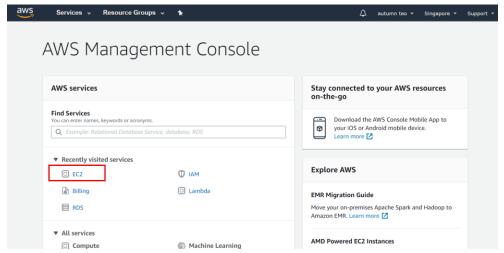
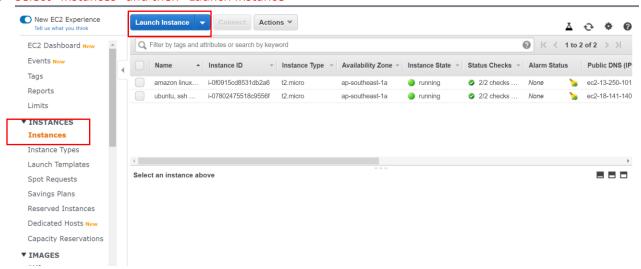
Setting up your EC2 Server

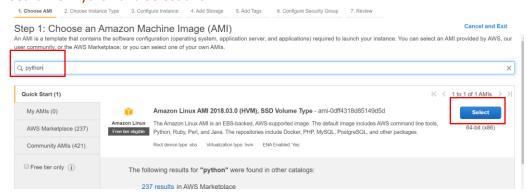
1. Go to Amazon Dashboard and select EC2



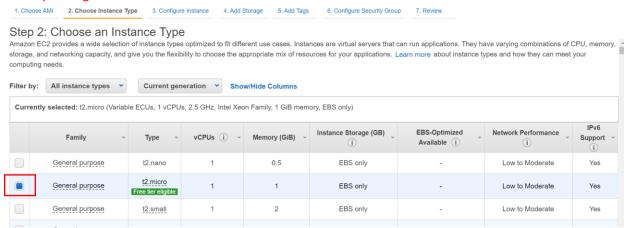
2. Select "Instances" and then "Launch Instance"



3. Search for Python and Select this:



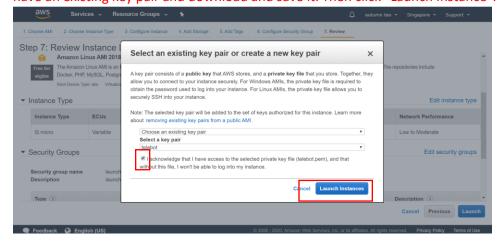
4. Select t2.micro (the free tier eligible) and keep selecting Next until you reach the page on Security Config



5. Change the Source to "Anywhere" and select "Review and Launch"

1. Choose AMI	2. Choose Instance Type	3. Configure Instance	4. Add Storage	5. Add Tags	6. Configure Security Group	7. Review		
Step 6: Configure Security Group A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.								
Assign a security group: Create a new security group								
	Security group nar				.588+08:00			
Type (i)	Protocol	(i) Po	rt Range (i)	Sou	rce (i)		Description (i)	
SSH	TCP	22	2	Any	where 🔻 0 0.0.0/0, ::/0		e.g. SSH for Admin [Desktop
Add Rule								
Warning Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.								
						Ca	ancel Previous	Review and Launch

6. You will be prompted to create or use an existing key pair. Create a new .pem key if you do not have an existing key pair and download and save it. Then click "Launch Instance".

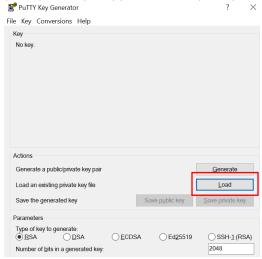


7. Go back to your "Instances" and you should see your EC2 instance initializing. Wait a while for it to run

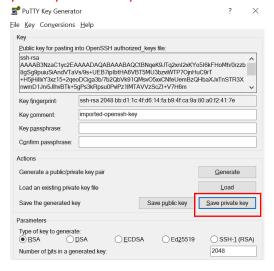


Creating a SSH Tunnel to your EC2 Server (To run programs etc)

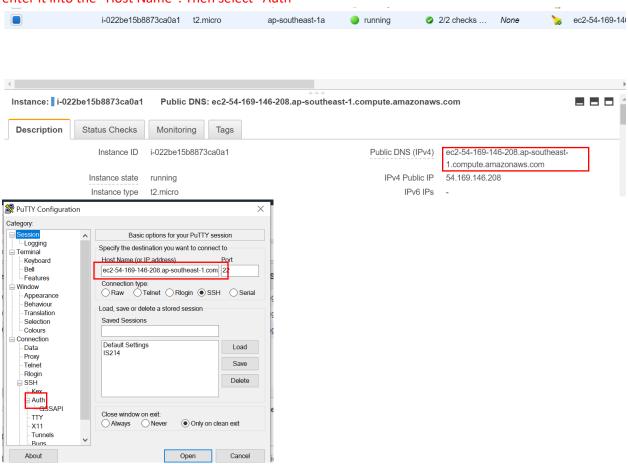
8. Download/ Open Puttygen (https://www.ssh.com/ssh/putty/windows/puttygen) to convert your .pem key to .ppk. And load your .pem key (from where you saved your .pem key)



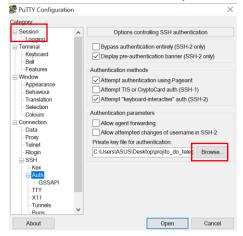
9. You should see this screen. Select "Save Private Key". You will be prompted for a passphrase, you may create it if you wish to or not. Name your .ppk key and save it. Close Puttygen.



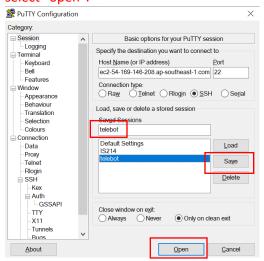
10. Download/ open Putty (https://www.putty.org/). Copy the Public DNS from AWS Instance and enter it into the "Host Name". Then select "Auth"



11. Click on "Browsed" and load your saved .ppk file. Then click on "Session".



12. Then name your session and click on "save". Then select the session that you just named and select "open".

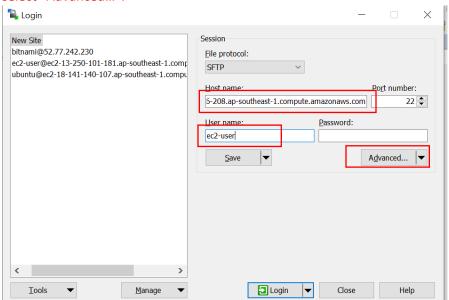


13. You will be prompted with a warning, just select "Yes". You will then be faced with a prompt. Type "ec2-user" and press enter. You will then see the login message. Minimize it, we will need it later

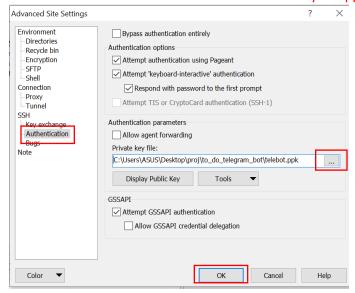


Transfer your script to the EC2 Server

14. Open/ Download Winscp (https://winscp.net/eng/download.php). Enter the Public DNS of your Server (same as the one used in Step 10) in "Host Name". Enter "ec2-user" in "User name". Then select "Advanced...".



15. Select "Authentication" and select the "..." to load your .ppk file. Then click on "OK"



Login Ne Session o_telegr Eile protocol: Siz SFTP Save session as site Host name: Port number: 22 🜲 Site name ec2-54-169-146-208.ap-southeast-1.compute.au User name Password: Eolder: ec2-user Save password (not recommended) Create desktop shortcut

Manage

Tools

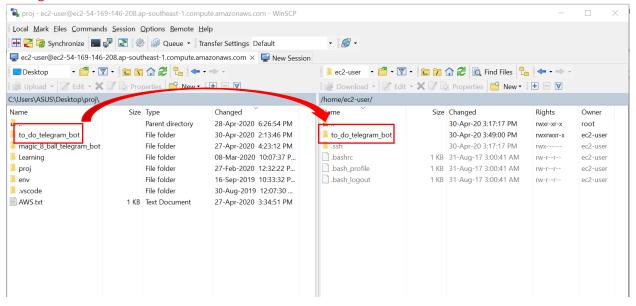
16. Click on "save" then select "ok" of the prompt. Then select "Login".

17. A prompt will open, select "Yes". You should see something similar to the image below and you are now be able to transfer your files. The left side of your screen is your own machine and the right side is the files on your ec2 Server.

Login

Help

Navigate to your folder (on the left hand side of the screen) containing your script and drag it to the right side of the screen to transfer it.



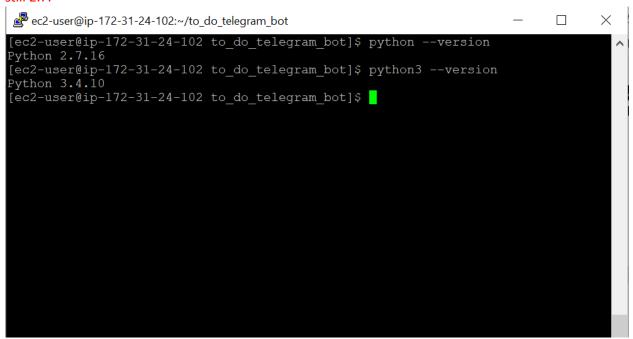
Running the Telegram Bot on the Server

18. Open your Putty application and change folder to the folder containing your script by typing "cd to do telegram bot"

19. The current default python version is 2.7. As the script is coded in python3, we need to change the default version to python3. Type sudo yum list | grep python3 to check the python version available.

```
[ec2-user@ip-172-31-24-102 to_do_telegram_bot]$ sudo yum list | grep python3
mod24 wsgi-
                  34.x86_64
                                                                       amzn-updates
mod24_wsgi-
                   5.x86_64
                                                                       amzn-updates
              hon36.x86_64
mod24 wsgi-
                                        3.5-1.25.amzn1
                                                                       amzn-updates
       4.x86 64
                                        3.4.10-1.49.amzn1
                                                                       amzn-updates
       4-devel.x86 64
                                        3.4.10-1.49.amzn1
                                                                       amzn-updates
       4-docs.noarch
                                        3.4.3-1.23.amzn1
                                                                       amzn-main
       4-libs.i686
                                        3.4.10-1.49.amzn1
                                                                       amzn-updates
       4-libs.x86 64
                                        3.4.10-1.49.amzn1
                                                                       amzn-updates
      34-pip.noarch
                                       9.0.3-1.27.amzn1
                                                                       amzn-updates
     34-setuptools.noarch
                                        36.2.7-1.33.amzn1
                                                                       amzn-main
     134-test.x86_64
                                        3.4.10-1.49.amzn1
                                                                       amzn-updates
      34-tools.x86 64
                                        3.4.10-1.49.amzn1
                                                                       amzn-updates
      34-virtualenv.noarch
                                        15.1.0-1.14.amzn1
                                                                       amzn-main
      35.x86 64
                                        3.5.7-1.25.amzn1
                                                                       amzn-updates
       5-devel.x86 64
                                        3.5.7-1.25.amzn1
                                                                       amzn-updates
     <mark>n3</mark>5-libs.i686
                                        3.5.7-1.25.amzn1
                                                                       amzn-updates
     135-libs.x86 64
                                       3.5.7-1.25.amzn1
                                                                       amzn-updates
```

20. To change python version, type sudo yum install python34 python34-pip to install python 3.4. then enter "y" when prompted to download the packages. But the default python version is still 2.7.



21. To make python 3 the default version, enter sudo alternatives --set python /usr/bin/python3.4

(Note: Using alias python = python3 will stop working once you log out/close of the current session)

- 22. To ensure the your script runs as long as the server is up, enter nohup python app.py &
- 23. Before running the script, we need to first download the relevant packages, enter sudo pip install requests
- 24. To run the script, enter python app.py