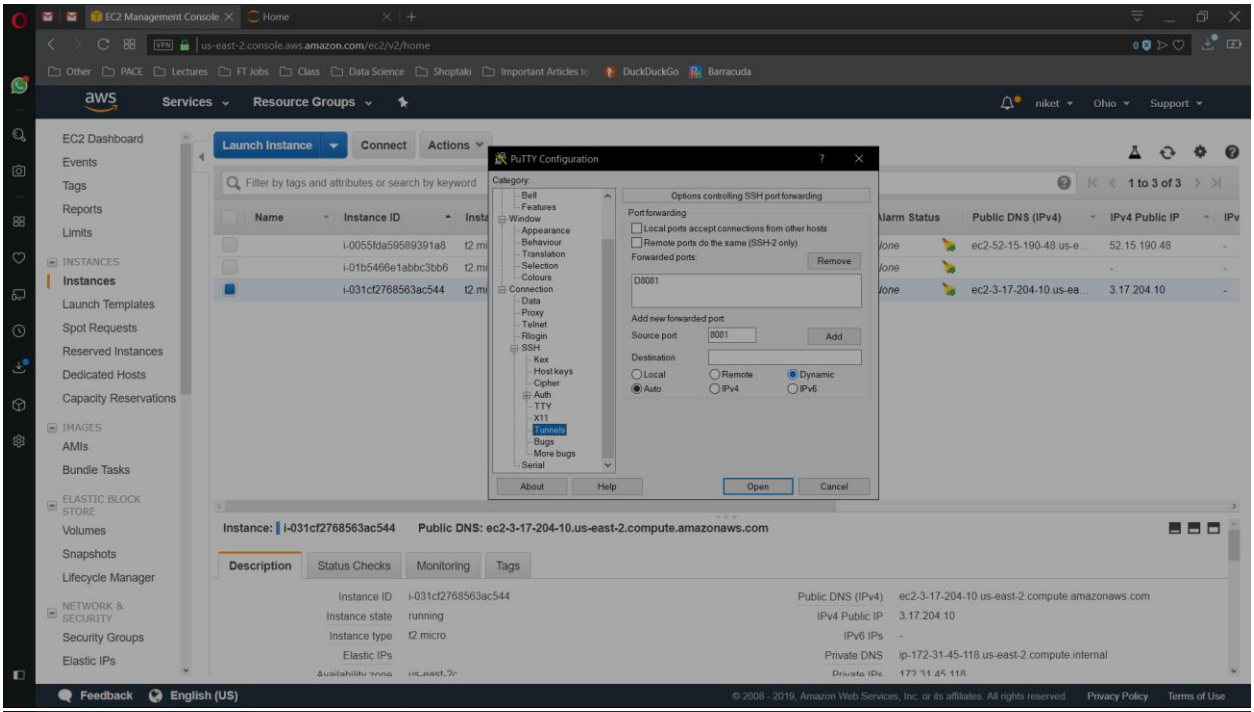
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Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Host keys
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Serial
Options controlling SSH port forwarding
Port forwarding
Local ports accept connections from other hosts
Remote ports do the same (SSH-2 only)
Forwarded ports:
Remove
D8081
Add new forwarded port:
Source port
8081
Add
Destination
Local
Remote
Dynamic
Auto
IPv4
IPv6
About
Help
Open
Cancel
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
ubuntu@ec2-3-17-204-10.us-east-2.compute
22
Connection type:
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
aws_2
Default Settings
aws_1
aws_2
pi02_wifi
rasp_ethernet
rasp_wifi
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
Instance: i-031cf2768563ac544
Public DNS: ec2-3-17-204-10.us-east-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-031cf2768563ac544
Instance state
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Instance type
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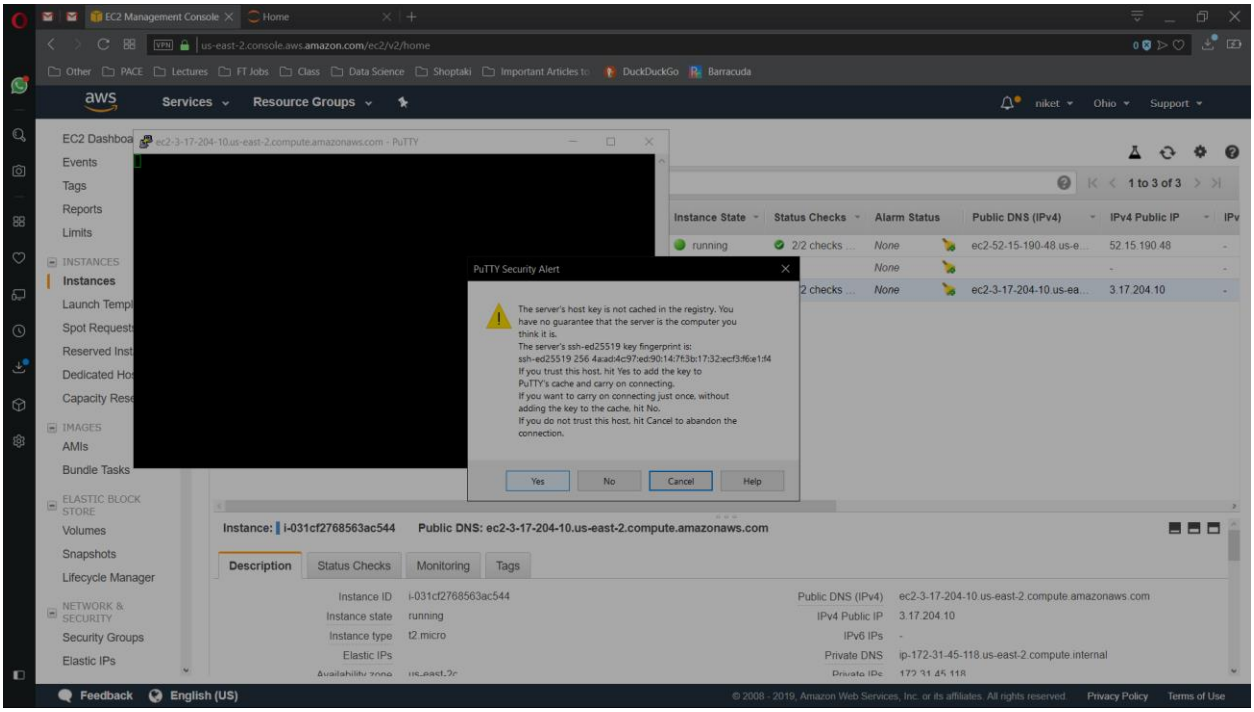


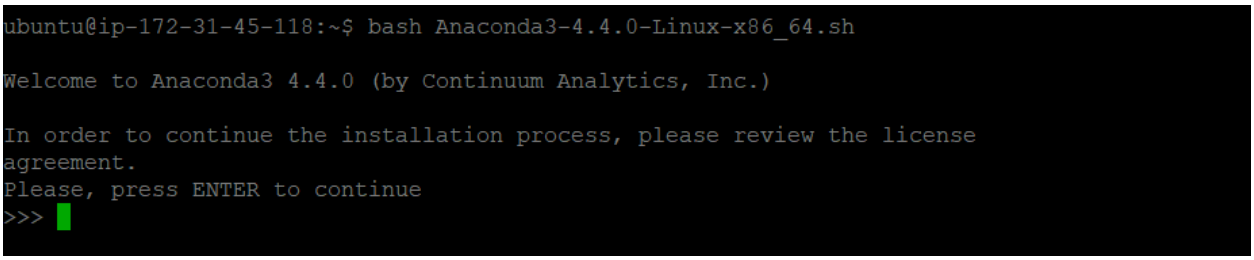
Download Anaconda 3 installer

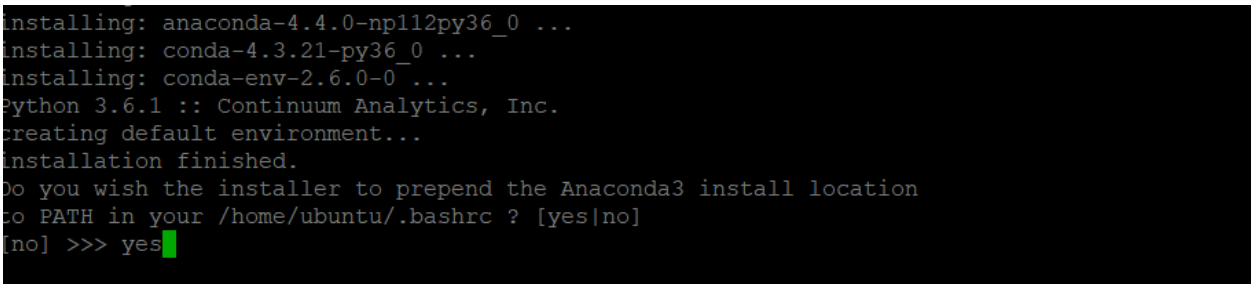
wget https://repo.continuum.io/archive/Anaconda3-4.4.0-Linux-x86_64.sh

```
ubuntu@ip-172-31-45-118:~$ wget https://repo.continuum.io/archive/Anaconda3-4.4.0-Linux-x86_6
4.sh
--2019-02-22 00:08:01--  https://repo.continuum.io/archive/Anaconda3-4.4.0-Linux-x86_64.sh
Resolving repo.continuum.io (repo.continuum.io)... 104.16.19.10, 104.16.18.10, 2606:4700::681
0:120a, ...
Connecting to repo.continuum.io (repo.continuum.io)|104.16.19.10|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 523283080 (499M) [application/x-sh]
Saving to: 'Anaconda3-4.4.0-Linux-x86_64.sh'

Anaconda3-4.4.0-Linux-x 100%[=========================>] 499.04M  61.4MB/s    in 7.6s

2019-02-22 00:08:08 (65.5 MB/s) - 'Anaconda3-4.4.0-Linux-x86_64.sh' saved [523283080/52328308
0]
```

Install Anaconda3 by typing:

```
bash Anaconda3-4.4.0-Linux-x86_64.sh
```

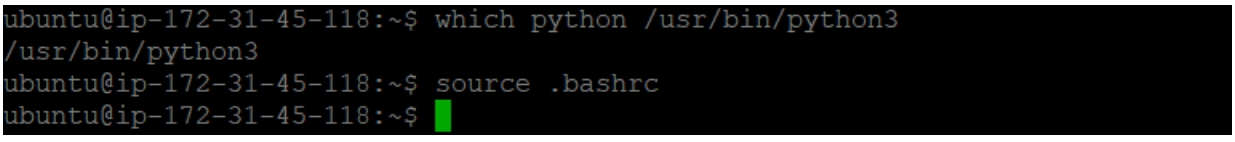




To switch your environment to use Python 3 type the command:

```
which python /usr/bin/python
```

```
source .bashrc
```



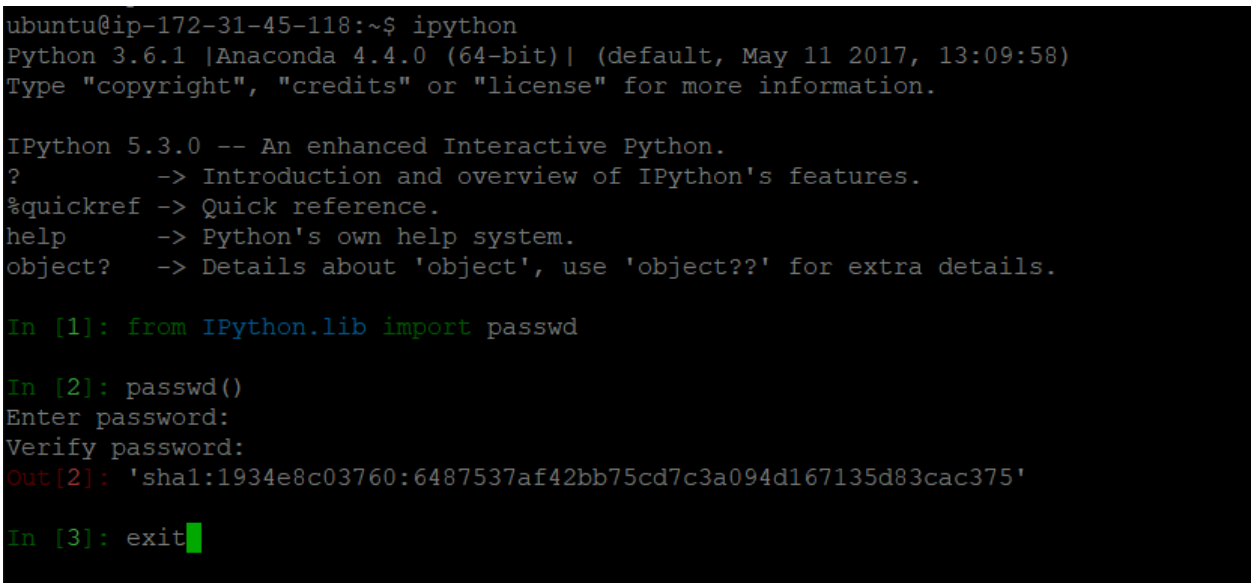
Create your Jupyter/Ipython password:

```
ipython
```

from IPython.lib import passwd

passwd()

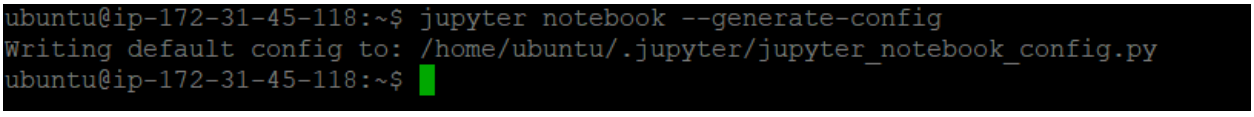
save your SHA hash for future reference by copying and pasting it to a text file, you'll need this later



`sha1:1934e8c03760:6487537af42bb75cd7c3a094d167135d83cac375`

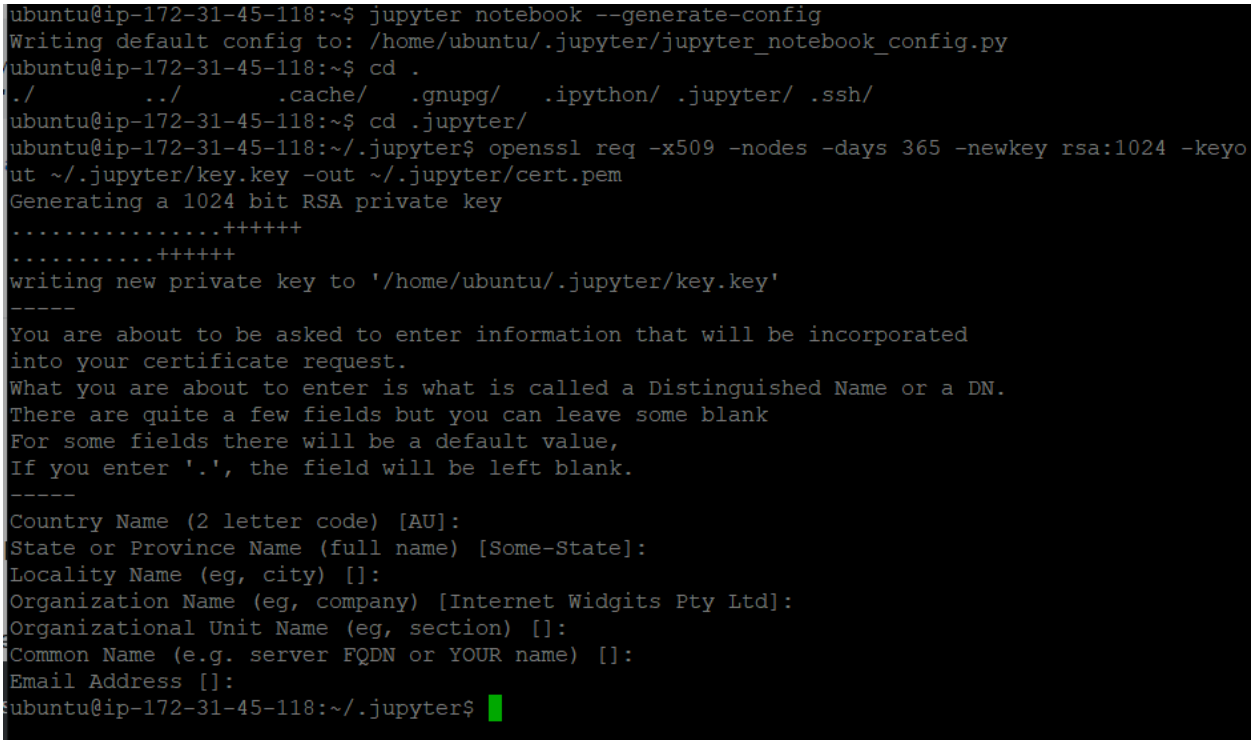
Configure Jupyter/Ipython server to access your notebooks from local computer via internet browser:

jupyter notebook --generate-config



Generate key & cert into the jupyter configuration folder:

```
openssl req -x509 -nodes -days 365 -newkey rsa:1024 -keyout ~/.jupyter/key.key -out
~/.jupyter/cert.pem
```



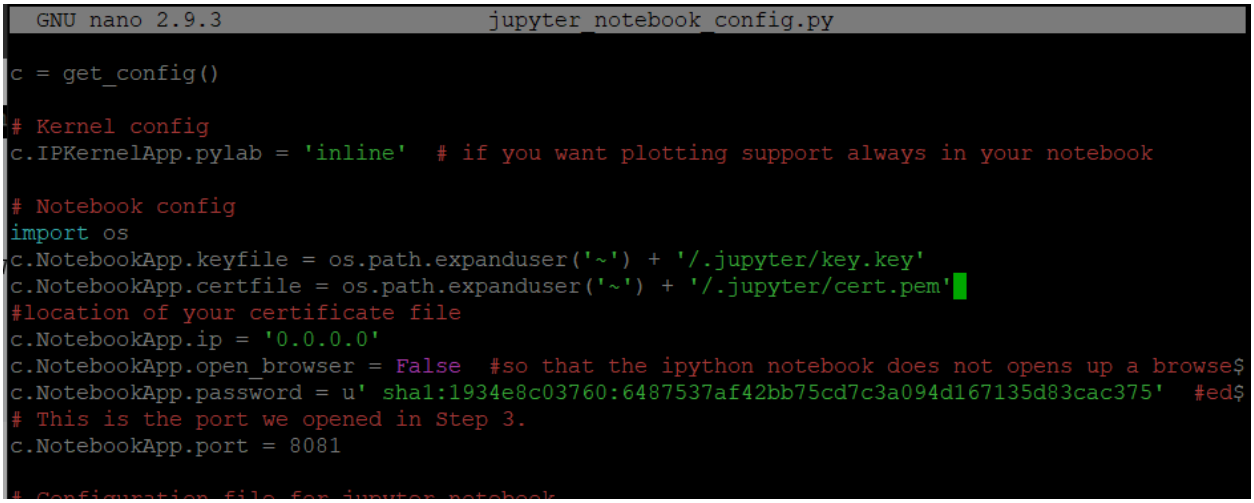
Edit your Jupyter configuration file:

```
nano .jupyter/jupyter_notebook_config.py
```

```
ubuntu@ip-172-31-45-118:~/.jupyter$ nano jupyter_notebook_config.py
```

```
c = get_config()

# Kernel config
c.IPKernelApp.pylab = 'inline'  # if you want plotting support
always in your notebook

# Notebook config
import os
```

```
c.NotebookApp.keyfile = os.path.expanduser('~') + '/.jupyter/key.key'
c.NotebookApp.certfile = os.path.expanduser('~') + '/.jupyter/cert.pem'
#location of your certificate file
c.NotebookApp.ip = '0.0.0.0'
c.NotebookApp.open_browser = False  #so that the ipython
notebook does not opens up a browser by default
c.NotebookApp.password = u'
sha1:1934e8c03760:6487537af42bb75cd7c3a094d167135d83cac375'
#edit this with the SHA hash that you generated after typing in
Step 9
# This is the port we opened in Step 3.
c.NotebookApp.port = 8081
```



Create a folder for your notebooks and start Jupyter Notebook:

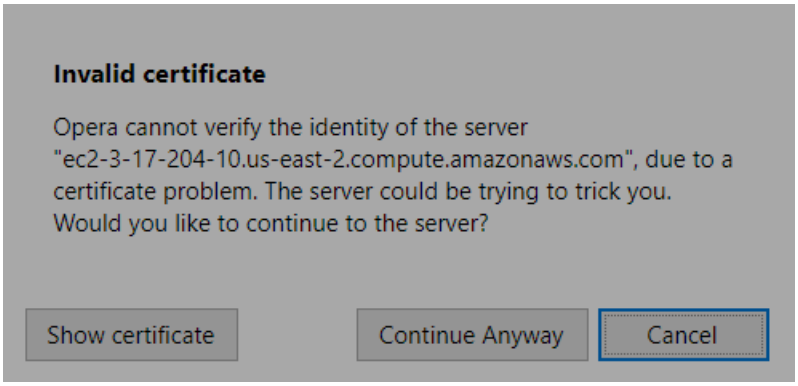
```
mkdir Notebooks
cd Notebooks
```

```
jupyter notebook
```

```
ubuntu@ip-172-31-45-118:~$ mkdir Notebooks
ubuntu@ip-172-31-45-118:~$ cd Notebooks/
ubuntu@ip-172-31-45-118:~/Notebooks$ jupyter notebook
[I 00:32:53.727 NotebookApp] Writing notebook server cookie secret to /run/user/1000/jupyter/
notebook_cookie_secret
[I 00:32:53.770 NotebookApp] Serving notebooks from local directory: /home/ubuntu/Notebooks
[I 00:32:53.771 NotebookApp] 0 active kernels
[I 00:32:53.771 NotebookApp] The Jupyter Notebook is running at: https://0.0.0.0:8081/
[I 00:32:53.771 NotebookApp] Use Control-C to stop this server and shut down all kernels (twi
ce to skip confirmation).
```

In browser:

https://ec2-3-17-204-10.us-east-2.compute.amazonaws.com:8081/



Click Continue Anyway