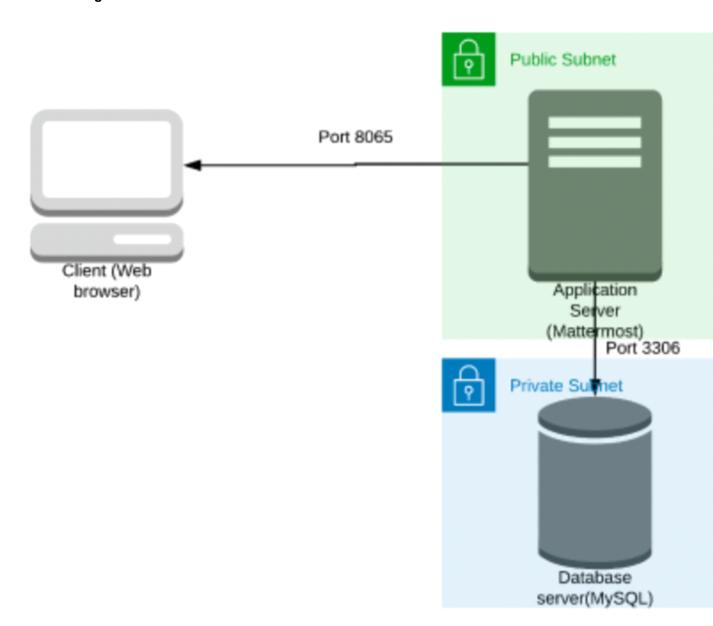
Some organizations might have compliance policies in place which do not allow them to use services managed by third parties. They will prefer solutions that can be managed and hosted on servers controlled by them. The same will extend to communication solutions as well.

## **Architecture diagram**

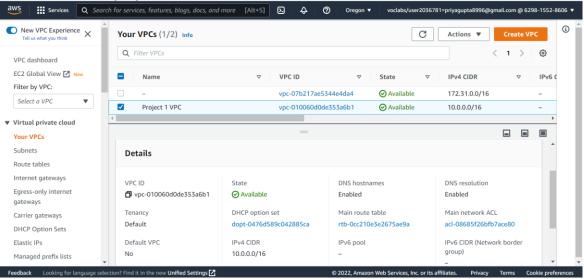


Arc	Architecture Implementation			
1	Implement 2 different subnets (one public and the other private) in a custom VPC			
	Install and configure MySQL on an Amazon Linux 2 instance on the private subnet using the instructions provided. (Hint: Use a bastion host and a NAT gateway)			
3	Install and configure Mattermost on an Amazon Linux 2 instance on the public subnet using the provided instructions.			
4	Configure the security groups to allow the ports as shown in the architecture.			
5	Test the installation by accessing the IP of the public instance in a browser via the port 8065.			

## **Step 1: VPC and Subnet Creation**

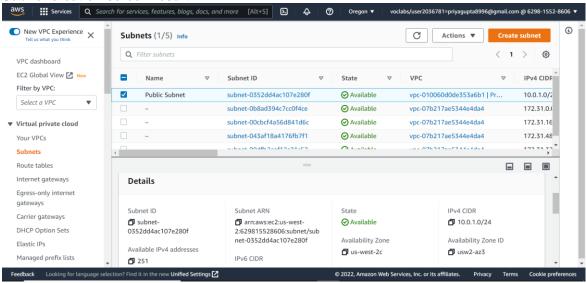
Step number	а	
Step name	Creation of VPC	
Expected screenshots	Created VPC with properties visible	

Created VPC with properties value



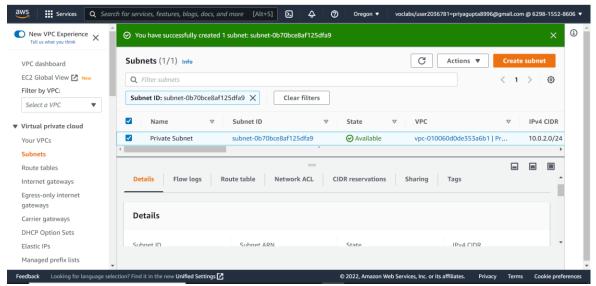
Step number	b
Step name	Creation of public subnet
Expected screenshots	Subnet Creation screen

#### Subnet creation screen result:



Step number	С	
Step name	Creatio	n of private subnet
Expected screenshots	•	Subnet Creation screen

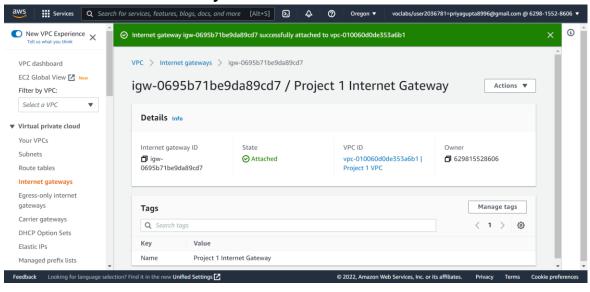
### **Subnet Creation screen**



# Step 2: Internet Gateway and VPC

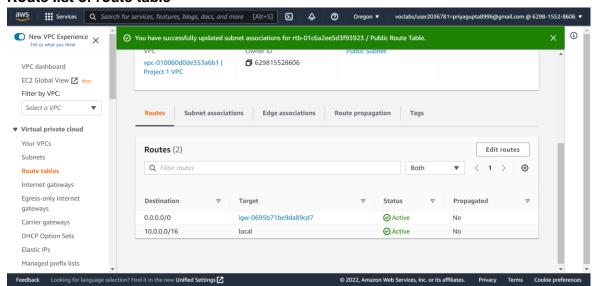
Step number	а	
Step name	Creation and Configuration of Internet Gateway	
Expected screenshots	Creation of Internet Gateway	

## **Creation of Internet Gateway**

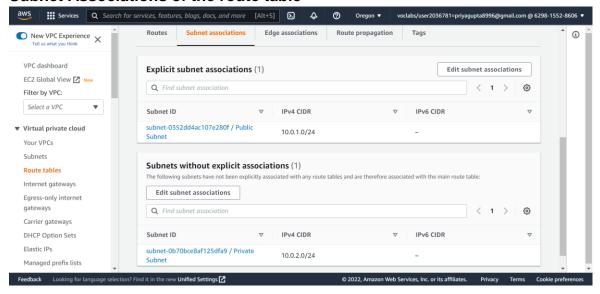


Step number b	
Step name	Creation of public route table
Expected	Route list of the route table
screenshots	Subnet Associations of the route table

### Route list of route table

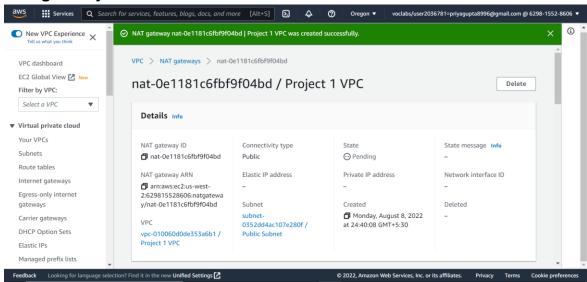


### Subnet Associations of the route table

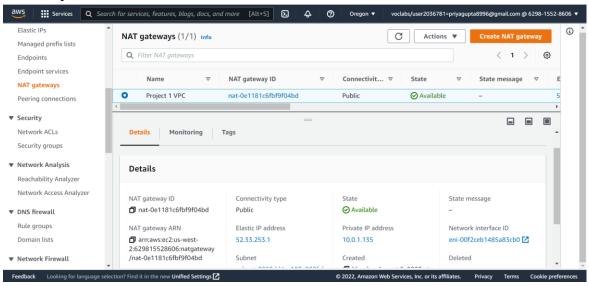


Step number	С		
Step name	Creation of NAT gateway		
Expected screenshots	<ul><li>NAT gateway creation details</li><li>Gateway after creation</li></ul>		

# NAT gateway creation details:

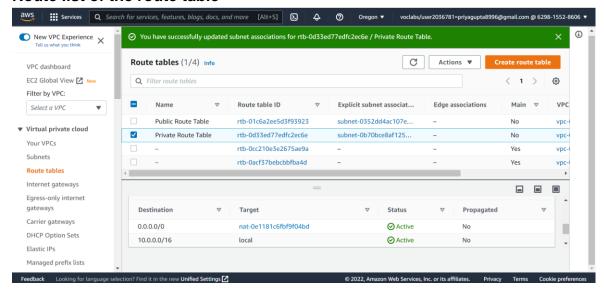


# **Gateway after creation:**

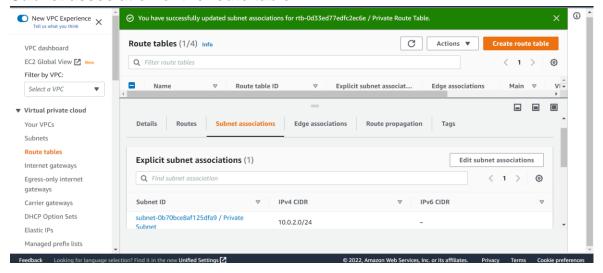


Step	d		
number			
Step name	Creation of private route tables		
Expected	Route list of the route table		
screenshots	<ul> <li>Subnet association of the route table</li> </ul>		

### Route list of the route table



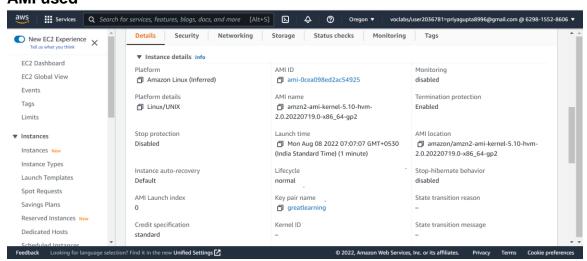
## Subnet association of the route table



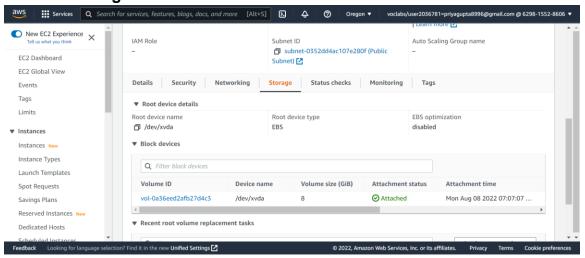
## Step 3: Creation of database and application servers

Step number	а	
Step name	Creation of application server	
Expected	AMI used	
screenshots	<ul> <li>Instance configuration screen</li> </ul>	
	<ul> <li>Security group rules</li> </ul>	
	<ul> <li>Instance after creation</li> </ul>	

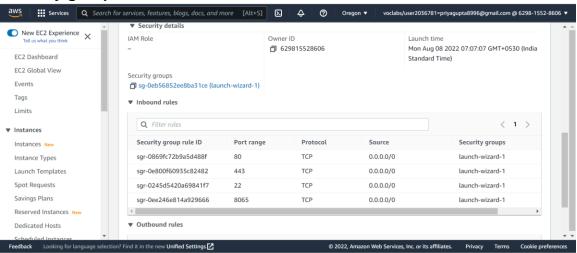
## **AMI** used



## Instance configuration screen



# Security group rules



## Instance after creation

