

**Building with
Foundation Models
on Amazon
SageMaker Studio**

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Models on Amazon SageMaker
Studio

**Introduction to Workshop
Studio Setup**

SageMaker Spaces: JupyterLab
and Code Editor

Lab 0 - Deploy Llama2 and
Embedding Models

Lab 1 - Setup an LLM
Playground on Studio

Lab 2 - Prompt Engineering
with LLMs

Lab 3 - Retrieval Augmented
Generation (RAG) using
PySpark on EMR

► Lab 4 - Fine-Tune Gen AI
Models on Studio

Lab 5 - Foundation Model
Evaluation

Lab 5 - Foundation Model
Evaluation

▼ AWS account access

Open AWS console
(us-east-1)

Get AWS CLI credentials

Get EC2 SSH key

Exit event

[Event dashboard](#) > Introduction to Workshop Studio Setup

Introduction to Workshop Studio Setup

Prerequisites for this workshop

- You need a PC with a web browser, preferably with the latest version of Chrome / FireFox
- A Temporary AWS account provisioned by a lab Instructor

Recommended Background

- Familiarity with Machine Learning processes
- Familiarity with Amazon SageMaker and Amazon SageMaker Studio
- Familiarity with PySpark
- Basic Programming with Python

Time to complete

This workshop will take approximately 3-4 hours to complete

Workshop Studio AWS Account access

For this workshop you'll get access to a temporary AWS Account already pre-configured with Amazon SageMaker Studio. Follow the steps in this section to login to your AWS Account and download the workshop material.

1. Access to the 12 digit event access code distributed by an event operator as part of an AWS hosted event.
2. Sign in via the Workshop Studio join url <https://catalog.us-west-2.prod.workshops.aws/join> .

The screenshot shows two steps of the AWS Workshop Studio interface. The top part shows the 'Sign in' screen with options to 'Email one-time password (OTP)', 'Login with Amazon', and 'Amazon employee'. The bottom part shows the 'Enter event access code' screen with a text input field for the 12-digit code and 'Cancel' and 'Next' buttons.

Step 1: Sign in

Workshop Studio > Sign in

Sign in
Choose a preferred sign-in method

Email one-time password (OTP)
Enter your personal or corporate email to receive a one-time password

Login with Amazon
Login with your Amazon.com retail account

Amazon employee
Login with your Amazon Corporate account. Only for Amazon Employees.

Step 2: Enter event access code

Workshop Studio > Join event

Enter event access code

Event access code

Event access code
A 12 digit code that was given to you for this event

Cancel Next

3. Carefully review the terms and conditions associated with this event, and then click **Join event**

aws workshop studio

Step 1
Enter event access code

Step 2
Review and join

Review and join

Event details

Name	Start time	Duration	Level
SageMaker Studio Integration with EMR Workshop	11/22/2022 04:52 PM	1 hour	-

Description

SageMaker Studio Integration with EMR Workshop

Terms and Conditions

Read and accept before joining the event

1. By using AWS Workshop Studio for the relevant event, you agree to the AWS Event Terms and Conditions and the AWS Acceptable Use Policy. You acknowledge and agree that are using an AWS-owned account that you can only access for the duration of the relevant event. If you find residual resources or materials in the AWS-owned account, you will make us aware and cease use of the account. AWS reserves the right to terminate the account and delete the contents at any time.
2. You will not: (a) process or run any operation on any data other than test data sets or lab-approved materials by AWS, and (b) copy, import, export or otherwise create derivative works of materials provided by AWS, including but not limited to, data sets.
3. AWS is under no obligation to enable the transmission of your materials through Event Engine and may, in its discretion, edit, block, refuse to post, or remove your materials at any time.
4. Your use of AWS Workshop Studio will comply with these terms and all applicable laws, and your access to AWS Workshop Studio will immediately and automatically terminate if you do not comply with any of these terms or conditions.

☒ I agree with the Terms and Conditions

Cancel Previous **Join event**

4. After joining the event, you should see the page with event information and workshop details. You should also see a section titled **AWS account access** in the left navigation bar. You can use these options to access the temporary AWS account provided to you.

aws workshop studio

SageMaker Studio integration with EMR Workshop

Event In progress
Ends in 51 minutes 54 seconds

Event dashboard > SageMaker Studio integration with EMR Workshop

SageMaker Studio integration with EMR Workshop

Event information

Start time	Duration	Accessible regions
11/22/2022 04:52 PM	1	us-east-1

Description

SageMaker Studio Integration with EMR Workshop

Workshop

Get started >

Title	Complexity level	AWS services	Topics
SageMaker Studio EMR Workshop	300	Amazon Elastic Map Reduce (Amazon EMR), Amazon SageMaker, Amazon SageMaker Studio	Machine Learning (ML/AI)

Description

Workshop showcasing the Integration of SageMaker Studio and EMR

AWS account access

Open AWS console (us-east-1)

Get AWS CLI credentials

Exit event

5. The **Open AWS console** link will open the AWS Management Console home page. This is the standard AWS Console that provides access to each service. Please note that the infrastructure associated with the workshop will be deployed to a specific region and can be only accessed from that region.

Best Practices

- Review the terms and conditions of the event. Do not upload any personal or confidential information in the account.
- The AWS account will only be available for the duration of this workshop and you will not be able to retain access after the workshop is complete. Backup any materials you wish to keep access to after the workshop.
- Any pre-provisioned infrastructure will be deployed to a specific region. Check your workshop content to determine whether other regions will be used.

Amazon SageMaker Studio Access

Amazon SageMaker Studio is a web-based, integrated development environment (IDE) for machine learning that lets you build, train, debug, deploy, and monitor your machine learning models. Studio provides all the tools you need to take your models from experimentation to production while boosting your productivity.

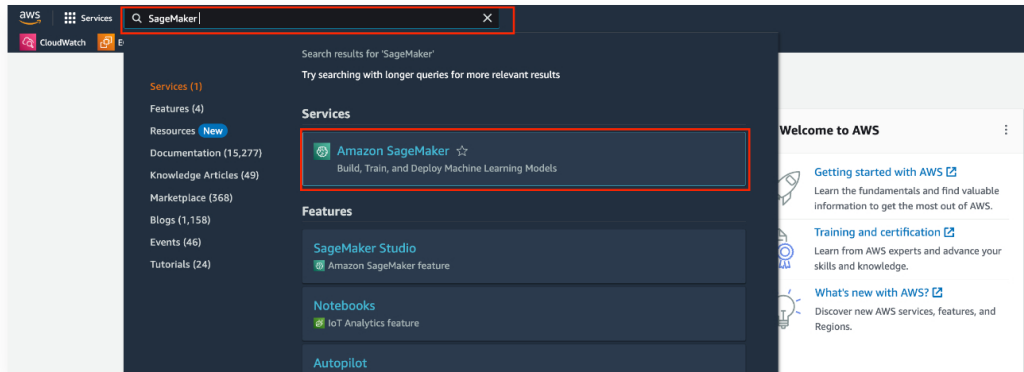
In this workshop you will get access to the latest SageMaker Studio which includes,

1. The new and improved SageMaker Studio UI
2. The new and improved JupyterLab Experience

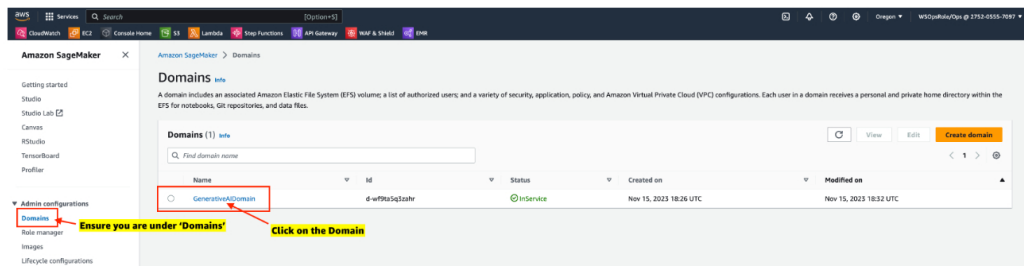
2. The new and improved JupyterLab Experience
3. The new Code Editor - Open Source Visual Studio Code Experience

Follow the next steps to access the new SageMaker Studio environment:

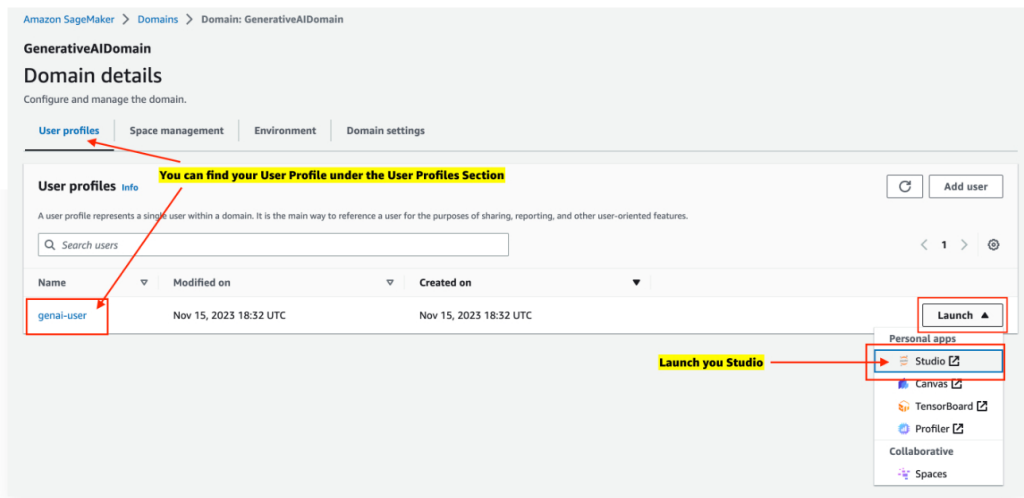
1. Open the AWS Management Console and switch to AWS region communicated by your instructor.
2. Under Services search for Amazon SageMaker and Click on Amazon SageMaker Service



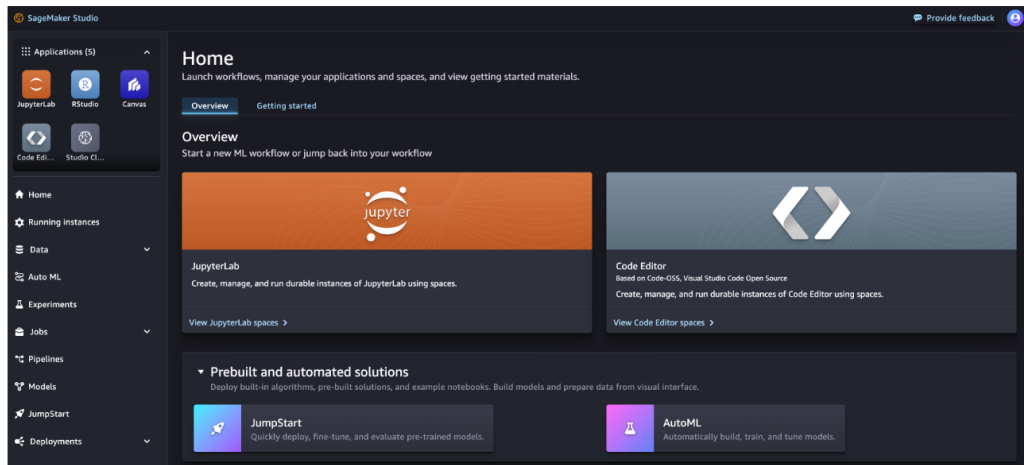
3. Click on the GenerativeAIDomain



4. A SageMaker Studio environment should already be provisioned. Click on Launch App --> Studio (on the right side of the pre-provisioned gen-ai username).



5. You will be redirected to a new and improved web tab that should look like this:



6. Feel free to navigate the new Studio UI Experience.

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