LAB: Start and Stop an EC2 Instance

You need:

- An active AWS Account

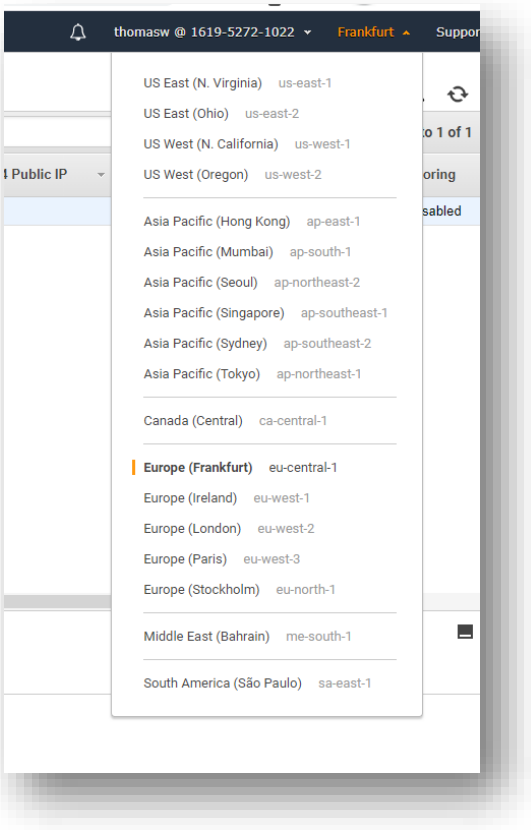
Duration of the Lab: 15 Minutes.

Difficulty: Very easy.

Contents

Select the right Region

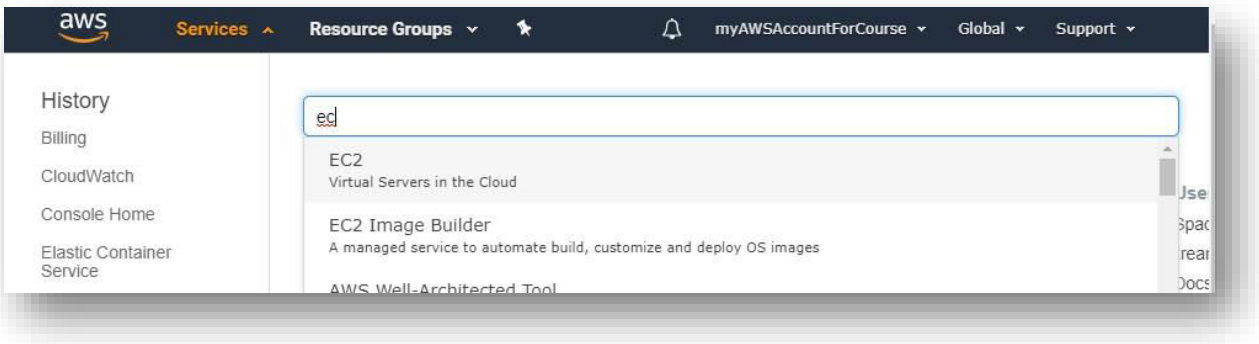
From the Region Dropdown select a region that is near you. I will work with the Europe (Frankfurt) Region throughout the course, because I am in Austria. If you are in a different Region then make sure you remember the short name (e.g. eu-central-1) and substitute it throughout the course with the right region whenever necessary (e.g. CodeCommit)



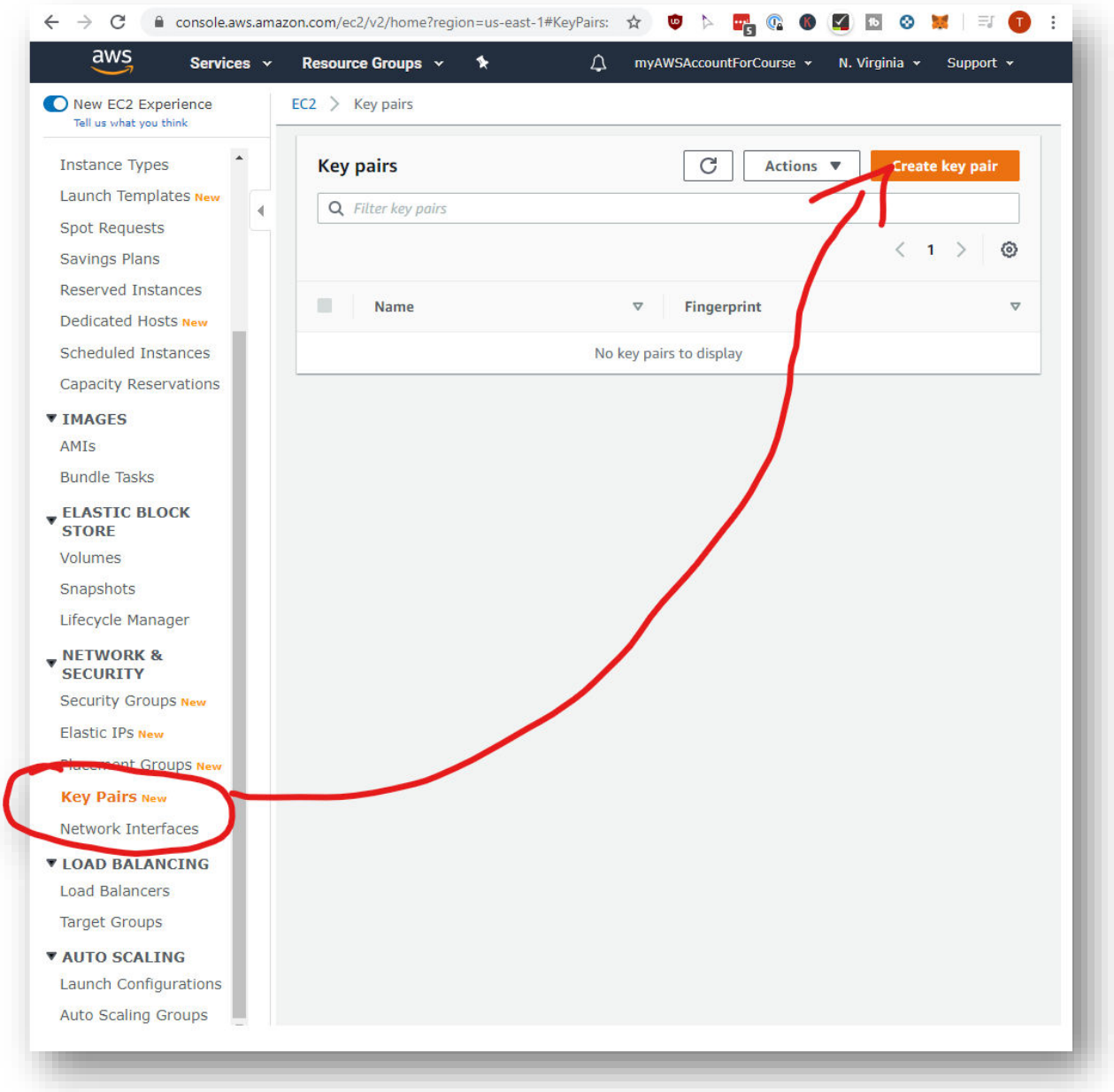
Create a new OpenSSH Keypair

In this lab you are going to start your first EC2 Instance. Before we do this, we have to create a new KeyPair. The Keypair is used to connect to your EC2 Instance securely.

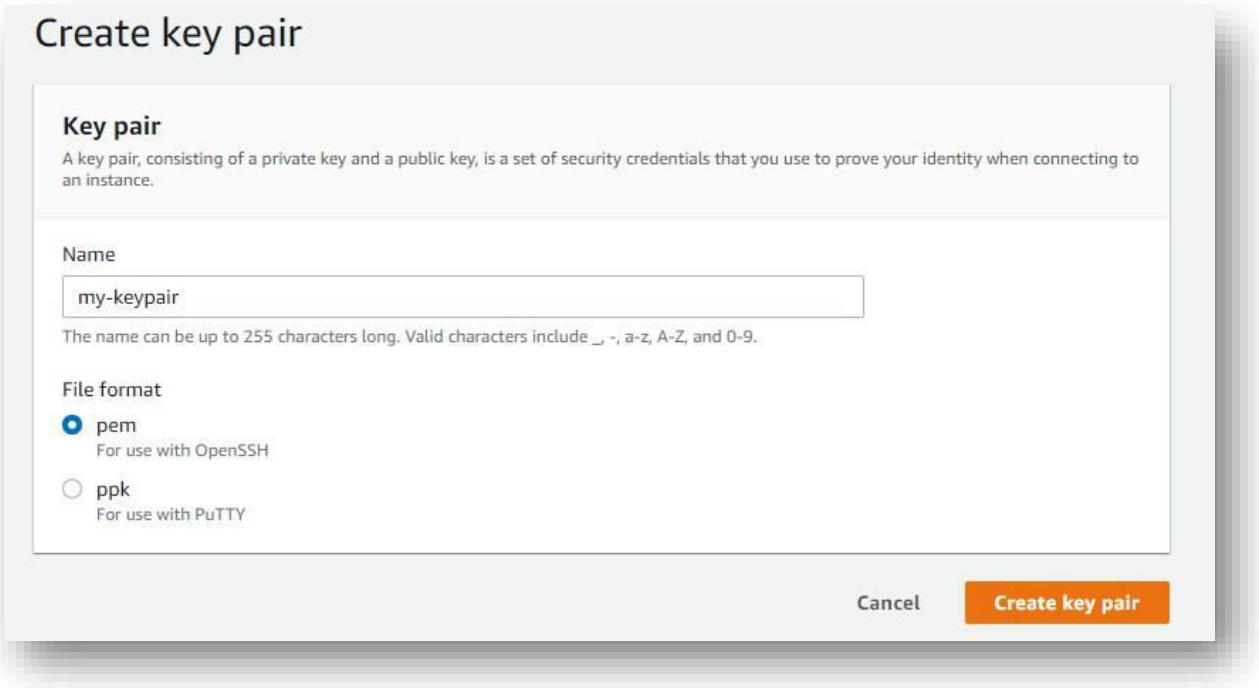
Open the EC2 Dashboard:



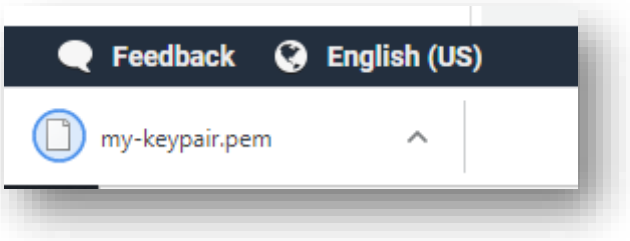
Scroll down until you see “Key Pairs”:



Click on Create Key Pair. Give it a Name and choose pem, because we are going to use OpenSSH for the rest of the tutorial. If you already know that you will use PuTTY then download ppk. Note: You can also use tools to convert a private key in pem-format to a ppk-format using PuttyGen. If all of this doesn't tell you anything, then simply follow along.



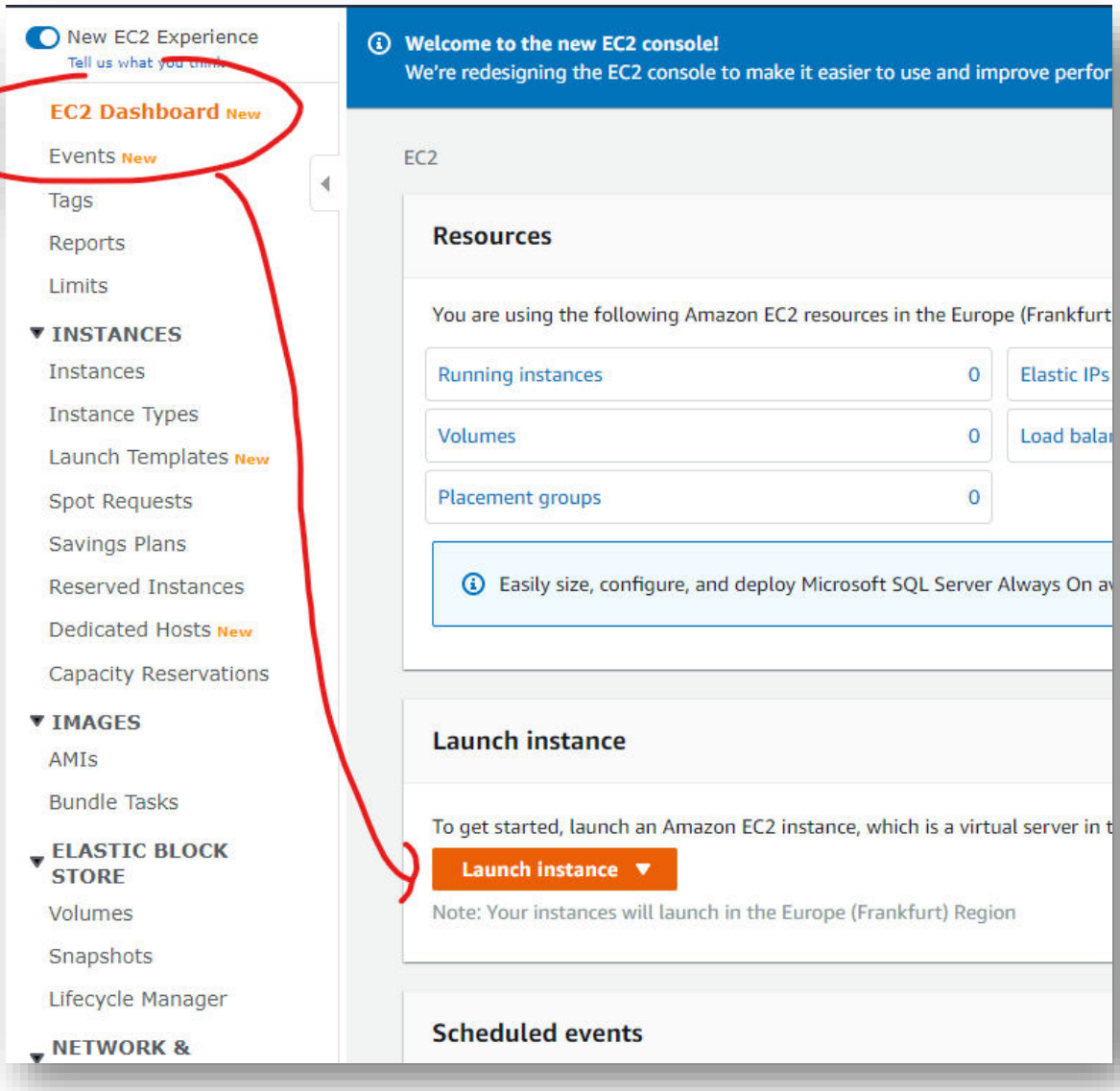
When you click “Create Key Pair” it will automatically download the file:



Store this file somewhere *safe*! You will need this throughout the course.

Start a new EC2 Instance

Now you are ready to start your first instance. Go back to the dashboard:

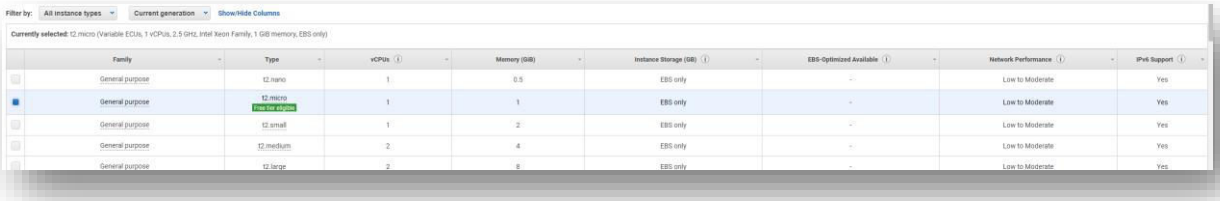


Choose an AMI

Then choose an AMI – an Amazon Machine Image. I choose the Amazon Linux AMI, the first in the list:

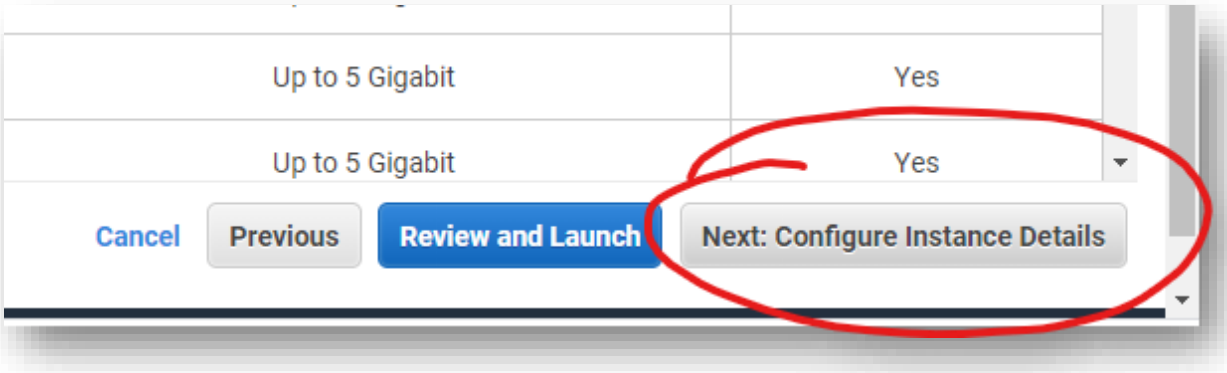
Choose and Instance Type

Next choose an Instance Type you want this image to be run on. If you want keep it free, then simply choose the t2.micro instance, which is free for 750 hours.

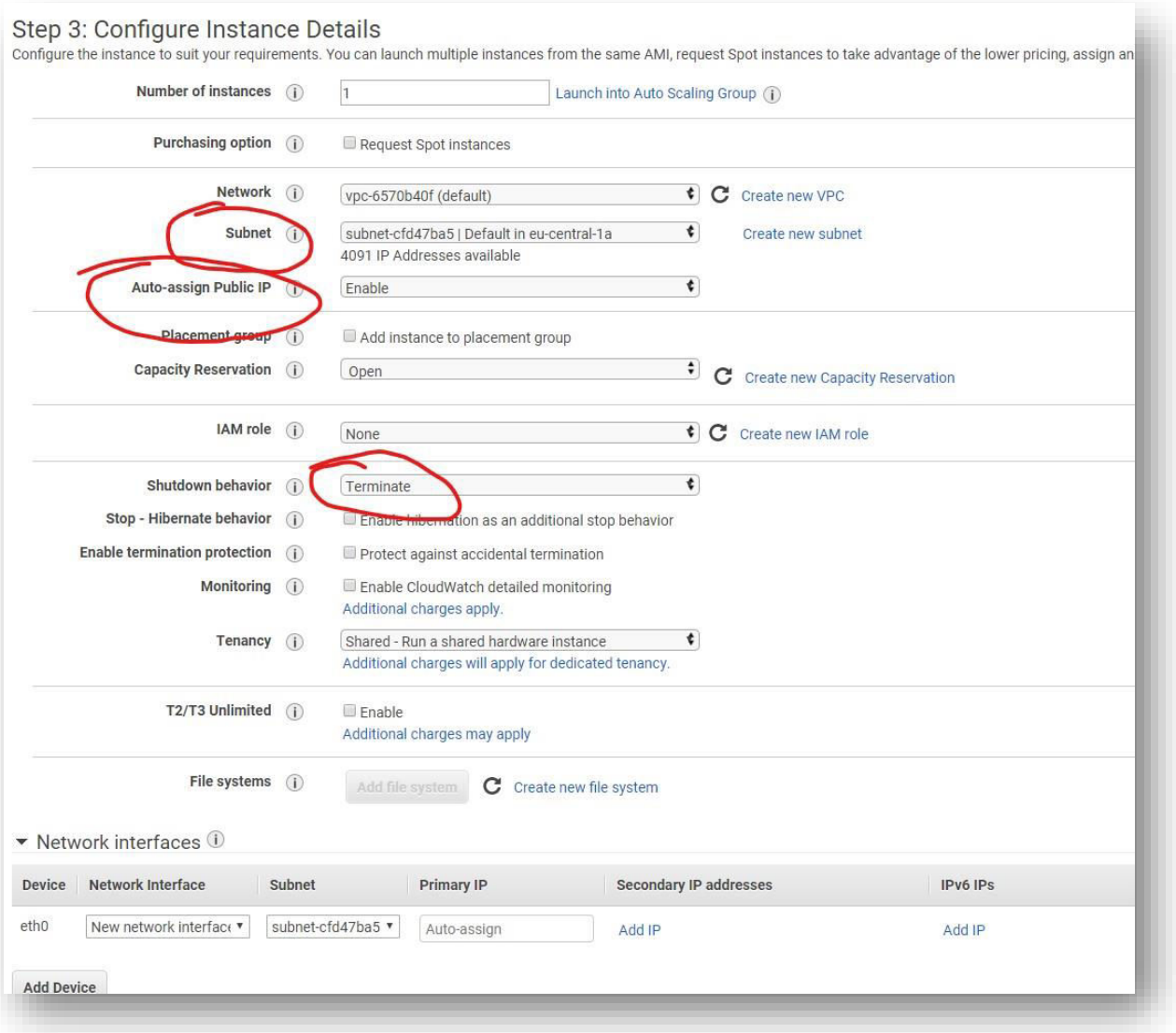


Configure Instance Details

Next, we are going to configure the instance details. **Do not** click on "Review and Launch", instead take it one step at a time.

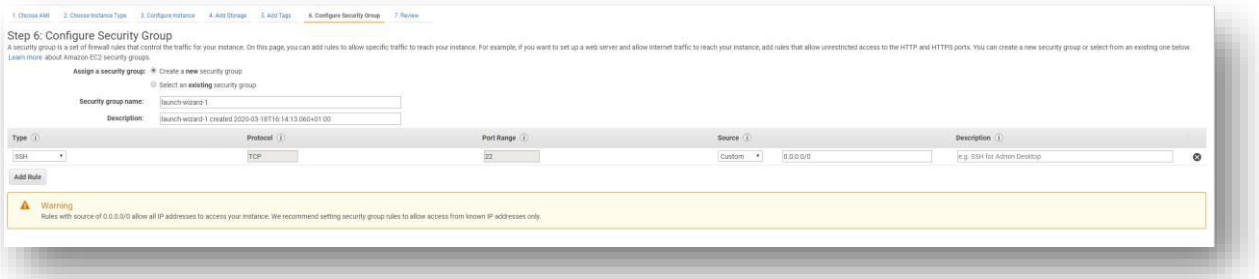


Choose a specific subnet, make sure you get a public IP assigned and Terminate the instance on shutdown:



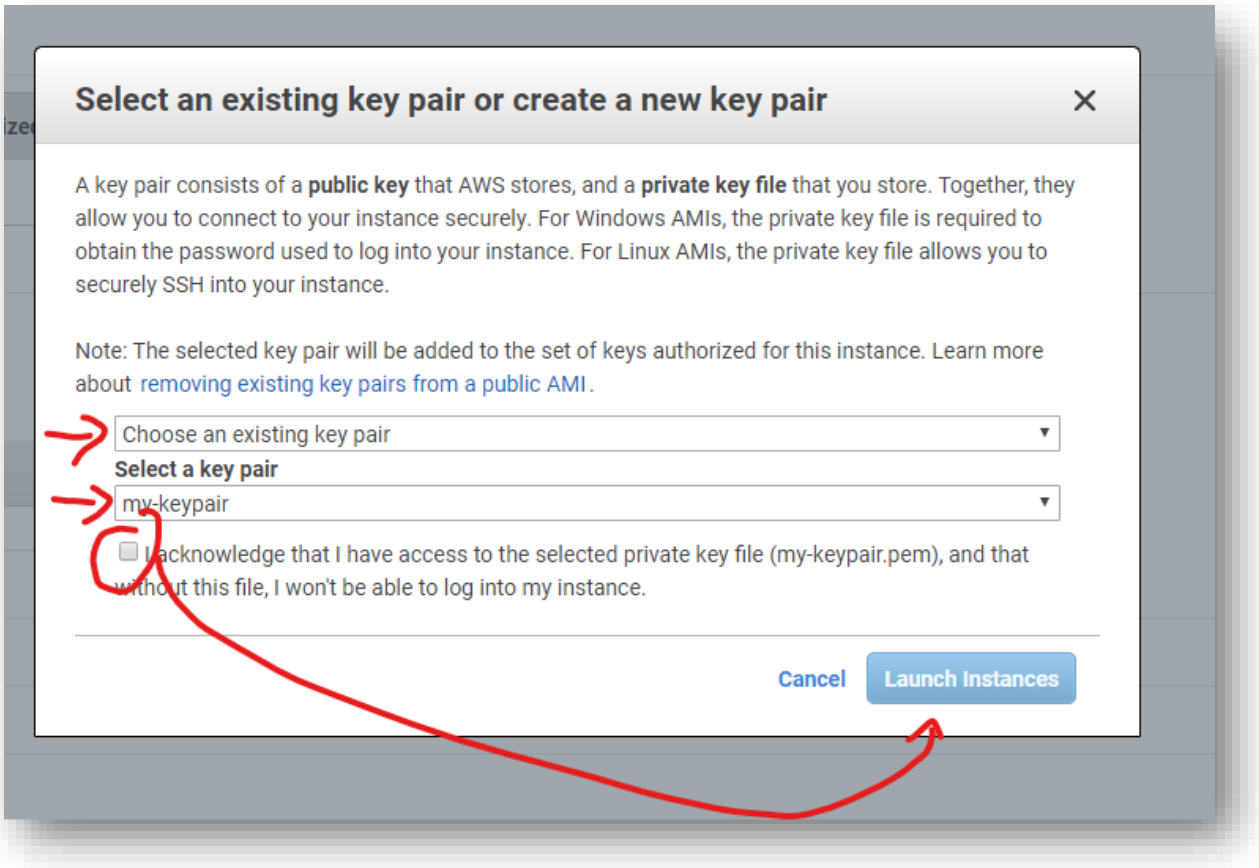
Security Group

Next we configure a security group. A Security group is like a firewall sitting right in front of the instance. In this case we will let only port 22 through, so we can ssh into the instance:



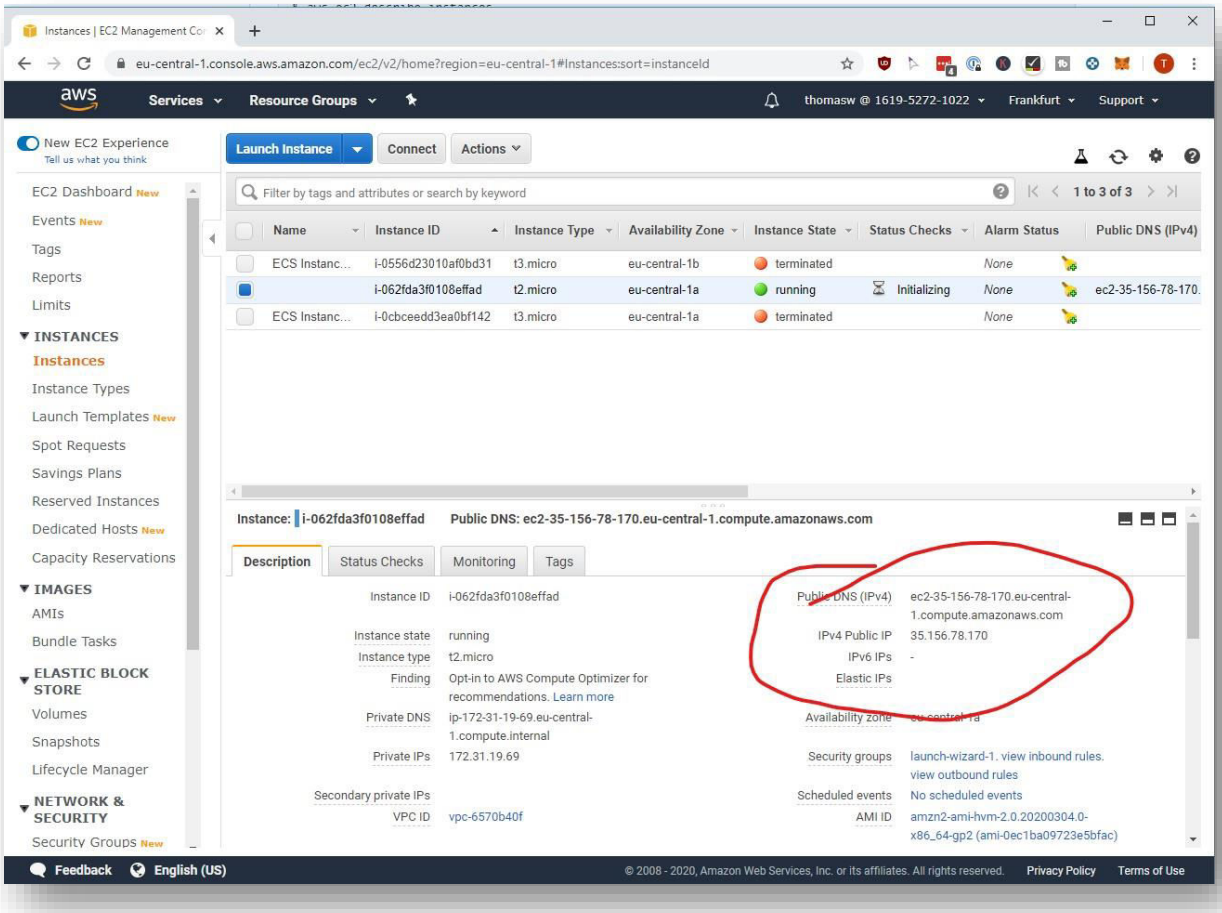
Start and Choose a KeyPair

Then start the instance. A Popup should appear asking you which Key you want to use to login into the instance. Select the key you created before, check the checkbox and click “Launch Instance”



SSH Into your Instance

Wait a bit until your instance has the “Instance State” running. Then a public DNS should appear including a public IP4 Address.

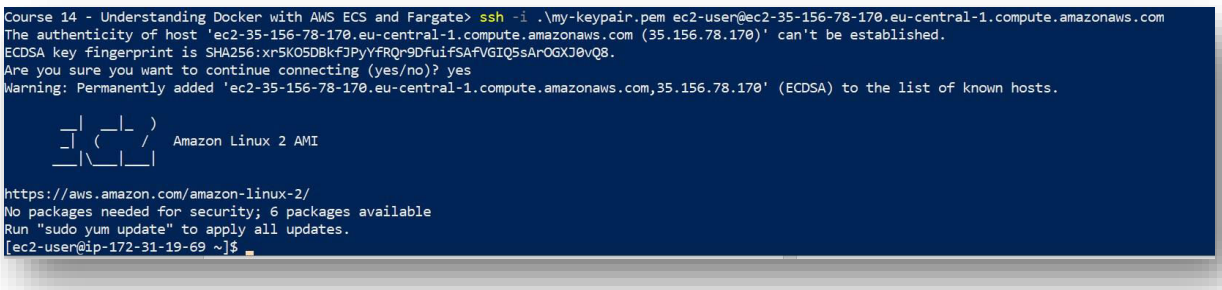


Copy the Public DNS. Open a terminal (Linux/Mac) or PowerShell (Windows) and enter the following command:

```
ssh -i ./my-keypair.pem ec2-user@[publicDNS]
```

Alternatively, you can click on the “Connect” button on the top of the Instance List and go through the tutorial.

The following output should appear:



Note for Windows users: SSH should be included in Windows 10, if you need to install SSH first (if an error appears), then follow this guide: https://docs.microsoft.com/en-us/windows-server/administration/openssh/openssh_install_firstuse#installing-openssh-from-the-settings-ui-on-windows-server-2019-or-windows-10-1809

Type in

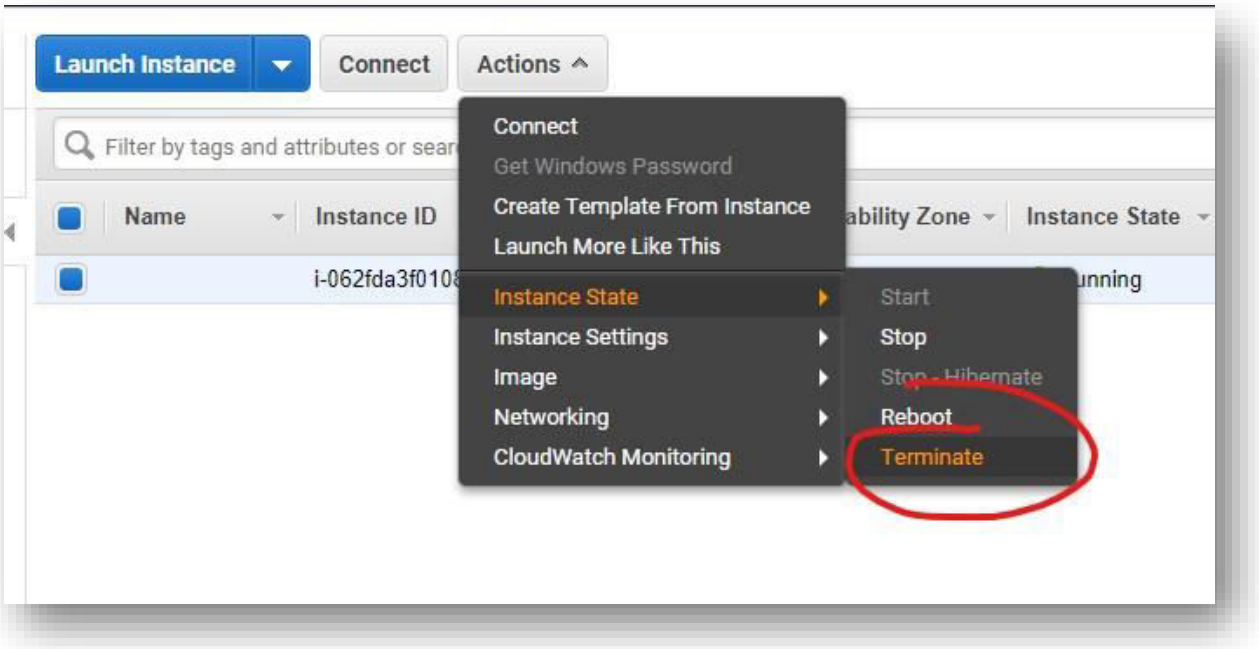
```
exit
```

Congratulations, you successfully connected to your first Instance!

Cleanup

Remove the Instance again

Now remove the instance to clean up.



Lab Finished