**EX.NO: 3** Perform application migration using AWS

Date:

#### **READING MATERIALS:**

Amazon Web Services (AWS) is a platform that allows the development of flexible applications by providing solutions for elastic infrastructure scalability, messaging, and data storage. The platform is accessible through SOAP or RESTful Web service interfaces and provides a Web-based console where users can handle administration and monitoring of the resources required, as well as their expenses computed on a pay-as-you-go basis.

AWS Application Migration Service (MGN) is a highly automated lift-and-shift (rehost) solution that simplifies, expedites, and reduces the cost of migrating applications to AWS. It enables companies to lift-and-shift a large number of physical, virtual, or cloud servers without compatibility issues, performance disruption, or long cutover windows. MGN replicates source servers into your AWS account. When you're ready, it automatically converts and launches your servers on AWS so you can quickly benefit from the cost savings, productivity, resilience, and agility of the Cloud. Once your applications are running on AWS, you can leverage AWS services and capabilities to quickly and easily replatform or refactor those applications – which makes lift-and-shift a fast route to modernization.

AWS Application Migration Service minimizes time-intensive, error-prone manual processes by automatically converting your source servers to run natively on AWS. It also simplifies application modernization with built-in, post-launch optimization options. Migrate your on-premises workload walkthrough In this walkthrough, the example WordPress blog is currently running as a two-tier stack in a simulated on-premises data center. The frontend uses Apache Server running on layout with a predefined operating system installed. These are specified by the Amazon Ramdisk Image (ARI, id: ari-yyyyyy) and the Amazon Kernel Image (AKI, id: aki-zzzzzz), which are part of the configuration of the template.

AMIs are either created from scratch or "bundled" from existing EC2 instances. A common practice is to prepare new AMIs to create an instance from a preexisting AMI, log into it once it is booted and running, and install all the software needed. Using the tools provided by Amazon, we can convert the instance into a new image. Once an AMI is created, it is stored in an S3 bucket and the user can decide whether to make it available to other users or keep it for personal use. Finally, it is also possible to associate a product code with a given AMI, thus allowing the owner of the AMI to get revenue every time this AMI is used to create EC2 instances.

#### **Communication services**

Amazon provides facilities to structure and facilitate the communication among existing applications and services residing within the AWS infrastructure. These facilities can be organized into two major categories: virtual networking and messaging

## Virtual networking

Virtual networking comprises a collection of services that allow AWS users to control the connectivity to and between compute and storage services. Amazon Virtual Private Cloud (VPC) and Amazon Direct Connect provide connectivity solutions in terms of infrastructure; Route 53 facilitates connectivity in terms of naming. Amazon VPC provides a great degree of flexibility in creating virtual private networks within the Amazon infrastructure and beyond. The service providers prepare either templates covering most of the usual scenarios or a fully customizable network service for advanced configurations. Prepared templates include public subnets, isolated networks, private networks accessing Internet through network address translation (NAT), and hybrid networks including AWS resources and private resources. Also, it is possible to control connectivity between different services (EC2 instances and S3 buckets) by using the Identity Access Management (IAM) service. During 2011, the cost of Amazon VPC was \$0.50 per connection hour.

**EX.NO: 3** Perform application migration using AWS.

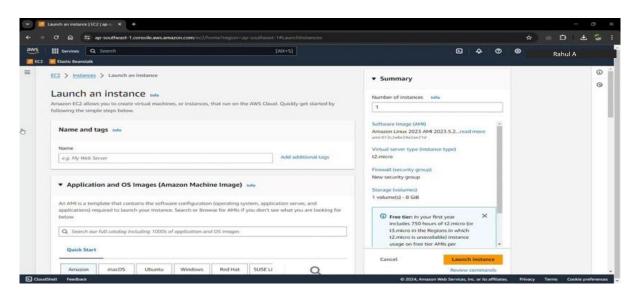
Date:

AIM:

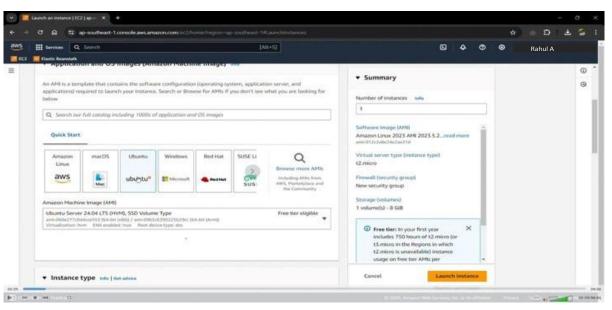
To Perform application migration using AWS.

#### PROCEDURE with SCREENSHOTS:

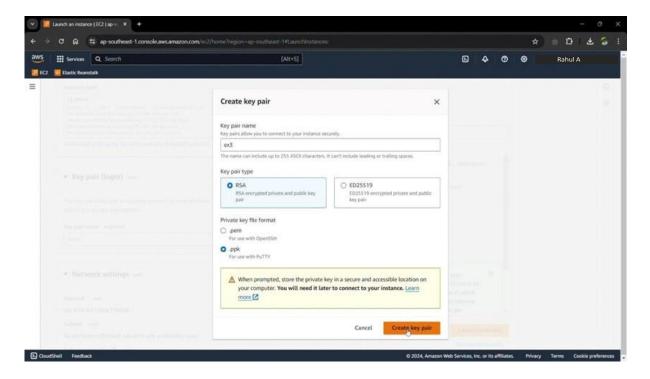
Step 1: Login to AWS Console and open EC2 service.



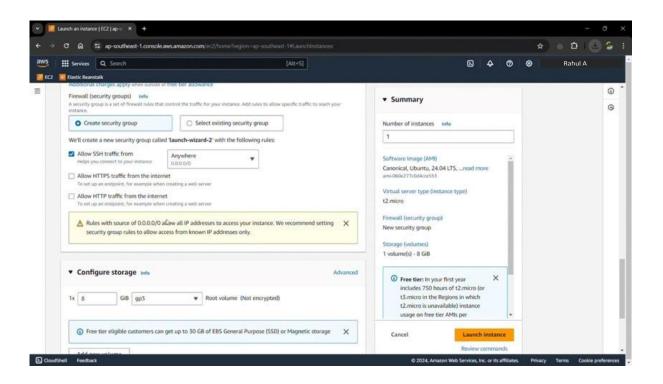
Step 2: Create an instance with Ubuntu OS.



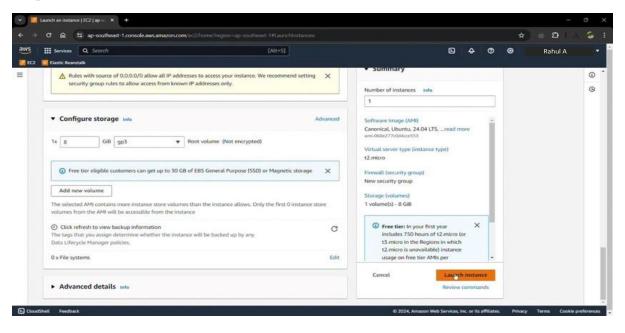
# Step 3: Create a keypad for accessing the instances.



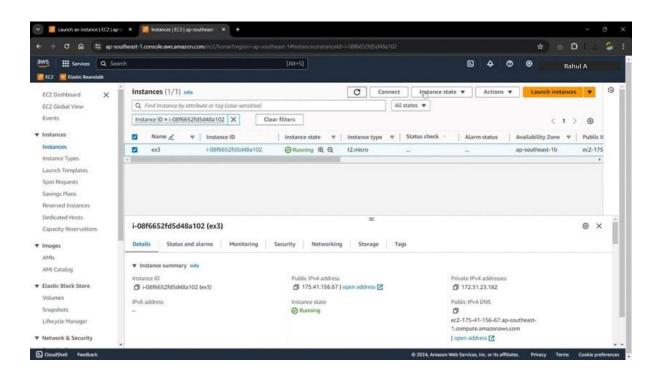
Step 4: For security group, leave as default.



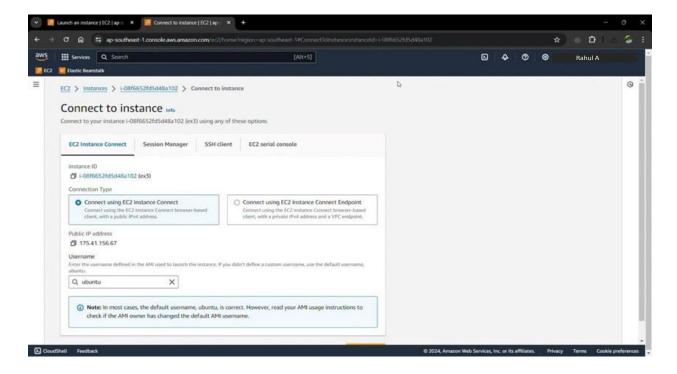
# Step 5: Click launch instances.



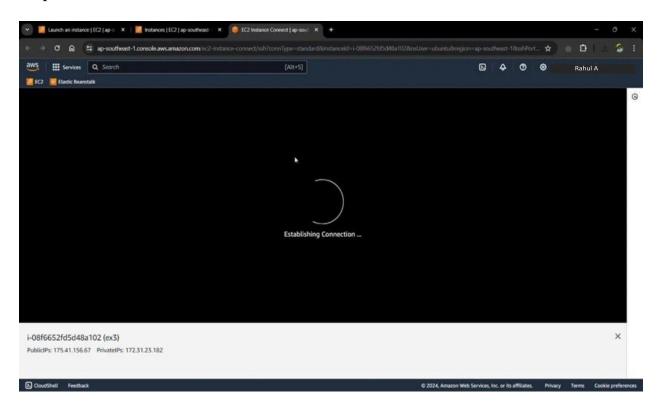
Step 6: Select the instance to connect.



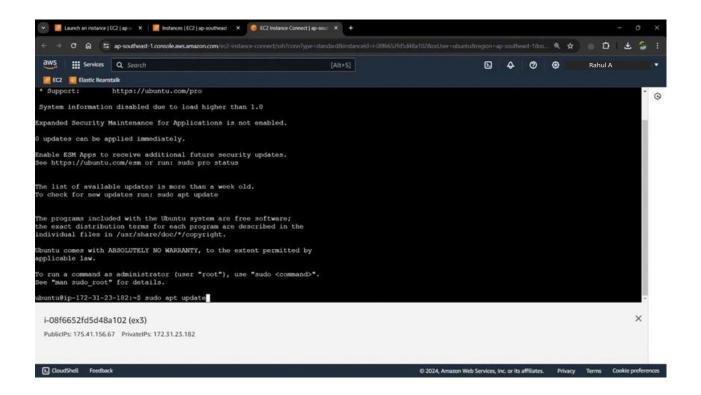
# Step 7: Connect the instance.



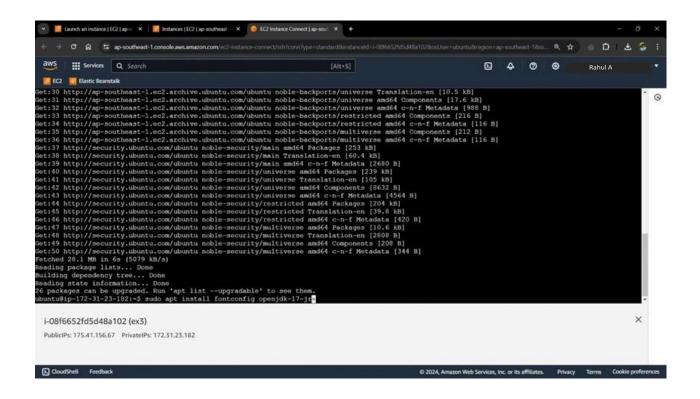
Step 8: Connection has been established.



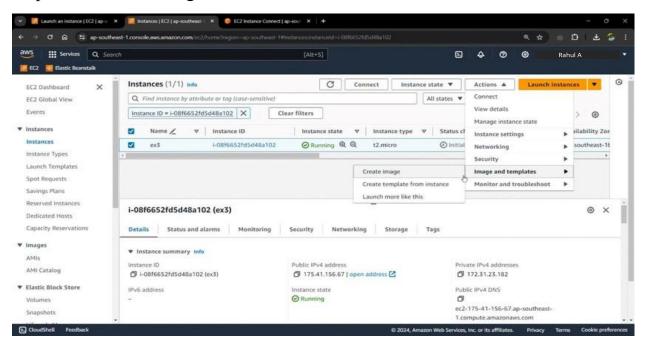
### Step 9: Log into Ubuntu OS and update the system.

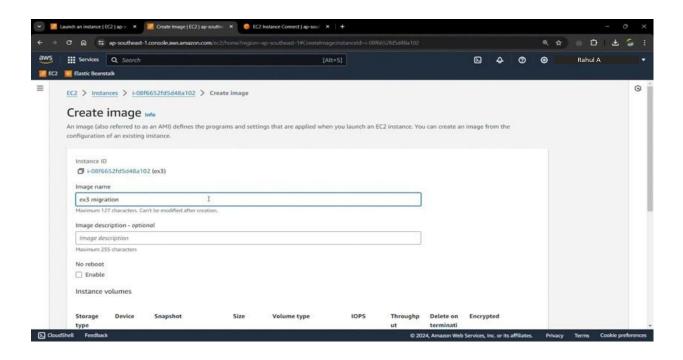


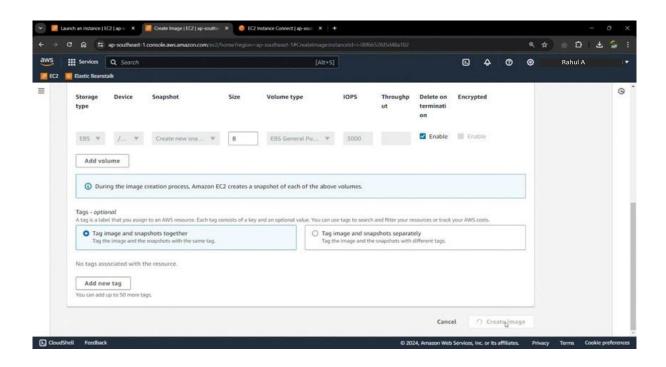
Step 10: Install the java application using JDK.

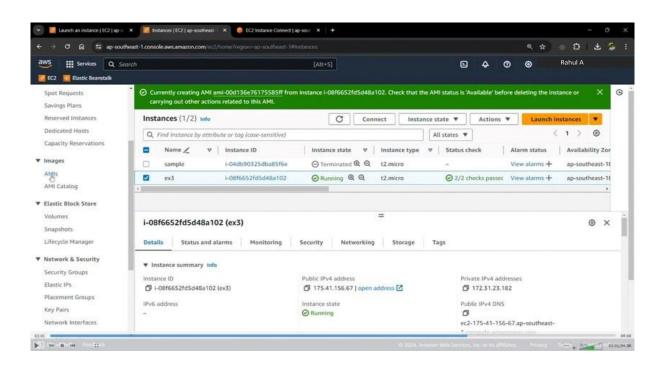


## Step 11: Create an image for the instance.

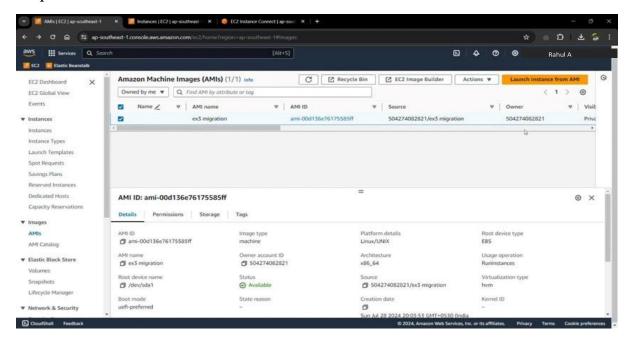




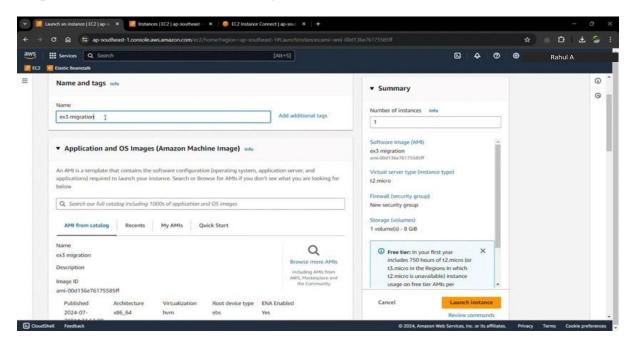




# Step 14: Select the AMI.

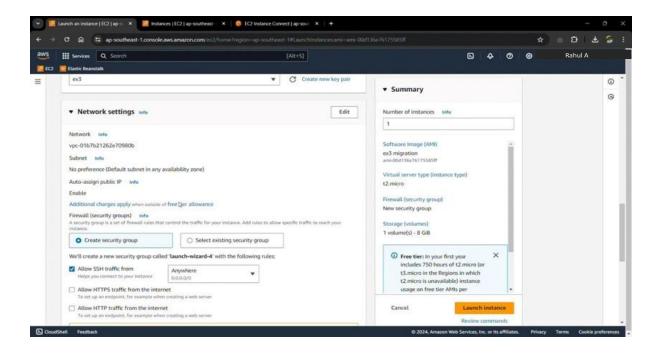


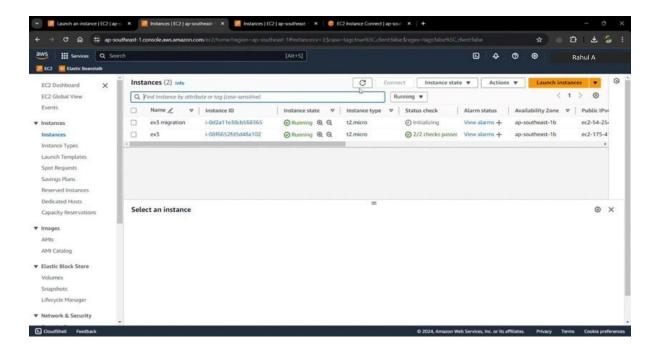
Step 15: Launch the instance using the created AMI.

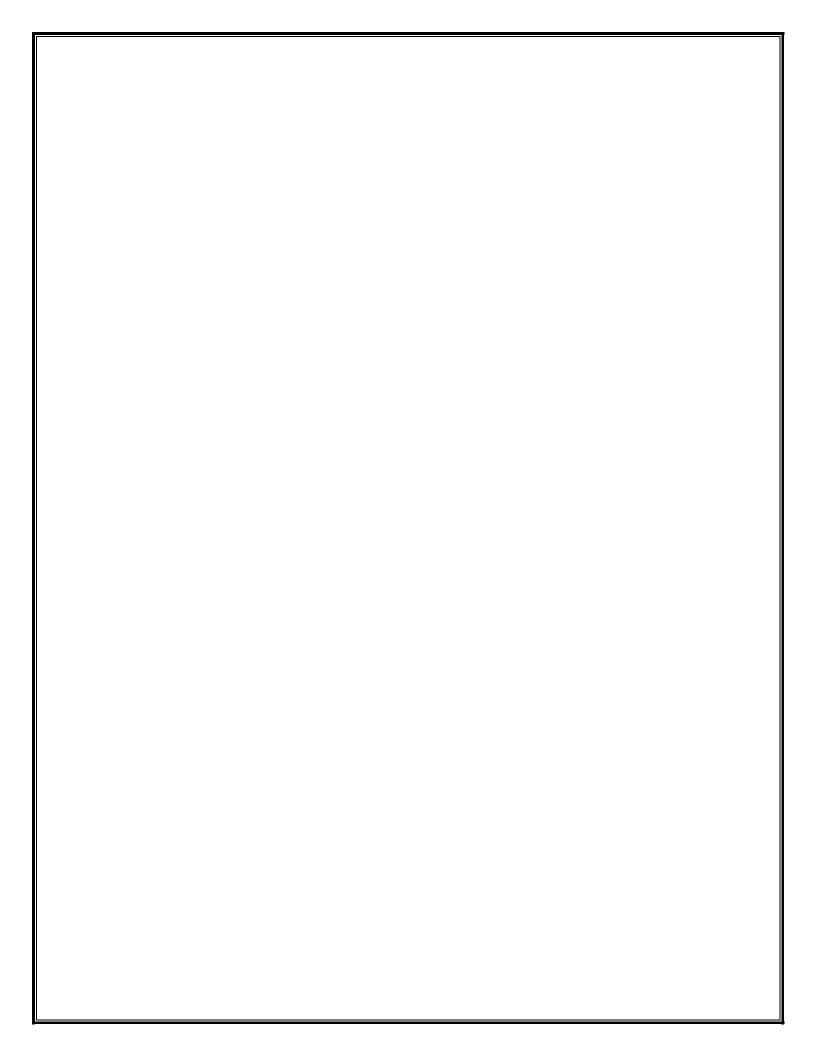


#### Step 16. Click the launch instances.

# Step 17: Successfully launched the instance using AMI.







<b>Evaluation by faculty</b>	
Criteria	Marks
Preparation	/20
Program	/25
Output/Result	/20
Viva	/10
Total	/75
Faculty Signature with Date	

**RESULT:**