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Department of Computer Science & Engineering
Week-wise Internship Report Academic Year 2019-20

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Name of Mentor: Padmapani Tribhuvan mam

Detailed name of Internship (Organization/Online platform/Training Institute): Indian
OpenSource Community.

Duration of Internship (In weeks): 5/6 weeks

Date of Joining the Internship: 13/june/2020

Date of Completion of Internship: 18/july2020

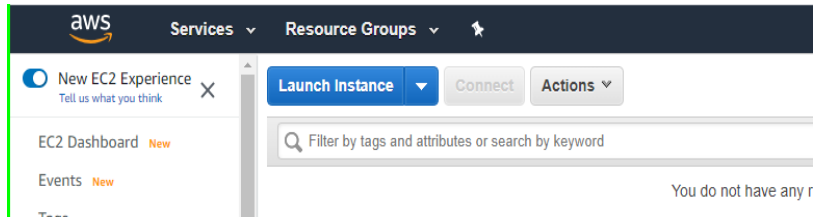
Week 3:

Technology / Platform on Which Working: AWS and EC2 Instance

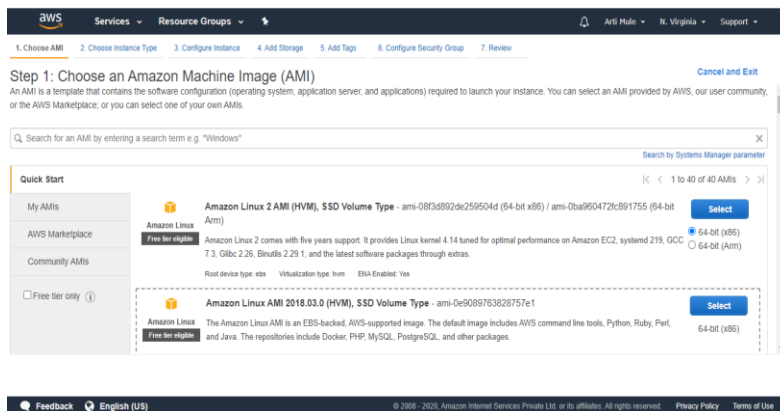
Day 1.(4 july,11:00am-02:00pm)

Launching one windows instance with IIS server.

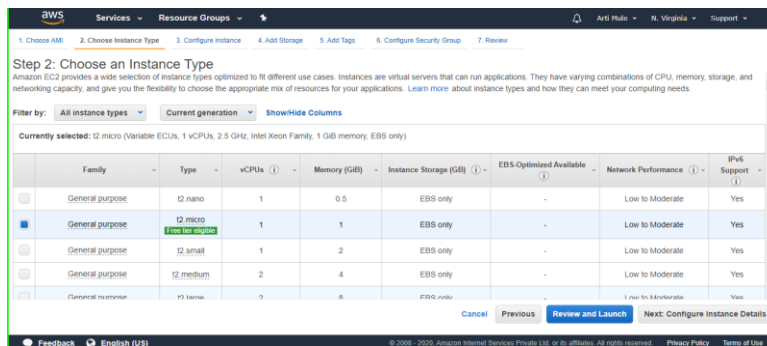
1. Open the [AWS EC2 Management Console](#)
2. Click **Launch Instance**



3. Select a Microsoft Windows Server instance (you may want to start with one that is “free tier eligible”)



4. Choose an instance type



Since we are launching a simple instance click on Next:Configure instance Details, if you may skip all the steps then click **Review and Launch**

5. Select an Configure Instance Detai;s you may be keep default or change it yours choice and click on Next:Add Storage

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 [Launch into Auto Scaling Group](#)

Purchasing option ☐ Request Spot instances

Network vpc-e0b0d519d (default) [Create new VPC](#)

Subnet No preference (default subnet in any Availability Zone) [Create new subnet](#)

Auto-assign Public IP Use subnet setting (Enable)

Placement group ☐ Add instance to placement group

Capacity Reservation Open [Create new Capacity Reservation](#)

IAM role None [Create new IAM role](#)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

6. Select an Add Storage and click on Next:Add tage

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-057747b7c71b01aa8	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

[Add New Volume](#)

Free tier eligible customers can get up to 30 GiB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Tags](#)

7. Select an Add Tags

Step 5: Add Tags

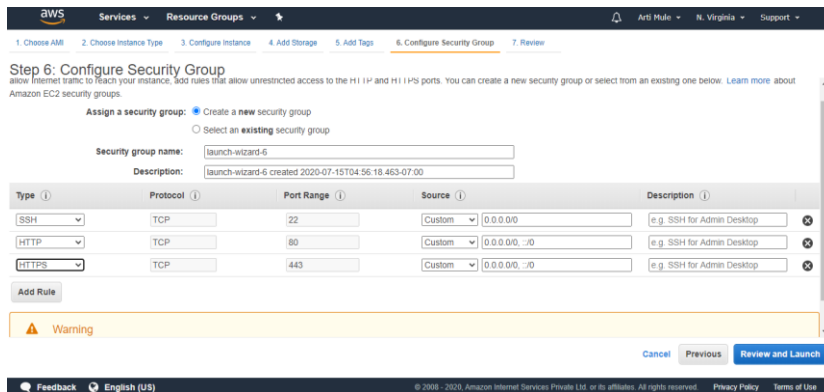
A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes
wp	wordpress1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

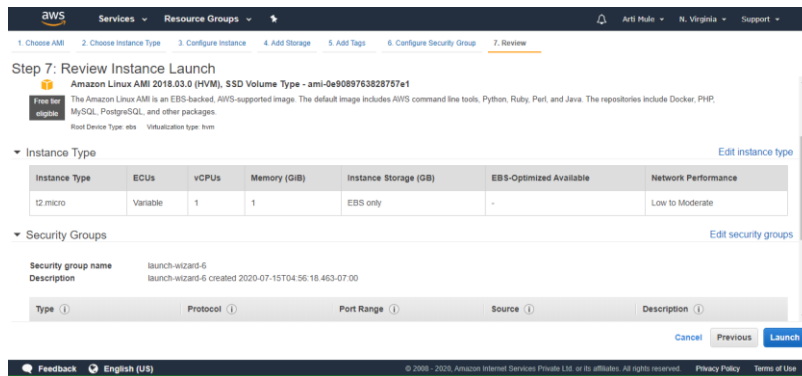
[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

8. Select an Configure and Group you can add more type click Add Rule and you want to choose and select then click on Review and launch.



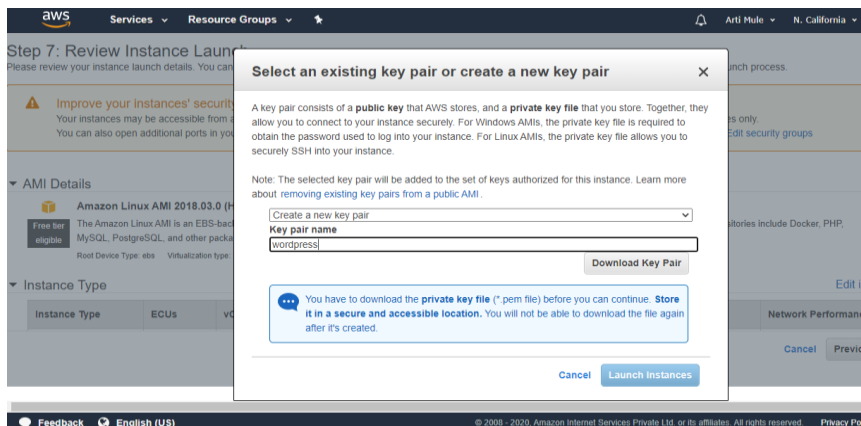
The screenshot shows the AWS Management Console interface for Step 6: Configure Security Group. The page has a navigation bar at the top with the AWS logo and various service links. Below the navigation bar, there are seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. The current step is Step 6: Configure Security Group. The page title is "Step 6: Configure Security Group". Below the title, there is a warning icon and text: "Warning". The main content area shows the "Assign a security group" section with two options: "Create a new security group" (selected) and "Select an existing security group". Under "Create a new security group", there is a form with "Security group name" (launch-wizard-6) and "Description" (launch-wizard-6 created 2020-07-15T04:56:18.463-07:00). Below the form, there is a table with columns: Type, Protocol, Port Range, Source, and Description. The table contains three rows: SSH (TCP, 22, Custom, 0.0.0.0/0, e.g. SSH for Admin Desktop), HTTP (TCP, 80, Custom, 0.0.0.0/0, e.g. SSH for Admin Desktop), and HTTPS (TCP, 443, Custom, 0.0.0.0/0, e.g. SSH for Admin Desktop). At the bottom of the table, there is an "Add Rule" button. At the bottom of the page, there are "Cancel", "Previous", and "Review and Launch" buttons.

9. Select an Review Instance Launch



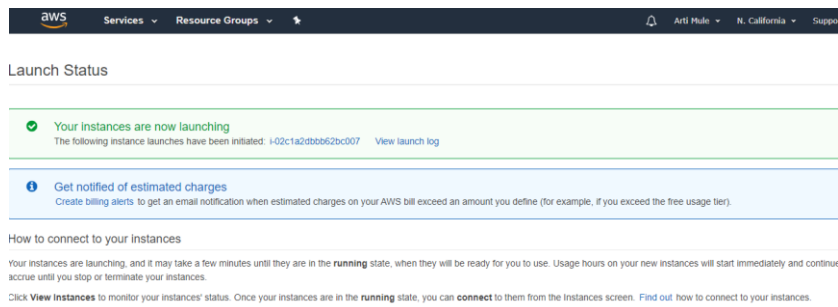
The screenshot shows the AWS Management Console interface for Step 7: Review Instance Launch. The page has a navigation bar at the top with the AWS logo and various service links. Below the navigation bar, there are seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. The current step is Step 7: Review Instance Launch. The page title is "Step 7: Review Instance Launch". Below the title, there is a warning icon and text: "Warning". The main content area shows the "Review Instance Launch" section. It includes a table with columns: Instance Type, ECUs, vCPUs, Memory (GiB), Instance Storage (GiB), EBS-Optimized Available, and Network Performance. The table contains one row: t2.micro, Variable, 1, 1, EBS only, -, Low to Moderate. Below the table, there is a "Security Groups" section with a table showing the security group name (launch-wizard-6) and description (launch-wizard-6 created 2020-07-15T04:56:18.463-07:00). At the bottom of the page, there are "Cancel", "Previous", and "Launch" buttons.

If you want change anything can you choose which you want to change and click on edit and change it ,otherwise click on Launch.

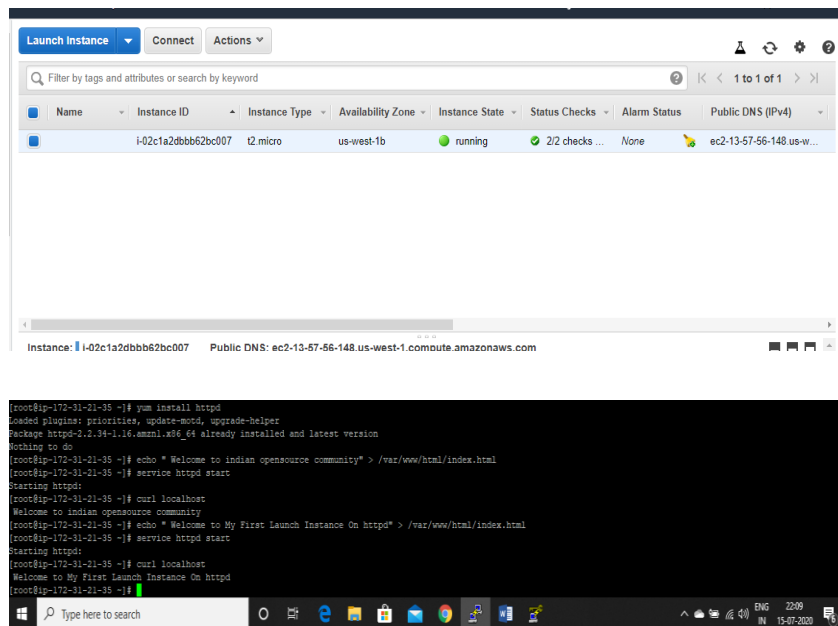


The screenshot shows the AWS Management Console interface for Step 7: Review Instance Launch. The page has a navigation bar at the top with the AWS logo and various service links. Below the navigation bar, there are seven steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, and 7. Review. The current step is Step 7: Review Instance Launch. The page title is "Step 7: Review Instance Launch". Below the title, there is a warning icon and text: "Warning". The main content area shows the "Review Instance Launch" section. It includes a table with columns: Instance Type, ECUs, vCPUs, Memory (GiB), Instance Storage (GiB), EBS-Optimized Available, and Network Performance. The table contains one row: t2.micro, Variable, 1, 1, EBS only, -, Low to Moderate. Below the table, there is a "Security Groups" section with a table showing the security group name (launch-wizard-6) and description (launch-wizard-6 created 2020-07-15T04:56:18.463-07:00). At the bottom of the page, there are "Cancel", "Previous", and "Launch" buttons. A modal dialog box is open over the "Launch" button, titled "Select an existing key pair or create a new key pair". The dialog box contains a text area for "Key pair name" with the value "wordpress". Below the text area, there is a "Download Key Pair" button. At the bottom of the dialog box, there are "Cancel" and "Launch Instances" buttons.

10. Select an existing key pair or Create new key pair ,Download the new key pair and click Launch Instance.



Successfully Launch Instance, Click **View Instances** to open the EC2 Management Console



If everything is installed correctly, you should be able to enter the IP address of your EC2 instance in any web browser, and see output.

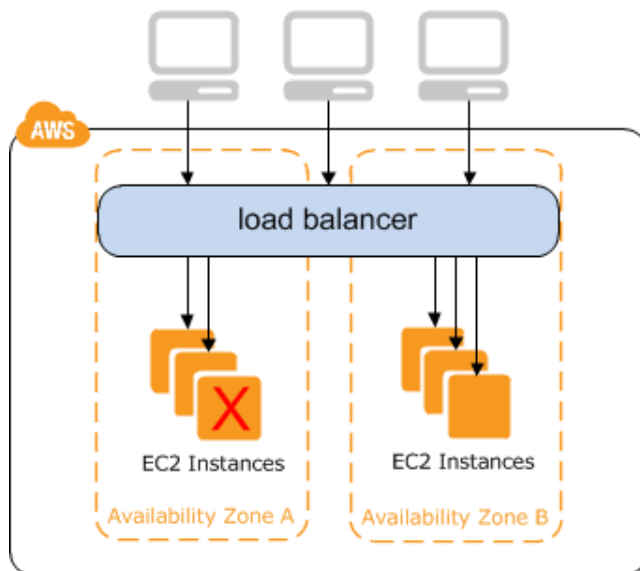


Successfully completed.

Day 2.(5 july,11:00am-02:00pm)

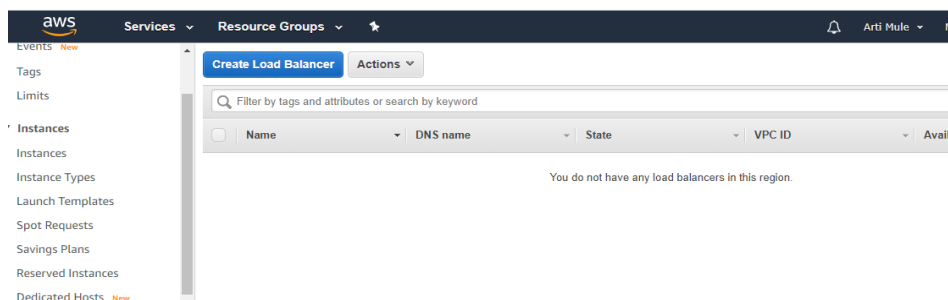
EC2 - Classic Load Balance

A load balancer distributes incoming application traffic across multiple EC2 instances in multiple Availability Zones. This increases the fault tolerance of your applications. Elastic Load Balancing detects unhealthy instances and routes traffic only to healthy instances.



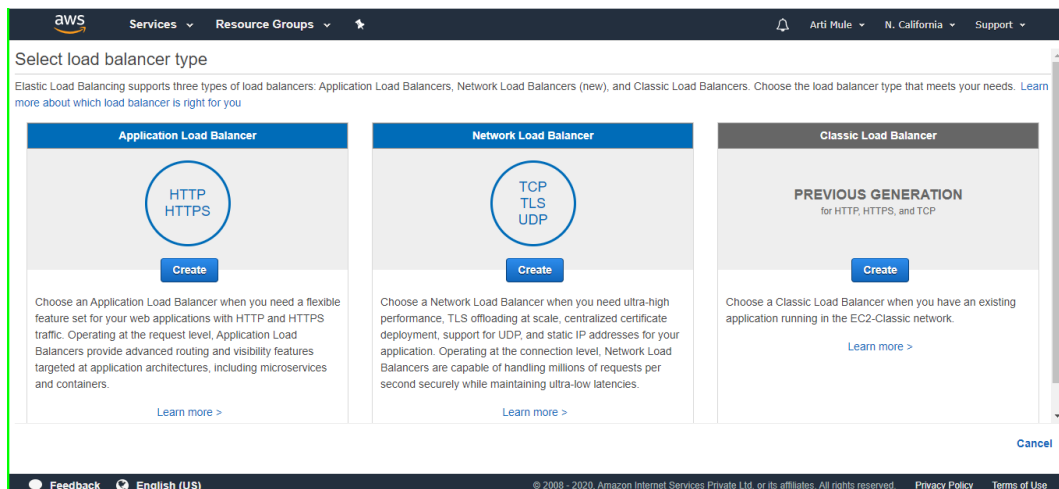
For example, if you have ten instances in Availability Zone us-west-2a and two instances in us-west-2b, the requests are distributed evenly between the two Availability Zones. As a result, the two instances in us-west-2b serve the same amount of traffic as the ten instances in us-west-2a. Instead, you should have six instances in each Availability Zone.

Open the Amazon EC2 console, On the navigation pane, under LOAD BALANCING, choose Load Balancers. And click create Load Balancer



Select a load balancer type:

Elastic Load Balancing supports three types of load balancers: Application Load Balancers, Network Load Balancers, and Classic Load Balancers. For create create a Classic Load Balancer



Then Continue Step by step create.

Learning Outcome for Week 3:

1. Launching one windows instance in IIS server
2. Ec2 - Classic load balancer