



IBM

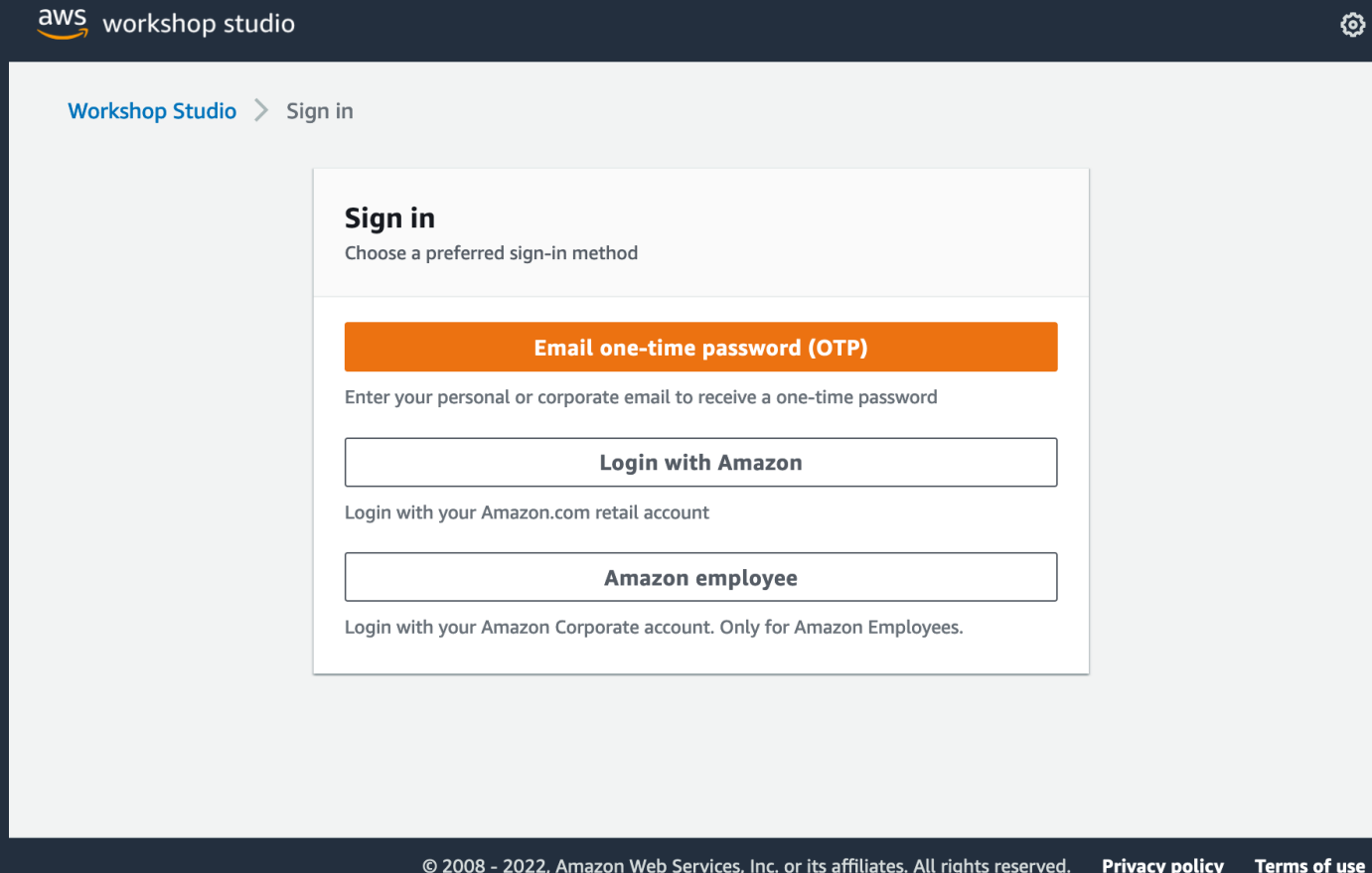
Generative AI on Amazon SageMaker – Workshop



Generative AI on Amazon SageMaker Workshop – Lab 1

Step 1: Sign in via your preferred method

<https://catalog.workshops.aws/join>



The screenshot shows the AWS Workshop Studio sign-in interface. At the top left is the AWS logo followed by 'workshop studio'. At the top right is a gear icon. Below the header, a breadcrumb trail reads 'Workshop Studio > Sign in'. The main content area is a white box with a light gray border. Inside, the heading 'Sign in' is followed by the instruction 'Choose a preferred sign-in method'. There are three sign-in options, each in a white box with a thin gray border. The first option, 'Email one-time password (OTP)', has an orange header bar. Below it is the text 'Enter your personal or corporate email to receive a one-time password' and an empty input field. The second option, 'Login with Amazon', has the text 'Login with your Amazon.com retail account' below it. The third option, 'Amazon employee', has the text 'Login with your Amazon Corporate account. Only for Amazon Employees.' below it. At the bottom of the page, there is a footer with the copyright notice '© 2008 - 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.' and two links: 'Privacy policy' and 'Terms of use'.

aws workshop studio

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.




© 2008 - 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved. [Privacy policy](#) [Terms of use](#)

Step 2: Enter event access code



18c4-069cc5-93

 workshop studio

Workshop Studio > Join event

Step 1

Enter event access code

Step 2

[Review and join](#)

Event access code

Event access code

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

Cancel

Next

© 2008 - 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved. [Privacy policy](#) [Terms of use](#)

Step 3: Review terms and join event

aws workshop studio

Workshop Studio > Join event

Step 1
Enter event access code

Step 2
Review and join

Review and join

Event details

Name	Start time	Duration	Level
Generative AI on Amazon SageMaker Workshop	7/16/2023 08:00 PM	72 hours	300

Description
Generative AI on Amazon SageMaker Workshop

Terms and Conditions
Read and accept before joining the event

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](#).
2. If You are under 18 years old, You may participate in the relevant event, using AWS Workshop Studio: (a) if you are at least the minimum age below based on the country or region in which you reside, and (b) with the involvement of a parent, guardian or educator.

Country or region	Minimum age
All countries or regions not listed below (including United States, Brazil, UK, and India)	13
China, Republic of Korea (South Korea)	14

9. AWS, its affiliates and any entities or persons acting on AWS's behalf, has no obligation to enable the transmission of Your materials through AWS Workshop Studio, and may, in its discretion, edit, block, refuse to post, or remove Your materials at any time, without notice to You.

10. If You are an AWS Partner, using AWS Workshop Studio as part of Your participation in the AWS Partner Network Program, Your use of AWS Workshop Studio is governed by these terms, the AWS Partner Network Terms and Conditions, and Your applicable customer agreement with AWS.

11. Your use of AWS Workshop Studio will comply with these terms and all applicable laws. If You fail to comply with any of these terms, Your access to AWS Workshop Studio may be immediately terminated, without notice to You.

☐ I agree with the Terms and Conditions

Cancel Previous **Join event**

Step 4: Access AWS account

Access the AWS Console, or generate AWS CLI credentials as needed

The screenshot shows the AWS Workshop Studio interface. On the left, a sidebar lists the workshop content, including 'Prerequisites', 'Lab 1. Jumpstart Models for text and image generation', 'Lab 2. Prompt Engineering', and 'Lab 3. Customize and train a large language model on SageMaker'. Below this, under 'AWS account access', two links are highlighted with a red box: 'Open AWS console (us-east-1)' and 'Get AWS CLI credentials'. The main content area displays event information, workshop details, and event outputs.

Event information

Start time	Duration	Accessible regions
7/16/2023 10:03 AM	72 hours	us-east-1

Description
Generative AI on Amazon SageMaker Workshop

Workshop

[Get started >](#)

Title	Complexity level	AWS services	Topics
Generative AI on Amazon SageMaker Workshop	300	Amazon SageMaker Studio, Amazon SageMaker	High Performance Computing (HPC), Machine Learning (ML/AI)

Description
Hands-on workshop for customers on Generative AI use cases on Amazon SageMaker.

Event Outputs (0)

Search

Key	Value	Stack name	Description	Type
-----	-------	------------	-------------	------

© 2023, Amazon Web Services, Inc. or its affiliates.

Step 5: Get started with the workshop (Lab 1)

aws workshop studio

⚙️ Arnaud Lauer ▾

Generative AI on Amazon SageMaker Workshop

Generative AI on Amazon SageMaker - Workshop

Prerequisites

- ▼ Lab1. Jumpstart Models for text and image generation
 - ▶ Lab 1a and 1b. Finetune and deploy a text-to-image stable diffusion model
 - Lab 1c. Text Generation: In-context learning with Flan-T5-XL
 - Lab 1d. Text Generation using a proprietary foundation model
- ▶ Lab 2. Prompt Engineering
- ▶ Lab 3. Customize and train a large language model on SageMaker

▼ AWS account access

[Open AWS console \(us-east-1\)](#)


[Get AWS CLI credentials](#)

Exit event

Event ends in 2 days 14 hours 23 minutes.

Event dashboard > Generative AI on Amazon SageMaker - Workshop

Generative AI on Amazon SageMaker - Workshop




Generative AI Workshop

INTRODUCTION

Welcome to Generative AI workshop!

Generative artificial intelligence (AI) comprises of models that can be used to generate new content such as images, text, video, audio or simulations.

In this workshop we will provide an end to end understanding of building, training and deploying Generative AI models, that can be leverage for your use case. We will cover SageMaker Quickstart solutions for fine-tuning models such as Stable Diffusion, as well as customizing the



© 2023, Amazon Web Services, Inc. or its affiliates.



Generative AI on Amazon SageMaker Workshop – Lab 2 (Prompting)

Lab2: Prompting

aws workshop studio

⚙️

Arnaud Lauer ▾

Generative AI on Amazon SageMaker Workshop

×

Generative AI on Amazon SageMaker - Workshop

▶ Prerequisites

▶ Lab1. Jumpstart Models for text and image generation

▼ Lab 2. Prompt Engineering

Setup UI utility for prompt engineering

Zero-shot Prompt Engineering

One-shot and few-shot Prompt Engineering

Chain of Thought Prompt Engineering

Adversarial Prompt Engineering

▶ Lab 3. Customize and train a large language model on SageMaker

▼ AWS account access

[Open AWS console \(us-east-1\)](#)

[Get AWS CLI credentials](#)

Exit event

🕒 Event ends in 2 days 14 hours 22 minutes.

×

🕒

Event dashboard > Lab 2. Prompt Engineering

Lab 2. Prompt Engineering

aws

Generative AI - Prompt Engineering Playground

"Prompt engineering" refers to efforts to extract accurate, consistent, and fair outputs from large generative models, such text-to-image synthesizers or large language models (LLMs). LLMs are trained on large-scale bodies of text, so they encode a great deal of factual information about the world. But they're trained to produce sequences of words that are probable in the general case — not accurate in the particular case.

What is a prompt?

- Text given to a pre-trained model for a prediction task.

Components of Prompt

- Context
- Task (Instruction, question etc.)
- Image/Text
- Training samples
- Generative Model

Types of Prompt Engineering



IBM

Thank you