lab

lab title

Connecting to EC2 Instances

V1.00

Course title

BackSpace Academy
AWS Certified Associate

BackSpace

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About the Lab

These lab notes are to support the instructional videos with AWS in the BackSpace AWS Certified Associate preparation course.

Please note that AWS services change on a weekly basis and it is extremely important you check the version number on this document to ensure you have the lastest version with any updates or corrections. The videos may not be as current as these lab notes so please follow these lab notes carefully.

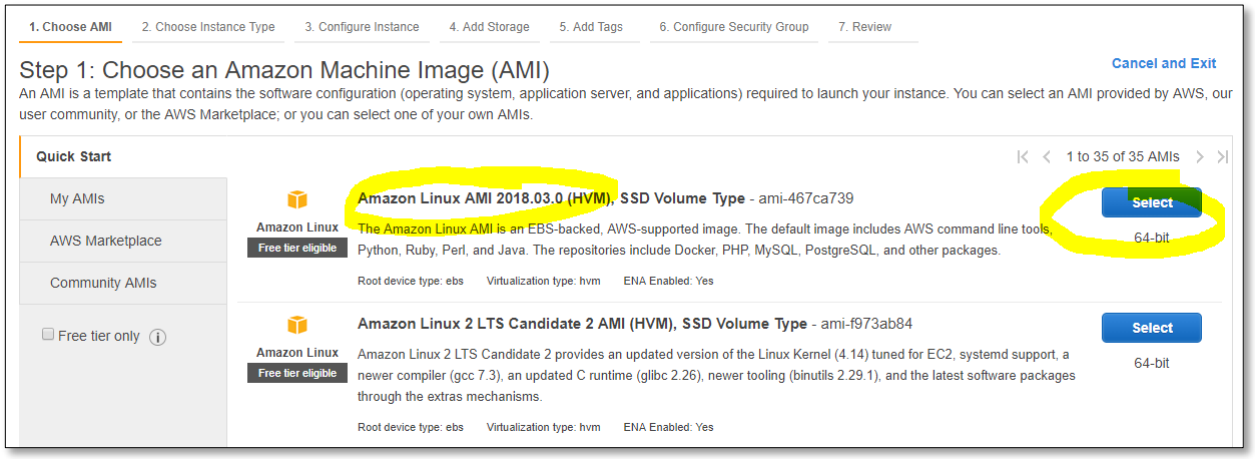
Creating an Amazon EC2 Instance and Key Pair

In this section we will use the EC2 service to create and an EC2 instance and a key pair for connecting to the operating system of the instance.

Select the EC2 Console.

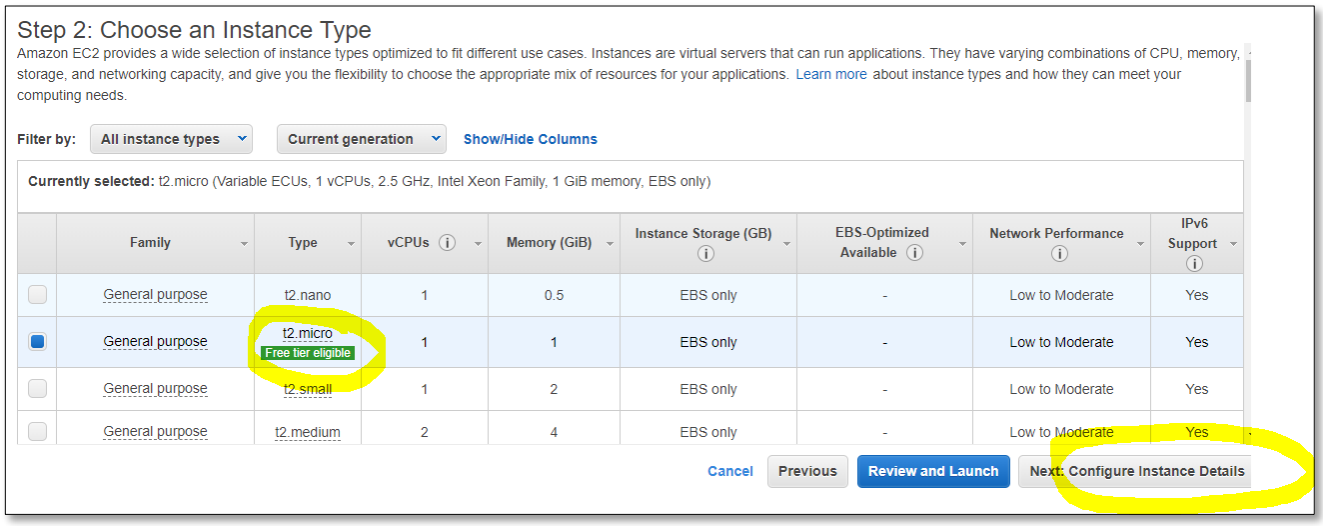
Click “Launch Instance”

Select the Amazon Linux AMI



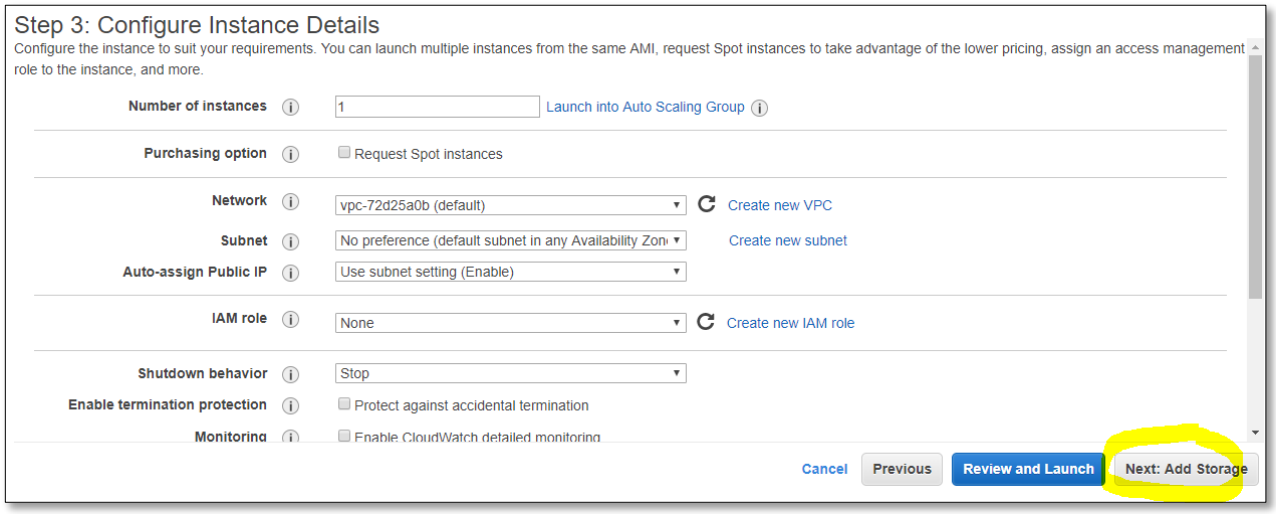
Select t2 micro instance

Click “Next: Configure Instance Details”

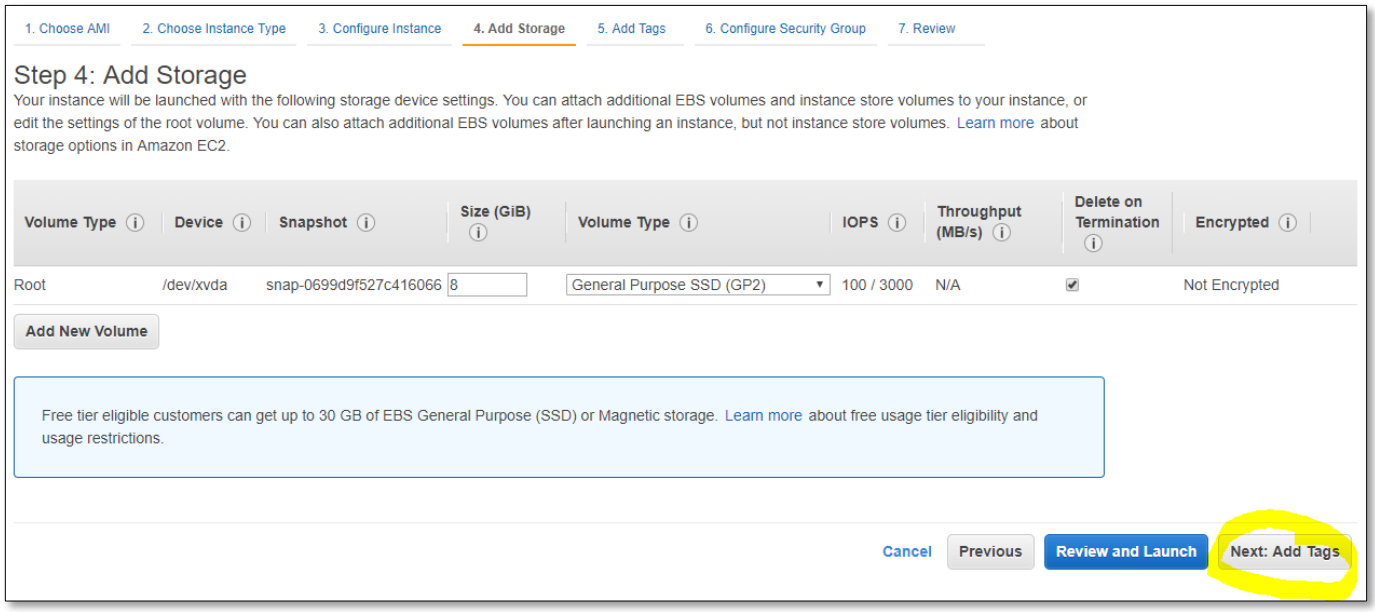


Leave default settings

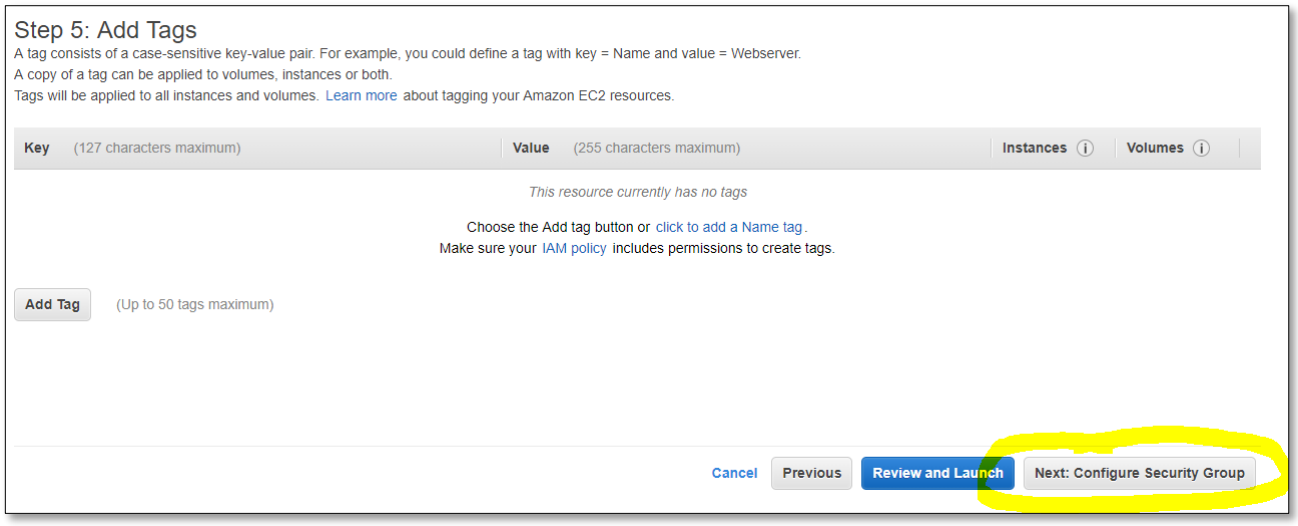
Click “Next: Add Storage”



Click “Next: Add Tags”

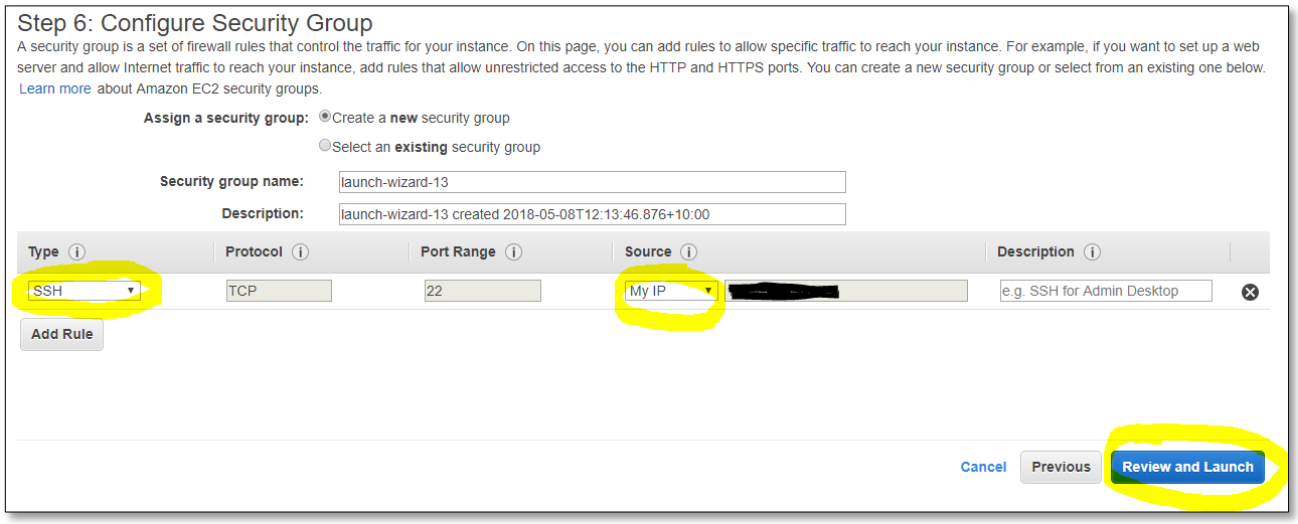


Click “Next: Configure Security Group”

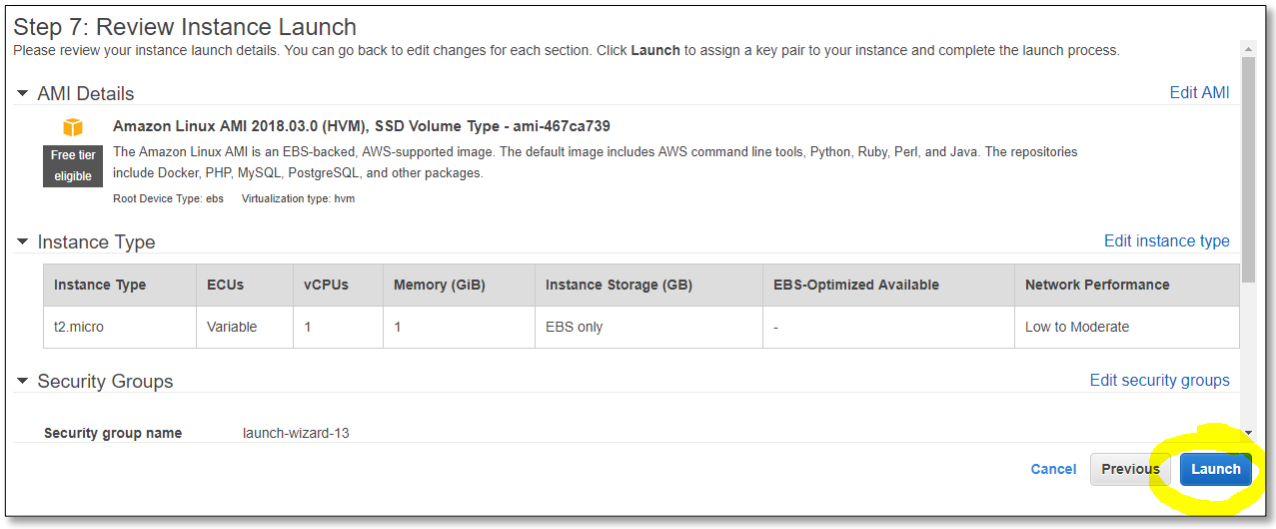


Select “My IP” to allow SSH access only from your IP address (note if you are using a dynamic IP address leave this as “Anywhere”)

Click “Review and Launch”



Click “Launch”

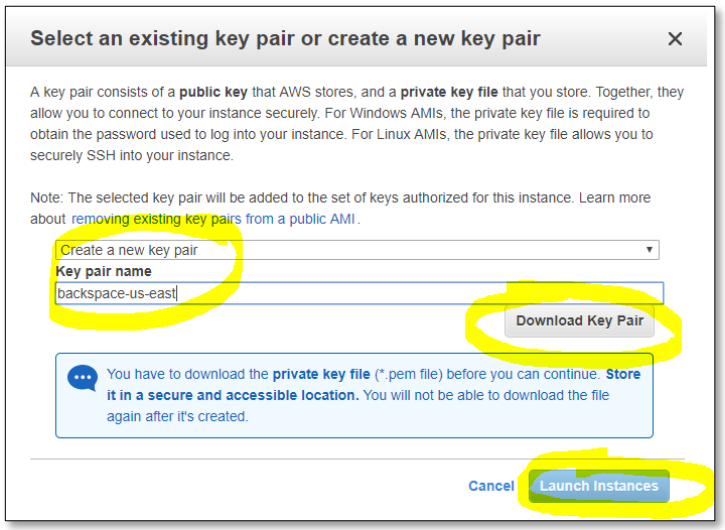


Select “Create a new key pair”

Give the key pair a name.

Download the key pair (pem file) somewhere safe.

Click “Launch Instance”



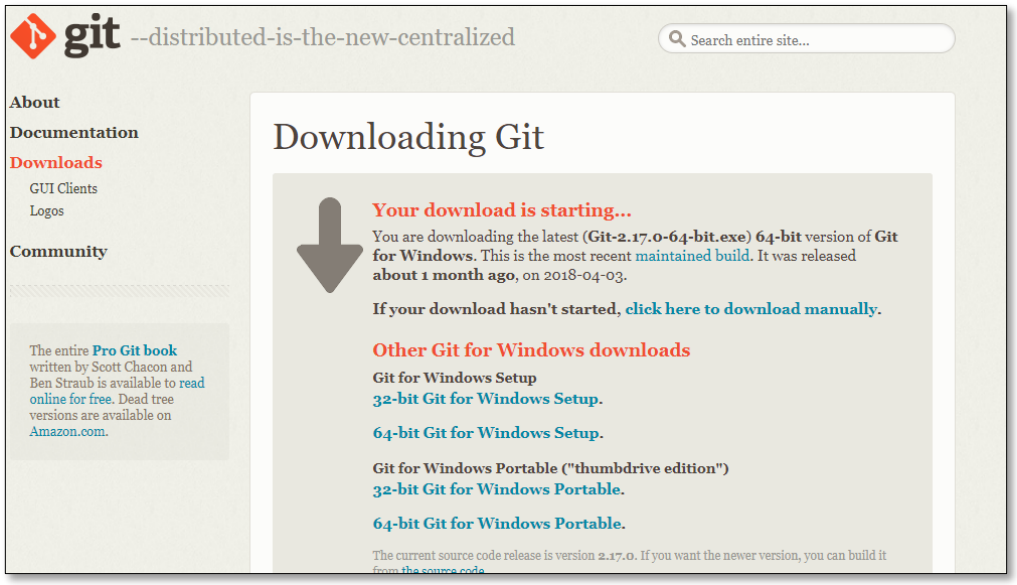
Installing a Cygwin Client for Windows

This section is only required for Windows operating systems. Linux/Unix systems such as Mac will work out of the box with SSH. In this section we will install Git for Windows. This will install and integrate with the Cygwin environment.

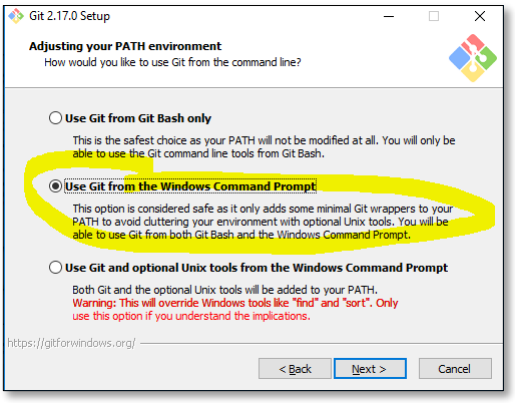
Please note there are a number of options available for Unix emulation client on Windows but Git for Windows provides the most reliable integrated solution.

Go to https://git-scm.com/download/win

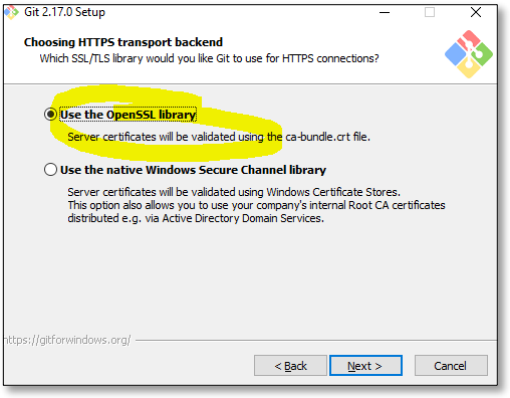
Download and install Git for Windows



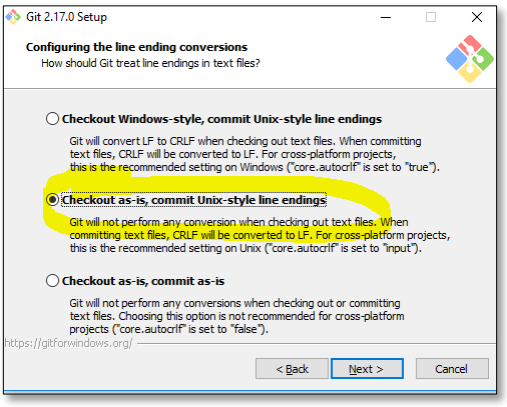
Select “Use GIT from the Windows Command Prompt”, click Next



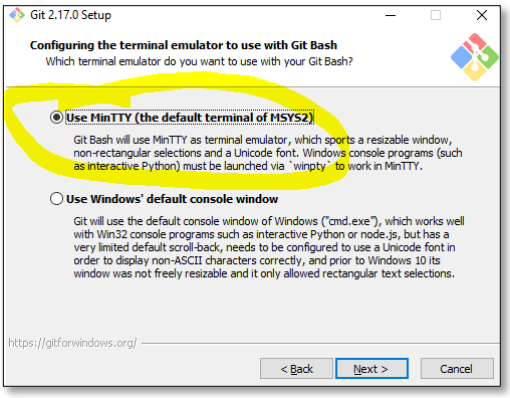
Select OpenSSH, click Next



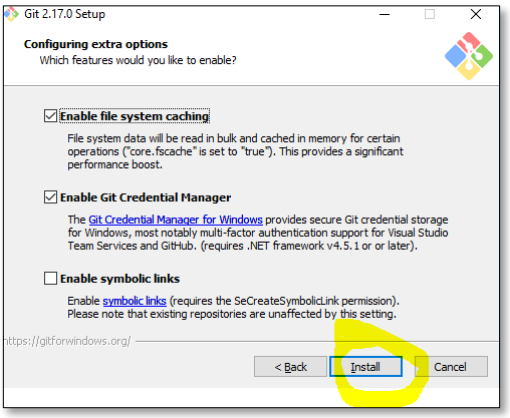
Select Checkout as-is, commit Unix-style line changes style, click Next



Select Use MinTTY, click Next



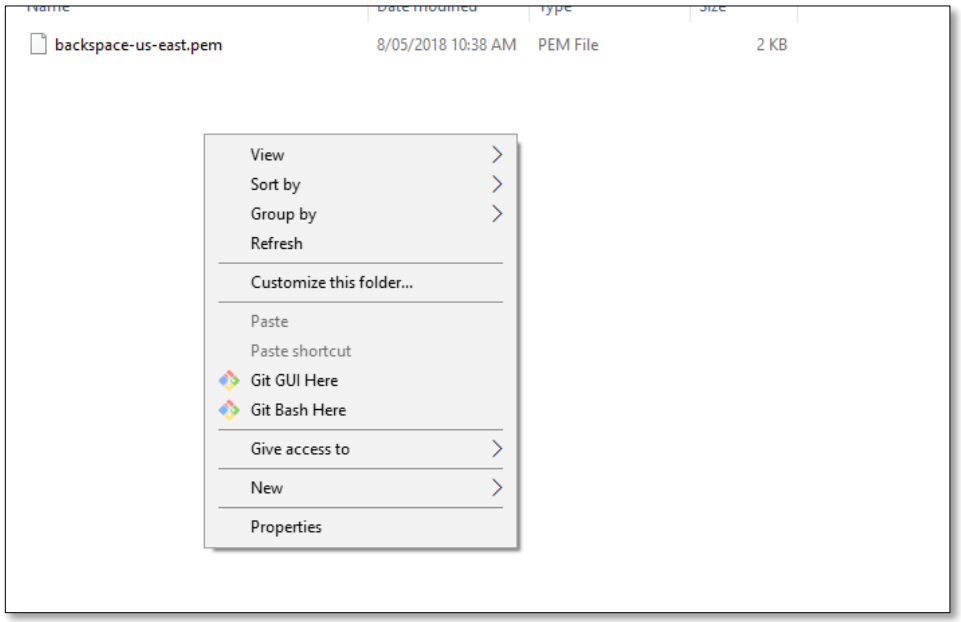
Click “Install”



Open File Explorer

Right click inside a folder

If the installation was successful, then you should see an option “Git Bash Here”.



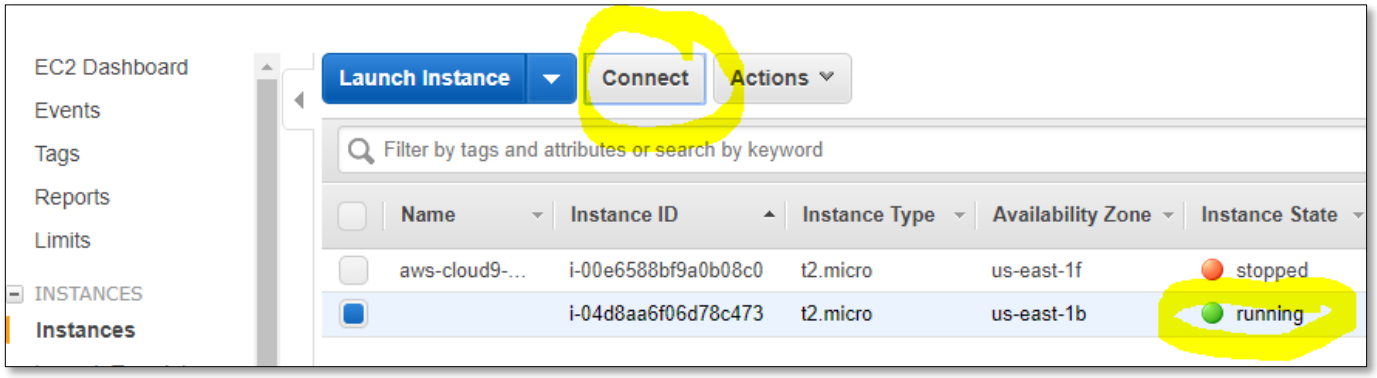
Connecting to an EC2 Instance using an SSH Client

In this section we will use Git Bash to connect in to our EC2 instance. Mac and Linux users can use the terminal to connect.

Go to the EC2 console

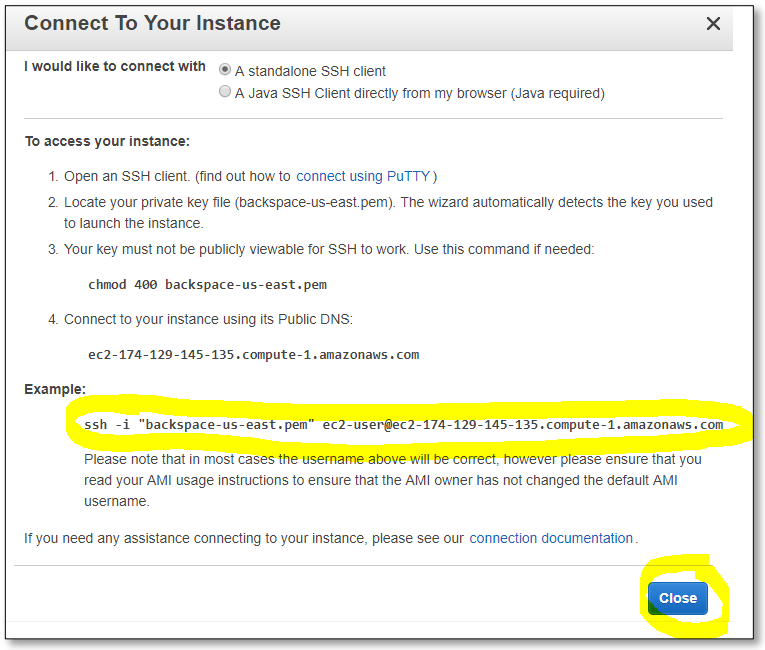
Select the instance you created previously

Click “Connect”



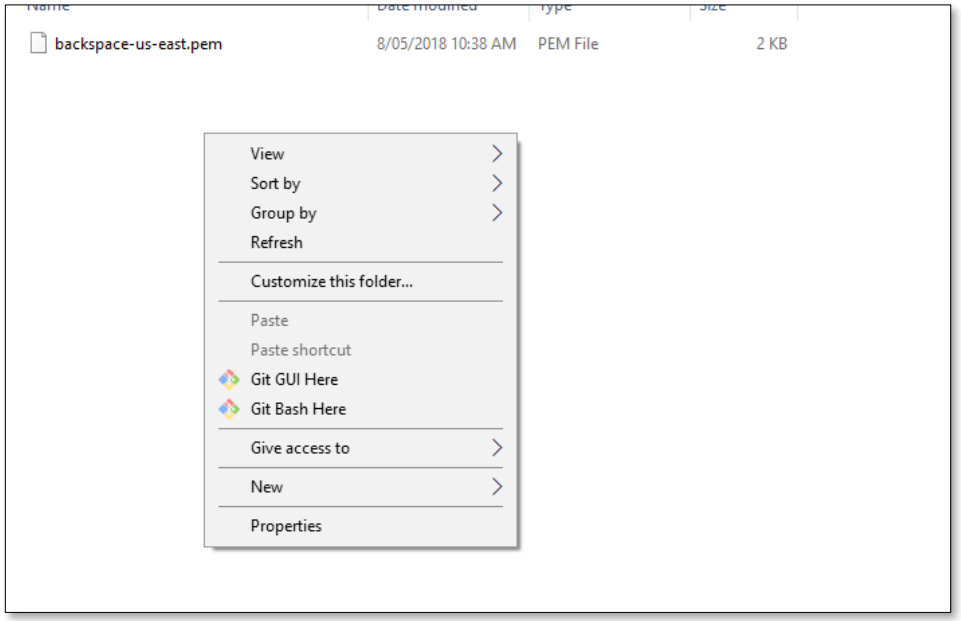
Copy the connection command

Click “Close”

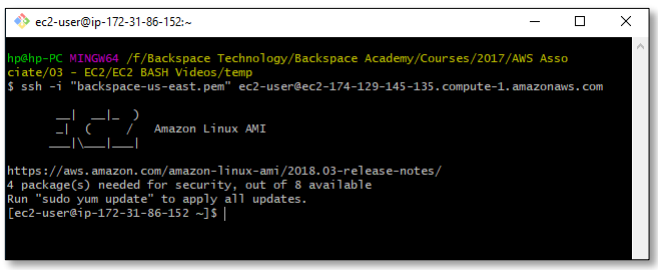


Navigate to the location of your key pair (pem) file using File Explorer.

Right click and select “Git Bash here”

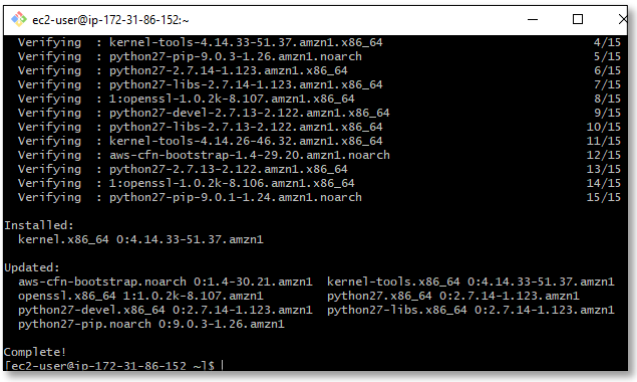


Paste in the connection command and press enter

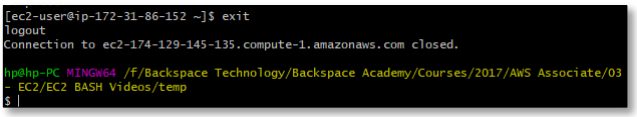


You will now be connected to the Linux operating system of your EC2 instance.

Try a sudo yum update command



To exit the connection type exit



Clean Up:

To ensure you don't get billed for the instance make sure you go back to the EC2 console and terminate the instance.

You can leave the key pair for use later. Just make sure you save it somewhere safe.