

- **Task 1: Launch an Amazon EC2 instance**
 1. Go to **AWS Management Console** -> **Services** -> **EC2**
 2. Click on **Launch Instance**
 3. You will be asked to select **Amazon Machine Image(AMI)**
 4. Select **Amazon Linux 2 AMI**
 5. Select **instance type t2.micro**
 6. Click next **configure instance details**
 7. Keep everything as default
 8. Click next **add storage** default general purpose
 9. Click next **add tags**
 10. In tags click on **add tag**
 11. Add the tags given below
 - **Key:** Name
 - **Value:** Web Server
 12. Click next **Configure security group**
 13. Click on **create a new security group**
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 - **Security Group name:** Web Security Group
 - **Description:** Enable HTTP Access

You will have SSH as a default rule

13. Now Add Rule
 - 1st Rule
 - **Type:** HTTP
 - **Source:** Anywhere
 - 2nd Rule
 - **Type:** HTTPs
 - **Source:** Anywhere
15. Now if you see you have 3 rules SSH, HTTP, HTTPs
16. Click on **review and launch**
17. In the **key pair** dialog box select **Create a new key pair, download the new key pair**, select the acknowledgement box, then click **launch instances**.
18. Now you will get the instance ready scroll down click on **view instances**
 - **Task 2: Connect to the Instance**

When Amazon EC2 launches a new windows instance, it generates a random Administrator password. This prevents other people from having access to your instance.

In this task you convert the private key and use it to connect to the Linux instance using **PUTTY** software

19. **Open PuttyGen** software and load the key pair(.pem) file that you downloaded earlier
20. Click on save as private key and save it to folder of your choice
21. Return to **Amazon EC2 Management Console**
22. When the instance is ready select the instance
23. Copy the IPv4 public address from the **description** tab
24. Open Putty software paste the IP address in the **Host tab**, Go to the SSH tab, go to Auth section and choose the converted key pair.
25. Click on connect and yes.
26. Then login using the username **ec2-user** since this is a Linux instance
 - **Task 4: Configure the Linux Instance**

You are now connected to your Amazon EC2 Linux Instance. We will have to install apache to test the web server.

27. Update the linux instance by running the command
sudo yum update
28. Install apache server
sudo yum install httpd
29. Go to the default apache directory
cd /var/www/html
30. Create an html file and place sample text in it
sudo nano index.html
<html><h1> Welcome to My first EC2 web server!</h1></html>
31. Press Ctrl+ X to exit and yes to save the file
32. Run the httpd service
sudo service httpd start
33. Go to the AWS Management Console
34. Select the EC2 Instance and copy the public IP address of the instance.
35. Open a new browser tab and paste the IP address
36. You should be able to see the text in the html file
37. Once you are done with the instance go to Actions and terminate it to shut down it.