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Roll Number: 45		Lab Assignment Number: 1			
Title of Lab Assignment: Introduction to AWS signup and Service Legal Agreement, Introduction to AWS sagemaker (Signup, freetier, billing & lam), AIML components in AWS, Simple Storage Service (S3) and Elastic Computing Cloud (EC2) Introduction.					
DOP: 25-01-2024		DOS: 06-02-2024			
CO Mapped: CO1	PO Mapped: PO1, PO2, PO3, PSO1	, PSO2	Signature:		

## **Practical No. 1**

Aim: Introduction to AWS signup and Service Legal Agreement, Introduction to AWS sagemaker (Signup, freetier, billing & lam), AIML components in AWS, Simple Storage Service (S3) and Elastic Computing Cloud (EC2) Introduction.

#### **Description:**

Introduction to AWS Sign Up and Service Legal Agreement: When signing up for Amazon Web Services (AWS), users embark on a streamlined process that involves creating an AWS account. This account provides access to a comprehensive suite of cloud services. During the signup, users must agree to AWS's Service Legal Agreement, which outlines terms and conditions governing the use of AWS services, ensuring a clear understanding of responsibilities and obligations.

Here's a step-by-step guide to help you with the AWS sign-up process:

#### 1. Visit the AWS Website:

Open your web browser and go to the official AWS website at <a href="https://aws.amazon.com/">https://aws.amazon.com/</a>

#### 2. Choose "Sign in to the Console":

On the AWS homepage, click on the "Sign in to the Console" button located in the top right corner.

#### 3. Create an AWS Account:

If you don't already have an AWS account, click on the "Create a new AWS account" button. If you have an existing AWS account, you can sign in with your credentials.

#### 4. Provide Your Email Address:

Enter the email address you want to associate with your AWS account. Make sure to use a valid email address as AWS will send important notifications and account-related information to this address.

# 5. Set up a Password:

Choose a secure password for your AWS account. AWS has specific requirements for passwords, so ensure that your chosen password meets the criteria.

# **6. Enter Your Account Information:**

Fill in your account information, including your account name (which will be used as your AWS account alias), full name, and contact information.

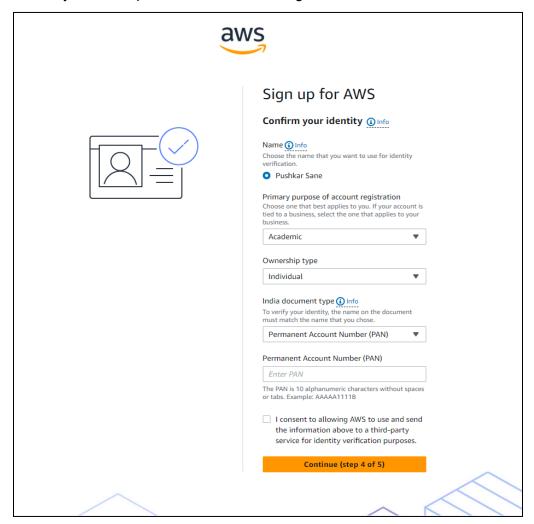
aws					
	Sign up for AWS				
Free Tier offers	Contact Information				
All AWS accounts can explore 3 different types of free offers, depending on the product used.  Always free Never expires  12 months free Start from initial sign-up date  Trials Start from service activation date	How do you plan to use AWS?  Business - for your work, school, or organization  Personal - for your own projects  Who should we contact about this account?  Full Name  Phone Number  H				
	Continue (step 2 of 5)				

# 7. Payment Information:

Provide your payment information. AWS requires valid payment details even if you plan to use free-tier services. This is to verify your identity and prevent misuse of AWS resources.

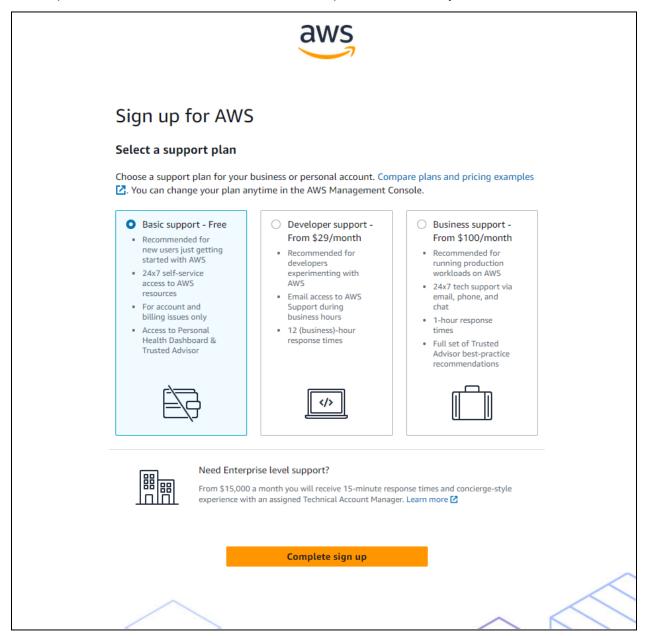
# 8. Identity Verification:

AWS may perform an identity verification process to ensure the security of your account. This may involve a phone call or text message verification.



#### 9. Choose a Support Plan:

AWS offers different support plans, including a free basic plan and various premium plans with additional features. Choose the plan that best fits your needs.

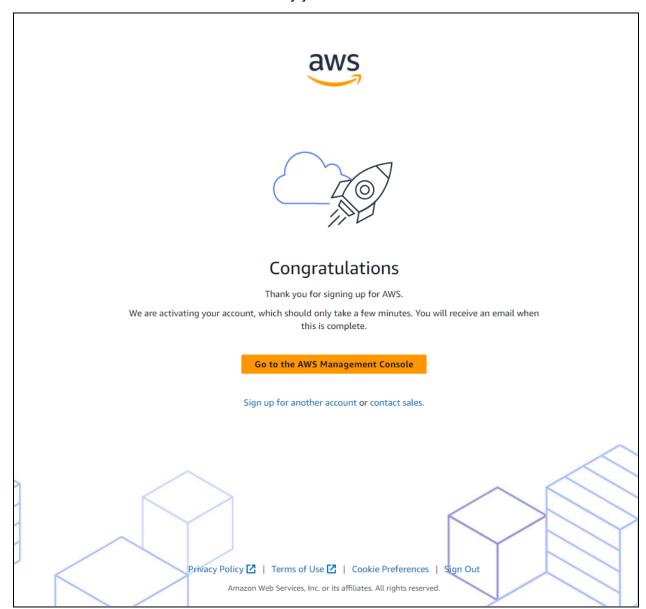


# 10. Review and Confirm:

Review the information you provided, including your email address, account details, and payment information. Once you are satisfied, click on the "Create Account and Continue" button.

#### 11. Confirmation Email:

AWS will send a confirmation email to the address you provided. Open the email and click on the confirmation link to verify your email address.

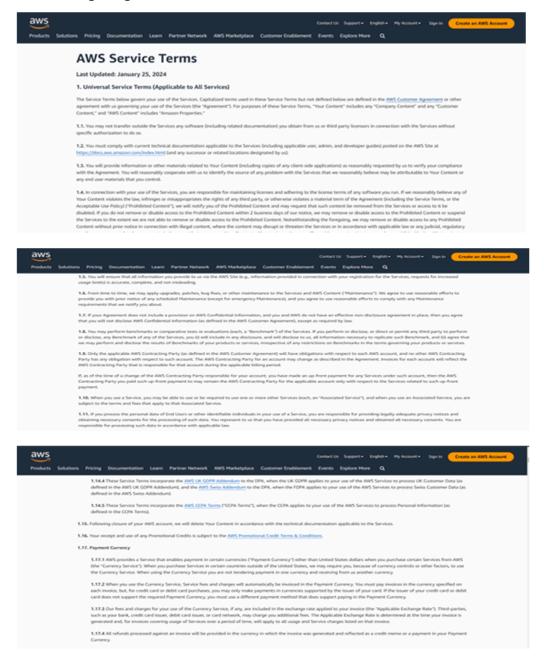


# 12. Set up Multi-Factor Authentication (Optional):

For added security, consider setting up Multi-Factor Authentication (MFA) for your AWS account. This can be done during the sign-up process or later within the AWS Management Console.

Once you've completed these steps, your AWS account will be created, and you can start using the AWS services. Keep your account credentials secure, and consider enabling additional security measures, such as IAM (Identity and Access Management) policies, for better control over your AWS resources.

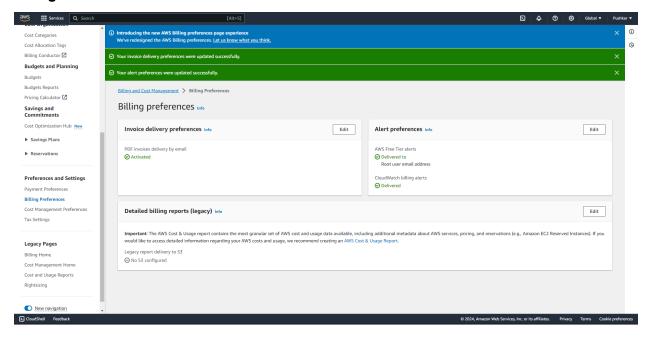
# Service Legal Agreement:

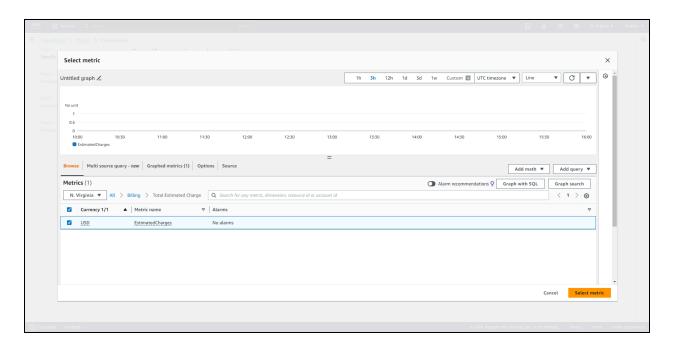


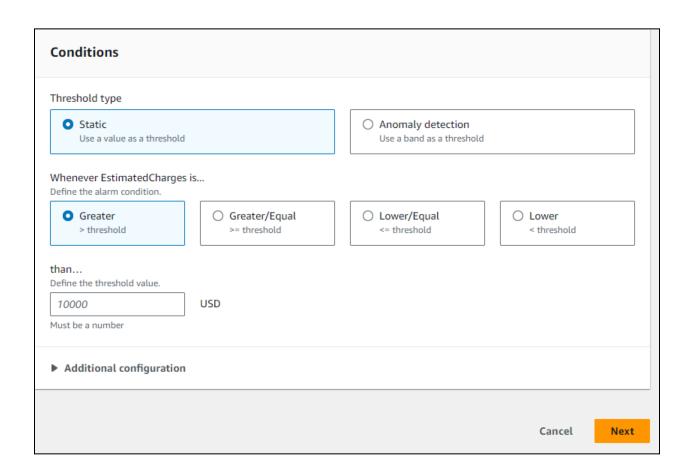
# Introduction to AWS SageMaker:

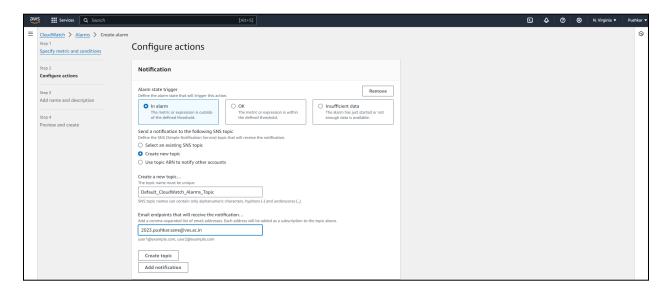
Amazon SageMaker is a managed machine learning service by AWS. It streamlines the entire machine learning workflow, from data labeling and model training to deployment and monitoring. With built-in algorithms, hyperparameter optimization, and easy integration with AWS ecosystem, SageMaker makes machine learning accessible to developers and data scientists.

# **Billing Process:**

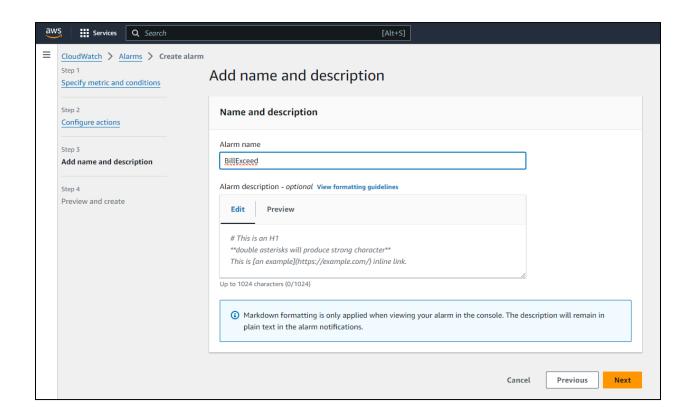


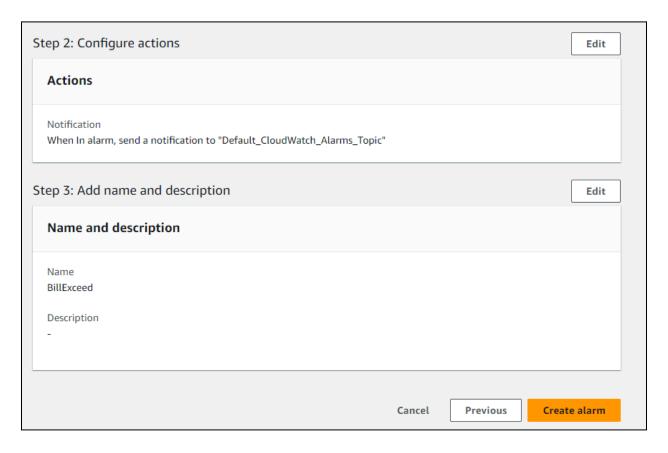


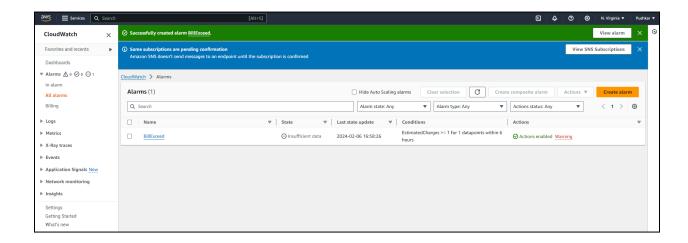




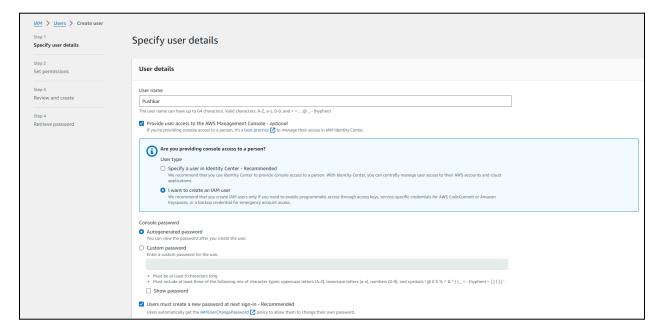
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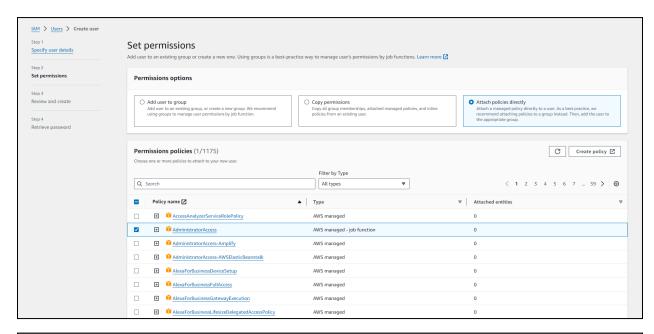


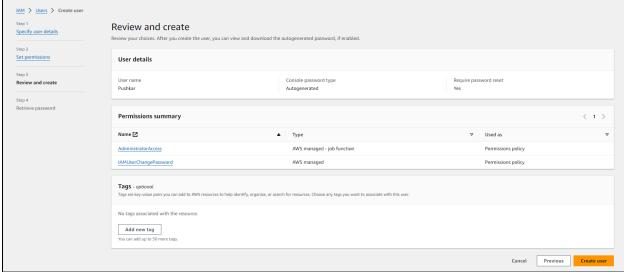


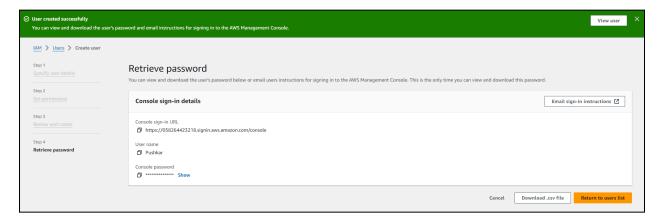


#### IAMUser:

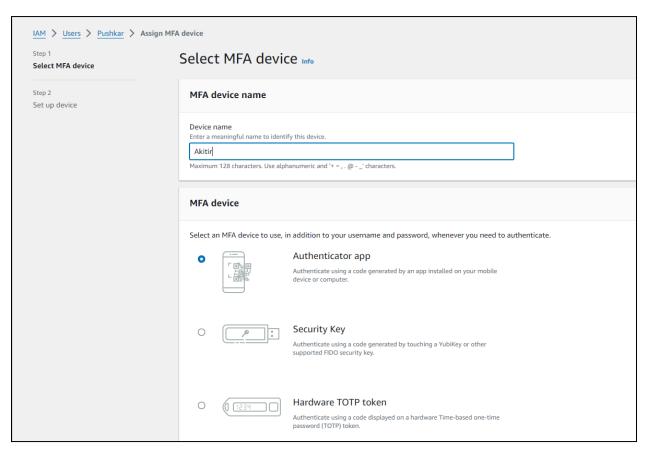


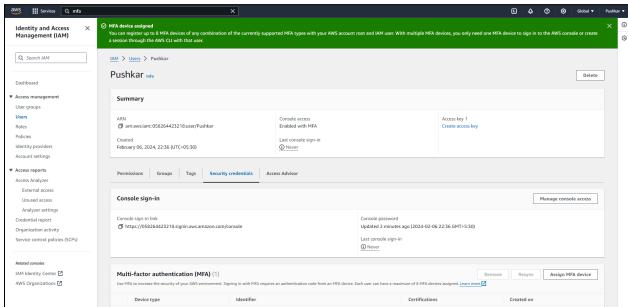






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#### **AIML Components in AWS:**

AWS provides a robust set of Artificial Intelligence and Machine Learning (AIML) services. These components include Amazon SageMaker for end-to-end machine learning workflows, Amazon Comprehend for natural language processing, Amazon Rekognition for image and video analysis, and more. These AIML services empower users to integrate powerful machine learning capabilities into their applications without the need for extensive expertise in the field.

# Simple Storage Service (S3) Introduction:

Amazon S3 (Simple Storage Service) is a scalable object storage service in AWS, designed to store and retrieve any amount of data from anywhere on the web. S3 offers industry-leading durability, availability, and scalability, making it ideal for diverse storage needs. Users can organize data in buckets, control access through flexible permissions, and leverage features like versioning and lifecycle policies.

#### **Elastic Computing Cloud (EC2) Introduction:**

Amazon EC2 (Elastic Compute Cloud) forms the backbone of AWS's compute services, offering resizable virtual servers in the cloud. Users can choose from a variety of instance types based on their specific computational requirements. EC2 instances provide flexibility, scalability, and control over computing resources, enabling users to run applications efficiently and cost-effectively in the AWS cloud.

Conclusion: In conclusion, this practical provided an introduction to essential aspects of Amazon Web Services (AWS), beginning with the sign-up process and familiarization with service legal agreements. It then delved into Amazon SageMaker, emphasizing its ease of access, free tier availability, billing structure, and integration with AWS Identity and Access Management (IAM). Additionally, the practical covered key components of artificial intelligence and machine learning (AIML) within AWS, followed by an overview of fundamental services like Simple Storage Service (S3) and Elastic Compute Cloud (EC2). These foundational concepts equip users with the knowledge necessary to leverage AWS effectively for their computing and machine learning needs.