Lab B

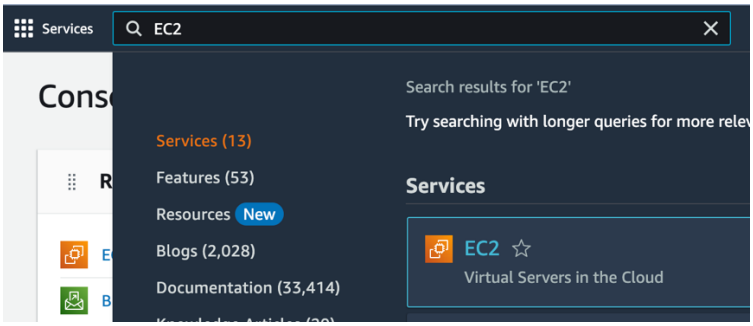
Creating a Windows EC2 instance (A Windows Server in the Cloud) using the AWS Management Console.

1. Open the Learner Lab.

From our AWS canvas dashboard choose the Learner Lab and open the Modules and then the 'Launch AWS Academy Learner Lab' link. Make sure to click the Start lab link and wait for the AWS link to have the green circle next to it and open the lab.

2. Open the EC2 service.

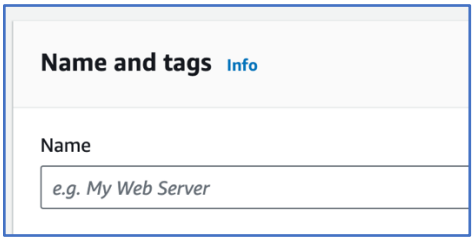
Search for the EC2 Service and click the blue EC2 link.



3. Launch and name a new instance

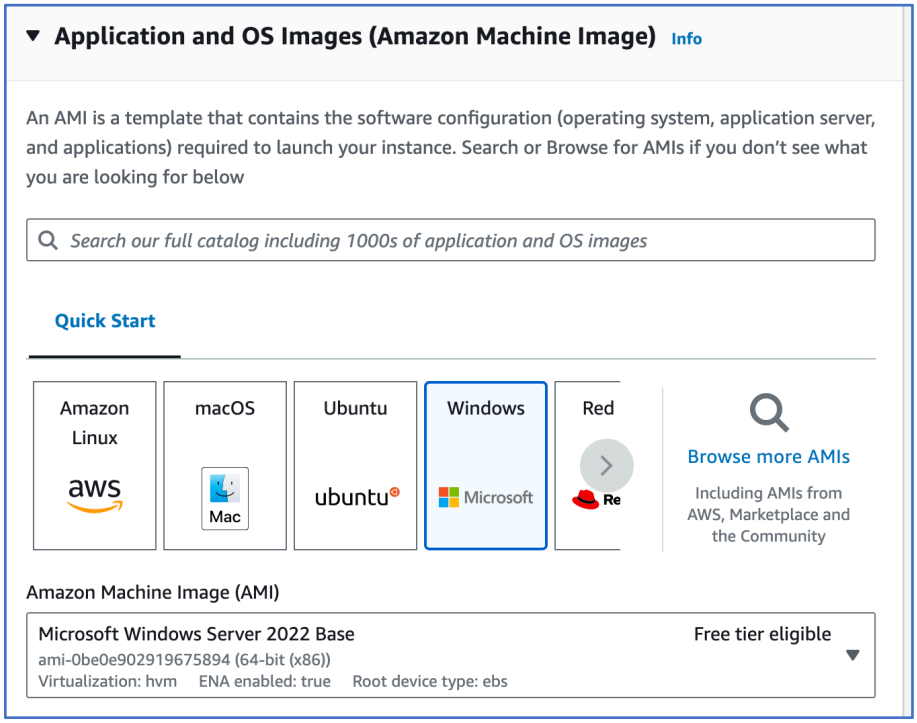
Click on the 'Launch instance' button.

Name the instance.



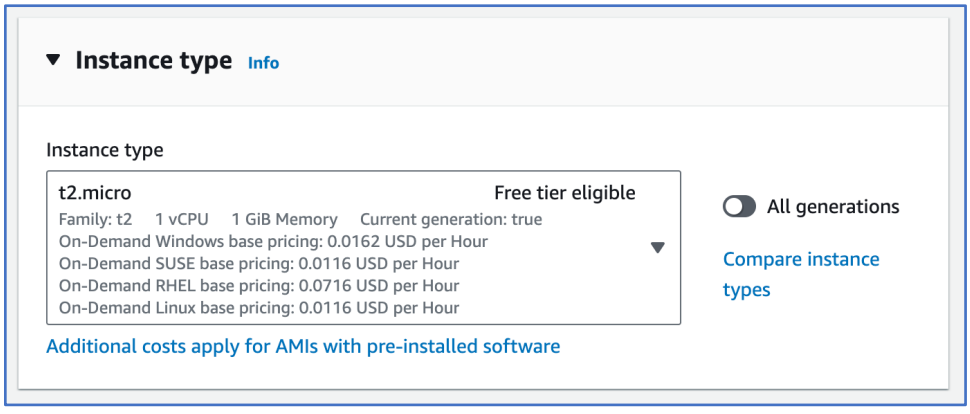
4. Pick an AMI (Amazon Machine Instance).

For this lab we will use Windows from the ‘Quick Start’ tab (this is free tier eligible)



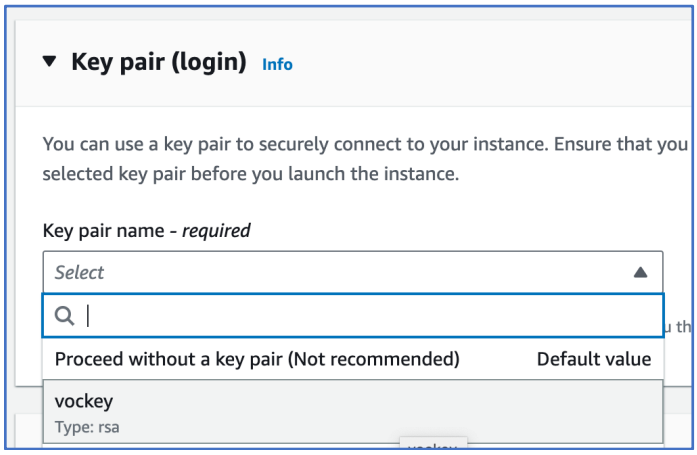
5. Choose an instance type.

Choose the t2.micro (this is free tier eligible)

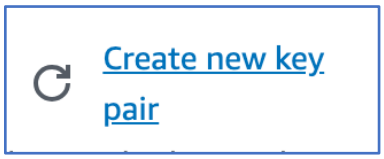


6. Create the key pair for login

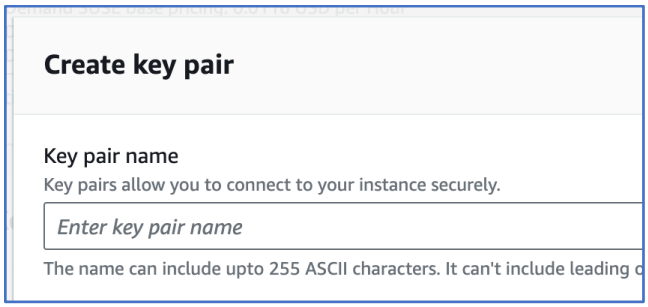
Choose the ‘vockey’ type.



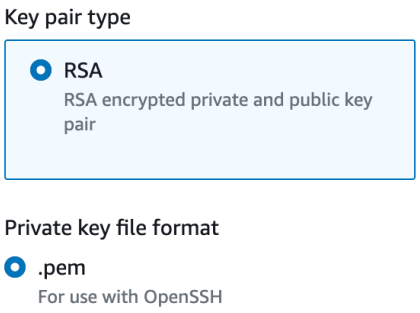
Click the ‘Create new key pair’ link.



Give the key pair a name. This will be the name of a .pem file that will be downloaded later.



Leave the defaults of type ‘RSA’ and file format of .pem.

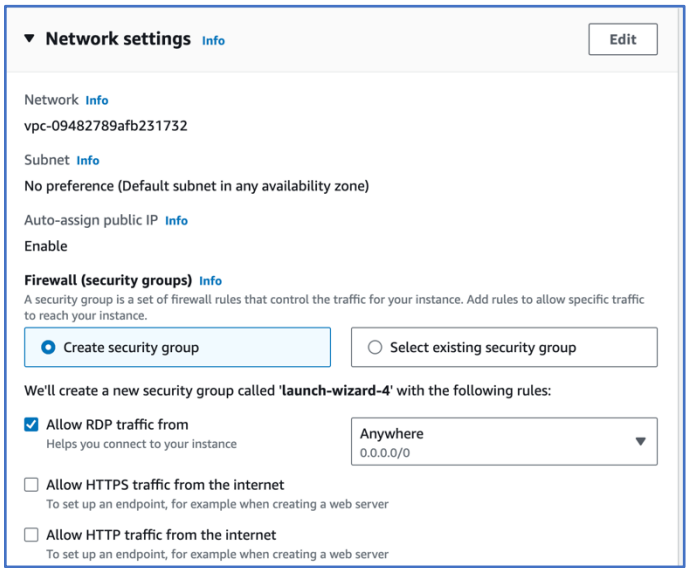


Click the ‘Create key pair’ button.

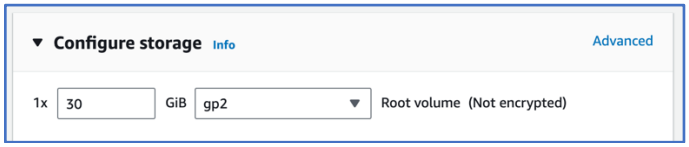
This will download a .pem file. Just make note of where it is for later.

7. Finish setting up the instance.

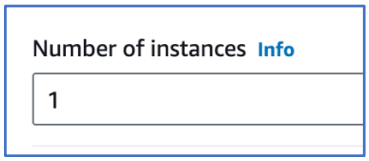
Leave the Network settings on defaults. Our firewall is wide open, but for this lab we won’t worry about that.



Leave the storage about at the 30GB general purpose (gp2) defaults.

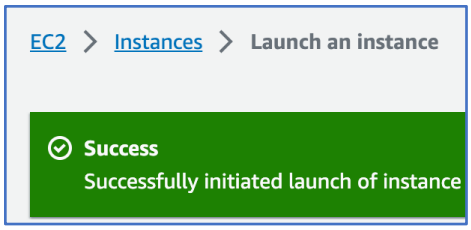


We are only creating one instance so leave the ‘Number of instances’ at 1.



Click the ‘Launch instance’ button.

You will see your instanced was launched successfully. Now click on the ‘Instances’ blue link in the breadcrumbs.



8. Wait for your instance to initialize and have 2/2 checks

You will see your ‘instance state’ go from pending to running, but the ‘status check’ will still be on initializing.

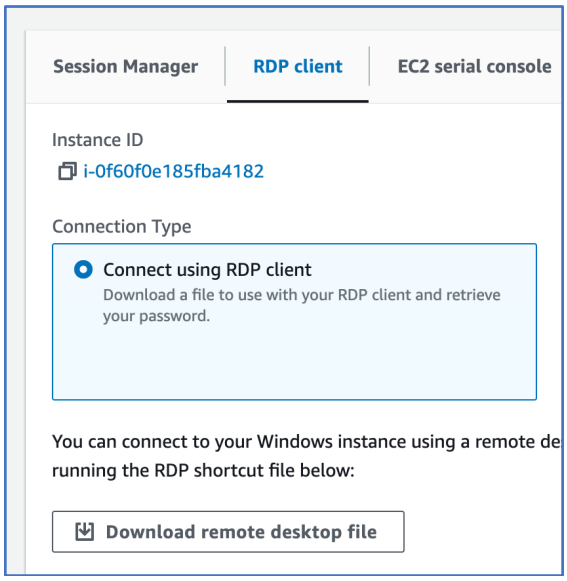
Wait several minutes until you will eventually see the 2/2 checks passed under ‘status check’. Once you see this, you can begin the next steps. You may need to refresh the page.

9. Connect your instance.

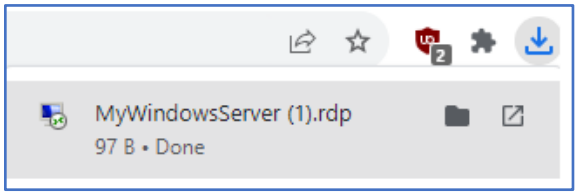
Check the box to the left of your instance name.

And then click ‘Connect’.

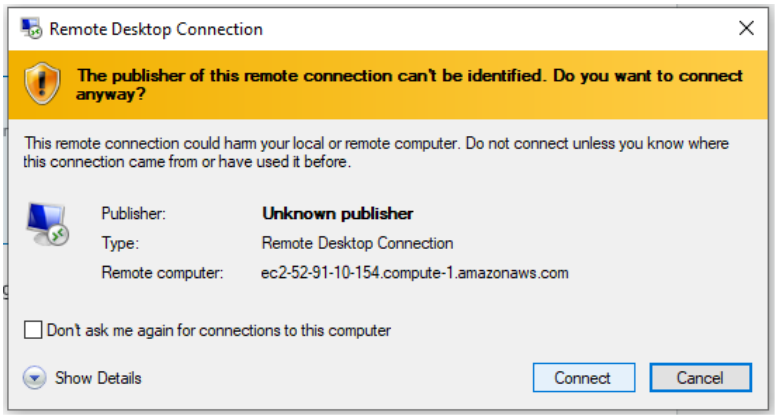
Choose the ‘RDP client’ tab and leave the ‘Connection Type’ default and click the ‘Download remote desktop file’



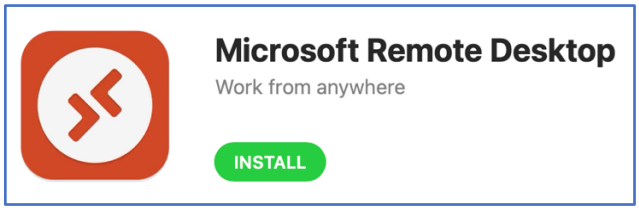
You will see a .rdp file downloaded.



Double click the .rdp file and you will see this ‘Remote Desktop Connection’ popup. Click ‘Connect’.

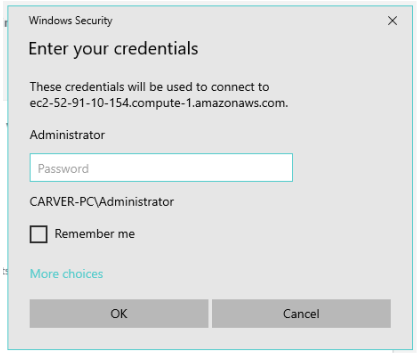


FOR MAC USERS ONLY: (Mac users may not be able to open this file. If that is the case, you can download 'Microsoft Remote Desktop and you will be able to finish the lab)

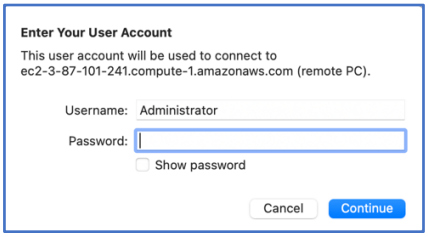


FOR EVERYONE:
It will then ask for your password which is a part of the key pair .pem file we created earlier.

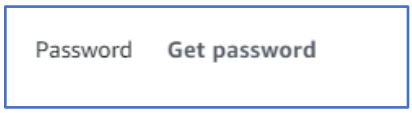
Windows:



Mac:



So, leave this window open and go back to your AWS Management Console and click the 'Get password' link.

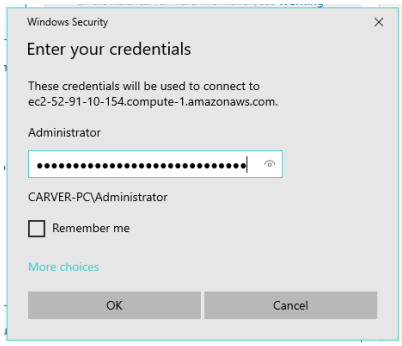


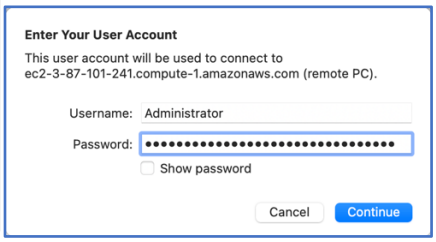
Upload the .pem file you created earlier and click the 'Decrypt password' button.

Copy the password that shows up after you've decrypted it.

Then paste is back in the 'Enter your credentials'/'Enter Your User Account' window that you still have open and click 'OK'.

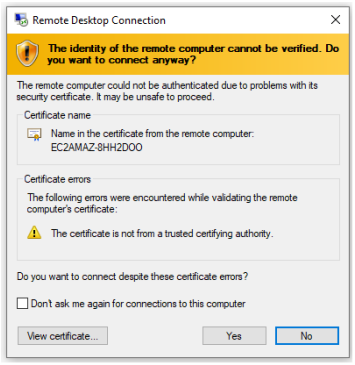
Windows: Mac:

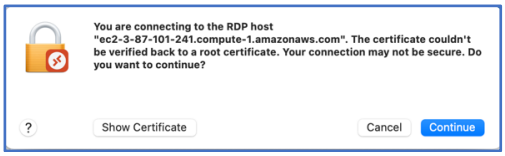




You can see this 'Remote Desktop Connection' popup. Click 'Yes/"Connect'.

Windows: Mac:





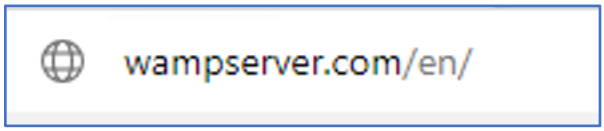
Your Windows Server will now take a moment to open.

We now have a cloud windows server. Very cool! Let's play around with it before disconnecting from our instance.

Let's add the WAMP software stack that allows you to set up a server.

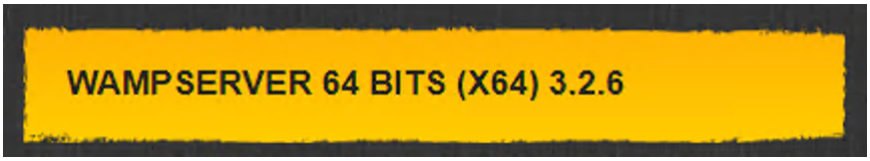
Open the Edge browser. It might ask if you want to sync to your MS account. You don't need to.

When you get past any setup it's asking about. Go to wampserver.com/en/



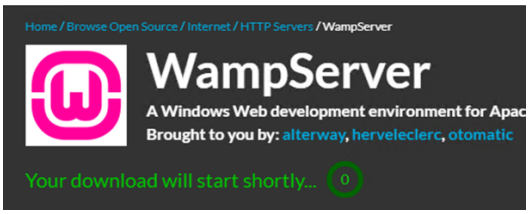
Click Download.

Click WAMPserver 64 bits.

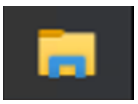


Click the ‘you can download it directly’ link if you don’t want to enter all your information.

It will take you to sourceforce.net and the download will start automatically.



Give it a few minutes to download. After a few minutes, you will have an .exe file in File Explorer in Downloads.

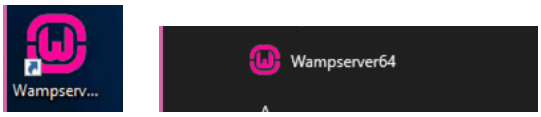


After you see the wampserver#.#.#_x64.exe file you can close Edge.

Double click the .exe file and accept the agreement and run the install wizard with all defaults (no need to install any patches).

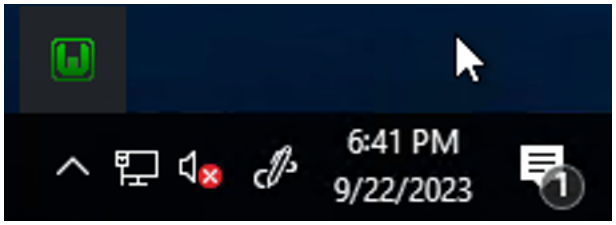
It will take a few minutes to install. It may ask if you want to use a different browser than Edge and a different editor than Notepad, just say no since we haven’t downloaded any others.

When it’s done installing you will see the WAMP icon shortcut on the desktop, or see it when you click the windows button. Go ahead and start the WAMP server.

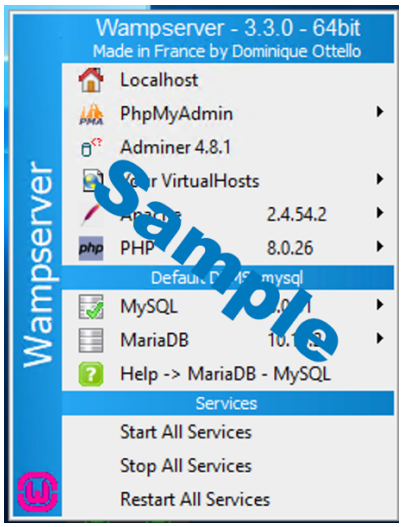


It will take a minute for it to start. You may see some windows flashing open and closed and you will eventually see this:

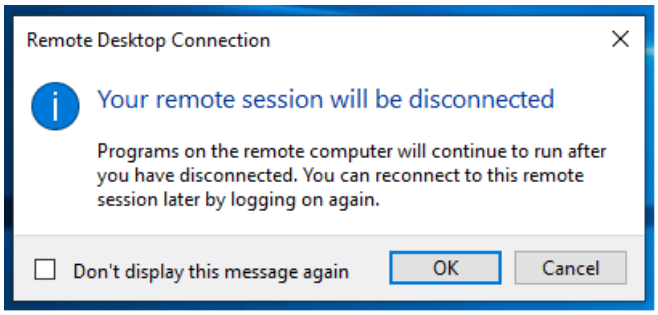
Once it's started you will see a green WAMP icon from your task bar arrow. If it's green the WAMP server is running.



Click the green icon and you will see your menu for the WAMP server. Take a screen shot of this menu to turn in for the assignment.

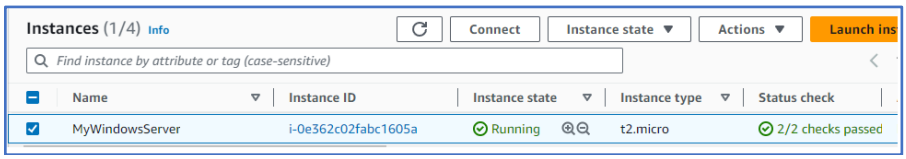


You can play around in the Windows server more if you'd like and when you are done, close it with the 'X' at the top of the remote server window. It will verify that you want to disconnect. Click 'OK'.

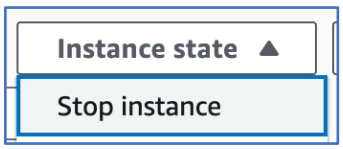


10. Stop your instance from running.

Go back to your list of instances and check the check box next to your instance.



Click the 'Instance state' drop down and choose 'Stop instance'. You don't want to leave your instances running if you are not using them.



You can terminate your instance if you'd like, but it is not necessary. It will start running again when you return to the Learner Lab, so keep that in mind but we chose an instance that should not cost much where it was in the free tier.

Click 'End Lab' in Learner Lab.

That it, great job!