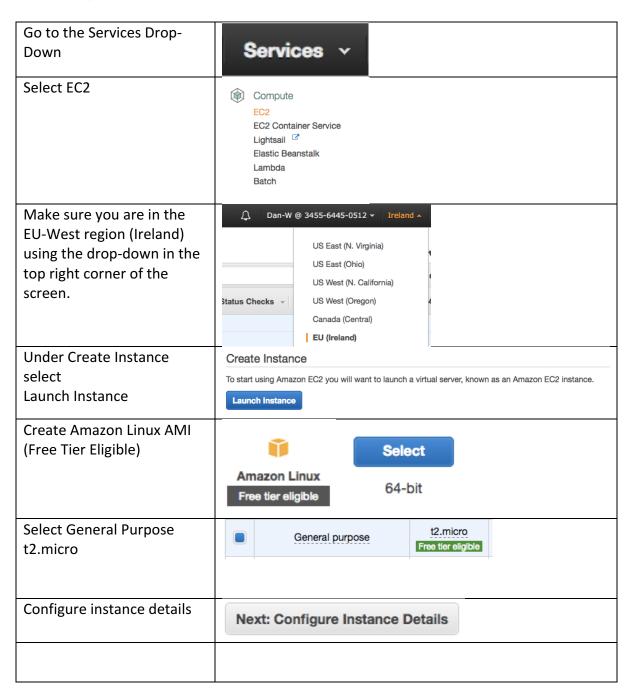
Training Materials

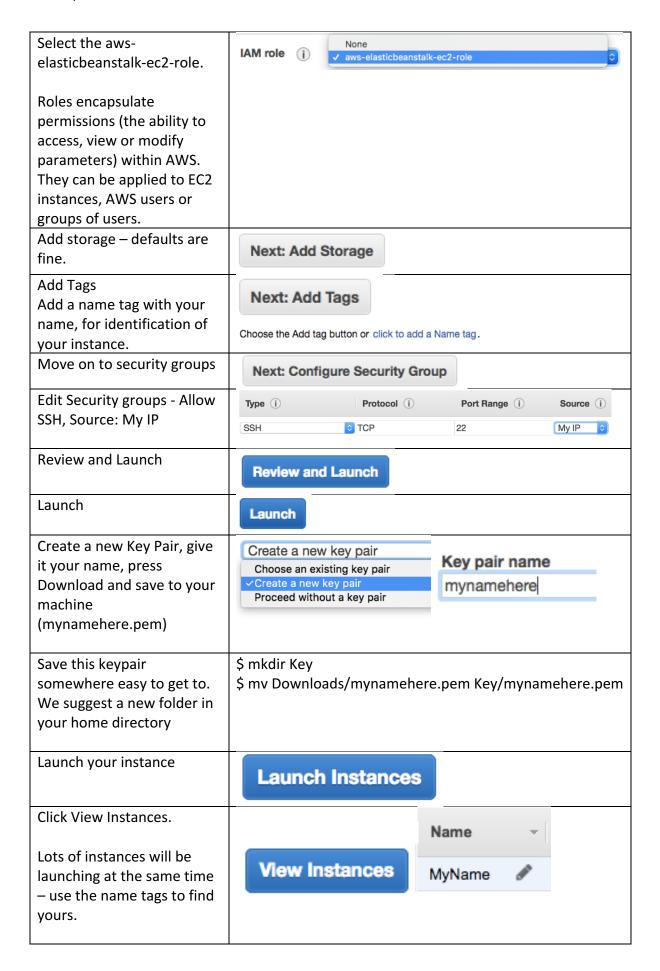
Log in here using the username and password provided in the workshop

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





click Connect and a window should open	Connect
	Connect To Your Instance ×
	I would like to connect with A standalone SSH client A Java SSH Client directly from my browser (Java required)
	To access your instance:
	Open an SSH client, (find out how to connect using PuTTY) Locate your private key file (<mynamehere>.pem). The wizard automatically detects the key you used to launch the instance.</mynamehere>
	Your key must not be publicly viewable for SSH to work. Use this command if needed:
	chmod 400 <mynamehere>.pem</mynamehere>
	4. Connect to your instance using its Public DNS: ec2-52-49-107-46.eu-west-1.compute.amazonaws.com
	Example:
	ssh -i " <mynamehere>.pem" ec2-user@ec2-52-49-107-46.eu-west-1.compute.amazonaws.com</mynamehere>
	Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.
	If you need any assistance connecting to your instance, please see our connection documentation.
	Close
on Mac/Linux, open terminal navigate to your key folder	\$ cd Key
make your private key private by modifying its permissions.	\$ chmod 400 Name.pem
to avoid having to type the long name over and over,	Example: ssh -i "mynamehere.pem" ec2-user@ec2-52-209-161-135.eu-west-1.compute.amazonaws.com
copy it from the connection	Son a myramotot espen del diorecte de 200 201 200 total recompate annacement
window set a variable in bash.	\$ instance=ec2-user@ec2-ip-ip-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)?
connection.	yes you want to continue connecting (yes/no)?
You should now be on the machine.	[ec2-user@ip-ip-ip~]\$
Terminal should show:	

Transferring files from an Amazon S3 Bucket to your instance

Create a text file in your home directory and use a new terminal window to transfer it to your instance using scp.	\$ scp —i Key/myname.pem newFile.txt \$instance:~
As an alternative, we can transfer files from an Amazon S3 bucket to the instance using Amazon's s3 copy command.	[ec2-user@ip-ip-ip-ip ~]\$ aws s3 ls s3://ngcm1 [ec2-user@ip-ip-ip-ip ~]\$ aws s3 cp s3://ngcm1/testFile.txt
Our bucket is called "ngcm1"	
in your terminal window for the instance, check that it's been transferred.	[ec2-user@ip-ip-ip ~]\$ ls
Code can be run on the instance in the same way	[ec2-user@ip-ip-ip ~]\$ python sim.py
Transfer "sim.py" to the instance from the S3 bucket and run it	
Use scp to transfer the output of the simulation out.csv onto your local machine.	\$ scp —i Key/myname.pem \$instance:~/out.csv out.csv
The Amazon Linux AMI uses yum as its preferred package manager. As you have root access to the instance you can install any supported packages, such as gcc.	[ec2-user@ip-ip-ip ~]\$ sudo yum install <package></package>

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!