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Batch: T11
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Subject: AdvDevOps

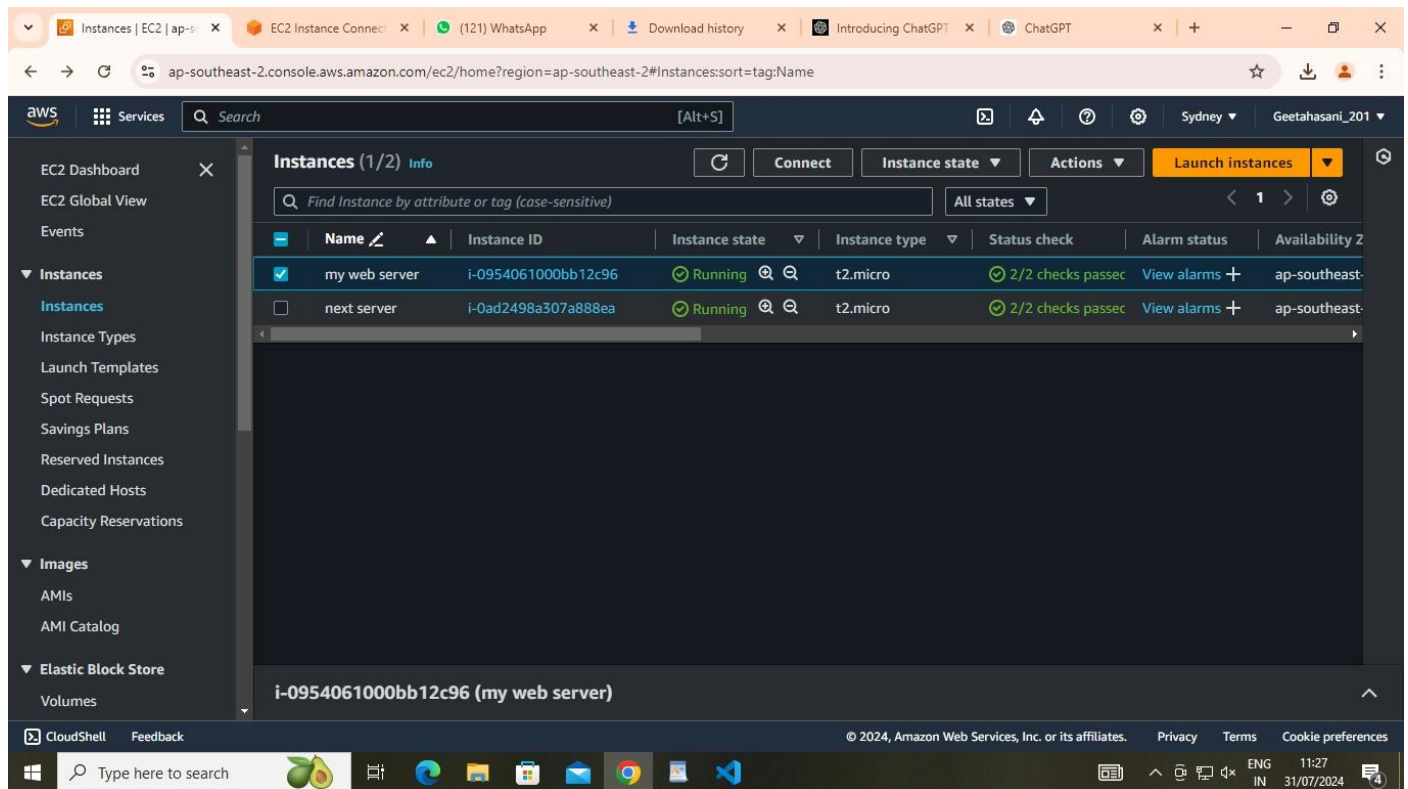
Assignment 1A: EC2

Aim: To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.

Theory:

EC2 stands for Elastic Compute Cloud. EC2 is an on-demand computing service on the AWS cloud platform. Under computing, it includes all the services a computing device can offer to you along with the flexibility of a virtual environment. It also allows the user to configure their instances as per their requirements i.e. allocate the RAM, ROM, and storage according to the need of the current task. Even the user can dismantle the virtual device once its task is completed and it is no more required. For providing, all these scalable resources AWS charges some bill amount at the end of every month, the bill amount is entirely dependent on your usage. EC2 allows you to rent virtual computers. The provision of servers on AWS Cloud is one of the easiest ways in EC2. EC2 has resizable capacity. EC2 offers security, reliability, high performance, and costeffective infrastructure so as to meet the demanding business needs.

Implementation:



The screenshot displays the AWS Management Console for the 'ap-southeast-2' region. The 'Instances' page is active, showing a list of two EC2 instances. The first instance, 'my web server', has the ID 'i-0954061000bb12c96' and is in a 'Running' state. The second instance, 'next server', has the ID 'i-0ad2498a307a888ea' and is also in a 'Running' state. Both instances are of type 't2.micro' and are located in the 'ap-southeast-2' availability zone. The console interface includes a sidebar with navigation options like 'EC2 Dashboard', 'Events', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', 'AMI Catalog', and 'Elastic Block Store'. The top navigation bar shows the user's profile as 'Geetaharani_201' and the region 'Sydney'. The bottom of the screen shows a Windows taskbar with various application icons and the system clock indicating 11:27 on 31/07/2024.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability zone
my web server	i-0954061000bb12c96	Running	t2.micro	2/2 checks passed	View alarms	ap-southeast-2
next server	i-0ad2498a307a888ea	Running	t2.micro	2/2 checks passed	View alarms	ap-southeast-2

