

Serverless x GenAI BKK Workshop

Generative AI at scale: Serverless workflows for enterprise-ready apps

[Pre-requisite] Enable foundation model access in Amazon Bedrock

[Pre-requisite] Configuring the front-end application

▶ Playground

▼ Use cases

▶ Building a RAG pipeline

▼ Document extraction and summarization

▼ Intelligent document processing with Generative AI

Generative AI Setup

Module 1 - GenAI Introduction for IDP

Module 2 - Document Classification and Summarization

Module 3 - Data Extraction

▶ Scaling with serverless workflows

▶ Workshop Cleanup

▼ AWS account access

Open AWS console (us-west-2)

Get AWS CLI credentials

Important

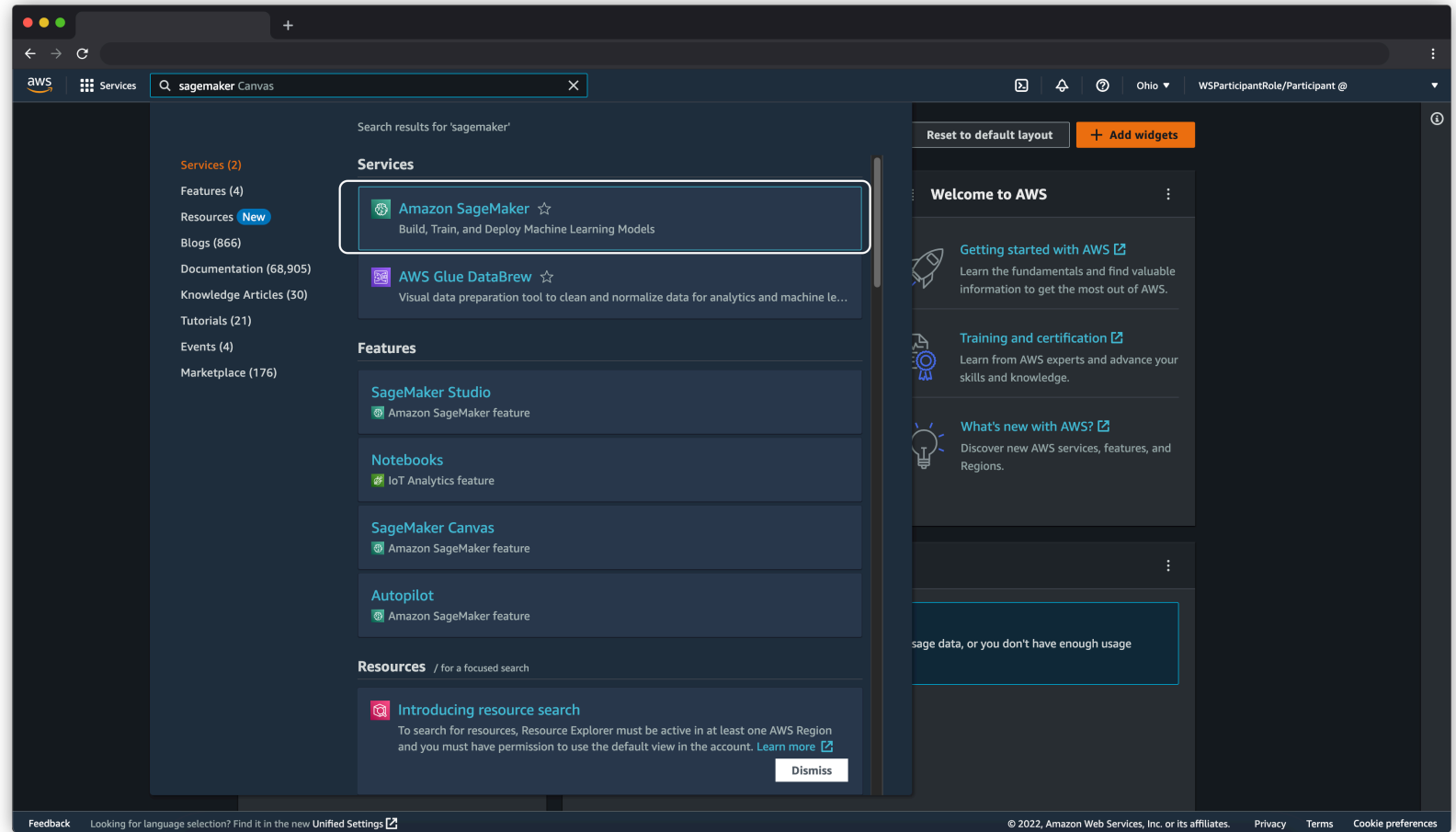
Ensure you have performed the steps in [Pre-requisite] Enable foundation model access in Amazon Bedrock section.

Amazon SageMaker Studio access

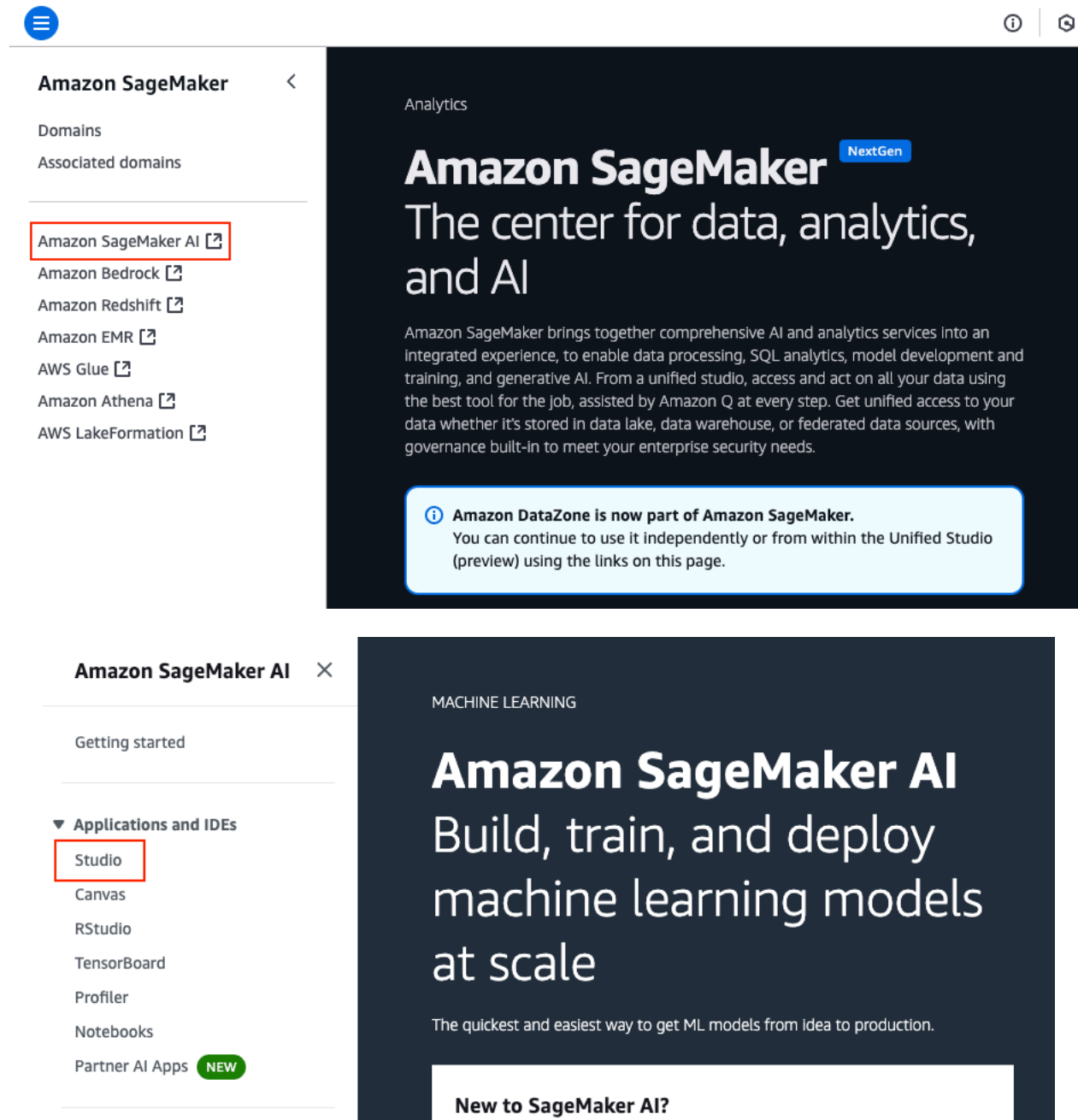
Amazon SageMaker Studio is a web-based, integrated development environment (IDE) for machine learning that lets you build, train, debug, deploy, and monitor your machine learning models. Studio provides all the tools you need to take your models from experimentation to production while boosting your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

If the AWS Account has been provisioned by your AWS Instructor, follow the next steps to access the SageMaker Studio environment:

1. Under services search for **Amazon SageMaker**.



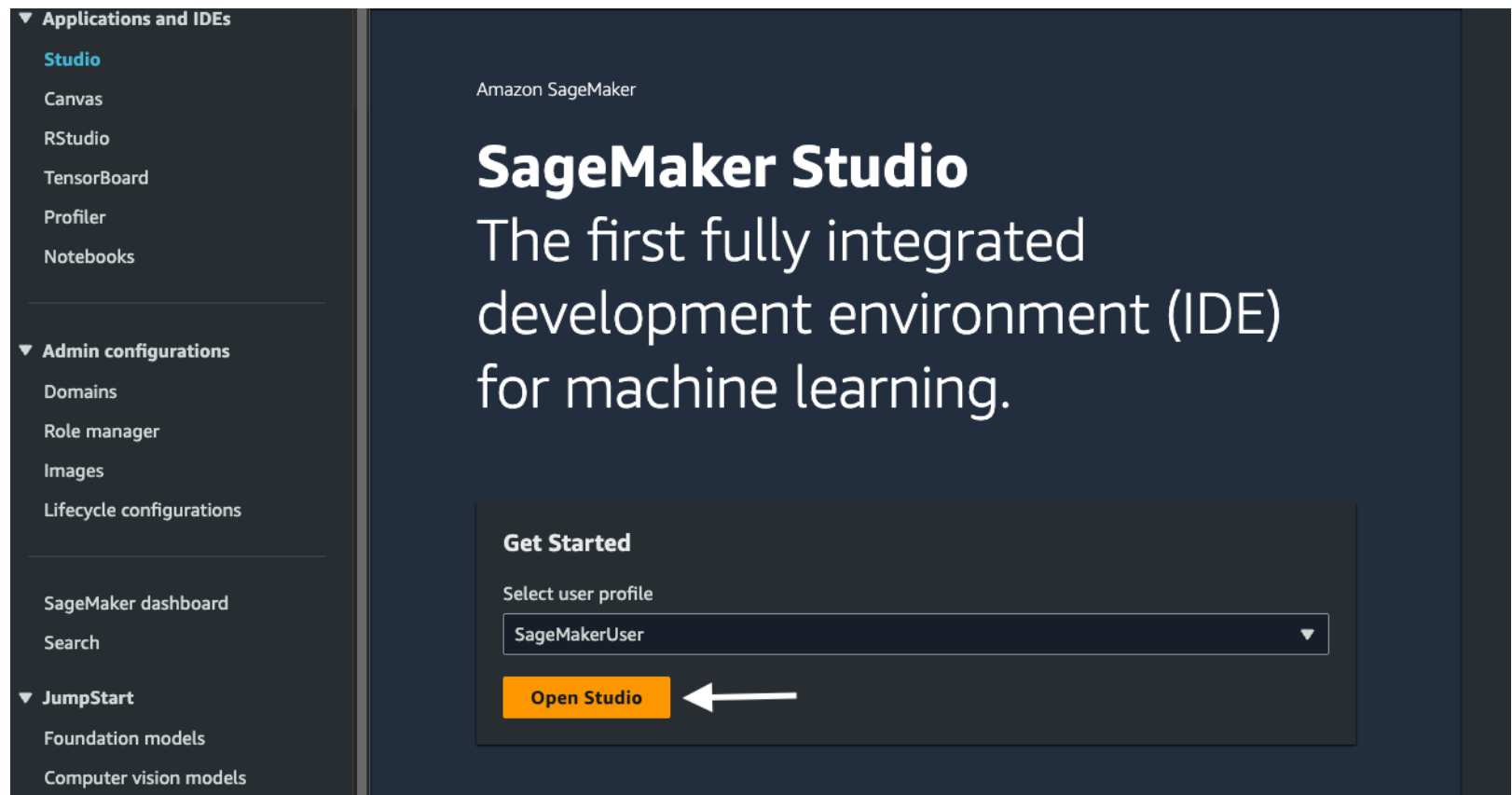
2. On the left hand menu, click **Amazon SageMaker AI**, then **Studio**.



The screenshot displays the Amazon SageMaker console interface. On the left, a navigation menu lists various services under 'Amazon SageMaker'. 'Amazon SageMaker AI' is highlighted with a red box. Below it, other services like Amazon Bedrock, Amazon Redshift, Amazon EMR, AWS Glue, Amazon Athena, and AWS LakeFormation are listed. The main content area shows the 'Amazon SageMaker AI' page, which features a dark blue header with the text 'Analytics' and 'NextGen'. The main heading is 'Amazon SageMaker AI' followed by 'The center for data, analytics, and AI'. A paragraph describes the service as a comprehensive AI and analytics platform. A light blue callout box at the bottom states: 'Amazon DataZone is now part of Amazon SageMaker. You can continue to use it independently or from within the Unified Studio (preview) using the links on this page.'

The second part of the screenshot shows the 'Amazon SageMaker AI' page with a dark blue header and the text 'MACHINE LEARNING'. The main heading is 'Amazon SageMaker AI' followed by 'Build, train, and deploy machine learning models at scale'. A paragraph describes the service as the quickest and easiest way to get ML models from idea to production. A light blue callout box at the bottom states: 'New to SageMaker AI?'

3. A SageMaker Studio environment should already be provisioned. Click on **Open studio**



4. The SageMaker Studio IDE will open in a new browser tab. The page may take a few minutes to load when you access SageMaker Studio for the first time. Once the SageMaker Studio IDE loads, you will be presented with the UI with a screen that looks like this. Click on "Jupyter lab" (The orange JupyterLab button in the middle or on the left menu near the top).

SageMaker Studio

Applications (6)

- JupyterLab
- RStudio
- Canvas
- Code Editor
- Studio CL...
- MLflow

Home

Running instances

Data

Auto ML

Experiments

Jobs

Pipelines

Models

JumpStart

Deployments

Home

Launch new workflows, open getting started materials, and view the latest feature updates

Onboarding plan

To get the most out of the new Studio experience, explore the onboarding steps below.

- Take the tour**
Quick tour highlights where you can find key features and how to navigate the new experience. See what's new and where to locate the tools you need to be productive.
[Take the tour >](#)
- Access your EFS data in JupyterLab and CodeEditor**
Automatically available in private spaces.
[Try JupyterLab](#)
- Access your Studio Classic apps**
Pickup where you left off and access your Studio Classic apps from within the updated Studio experience.
[View Studio Classic](#)

Not ready to use the new experience? Revert to Studio Classic experience in domain settings. [Learn more](#)

Overview Getting started What's new

Overview

Start a new ML workflow or jump back into your workflow

JupyterLab

Create, manage, and run durable instances of JupyterLab using spaces

[View JupyterLab spaces >](#)

Code Editor

Based on Code-OSS, Visual Studio Code Open Source

Create, manage, and run durable instances of Code Editor using spaces

[View Code Editor spaces >](#)

5. You will see an existing JupyterLab space. Click **Run** to start the space. Give it a few minutes and it'll move from "Starting" to "Running"

SageMaker Studio > JupyterLab

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JupyterLab

+ Create JupyterLab space

About

JupyterLab is the latest web-based IDE for notebooks, code, and data. You can select your image and instance to harness the power of AWS when running your machine learning applications.

[See features](#) [Quick start guide](#)

Search...

Filter spaces: Running

Name	Application	Status	Type	Last modified	Action
idp-workshop	JupyterLab	Stopped	Private	21 minutes ago	Run

1 results Results are cached Refresh

Go to page 1 Page 1 of 1

6. Once it is "Running", click on the **Open** button to launch the JupyterLab environment

SageMaker Studio > JupyterLab

Provide feedback

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Search...

Filter spaces: Running

Name	Application	Status	Type	Last modified	Action
idp-workshop	JupyterLab	Running	Private	39 minutes ago	Stop Open

1 results Results are cached Refresh Go to page 1 Page 1 of 1

Introducing spaces New

JupyterLab and Code Editor now come with durable instances that allow for faster startup, privacy options, and configurable storage.

[Learn more](#)

[Previous](#)[Next](#)