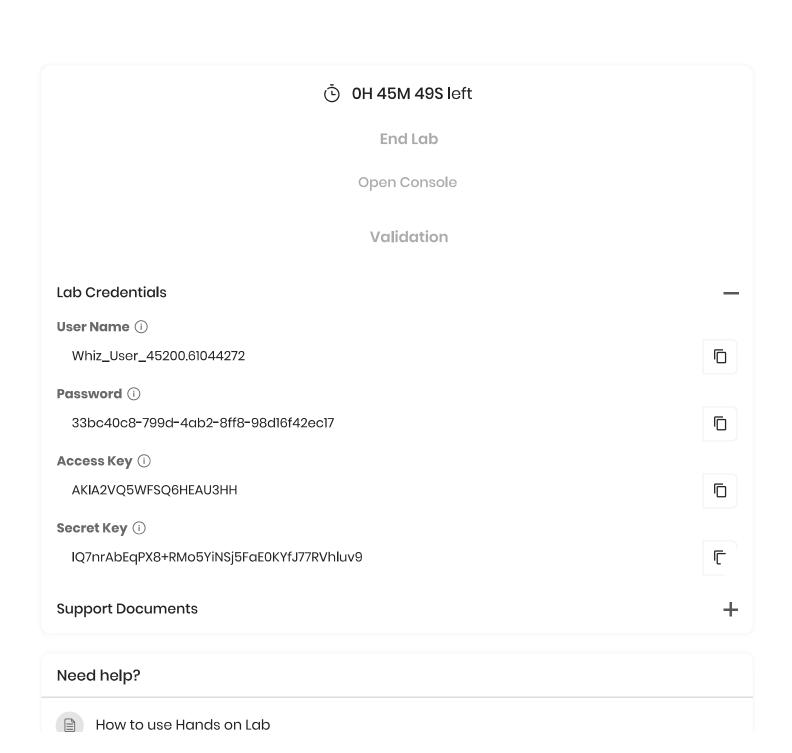
Home / AWS / Guided Lab / Introduction to Amazon Elastic Compute Cloud (EC2)

Introduction to Amazon Elastic Compute Cloud (EC2)

Level: Fundamental

Amazon EC2 Amazon Web Services







FAQs

Compute

Lab Steps

Task 1: Launching Lab Environment

- 1. Launch the lab environment by clicking on environment is provisioned. It will take less than 2 minutes to provision the lab environment.
- Once the Lab is started, you will be provided with *IAM user* name, *Password*, AccessKey and *Secret Access Key*.
- 3. Click on the Open Console , AWS Management Console will open in a new tab.
- 4. In the AWS sign in page, the Account ID will be present by default.
 - Leave the Account ID as default. Do not remove or change the Account ID otherwise you cannot proceed with the lab.
- 5. Copy and paste the *IAM user name* and *Password* into AWS Console. Click on **Sign in** to log into the AWS Console.

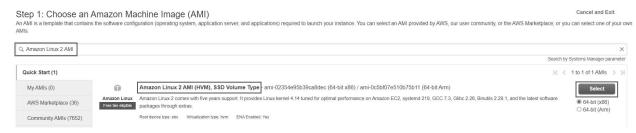
Note: If you face any issues, please go through FAQs and Troubleshooting for Labs.

Task 2: Launching an EC2 Instance

- 1. Make sure you are in **US East (N. Virginia) us-east-1** Region.
- 2. Navigate to EC2 by clicking on the



- 3. Navigate to Instances on the left panel and click on Launch instances.
- 4. Choose an Amazon Machine Image (AMI): Search for Amazon Linux 2 AMI in the search box and click on the select button.



- 5. Note: if there are two AMI's present for Amazon Linux 2 AMI, choose any of them.
- 6. Choose an Instance Type: select

 t2.micro

 Free tier eligible

 and then click on the

 Next: Configure Instance Details
- 7. Configure Instance Details: No need to change anything in this step, click on

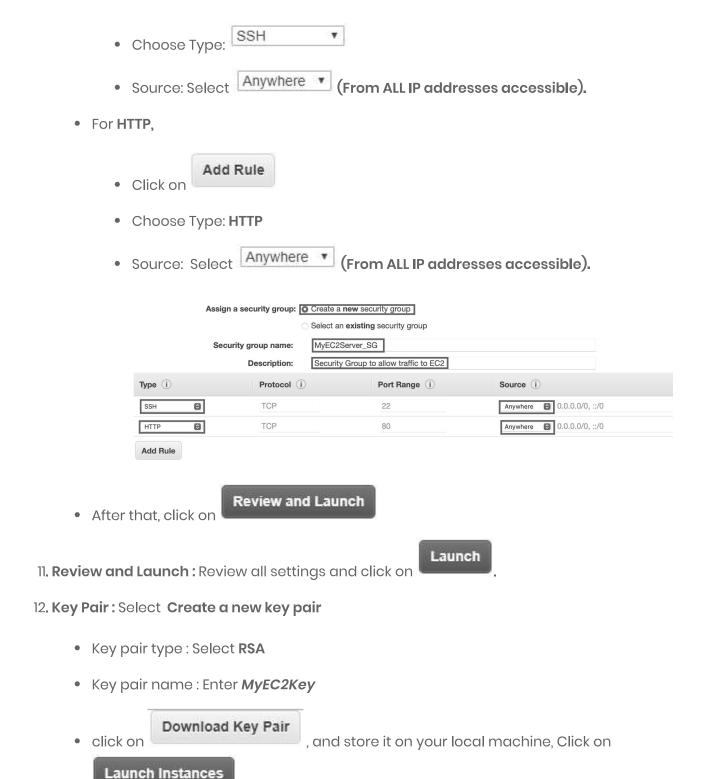
Next: Add Storage

Note: Ignore the warning in the IAM Role selection section

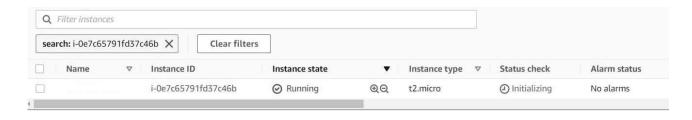
8. Add Storage: No need to change anything in this step, click on

Next: Add Tags

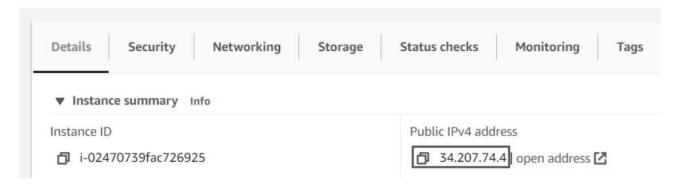
- 9. Add Tags: Click on
 - Key : Enter Name
 - Value : Enter *MyEC2Server*
 - Next: Configure Security Group
 Click on
- 10. Configure Security Group:
 - Assign a security group: Select Create a new security group
 - Security group name: Enter MyEC2Server_SG
 - Description: Enter Security Group to allow traffic to EC2
 - To add SSH.



13. Launch Status: Your instance is now launching, Click on the instance ID and wait for complete initialization of instance till status change to Running.



8. Note down the sample IPv4 Public IP Address of the EC2 instance. A sample is shown in the screenshot below.



Task 3: SSH into EC2 Instance

1. Select your EC2 instance(MyEC2Server) and click on the Connect button.



2. Select **EC2 Instance Connect** option and click on **Connect** button.(Keep everything else as default)







Pricing N

Cancel

Connect

3. A new tab will open in the browser where you can execute the CLI Commands.

<u>Task 4: Install an Apache Server</u>

- 1. Switch to root user: sudo su
- 2. Now run the updates using the following command:
 - yum-y update
- 3. Once completed, lets install and run an apache server
 - Install the Apache web server:
 - yum install httpd-y
 - Start the web server
 - systemctl start httpd
 - Now enable httpd:
 - systemctl enable httpd

- Check the webserver status
 - systemctl status httpd
- You can see Active status is running.
- You can test that your web server is properly installed and started by entering the
 public IPv4 address of your EC2 instance in the address bar of a web browser. If
 your web server is running, then you see the Apache test page. If you don't see the
 Apache test page, then verify whether you followed the above steps properly and
 check your inbound rules for the security group that you created.

Task 5: Create and publish the page

- 1. To add the contents into index.html file using echo, copy and paste the below command to shell.
 - echo "<html>Hi Whizlabs, I am a public page</html>" > /var/www/html/index.html
- 2. Restart the webserver by using the following command:
 - systemctl restart httpd
- 3. Now enter the file name, /index.html after the public IPv4 Address which you got when you created the ec2 instance in the browser, and you can see your HTML content.
 - Make sure URL Protocol is http not https.
 - Syntax: http://<Your_Public_IPv4_Address>/index.html
 - Sample URL: http://52.87.50.168/index.html
 - **Note:** If the index.html page is not loading, try removing **s** from the link, it should be HTTP.



Hi Whizlabs, I am a public page

Task 6: Validation Test

1. Once the lab steps are completed, please click on the button on the left side panel.

Validate

- 2. This will validate the resources in the AWS account and displays whether you have completed this lab successfully or not.
- 3. Sample output:

Lab validation status

- o status success
- lab-user-info You have created 1 EC2 Instance in this lab.

Lab task status

- o Ec2:1
 - Amazon EC2 instance creation status success
 - Select Amazon Linux 2 AMI status success
 - Creation of keypair for FC2 instance status success.

- Oreation of Reypail for Loc metalloc status success
- Assigning public IP for EC2 instance status success
- Enable SSH port in security group status success
- SSH status to your EC2 instance success
- Install Apache webserver status success
- Add HTML page in server status success

Lab usertask complete details

- Ec2:1
 - 1 You have Launched an EC2 instance with id i-0b147b535df38161a.
 - 2 You have selected Amazon Linux 2 Kernel 5.10 AMI 2.0.20211201.0 x86_64 HVM gp2 AMI and t2.micro as Instance type.
 - 3 You have created a security group with ID sg-0b532ba36c2dee442.
 - 4 The Ports are:
 - {1: 'Port 80 with Cidrlp block 0.0.0.0/0', 2: 'Port 22 with Cidrlp block 0.0.0.0/0'}
 - 5 You have enabled SSH port for this instance.
 - 6 Your IPv4 Public IP is 52.207.220.72.
 - 7 The Keypair of the EC2 instance is whiz_ec2.
 - 8 You have successfully installed Apache/2.4.51.
 - 9 You have successfully added the HTML page index.html

Completion and Conclusion

- 1. You have successfully created and launched Amazon EC2 Instance.
- 2. You have successfully logged into the EC2 instance by SSH.
- 3. You have successfully created a webpage and published it.

End Lab

- 1. Sign out of AWS Account.
- 2. You have successfully completed the lab.
- 3. Once you have completed the steps, click on

End Lab

from your whizlabs dashboard.

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