

Experiment No. 4

Title: Hosting a website on Linux Virtual Machine Instance using AWS (IaaS)



Batch: A4 Roll No.: 1914078 Experiment No.:4

Aim: Creating Linux Virtual Machine Instance and Hosting a website using AWS (IaaS)

Resources needed: AWS account

Pre Requisite: Knowledge of Client Server communication

Theory:

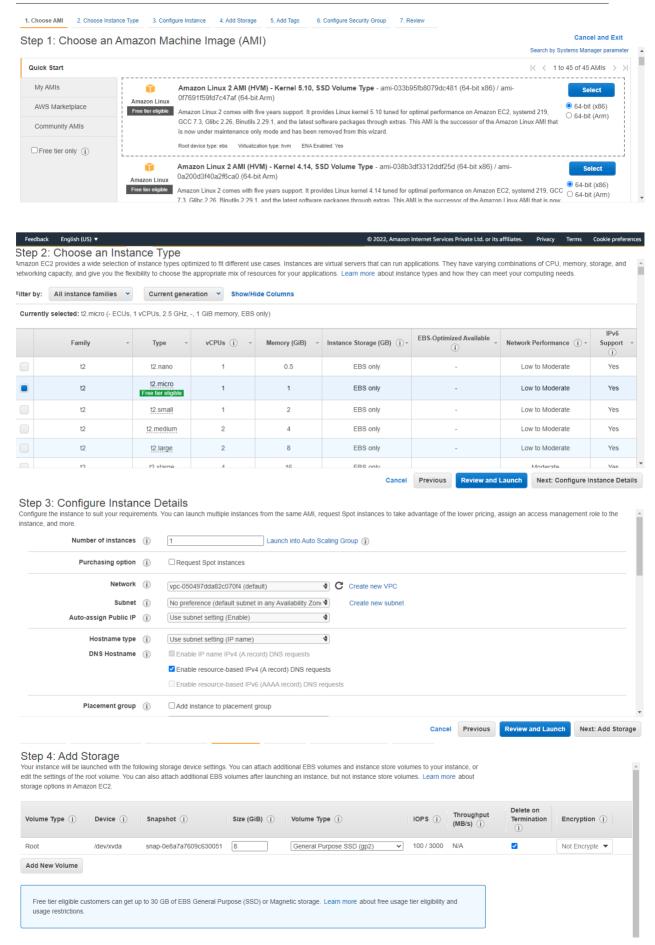
Amazon Linux 2 is a Linux operating system from Amazon Web Services (AWS). It provides a security-focused, stable, and high-performance execution environment to develop and run cloud applications. AWS provides ongoing security and maintenance updates for Amazon Linux 2.

Amazon Elastic Compute Cloud (EC2) is one of the most popular AWS services. EC2 allows you to launch different types of cloud instances and pay for them with a pay-per-use model. EC2 allows you to have operating system level control of your computing resources while running in Amazon's computing environment.

Procedure:

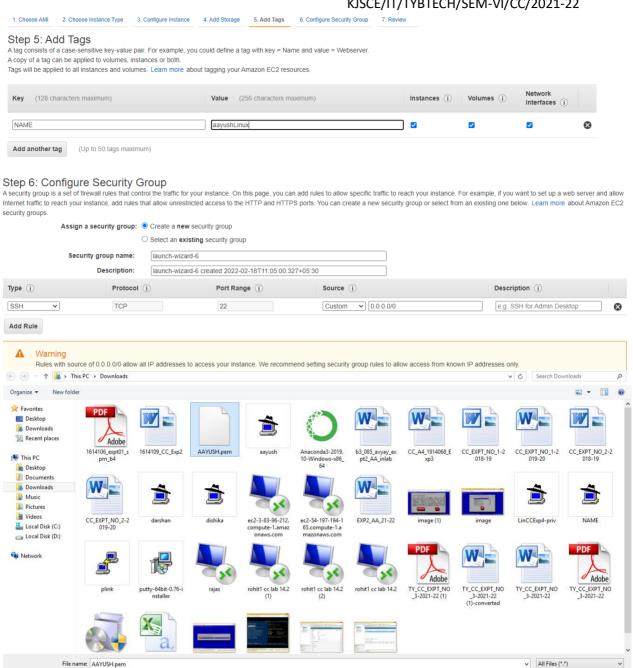
- 1. Download PuTTY client putty.org [Select 32 bit or 64 bit installer]
- 2. It will install two files, PuTTY and PuTTYgen
- 3. Create EC2 Linux instance.
- 4. Use PuTTYgen to convert key .pem file to .ppk file.[because .ppk file is used with PuTTY]
- 5. Use PuTTY for connecting to Linux instance using Username : ec2-user [copy Public IP of Linux instance in PuTTY Host Name. Select SSH and Auth and browse key .ppk file]
- 6. Switch to the root user [sudo su]
- 7. Download any Webserver.
- 8. Launch a sample website on the Webserver of virtual Linux machine.
- 9. Check the website on any browser.
- 10. **Delete/stop** the Linux instance.

Results: (Program / Steps with screenshots) for all steps of download, connection and hosting a website.

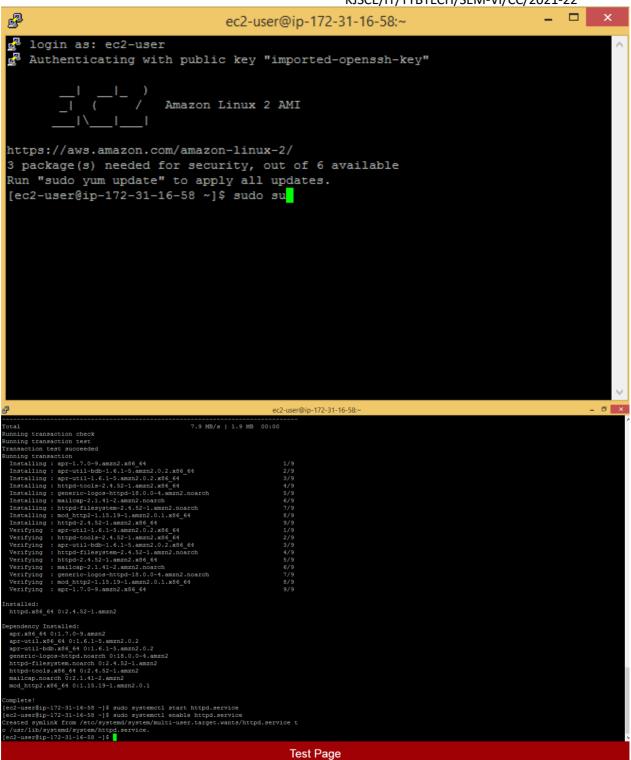


KJSCE/IT/TYBTECH/SEM-VI/CC/2021-22

Open |▼ Cancel



KJSCE/IT/TYBTECH/SEM-VI/CC/2021-22



This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

If you are a member of the general public:

The fact that you are seeing this page indicates that the website you just visited is either experiencing problems, or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting www.example.com, you should send e-mail to "webmaster@example.com".

If you are the website administrator:

You may now add content to the directory /var/www/html/. Note that until you do so, people visiting your website will see this page, and not your content. To prevent this page from ever being used, follow the instructions in the file /etc/httpd/conf.d/welcome.conf.

You are free to use the image below on web sites powered by the Apache HTTP Server:



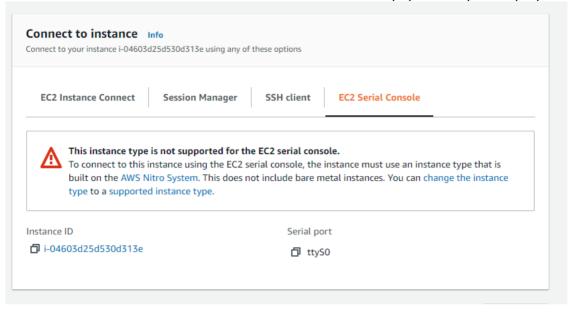




Hello World

Questions:

- 1. Explore other methods of connection to Linux instance?
- 1. SSH Client
- 2. EC2 Instance Connect
- 3. AWS Session Manager
- 4. Putty
- 2. Write steps with screenshots, any one connection to Linux instance.



EC2 Instance Connect	Session Manager	SSH client	EC2 Serial Con	sole	
ance ID					
i-04603d25d530d313e					
lic IP address					
100.26.137.217					
r name					
2-user					
nect using a custom user nam	e, or use the default user na	me ec2-user for the	AMI used to launch th	e instance.	
Note: In most cases, t the AMI owner has ch	he guessed user name is anged the default AMI u		r, read your AMI usa	age instructions to	check if

Outcomes: ${\bf CO2}$ - Study the Evolution of Cloud Computing and its models

Conclusion: Created a Linux instance on AWS and hosted a web page on apache web server.

Signature of faculty in-charge with date

References:

Websites:

1. https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html (Autonomous College Affiliated to University of Mumbai)