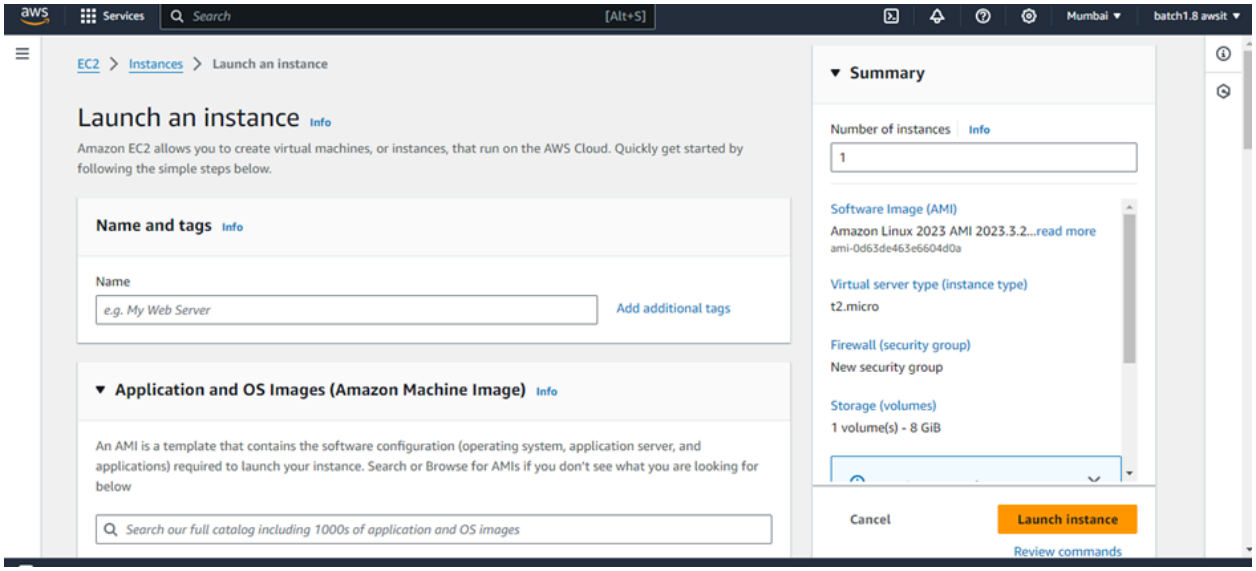
Name: Keyur Patel **Roll no : 16010421073** **Batch: A2** **Exp-3**

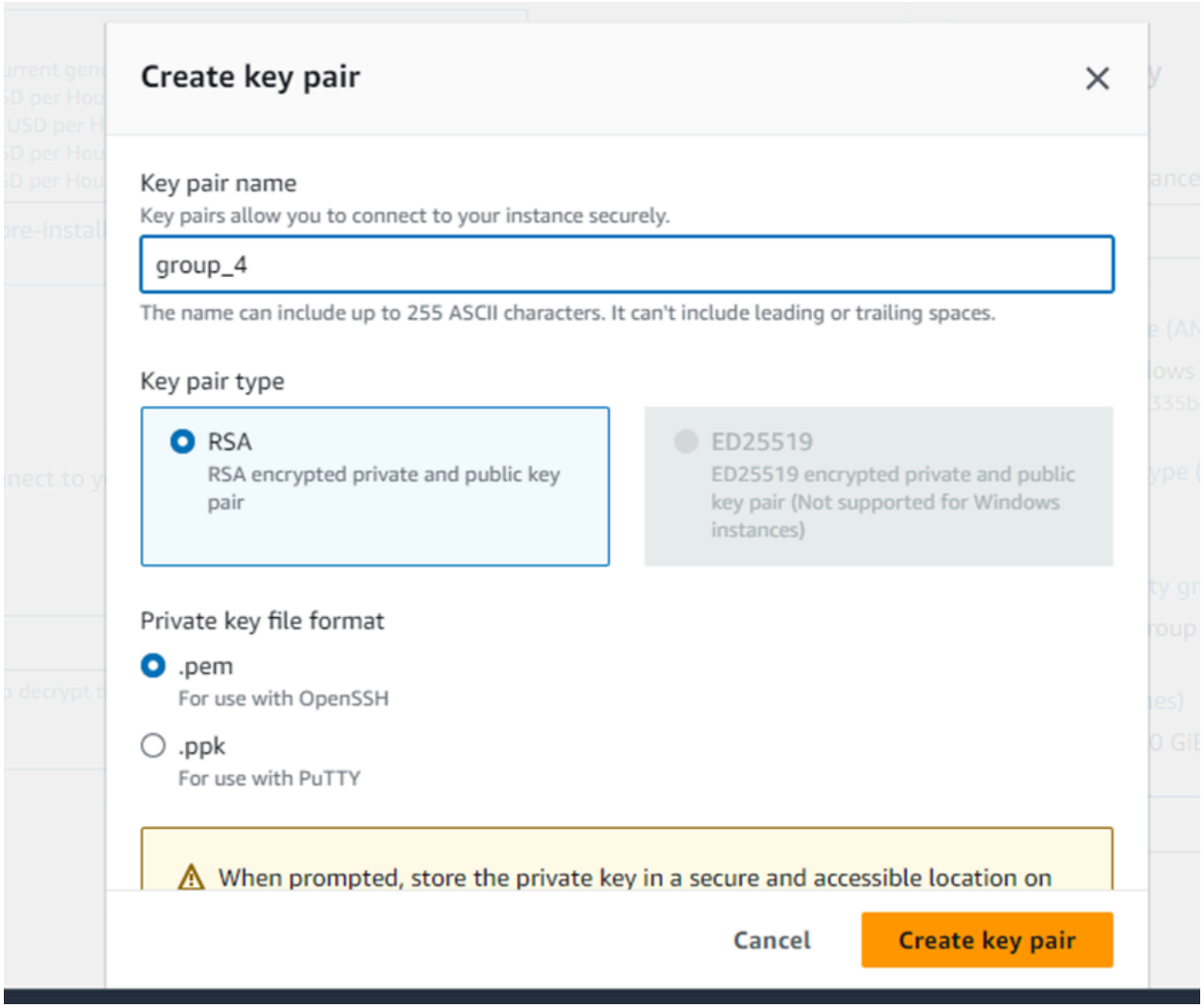
Aim: Creating Window Virtual Machine Instance using AWS (IaaS) using RDP and executing C++ program on Window Instance.

Results: (Program / Steps with screenshots)

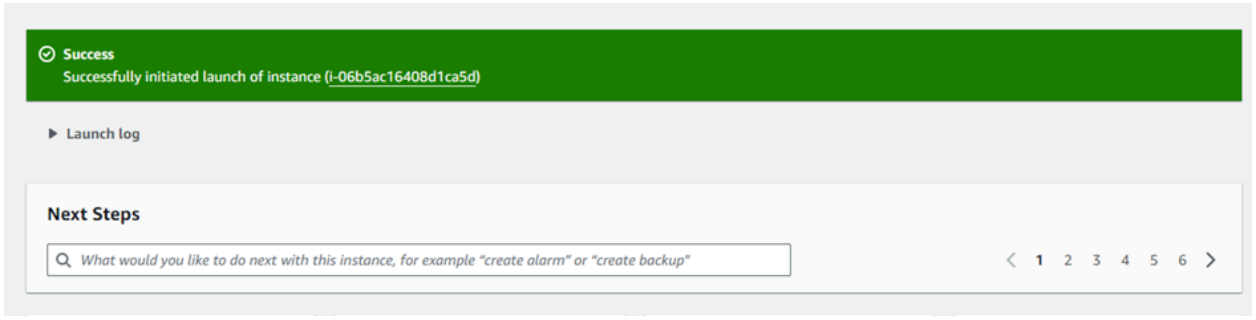
1. Launching an instance



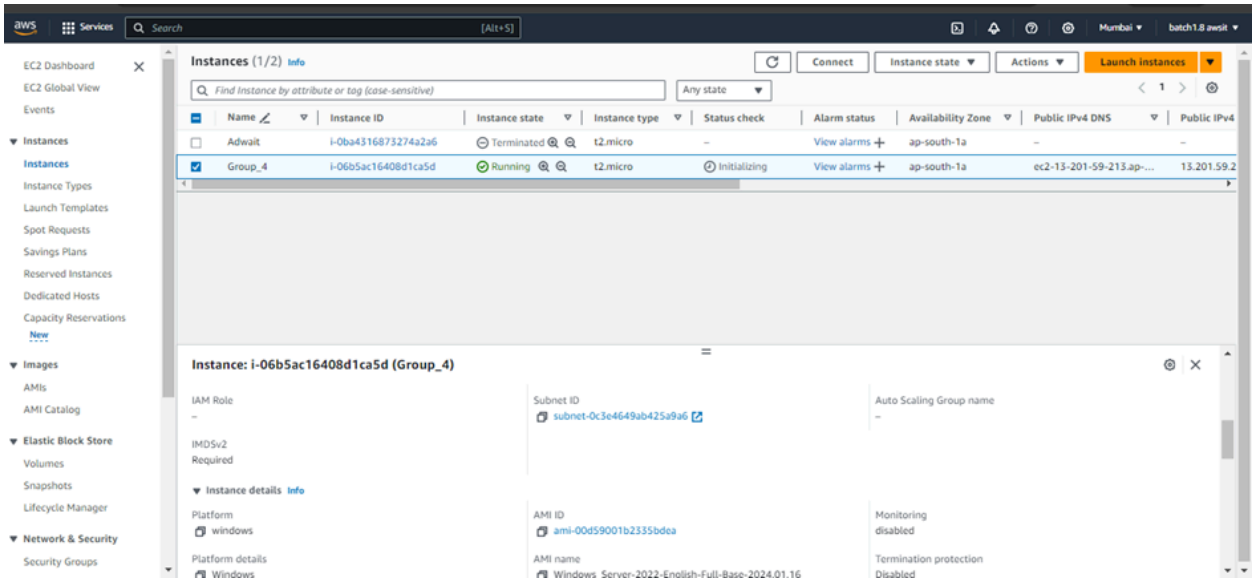
2. Adding a new machine and creating a Key-Pair



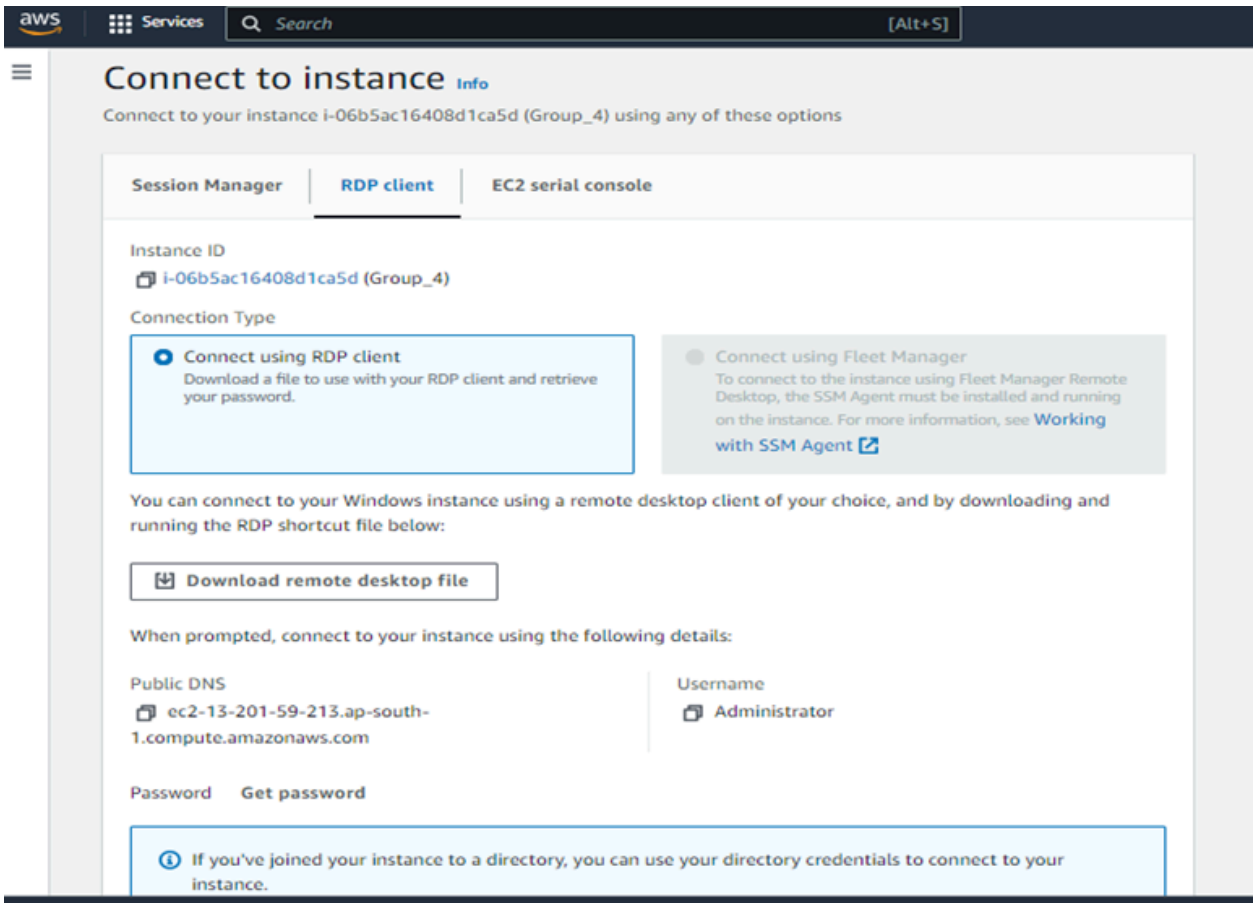
3. successfully made an instance:



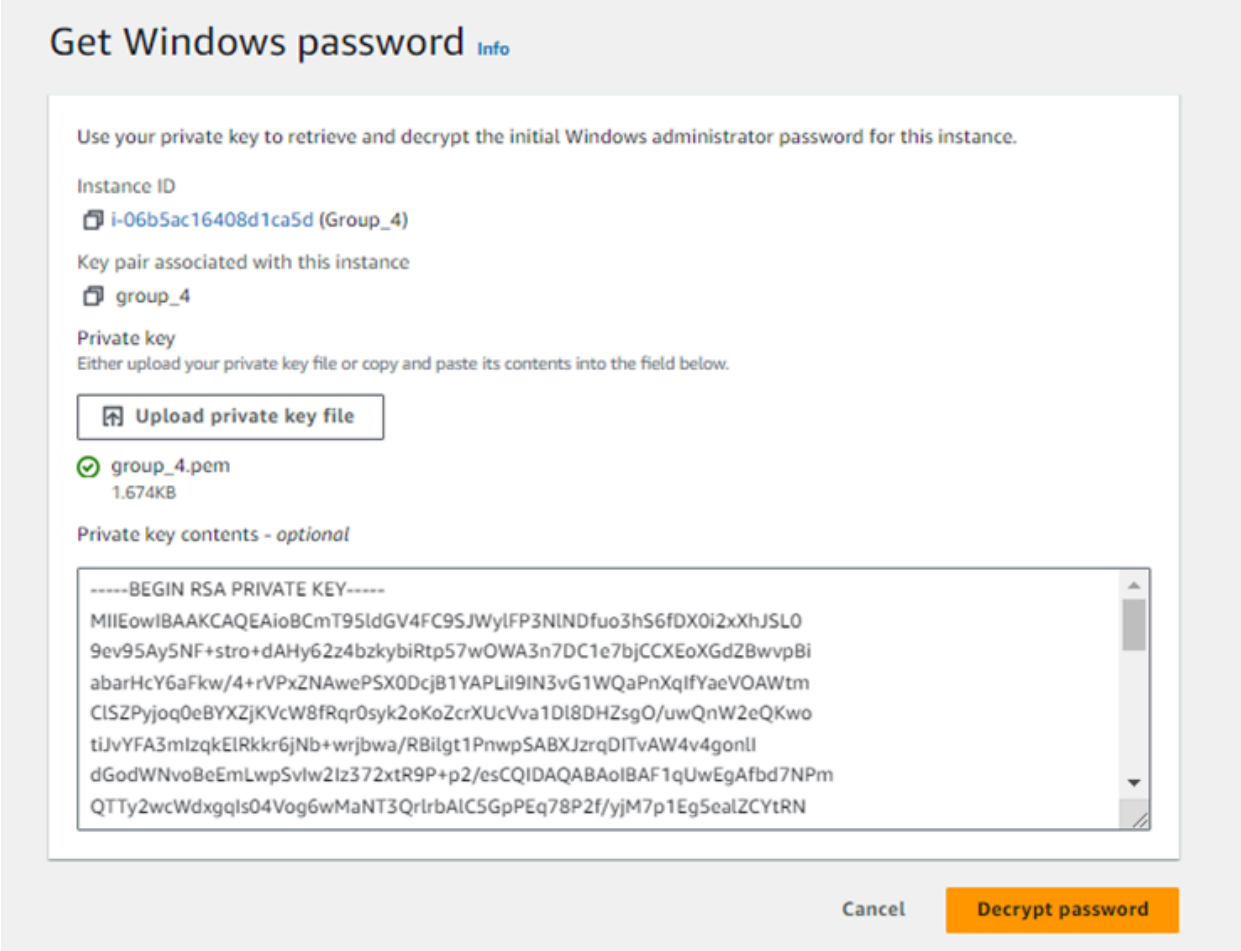
4. checking if the instance is running:



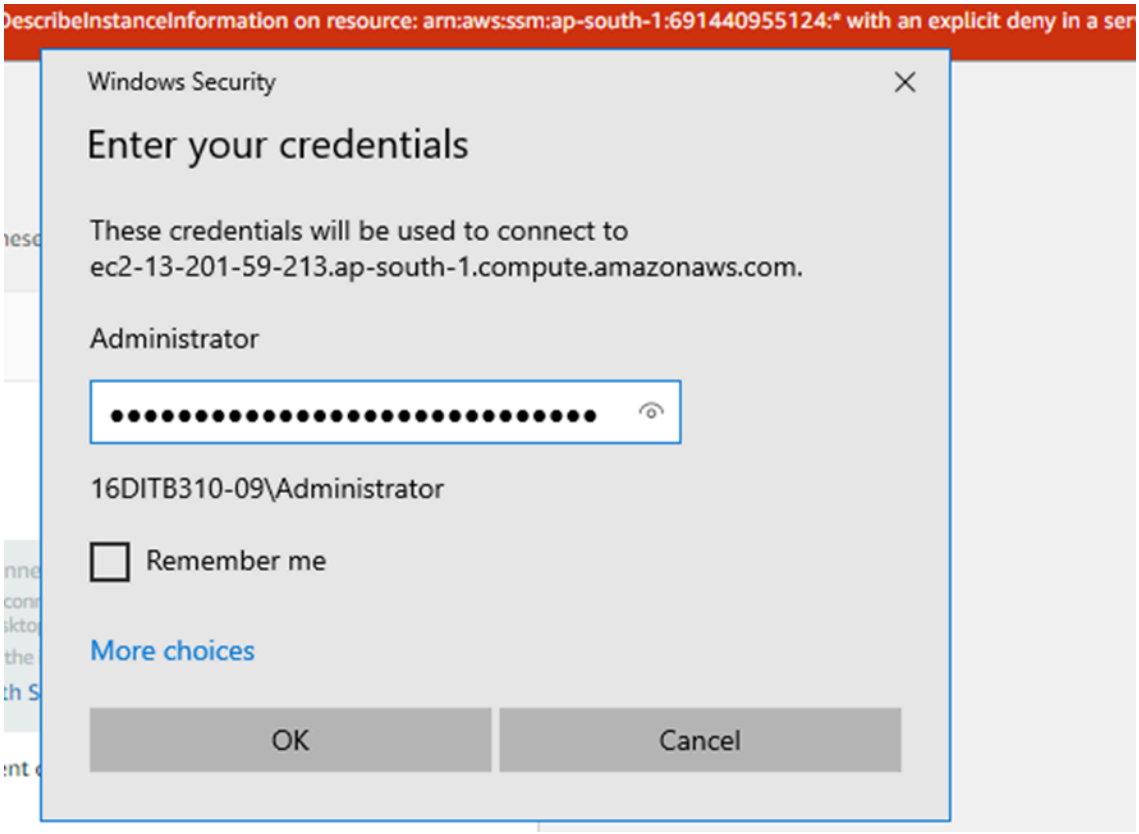
5. connecting the instance:



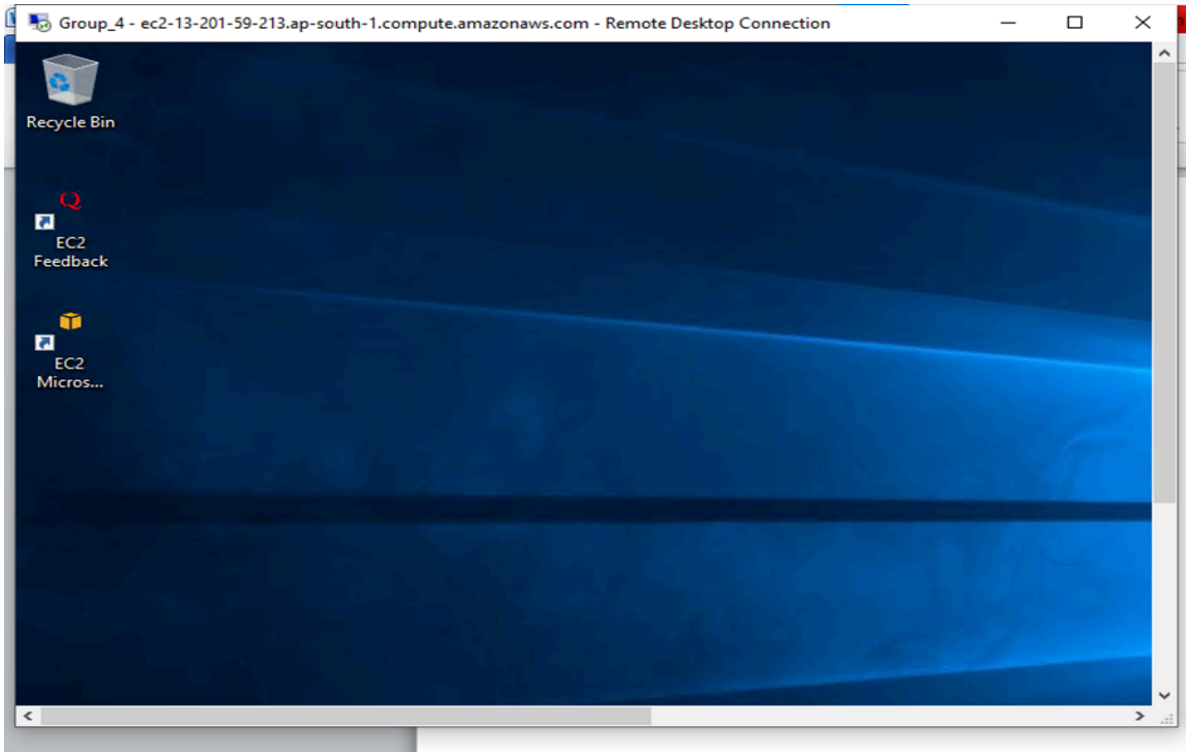
6.Using the RSA private key to generate the password:



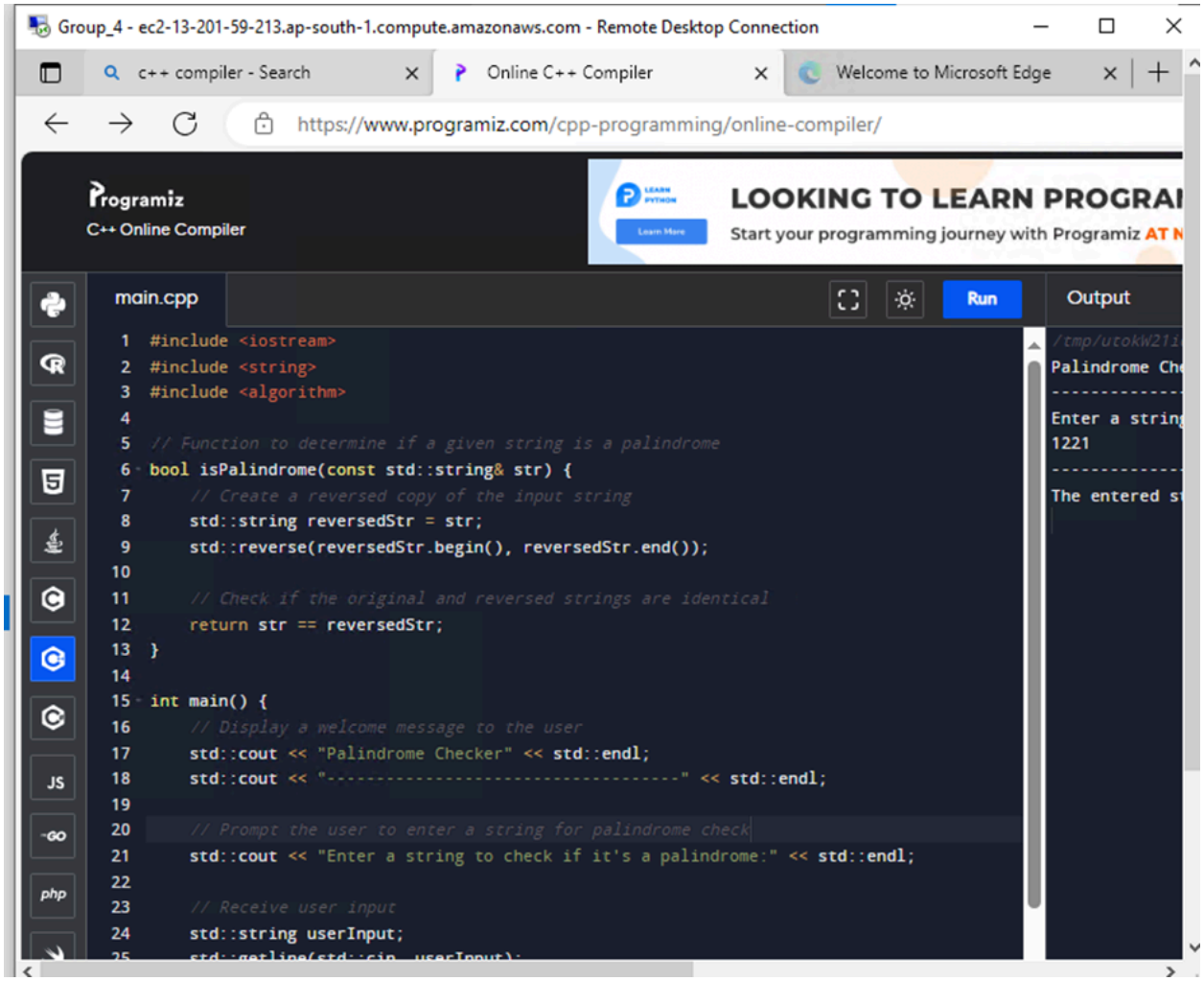
7.After generating the password , we login onto the AWS Cloud:



8.Running a different windows system on AWS Cloud:


Group_4 - ec2-13-201-59-213.ap-south-1.compute.amazonaws.com - Remote Desktop Connection
Recycle Bin
EC2 Feedback
EC2 Micros...

9.RUNNING THE C++ PROGRAM ON A ONLINE COMPIER:



Questions:

1. Explain two AWS IaaS, PaaS and SaaS services for each?

Sure, let me provide you with examples of two AWS services for each category: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).

Infrastructure as a Service (IaaS):

1. Amazon EC2 (Elastic Compute Cloud):

- Description: EC2 is a scalable compute service that allows users to rent virtual servers on-demand. It provides full control over the computing resources, allowing users to configure the instances based on their requirements.

- Use Cases: Hosting applications, running batch processing, and providing scalable computing resources.

2. Amazon S3 (Simple Storage Service):

- Description: S3 is a scalable object storage service for storing and retrieving data. It offers high durability and availability, and users can store and retrieve any amount of data at any time.

- Use Cases: Storing and retrieving files, backup and restore, data archiving, and serving static assets for web applications.

Platform as a Service (PaaS):

1. AWS Elastic Beanstalk:

- Description: Elastic Beanstalk is a fully managed service that simplifies the deployment and management of applications. It supports various programming languages and web application frameworks, allowing developers to focus on writing code rather than managing infrastructure.

- Use Cases: Web application hosting, microservices deployment, and automatic scaling.

2. AWS RDS (Relational Database Service):

- Description: RDS is a managed relational database service that supports multiple database engines, including MySQL, PostgreSQL, and Microsoft SQL Server. It automates routine database tasks such as patching, backups, and scaling.

- Use Cases: Hosting relational databases for applications, data warehousing, and business intelligence.

Software as a Service (SaaS):

1. Amazon WorkMail:

- Description: WorkMail is a secure and managed business email and calendaring service. It eliminates the need for managing email infrastructure and provides features like encryption, data loss prevention, and mobile device management.

- Use Cases: Business email and calendaring for organizations.

2. Amazon Chime:

- Description: Chime is a secure communication and collaboration service that includes online meetings, video conferencing, and chat. It allows users to conduct virtual meetings and collaborate in real-time.

- Use Cases: Virtual meetings, team collaboration, and online communication.

These examples showcase a variety of AWS services spanning IaaS, PaaS, and SaaS, each serving different needs for users and businesses.

Outcome:

CO2 Study the Evolution of Cloud Computing and its models.

CONCLUSION:

Amazon Elastic Compute Cloud (Amazon EC2) provides a flexible and scalable solution for computing capacity in the AWS Cloud. By eliminating the need for upfront hardware investments, EC2 allows developers to expedite application development and deployment. Its capability to launch and configure virtual servers, manage security and networking, and handle storage efficiently, empowers users to adapt to changing requirements or sudden spikes in popularity, reducing the need for accurate traffic forecast.