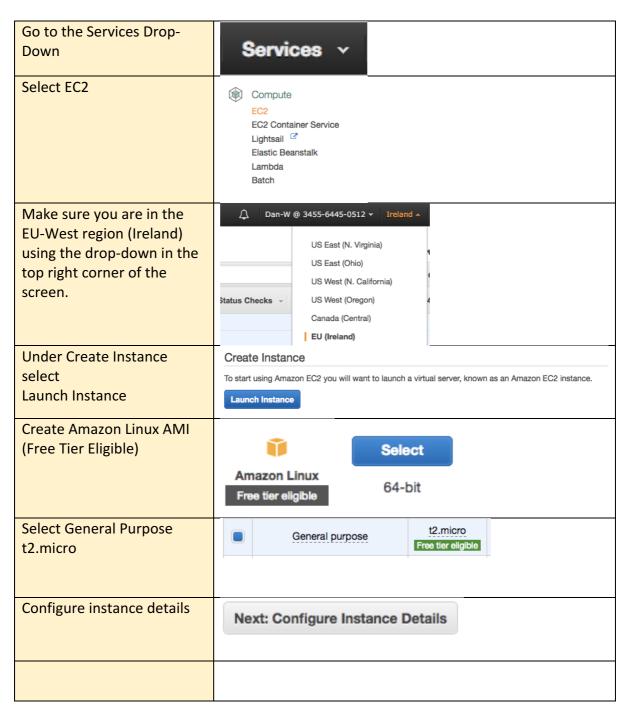
Training Materials

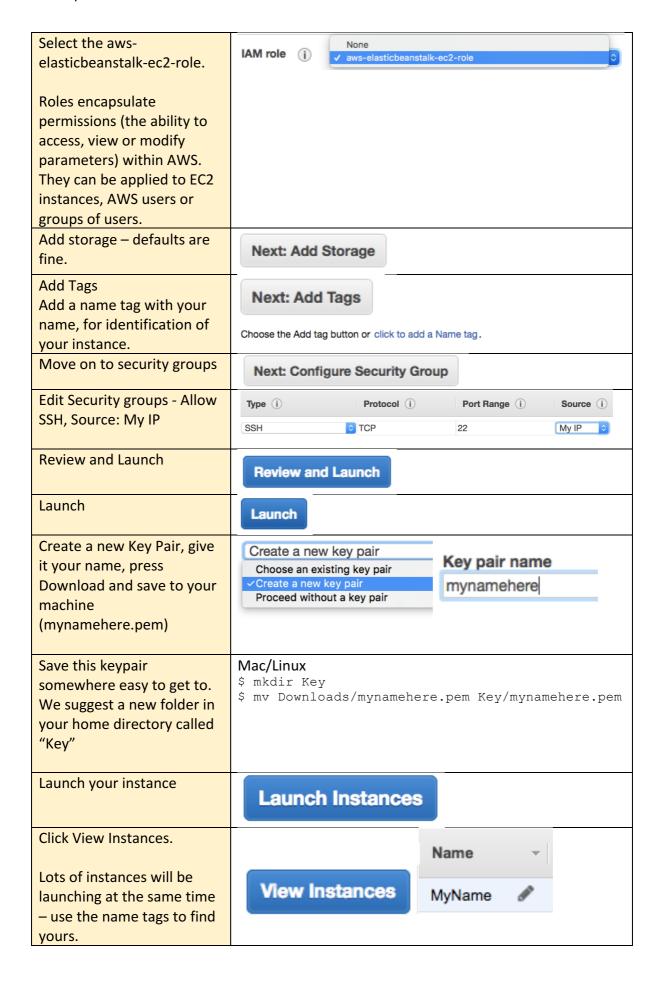
Log in here using the username and password provided in the workshop

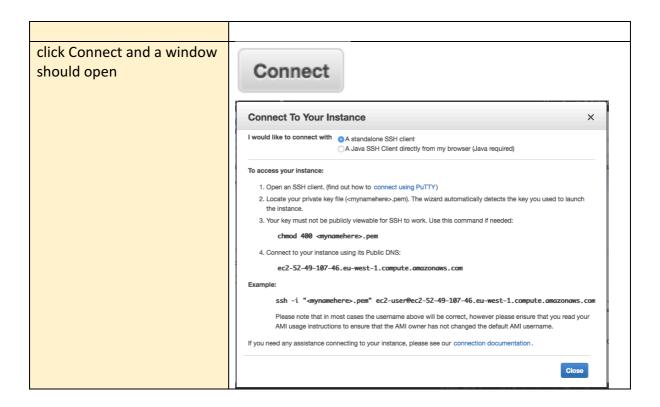
https://345564450512.signin.aws.amazon.com/console

To change your Identity and Access Management (IAM) password, click the drop down by your username, then My Security Credentials.

Connecting to EC2







Instructions for Mac / Linux

open terminal navigate to your key folder	\$ cd Key
, ,	
make your private key	\$ chmod 400 Name.pem
private by modifying its	
permissions.	
to avoid having to type the	Example:
long name over and over,	ssh -i "mynamehere.pem" ec2-user⊕ec2-52-209-161-135.eu-west-1.compute.amazonaws.com
copy it from the connection window set a variable in	\$ instance=ec2-user@ec2-ip-ip-
bash.	ip.ip.location.compute. amazonaws.com
	refer to this variable later using \$instance
Connect to your instance	\$ ssh -i "Name.pem" \$instance
and type yes to allow the	Are you sure you want to continue connecting (yes/no)? yes
connection.	
You should now be on the	[ec2-user@ip-ip-ip-ip ~]\$
machine.	
Terminal should show:	

Transferring files from an Amazon S3 Bucket to your instance

	<pre>\$ scp -i Key/myname.pem newFile.txt \$instance:~</pre>
Create a text file in your	\$ SCP -1 Rey/myname.pem newrite.txt \$1mstance.*
home directory and use a	
new terminal window to	
transfer it to your instance	
using scp (Mac)	
As an alternative, we can	[ec2-user@ip-ip-ip-ip ~]\$ aws s3 ls s3://ngcm1
transfer files from an	[ec2-user@ip-ip-ip-ip ~]\$ aws s3 cp
Amazon S3 bucket to the	s3://ngcm1/testFile.txt testFile.txt
instance using Amazon's s3	, 5. ,
copy command.	
. ,	
Our bucket is called	
"ngcm1"	
in your terminal window for	[ec2-user@ip-ip-ip-ip ~]\$ ls
the instance, check that it's	
been transferred.	
Code can be run on the	[ec2-user@ip-ip-ip-ip ~]\$ python sim.py
instance in the same way	
Transfer "sim.py" to the	
instance from the S3 bucket	
and run it	
Use scp to transfer the	\$ scp -i Key/myname.pem \$instance:~/out.csv
output of the simulation	out.csv
out.csv onto your local	
machine.	
macmile.	

Windows Instructions (with PuTTY)

Use the following instructions from Amazon to convert your .pem key file into a .ppk file, then connect to your running instance over SSH. Move the .ppk file to the new directory called "Key" you created earlier.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html?icmpid=docs_ec2_co_nsole

Transferring files from an Amazon S3 Bucket to your instance

Use notepad to create an example text file. From the command prompt, transfer it to your instance using pscp (installed with PuTTY)	C:\Users\Name\Key> pscp -i name.ppk newFile.txt ec2-user@ec2amazonaws.com:newFile.txt
As an alternative, we can transfer files from an	<pre>From the instance: [ec2-user@ip-ip-ip-ip ~]\$ aws s3 ls s3://ngcm1</pre>
Amazon S3 bucket to the instance using Amazon's s3 copy command.	<pre>[ec2-user@ip-ip-ip-ip ~]\$ aws s3 cp s3://ngcm1/testFile.txt testFile.txt</pre>
Our bucket is called "ngcm1"	
in your terminal window for the instance, check that it's been transferred.	[ec2-user@ip-ip-ip-ip ~]\$ ls
Code can be run on the instance in the same way	<pre>[ec2-user@ip-ip-ip-ip ~]\$ python sim.py</pre>
Transfer "sim.py" to the instance from the S3 bucket and run it	
Use pscp to transfer the output of the simulation out.csv onto your local machine using the command prompt.	Windows (PuTTY) > pscp -i <path key="" to=""> ec2- user@ec2amazonaws.com:out.csv out.csv</path>

A very simple web hosting example with EC2...

We are going to repurpose our running instances to host a static webpage. The free tier allows 24/7 running of a single t2.micro amazon instance for 12 months (750 hours / month free).

Step by step guidance is not provided for this section. We are here to help, the detailed instructions above should give you a good start, and AWS has many rollover information points and comprehensive documentation.

- In the management console, set up your instance to allow access from internet traffic over port 8000.
- Transfer the entire contents of the Web subdirectory on the ngcm1 S3 bucket onto the instance. (hint: aws s3 help)
- navigate to this folder on the instance and launch a web server
 \$ python -m SimpleHTTPServer 8000 &
- In a web browser, navigate to the instance's public URL, and specify port 8000 to view your website.

If you like the look of Amazon Web Services and would like to explore the further capabilities of the platform, you can apply for a student account which includes \$40 of free credit.

https://aws.amazon.com/education/awseducate/

Apply for a student account, follow the prompts and explore Amazon Web Services for yourself.