

APSSDC - AWS PROJECT REPORT



Andhra Pradesh State Skill Development Corporation

GENERATE A WEBSITE
WITH THE HELP EC2

PROJECT DONE BY:

M.Devendra Sai AP19110010279

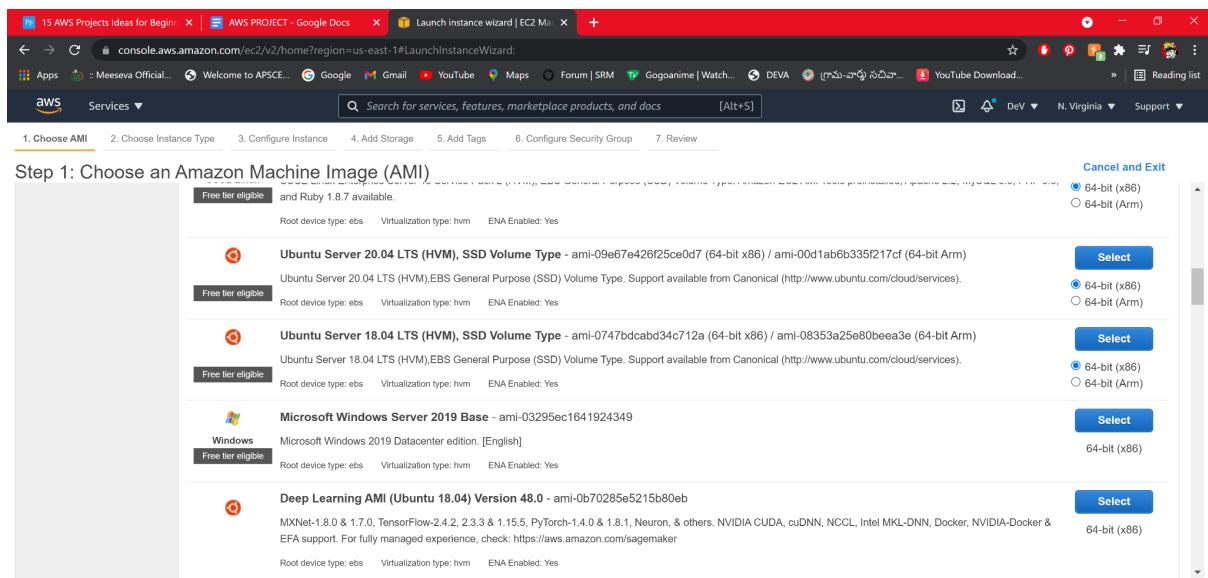
CSE Department SRM University,AP-Amaravati

Acknowledgement

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Launching A EC2 Instance

1. Sign in to the AWS Management Console and open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>. Choose EC2 Dashboard, and then now, launch an EC2 Instance with Amazon Machine Image with Ubuntu Server 18.0 LTS.



2. Select the type of instance that satisfies your requirements.

Step 2: Choose an Instance Type

you have the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families ▾ Current generation ▾ Show/Hide Columns

Currently selected: t2.micro (1 ECUs, 1 vCPUs, 2.5 GHz, 1 GiB memory, EBS only)

| | Family | Type | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance | IPv6 Support |
|-------------------------------------|--------|---------------------------------------|-------|--------------|-----------------------|-------------------------|---------------------|--------------|
| | t2 | t2.nano | 1 | 0.5 | EBS only | - | Low to Moderate | Yes |
| <input checked="" type="checkbox"/> | t2 | t2.micro Free tier eligible | 1 | 1 | EBS only | - | Low to Moderate | Yes |
| | t2 | t2.small | 1 | 2 | EBS only | - | Low to Moderate | Yes |
| | t2 | t2.medium | 2 | 4 | EBS only | - | Low to Moderate | Yes |
| | t2 | t2.large | 2 | 8 | EBS only | - | Low to Moderate | Yes |
| | t2 | t2.xlarge | 4 | 16 | EBS only | - | Moderate | Yes |
| | t2 | t2.2xlarge | 8 | 32 | EBS only | - | Moderate | Yes |
| | t3 | t3.nano | 2 | 0.5 | EBS only | Yes | Up to 5 Gigabit | Yes |

Cancel Previous Review and Launch Next: Configure Instance Details

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3. Now, set up your instance details that suit your requirements and after you set up your instance details then in the next step of the process - Add storage. Select your specific storage device settings.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1

Purchasing option: Request Spot Instances

Network: vpc-0ea463a383630f2fd | Dev-jett

Subnet: subnet-062e47d45f0069a41 | dev_jett1 | us-east-1a 250 IP Addresses available

Auto-assign Public IP: Use subnet setting (Enable)

Placement group: Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory

IAM role: None

Shutdown behavior: Stop Enable hibernation as an additional stop behavior

Stop - Hibernate behavior:

Cancel Previous Review and Launch Next: Add Storage

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4. Configure Security Group to HTTP and set the source to anywhere. The security group has a set of firewall rules that controls the traffic of your instance.

5. Prepare to launch the instance by reviewing your instance launch

details and then create and download Key in .pem format. You can edit changes for each section in this review launch process. After reviewing your instance details you can click launch to complete the launch process.

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-09e67e426f25ce0d7

Instance Type

| Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro | - | 1 | 1 | EBS only | - | Low to Moderate |

Security Groups

Security group name: launch-wizard-11

Launch

6. Connect to Instance

Select an existing key pair or create a new key pair

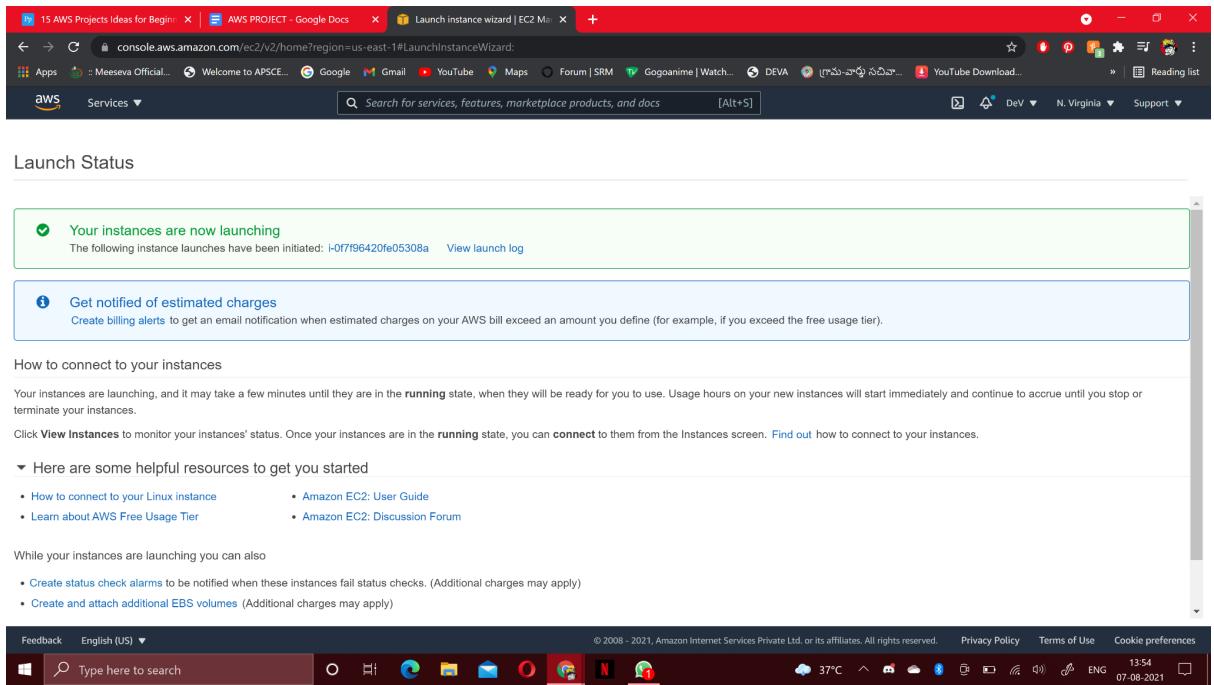
A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

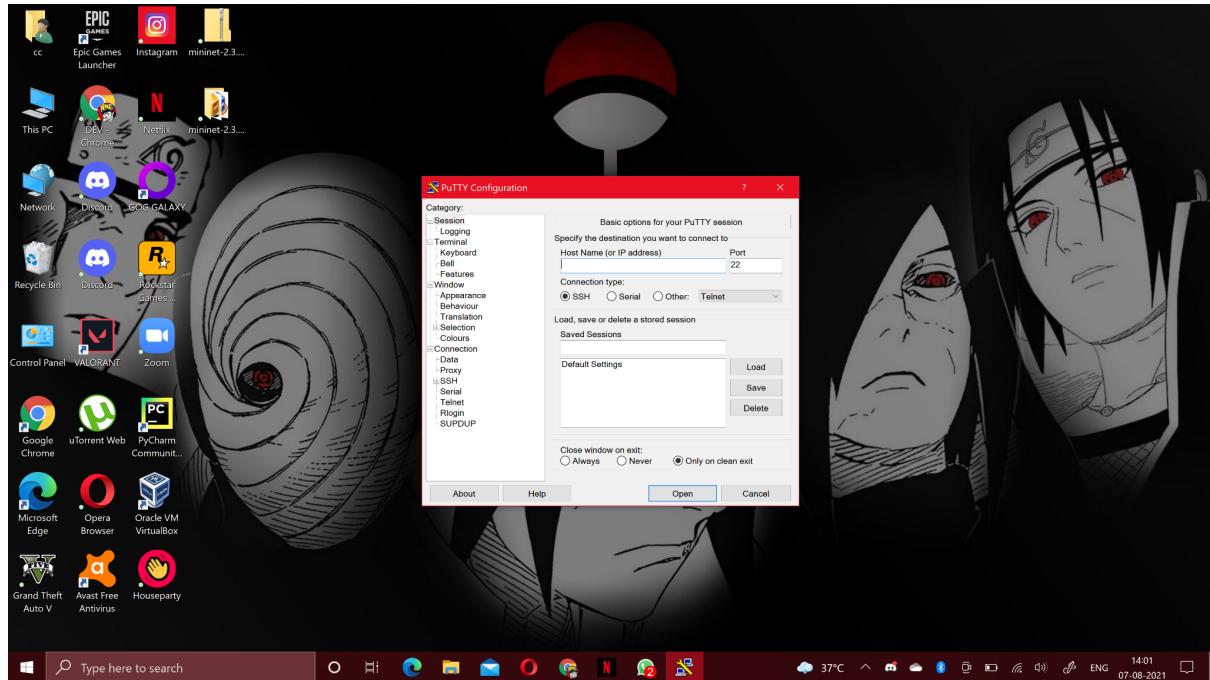
Choose an existing key pair
Select a key pair
Infinity

I acknowledge that I have access to the corresponding private key file, and that without this file, I won't be able to log into my instance.

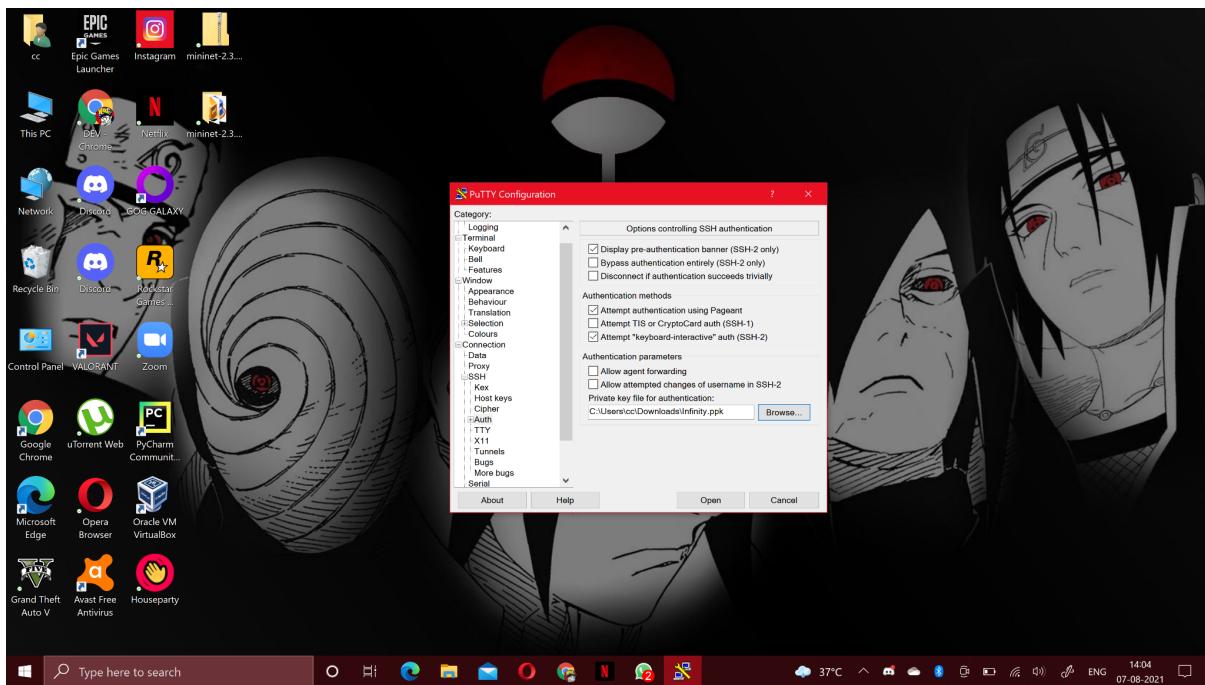
Launch Instances



7. Converting the .pem file to .ppak files using puttyGen and saving the file



8. Then, Entering the Ip address and Keeping the .ppyyk file in the putty to connect to server.



9. Thus we will be connected to the Ubuntu server and upgrade the files.

```
ubuntu@ip-172-31-12-82:~$ 
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 System information as of Fri Aug  6 08:55:16 UTC 2021

 System load:  0.02      Processes:           92
 Usage of /:   3.9% of 29.02GB   Users logged in:  0
 Memory usage: 20%
 Swap usage:   0%
 
 0 packages can be updated,
 0 of these updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-12-82:~$ sudo apt-get update -y
```

CODES:

- *sudo apt update*
- *sudo apt upgrade*

- *sudo apt install apache2*
- *sudo systemctl start apache2*
- *sudo systemctl status apache2*
- *sudo apt install mariadb-server mariadb-client*
- *sudo service start mariadb*

Here are few steps to run the codes in the terminal:-

1. Upgrade the terminal.

```
Welcome to Ubuntu 18.04.5 LTS (GNU/Linux 5.4.0-1045-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

System information as of Fri Aug 6 08:55:16 UTC 2021

System load: 0.02      Processes: 92
Usage of /: 3.9% of 29.02GB  Users logged in: 0
Memory usage: 208          IP address for eth0: 172.31.12.82
Swap usage: 0B

0 packages can be updated.
0 of these updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

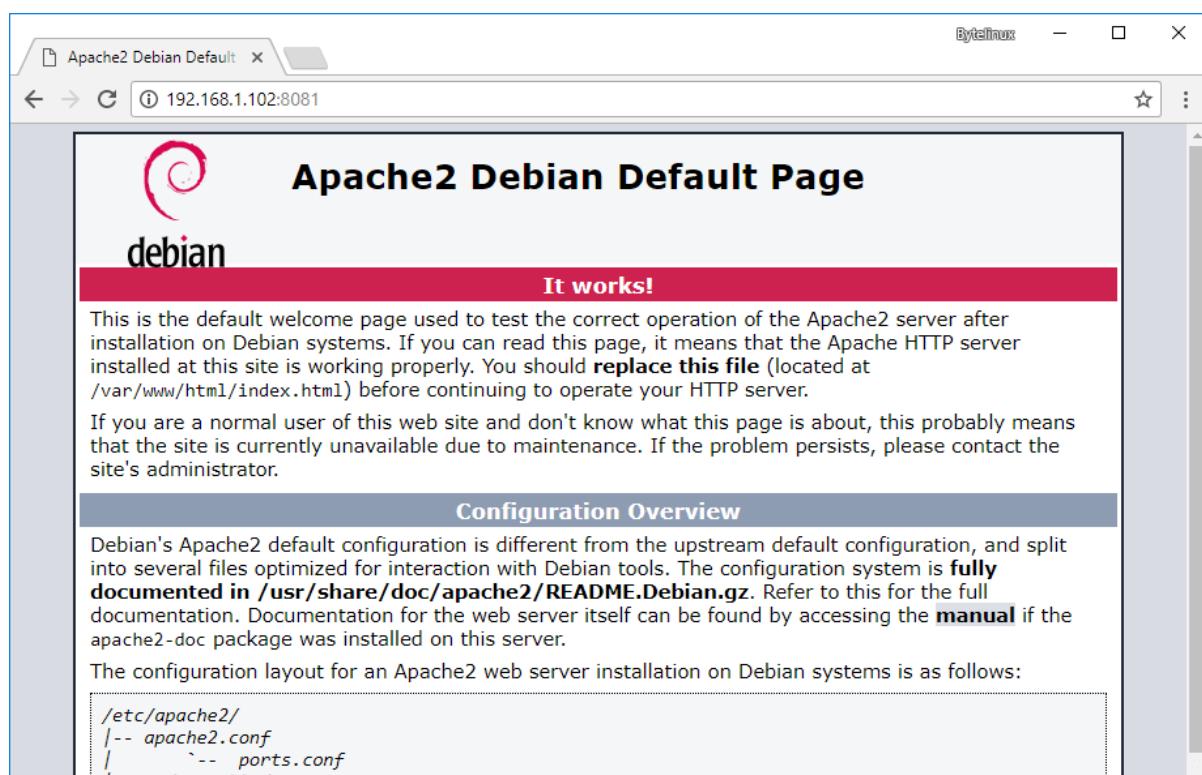
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ubuntu@ip-172-31-12-82:~$ sudo apt-get update -y
```

2. Now install the apache2 Server in the

ubuntu server 3.Start the apache2 server and



4. Install Maria database now, Installing a

html template directly to the apache2 server

by cloning the git repository.

5.we successfully hosted a website using EC2.

ARSHA

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