Aim: Create Instance Using SSH Client .

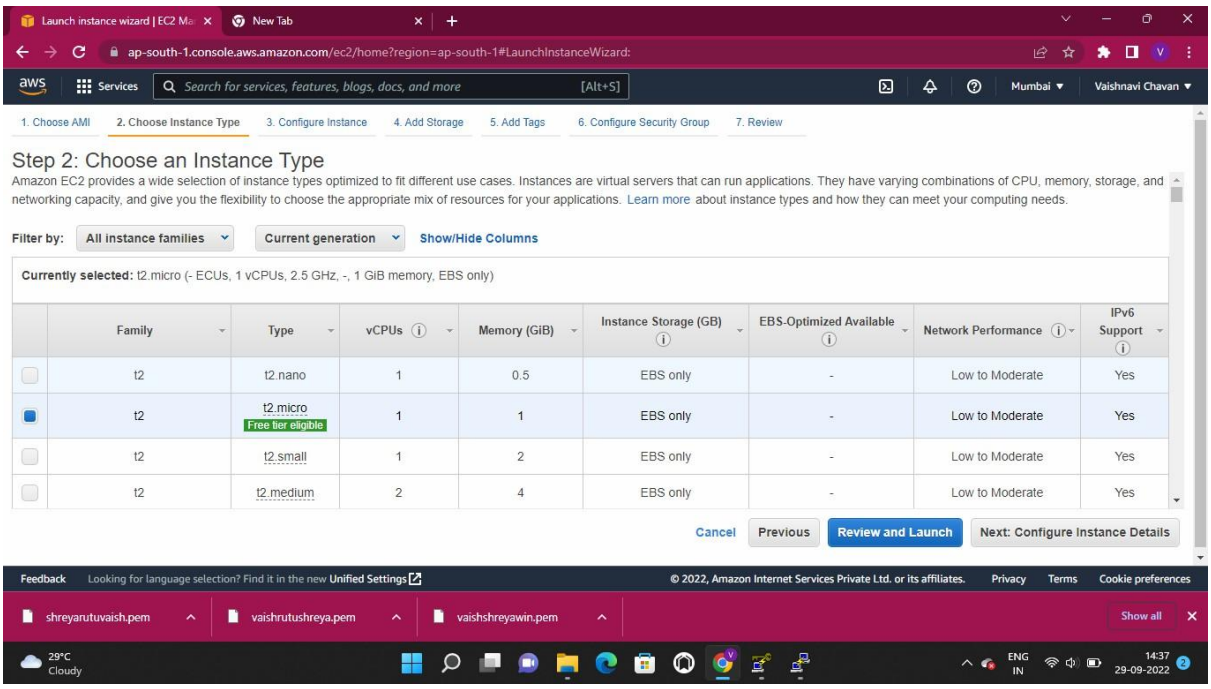
Description:

- A **virtual instance** is a cloud-based virtual machine that provides computing resources like CPU, memory, and storage.
- It allows users to deploy and run applications on remote servers without physical hardware.
- **SSH (Secure Shell)** is a network protocol used to establish a secure and encrypted connection between a local machine and a remote server.
- An **SSH client** enables users to log in remotely, execute commands, transfer files, and manage configurations securely.
- SSH ensures data confidentiality and integrity during communication.
- Common platforms that use instances include **AWS**, **Google Cloud**, **Azure**, etc.
- The instance is accessed using an SSH key pair for authentication (public and private keys).
- This method is essential for developers and administrators working in **cloud computing** and **DevOps** environments.

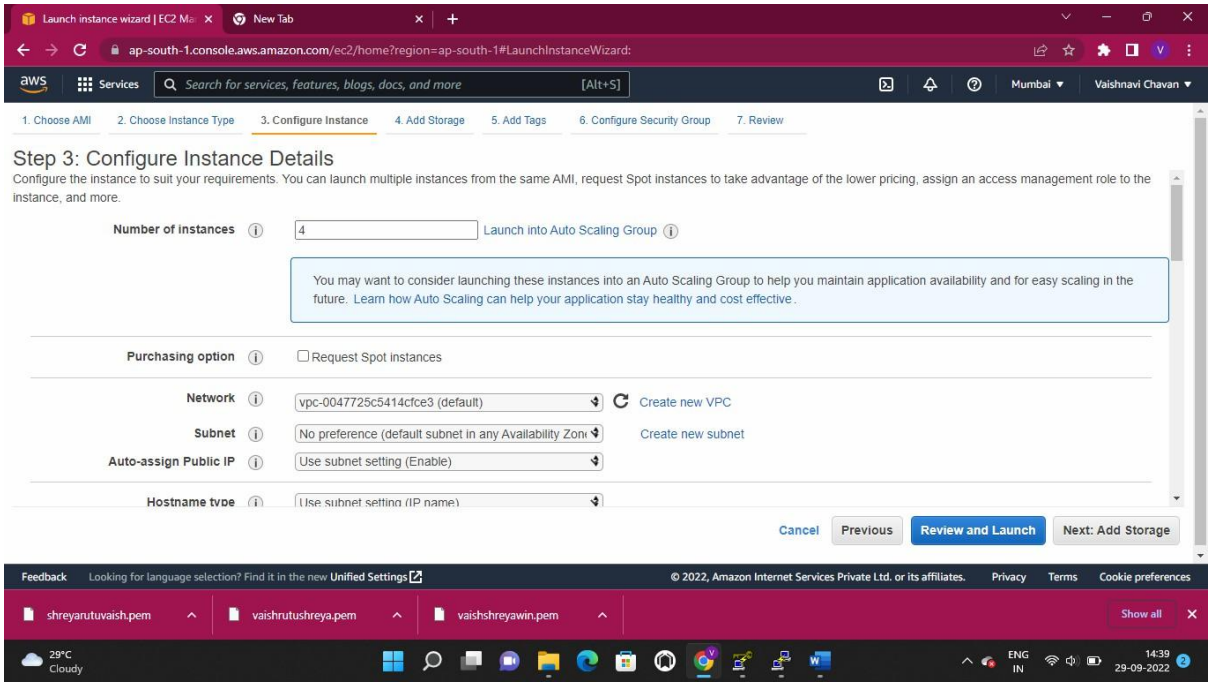
Tools Used:

- Cloud Platform (e.g., AWS / GCP / Azure)
- SSH Client (PuTTY / Terminal)
- Key Pair File (.pem / .ppk)

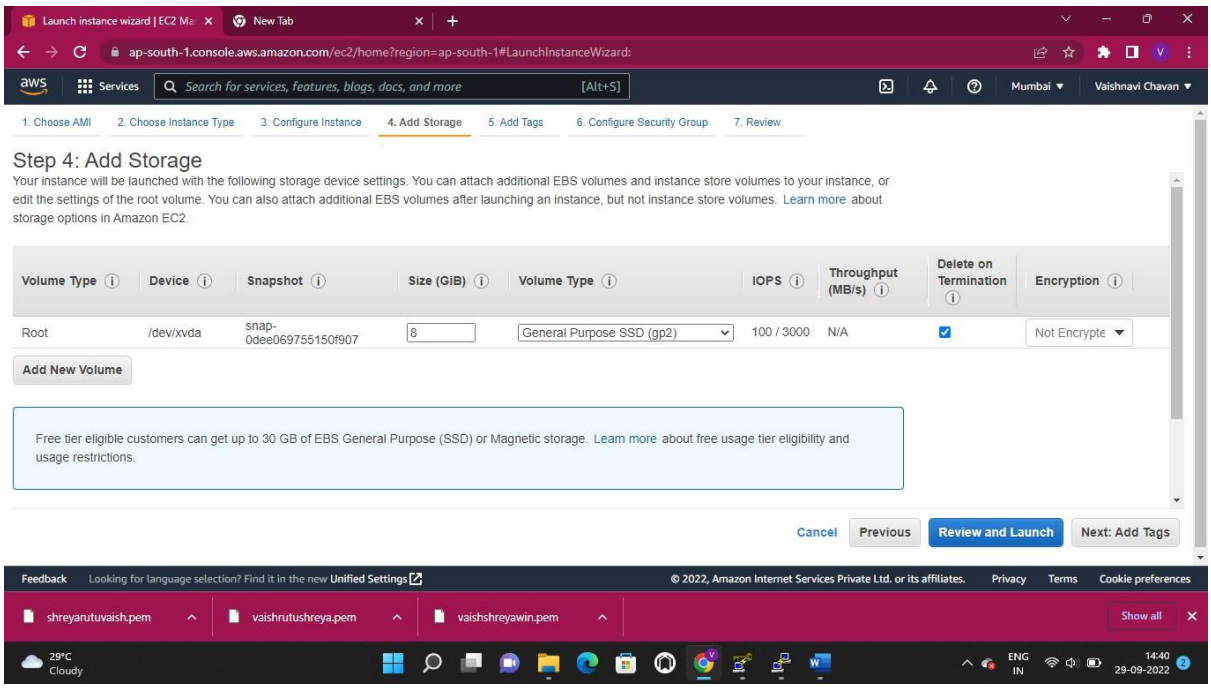
Step 1 : Choose AMI Linux and Choose an instance type.Then click on configure instance details.



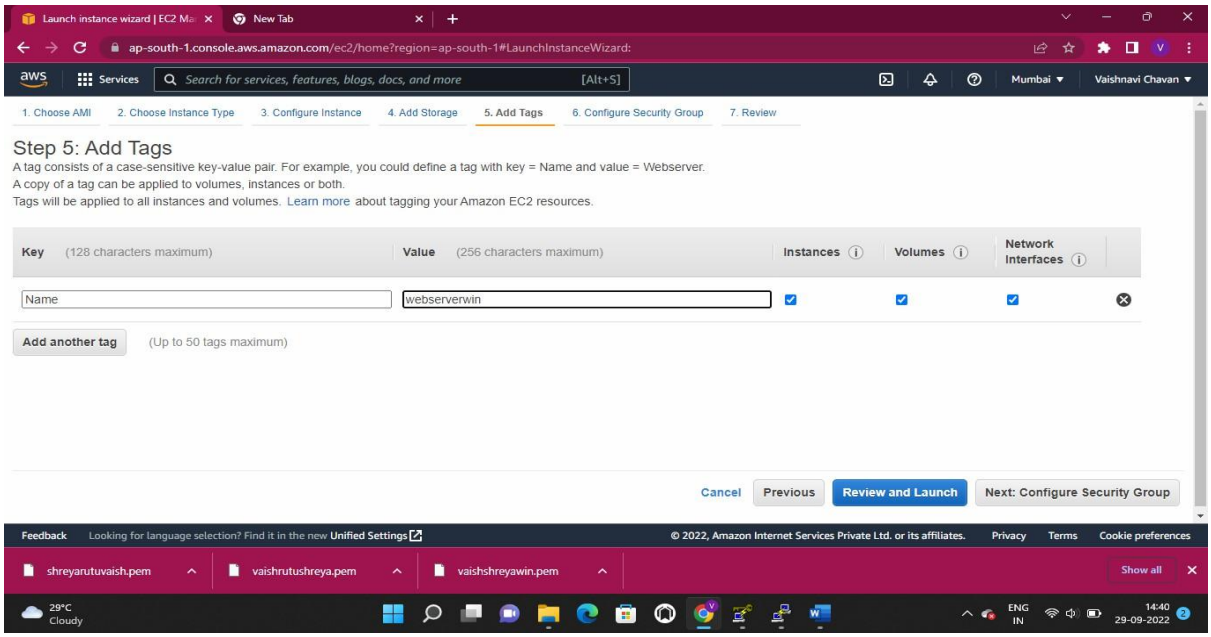
Step 2 : Select number of instances 4 . Then click on add storage.

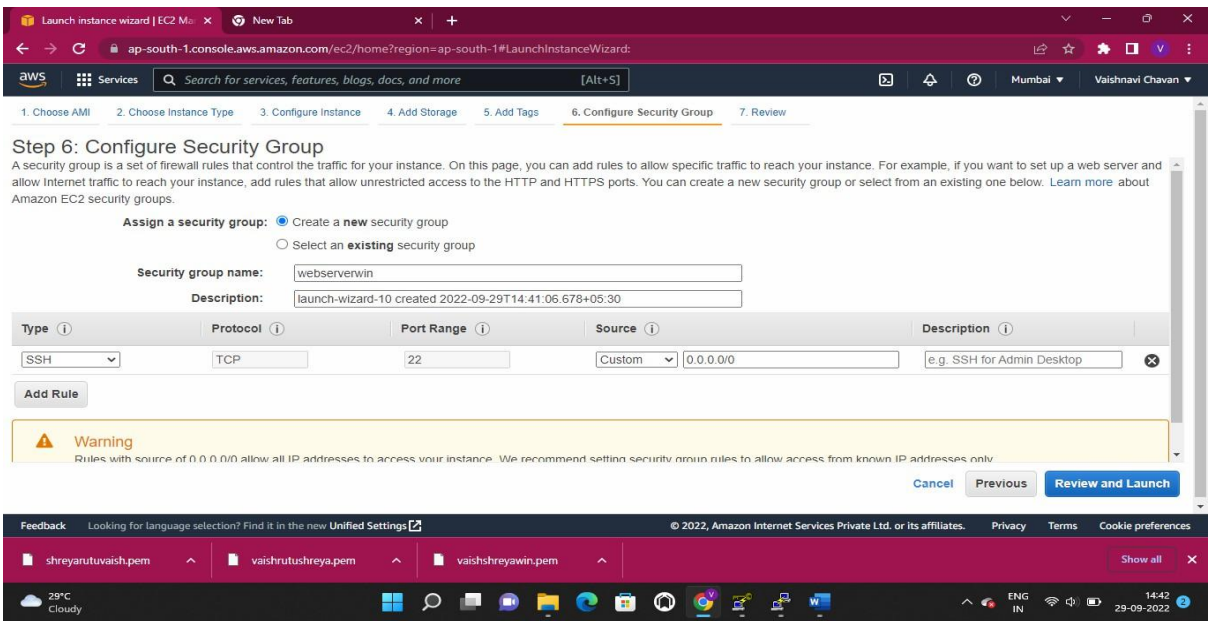


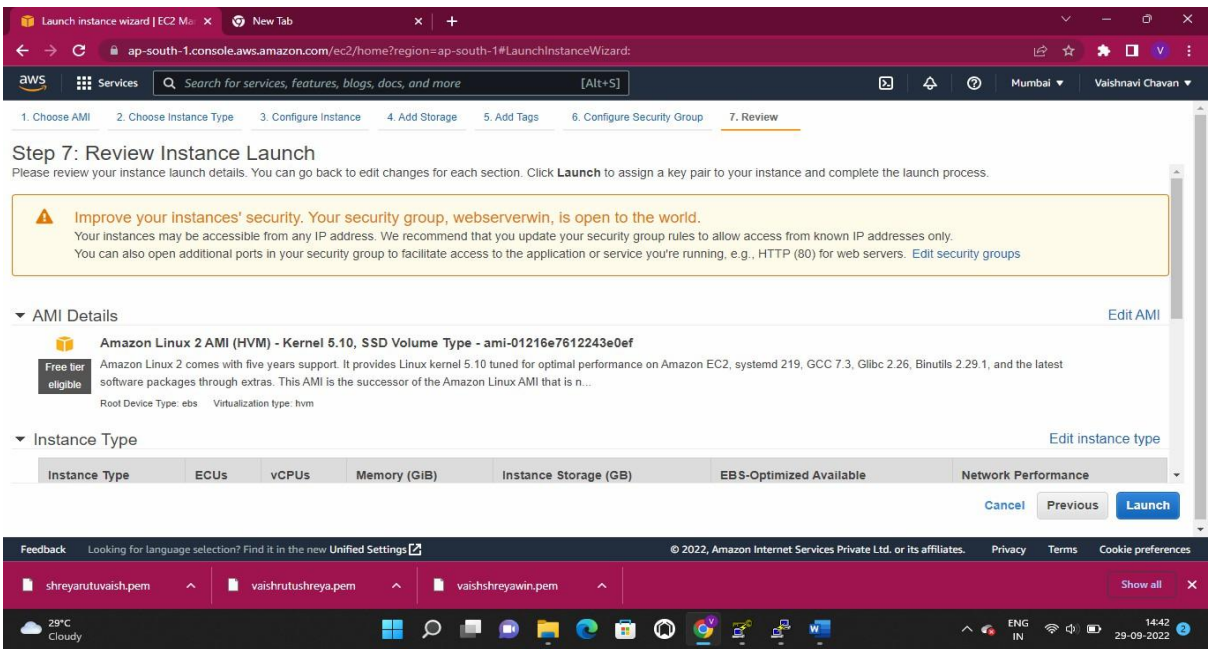
Step 3 : Volume type must be root there will be no any changes in this step.Then click on add tags.

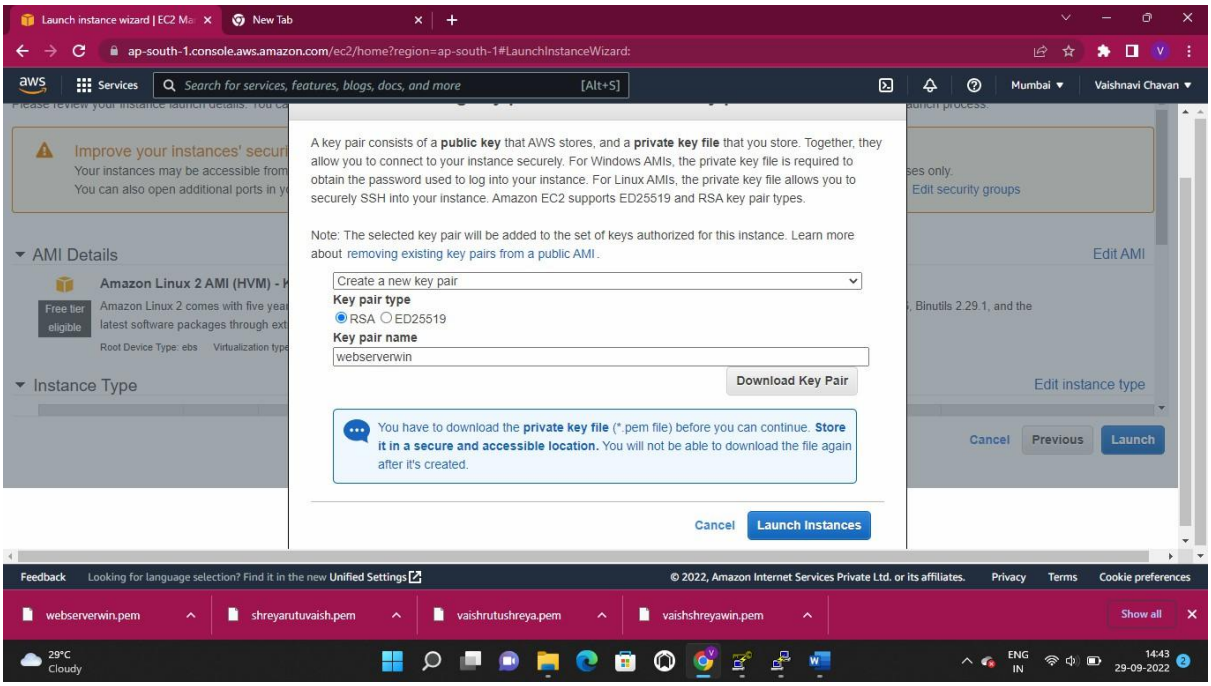


Step 4 : Click on add tags then type in value tab .e.g. webserverwin

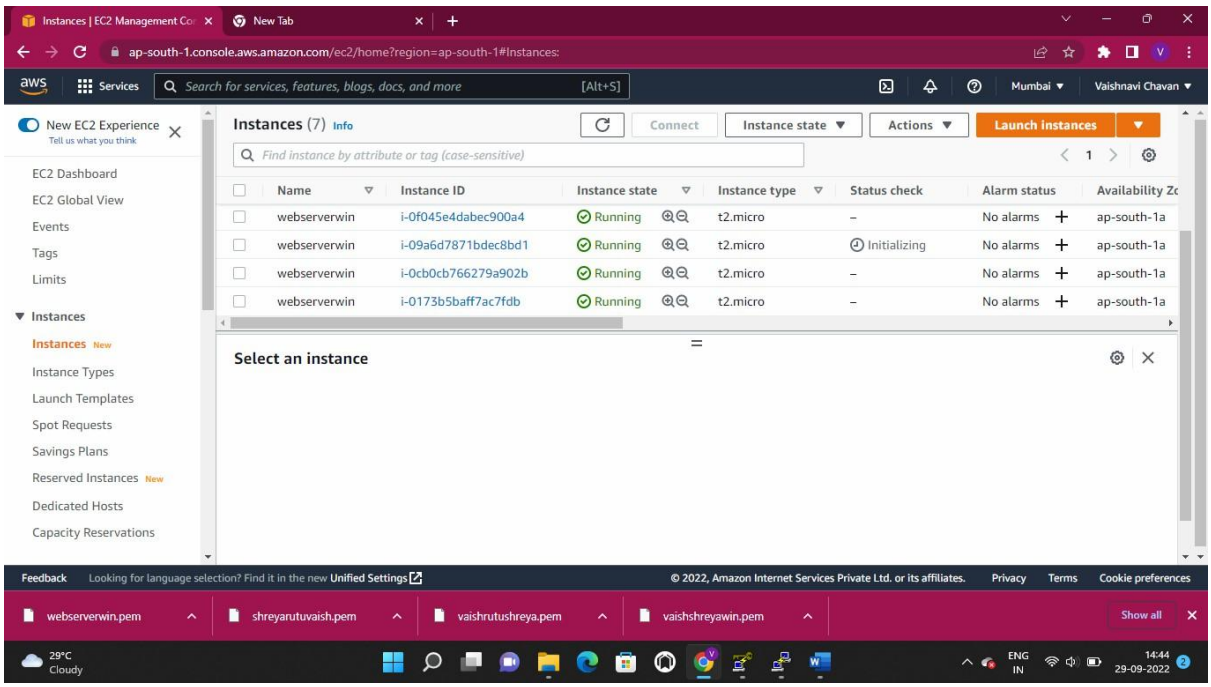


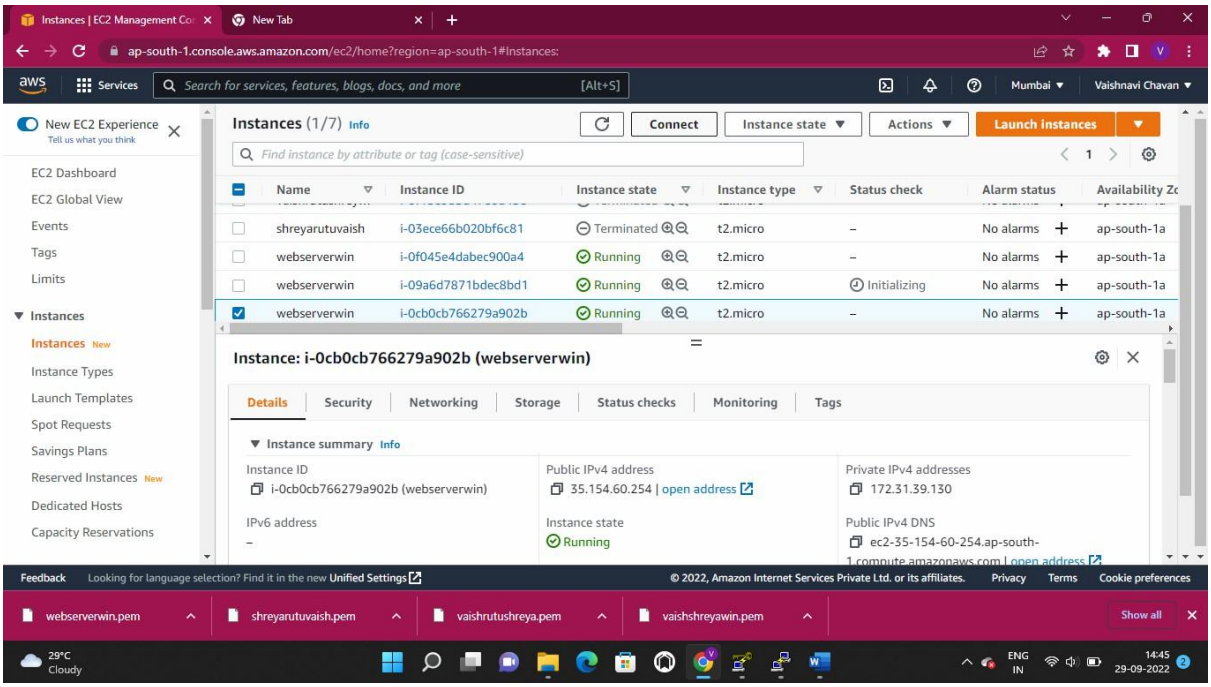




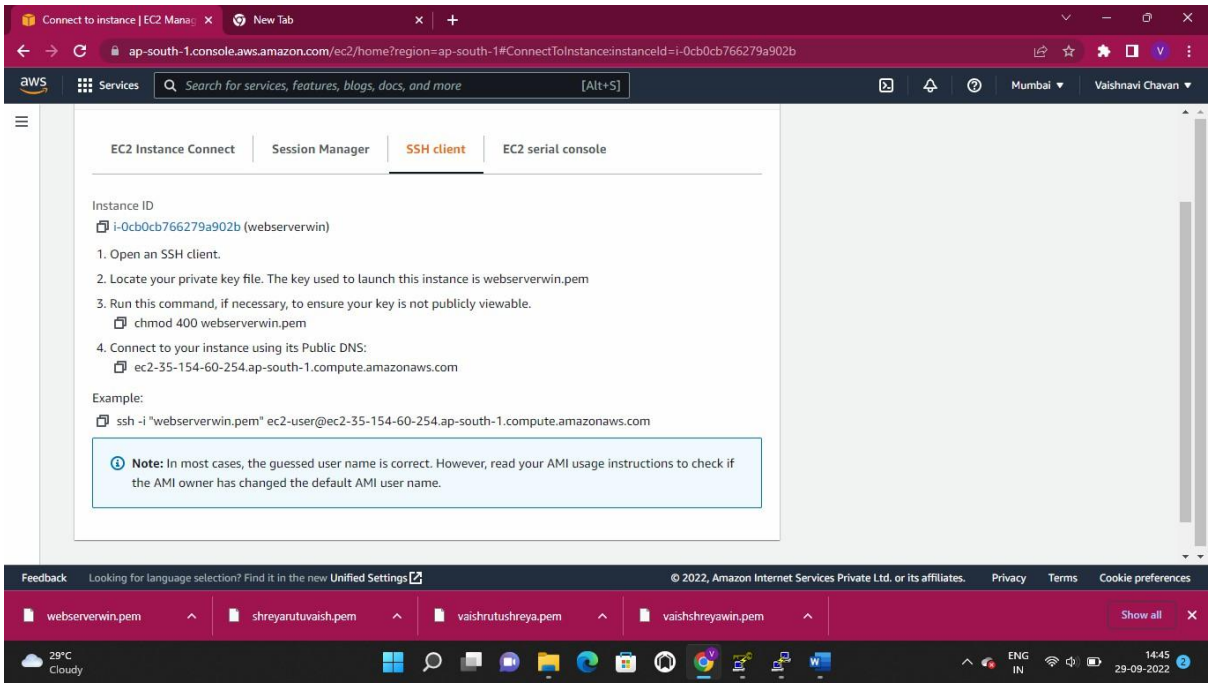


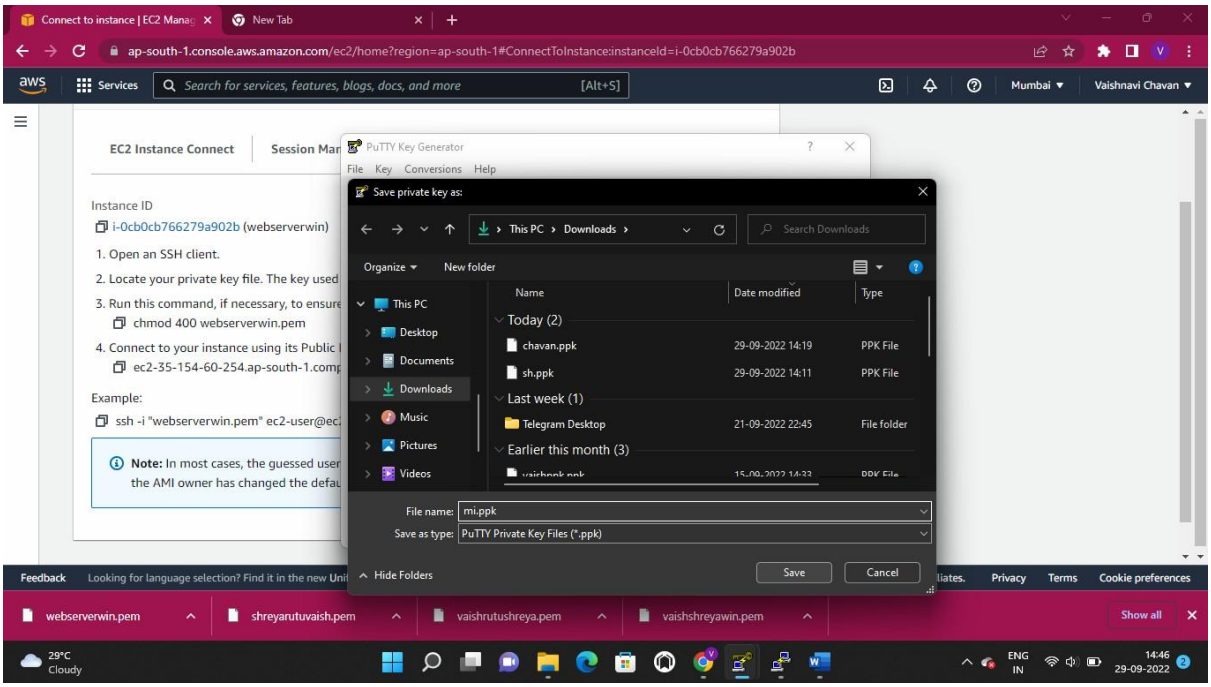
Step 5 : Select Instances that you have going to created. Now our four instances are running then select one out off this and connect.



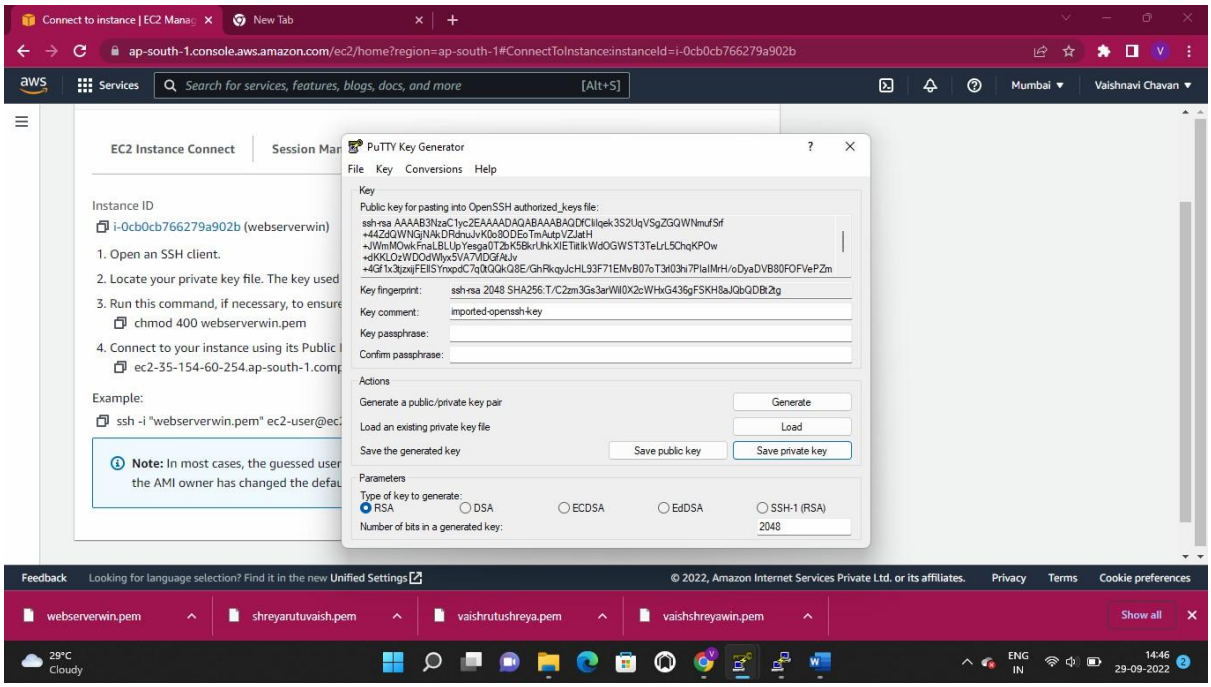


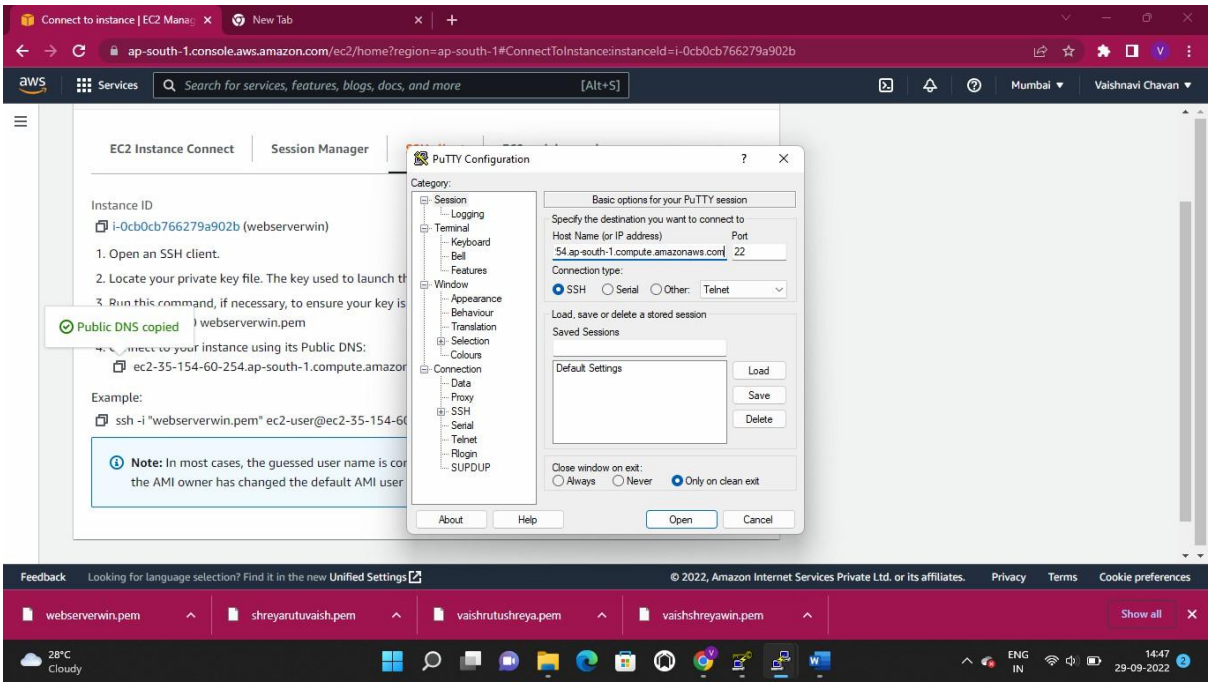
Step 6 : Select SSH Client then copy public DNS.



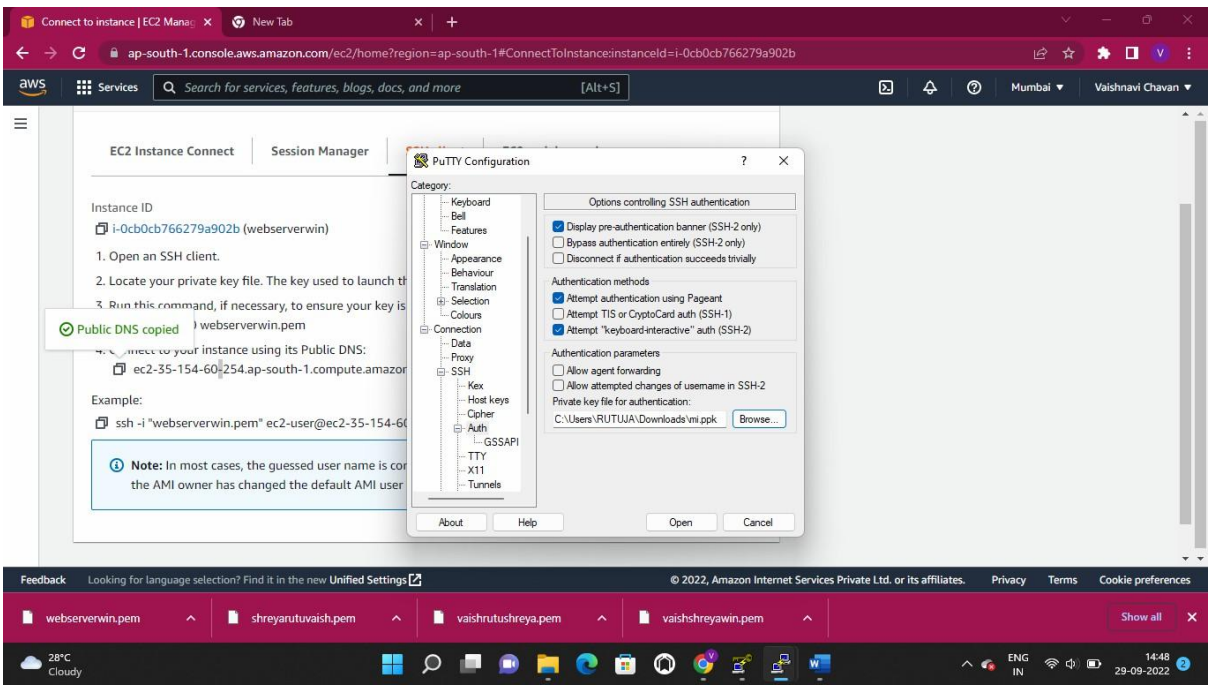


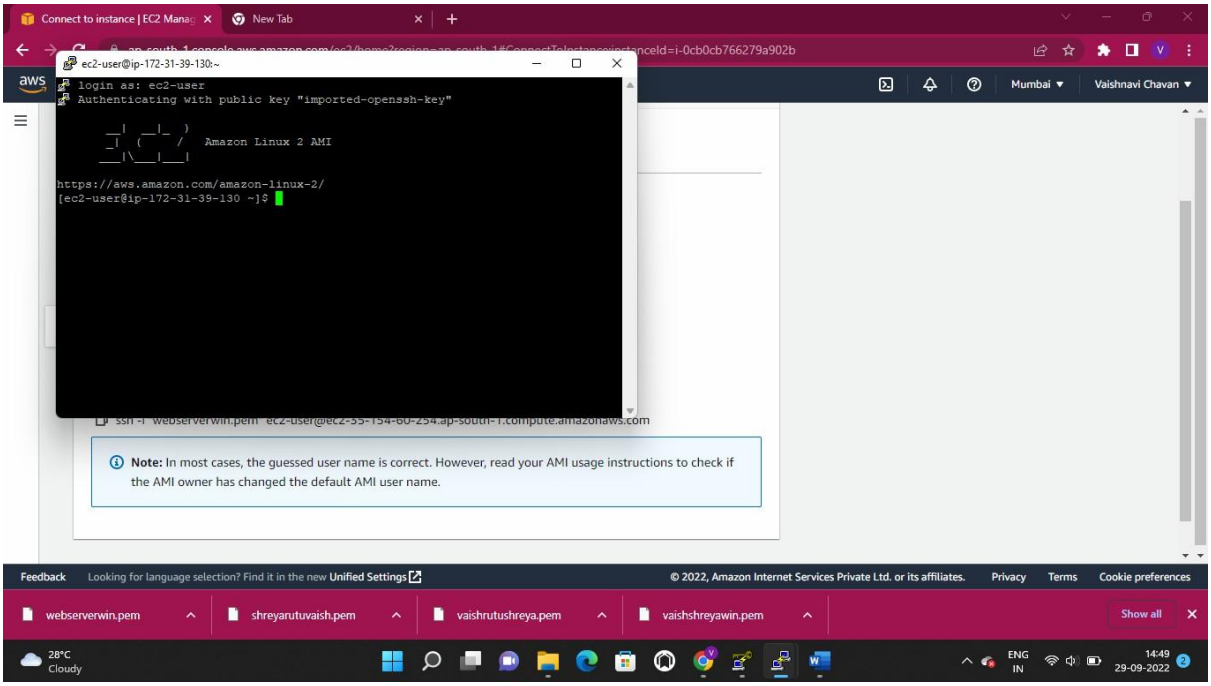
Step 7 : Then download PuttyGen and PuttyExe . Open Putty Gen then click on load then paste downloaded pem file . Then click on save private key in the form of .ppk then minimize.

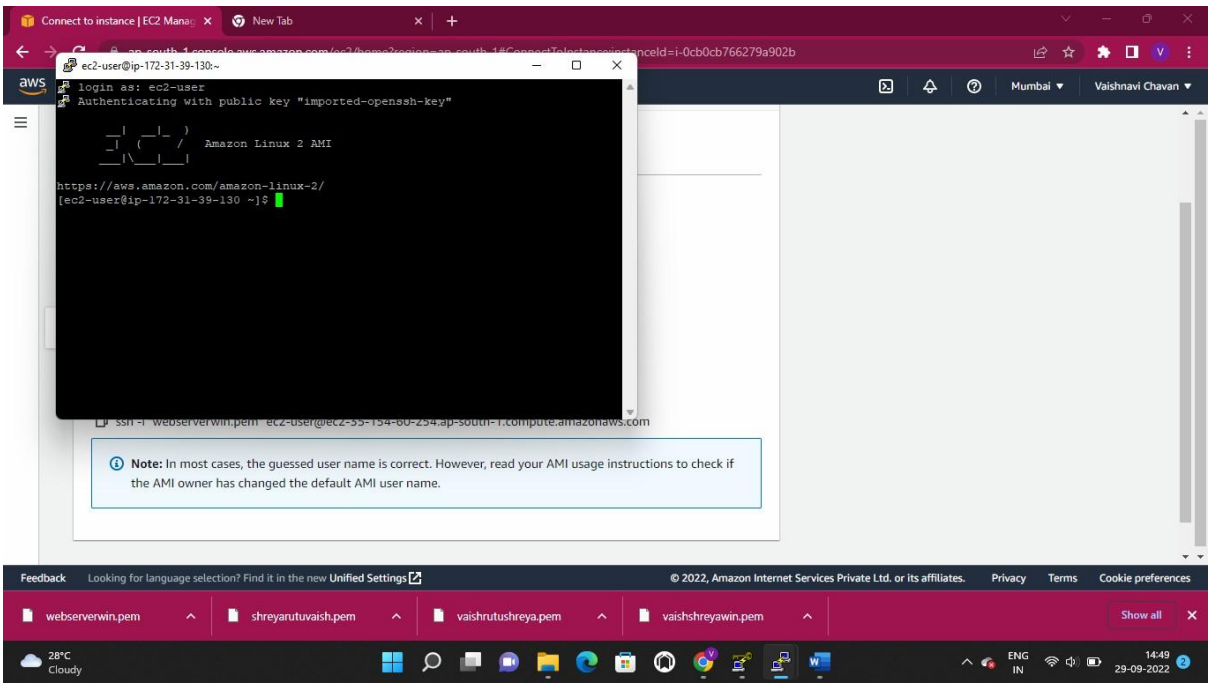




Step 8 : Click on Putty exe , open it and paste public DNS .select client SSH. Click on SSH then Auth click on it. Browze PPK file here then click on open. Our Window will be open.







Conclusion: Creating and accessing a virtual instance using an SSH client ensures secure and efficient remote management of cloud resources. This process is fundamental for developers and system administrators to deploy, configure, and maintain applications in a cloud environment.