

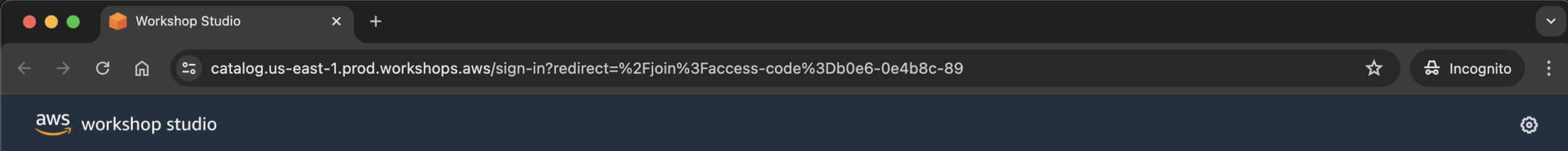


# AWS Bedrock PE and KB Workshop

Michael Lin

Sr. Solutions Architect  
Amazon Web Services

<https://reurl.cc/VMMd36>



[Workshop Studio](#) > Sign in

## Sign in

Choose a preferred sign-in method

Email one-time password (OTP)

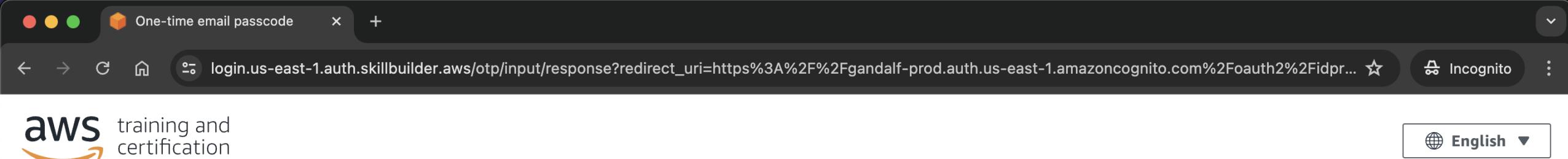
Enter your personal or corporate email to receive a one-time password

AWS Builder ID

Login with AWS Builder ID, a new personal profile for builders

Amazon employee

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



## One-time email passcode

Send a passcode to the email below.

Email

michael.tw.lin@



Back

Send passcode

[Get help signing in](#)

Verify one-time email passcode

← → ⌛ login.us-east-1.auth.skillbuilder.aws/otp/challenge?redirect\_uri=https%3A%2F%2Fgandalf-prod.auth.us-east-1.amazoncognito.com%2Foauth2%2Fidprespo... ☆ Incognito :

aws training and certification

English ▾

### One-time email passcode

We sent a passcode to michael.tw.lin@gmail.com. You should receive it within 5 minutes.

Passcode (9-digit) [Resend passcode](#)

[Back](#) [Sign in](#)

[Get help signing in](#)

- Step 1  
Enter event access code
- Step 2  
**Review and join**

## Review and join

### Event details

Name	Start time	Duration	Level
TCC-Bedrock-Dryrun	7/27/2024 03:02 PM	72 hours	300

### Description

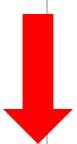
TCC-Bedrock-Dryrun

### 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](#), the [AWS Responsible AI Policy](#), 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 the United States, Brazil, the United Kingdom, and India)	13
Canada, China, Republic of Korea (South Korea)	14
Australia	15

catalog.us-east-1.prod.workshops.aws/join

aws workshop studio

Philippines, Thailand, Turkey, and countries in Africa

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## TCC-Bedrock-Dryrun <

Bedrock and Claude Deep Dive Workshop

► 0. Prerequisites

1. Text Generation

2. RAG and Knowledge Bases

3. Image and Multimodal

4. Tool Use

5. Agents for Bedrock

6. Security and Governance

7. Summary

99. Resource release

▼ AWS account access

[Open AWS console  
\(us-west-2\)](#) 

[Get AWS CLI credentials](#)

▼ Content preferences

Language

English 

[Event dashboard](#) > Bedrock and Claude Deep Dive Workshop

## TCC-Bedrock-Dryrun

### Event information

**Start time**

7/27/2024 03:02 PM

**Duration**

72 hours

**Accessible regions**

us-west-2, us-east-1

**Description**

TCC-Bedrock-Dryrun

[Get started >](#)

### Workshop

**Title**

Bedrock and Claude Deep Dive Workshop

**Complexity level**

300

**AWS services**

Amazon Bedrock

**Topics**

Generative AI

**Description**

Showcase Bedrock and Claude 3 functionality with scenarios like Multimodal, Tool Use, Knowledge base, ChatBot, RAG, Agent and Guardrails.

### Event Outputs (0)



us-west-2.console.aws.amazon.com/console/home?region=us-west-2

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Console Home Info

[Reset to default layout](#) [+ Add widgets](#)

### Recently visited Info

-  Support
-  Service Quotas
-  EC2
-  IAM
-  Amazon SageMaker
-  Billing and Cost Management
-  Amazon OpenSearch Service

[View all services](#)

### Applications (0) Info

Region: US West (Oregon)

[Create application](#)

us-west-2 (Current Region) [Find applications](#)

Name	Description	Region	Originating account
No applications			

Get started by creating an application.

[Create application](#)

[Go to myApplications](#)

### Welcome to AWS

Getting started with AWS

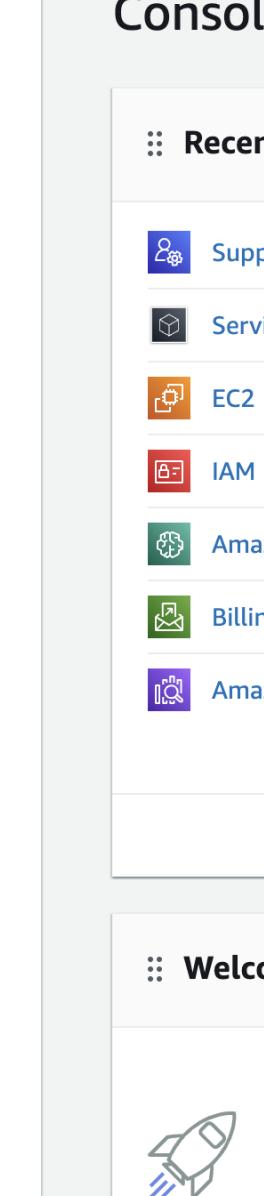
### AWS Health Info

Open issues

### Cost and usage Info

Current month costs **Cost (\$)**

## Console



- Services (1)
  - Resources New
  - Documentation (2,676)
  - Knowledge Articles (12)
  - Marketplace (386)
  - Blogs (232)
  - Events (1)
  - Tutorials (1)

Search results for 'bedrock'

## Services



Amazon Bedrock ☆

The easiest way to build and scale generative AI applications with foundation models (F...)

**Resources** / for a focused search



## Introducing resource search

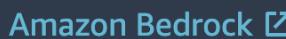
Enable to show cross-region resources for your account in search results. Takes less than 5 minutes to set up.

**Dismiss**

## Go to Resource Explorer

## Documentation

[See all 2,676 results ►](#)



User Guid



User Guid



User Guid



find valuable information to

A screenshot of the AWS Bedrock console homepage. The browser tabs show "Amazon Bedrock Workshop", "TCC-Bedrock-Dryrun", "Amazon Bedrock | us-west-2", and "New Tab". The main content area features the Amazon Bedrock logo and the tagline: "The easiest way to build and scale generative AI applications with foundation models (FMs)". A prominent "Try Bedrock" button with an orange "Get started" button is visible. The navigation bar includes links for EC2, VPC, RDS, S3, Support, Amazon SageMaker, AWS DeepRacer, and CloudFormation. A red arrow points to the three-dot menu icon on the left side of the page.

# Amazon Bedrock

The easiest way to build and scale generative AI applications with foundation models (FMs)

Try Bedrock

Get started

Machine Learning

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Overview

Amazon Bedrock is a fully managed service that makes FMs from leading AI startups and Amazon available via an API, so you can choose from a wide range of FMs to find the model that is best suited for your use case. With Bedrock's serverless experience, you can get started quickly, privately customize FMs with your own data, and easily integrate and deploy them into your applications using the AWS tools without having to manage any infrastructure.

## Benefits

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Amazon Bedrock

Machine Learning

# Amazon Bedrock

The easiest way to build and scale generative AI applications with foundation models (FMs)

Try Bedrock

Get started

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- Examples
- Providers

Foundation models

- Base models
- Imported models [Preview](#)

Playgrounds

- Chat
- Text
- Image

Safeguards

- Guardrails
- Watermark detection

Builder tools

- Knowledge bases
- Agents
- Prompt management [Preview](#)
- Prompt flows [Preview](#)

Overview

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Benefits



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▼ Builder tools

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- Prompt management [Preview](#)
- Prompt flows [Preview](#)

▼ Assessment & deployment

- Model Evaluation
- Model access 
- Bedrock Studio [Preview](#)
- Settings
- User guide 

Machine Learning

# Amazon Bedrock

The easiest way to build and scale generative AI applications with foundation models (FMs)

Try Bedrock

[Get started](#)

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## Benefits

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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## Amazon Bedrock

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- Image

Safeguards

- Guardrails
- Watermark detection

Builder tools

- Knowledge bases
- Agents
- Prompt management [Preview](#)

### Amazon Bedrock > Model access

#### What is Model access?

To use Bedrock, account users with the correct IAM Permissions must enable access to available Bedrock foundation models (FMs). View all [Bedrock Model Terms](#) for [Bedrock FMs](#).

[Enable all models](#) [Enable specific models](#)

Visit [Amazon Bedrock Quotas](#) for a quick guide to the default quotas and limits that apply to Amazon Bedrock.



#### Base models (33)

Not seeing a model you're interested in? Check out all supported models by region [here](#).

Find model [Group by provider](#)

Models	Access status	Modality	EULA
▼ AI21 Labs (2)	0/2 access granted		
Jurassic-2 Ultra	Available to request	Text	<a href="#">EULA</a>
Jurassic-2 Mid	Available to request	Text	<a href="#">EULA</a>
▼ Amazon (6)	0/6 access granted		
Titan Embeddings G1 - Text	Available to request	Embedding	<a href="#">EULA</a>



- Step 1  
**Edit model access**  
Step 2  
Review and submit

## Edit model access

### Base models (33/33)

[Collapse all](#)

Not seeing a model you're interested in? Check out all supported models by region [here](#).

 Find model[Group by provider](#)

<input checked="" type="checkbox"/>	Models	Access status	Modality	EULA
<input checked="" type="checkbox"/>	▼ AI21 Labs (2)	0/2 access granted		
<input checked="" type="checkbox"/>	Jurassic-2 Ultra	<span>Available to request</span>	Text	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	Jurassic-2 Mid	<span>Available to request</span>	Text	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	▼ Amazon (6)	0/6 access granted		
<input checked="" type="checkbox"/>	Titan Embeddings G1 - Text	<span>Available to request</span>	Embedding	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	Titan Text G1 - Lite	<span>Available to request</span>	Text	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	Titan Text G1 - Express	<span>Available to request</span>	Text	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	Titan Image Generator G1	<span>Available to request</span>	Image	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	Titan Multimodal Embeddings G1	<span>Available to request</span>	Embedding	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	Titan Text Embeddings V2	<span>Available to request</span>	Embedding	<a href="#">EULA</a>
<input checked="" type="checkbox"/>	▼ Anthropic (5)	0/5 access granted		



us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

aws Services Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Llama 3.1 409B Instruct Available to request Text EULA

Llama 3.1 70B Instruct Available to request Text EULA

Llama 3.1 8B Instruct Available to request Text EULA

Llama 3 8B Instruct Available to request Text EULA

Llama 3 70B Instruct Available to request Text EULA

Llama 2 Chat 13B Unavailable Text EULA

Llama 2 Chat 70B Unavailable Text EULA

Llama 2 13B Unavailable Text EULA

Llama 2 70B Unavailable Text EULA

Mistral AI (4) 0/4 access granted

Mistral Large (2407) Available to request Text EULA

Mistral 7B Instruct Available to request Text EULA

Mixtral 8x7B Instruct Available to request Text EULA

Mistral Large (2402) Available to request Text EULA

Stability AI (1) 0/1 access granted

SDXL 1.0 Available to request Image EULA

Cancel Next

Model Name	Status	Type	EULA
Llama 3.1 409B Instruct	Available to request	Text	EULA
Llama 3.1 70B Instruct	Available to request	Text	EULA
Llama 3.1 8B Instruct	Available to request	Text	EULA
Llama 3 8B Instruct	Available to request	Text	EULA
Llama 3 70B Instruct	Available to request	Text	EULA
Llama 2 Chat 13B	Unavailable	Text	EULA
Llama 2 Chat 70B	Unavailable	Text	EULA
Llama 2 13B	Unavailable	Text	EULA
Llama 2 70B	Unavailable	Text	EULA
Mistral AI (4)	0/4 access granted		
Mistral Large (2407)	Available to request	Text	EULA
Mistral 7B Instruct	Available to request	Text	EULA
Mixtral 8x7B Instruct	Available to request	Text	EULA
Mistral Large (2402)	Available to request	Text	EULA
Stability AI (1)	0/1 access granted		
SDXL 1.0	Available to request	Image	EULA

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

aws Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon Bedrock > Model access > Request model access

Step 1 Edit model access

Step 2 Review and submit

## Review and submit

### Step 1: Edit model access

Edit

#### Model access modifications (33)

Models	Modifications
Mistral Large (2407)	Request access
Jurassic-2 Ultra	Request access
Jurassic-2 Mid	Request access
Claude 3 Opus	Request access
Claude 3 Sonnet	Request access
Claude 3 Haiku	Request access
Claude	Request access
Claude Instant	Request access
SDXL 1.0	Request access
Command R+	Request access

A red arrow points downwards at the bottom right corner of the table.



Services

Search [Option+S]



Oregon ▾

WSParticipantRole/Participant @ 1561-5387-8293 ▾



EC2



VPC



RDS



S3



Support



Amazon SageMaker



AWS DeepRacer



CloudFormation

## Model access modifications (33)

### Models

Llama 3 8B Instruct

### Modifications

Request access

Llama 3 70B Instruct

Request access

Llama 2 Chat 13B

Request access

Llama 2 Chat 70B

Request access

Llama 2 13B

Request access

Llama 2 70B

Request access

Mistral 7B Instruct

Request access

Mixtral 8x7B Instruct

Request access

Mistral Large (2402)

Request access

### Terms

By selecting Submit, you are requesting access to the selected third party models through the AWS Marketplace. By doing so, you agree to the seller's pricing terms and End User License Agreements (EULA), and the [Bedrock Service Terms](#). You also agree and acknowledge that AWS may share information about this transaction with the respective sellers, in accordance with the [AWS Privacy Notice](#).

AWS will issue invoices and collect payments from you on behalf of the seller through your AWS account. Your use of AWS services is subject to the [AWS Customer Agreement](#) or other agreements with AWS governing your use of such services.

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Previous

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Services

Search

[Option+S]



Oregon ▾

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## Model access modifications (33)

### Models

Llama 3 6B Instruct

### Modifications

Request access

Llama 3 70B Instruct

Request access

Llama 2 Chat 13B

Request access

Llama 2 Chat 70B

Request access

Llama 2 13B

Request access

Llama 2 70B

Request access

Mistral 7B Instruct

Request access

Mistral 8x7B Instruct

Request access

Mistral Large (2402)

Request access

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Cancel

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Submit

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

AWS Services Search [Option+S]

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Amazon Bedrock

Getting started Overview Examples Providers

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Safeguards Guardrails Watermark detection

Builder tools Knowledge bases Agents [Prompt management](#) [Preview](#)

**Access request for 7 models failed**

- Claude 3 Opus - Unauthorized to perform action due to private marketplace eligibility
- Command R+ - Unauthorized to perform action due to private marketplace eligibility
- Command R - Unauthorized to perform action due to private marketplace eligibility
- Llama 2 13B - Could not create agreement - Agreement already exists
- Llama 2 70B - Could not create agreement - Agreement already exists
- Llama 2 Chat 13B - Failed to create regional entitlement. Model not available at the moment. Try again later.
- Llama 2 Chat 70B - Failed to create regional entitlement. Model not available at the moment. Try again later.

Notifications [X 1](#) [A 0](#) [✓ 0](#) [i 1](#) [⋯ 0](#) [▼](#)

Amazon Bedrock > Model access

## What is Model access?

To use Bedrock, account users with the correct [IAM Permissions](#) must enable access to available Bedrock foundation models (FMs). View all [Bedrock Model Terms](#) for [Bedrock FMs](#).

[Modify model access](#)

Visit [Amazon Bedrock Quotas](#) for a quick guide to the default quotas and limits that apply to Amazon Bedrock.

## Base models (33)

Not seeing a model you're interested in? Check out all supported models by region [here](#).

[Find model](#) [Collapse all](#)

Group by provider [▼](#)

Models Access status Modality EULA [↗](#)



Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

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## Amazon Bedrock

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Model access updates submitted

It may take several minutes to receive or remove access to models. Meanwhile, you can use other Bedrock console pages. Once your access is updated, you can use the models in Bedrock. Refresh the base models table to view the updated statuses.

Amazon Bedrock > Model access

### What is Model access?

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[Modify model access](#)

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[Find model](#) [Collapse all](#)

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Jurassic-2 Ultra	In Progress	Text	EULA
Jurassic-2 Mid	In Progress	Text	EULA

<https://reurl.cc/QEEv9b>

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

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aws workshop studio | michael\_tw\_lin

**Amazon Bedrock Workshop (Chinese Version)**

實驗環境設定  
[NEW]最新特性

核心功能實驗

常見場景

文本生成

翻譯 ←

事實問答  
小說續寫  
角色扮演  
RAG 場景  
程式碼輔助  
客服案例分類  
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## 翻譯

下列實驗演示在 Amazon Bedrock playground 上使用 Claude 3 進行文字翻譯：

## 控制台及模型選擇

- 打開 Amazon Bedrock 控制台，左側選單選擇 **Playgrounds -> Text**

**Amazon Bedrock**

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[Foundation models](#)

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- Custom models

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- Chat
- Text**
- Image

**Text playground** [Info](#)

Select model

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground

AWS Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

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### Text playground Info

Select model

Configurations Reset

Select model to load configs.

Try one of these examples or [view more examples](#)

 Titan Text G1 - Express  Action items from a meeting transcript	 claude Advanced Q&A with Citation An example	 Llama 2 Chat 13B Chain of thought An example	 Command Contract Entity Extraction Use generative	 Jurasic-2 Ultra Earnings call summarization A prompt that	 Large (2402) Finding the Difference in Payment
--	--	---	---	---	---

Run

Load examples

More options

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground

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Text playground [Info](#) Load examples

Select model

Configurations [Reset](#)  
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Try one of these examples or [view more examples](#)

 Titan Text G1 - Express  Action items from a meeting transcript	 claude Advanced Q&A with Citation An example	 Llama 2 Chat 13B Chain of thought An example	 Command Contract Entity Extraction Use generative	 Jurassic-2 Ultra Earnings call summarization A prompt that	 Mistral Large (2402) Finding the Difference in Payment
--	--	---	---	--	---

Run

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground

aws Services Search [Option+S] EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation Oregon WSParticipantRole/Participant @ 1561-5387-8293

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## Select model

## 1. Category

## Model providers

AI21 Labs

Amazon

Anthropic

Cohere

Meta

Mistral AI

## 2. Model

## Models with access (2)

Jurassic-2 Mid

Text model | Context size = 8k

Jurassic-2 Ultra

Text model | Context size = 8k

*Not seeing a model you are interested in? Check out all supported models [here](#)*

## 3. Throughput

*Select model to show throughput options.*

Cancel

Apply

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Select model

1. Category

Model providers

- AI21 labs AI21 Labs
- Amazon
- Anthropic**
- Cohere
- Meta
- Mistral AI

2. Model

Models with access (5)

- Claude Instant 1.2 v1.2**  
Text model | Context size = up to 100k
- Claude 2.1 v2.1**  
Text model | Context size = up to 200k
- Claude 2 v2**  
Text model | Context size = up to 100k
- Claude 3 Sonnet v1**  
Text & vision model | Context size = up to 200k
- Claude 3 Haiku v1**  
Text & vision model | Context size = up to 200k

3. Throughput

Select model to show throughput options.

Load examples

Cancel Apply

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## Builder tools

[Knowledge bases](#)[Agents](#)[Prompt management](#) [Preview](#)[Prompt flows](#) [Preview](#)

## Assessment &amp; deployment

## Select model

## 1. Category

## Model providers

AI21 Labs

Amazon

Anthropic

Cohere

Meta

Mistral AI

## 2. Model

## Models with access (5)

**Claude Instant 1.2 v1.2**

Text model | Context size = up to 100k

**Claude 2.1 v2.1**

Text model | Context size = up to 200k

**Claude 2 v2**

Text model | Context size = up to 100k

**Claude 3 Sonnet v1**

Text &amp; vision model | Context size = up to 200k

**Claude 3 Haiku v1**

Text &amp; vision model | Context size = up to 200k

**Models without access (1)**[Request access](#) **Claude 3 Opus v1**

Text &amp; vision model | Context size = up to 200k

## 3. Throughput

## On-demand (ODT)

[Cancel](#)[Apply](#)[Load examples](#)

ons

load configs.



Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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### Text playground

Load examples

#### Claude 3 Sonnet v1 | ODT

Change

Write a prompt...

Try one of these examples or [view more examples](#)

**Claude 3 Sonnet**  
Advanced Q&A with Citations  
An example prompt for long document q&a supplemented

**Claude 3 Sonnet**  
Craft a Design Brief  
Craft a design brief for a holistic brand identity,

**Claude 3 Sonnet**  
Meeting Notes Summarizer  
Distill meetings into concise summaries including

Configurations

Reset

Randomness and diversity

- Temperature: 1
- Top P: 0.999
- Top K: 250

Length

- Maximum length: 2000
- Stop sequences: Human:  Add

## Amazon Bedrock Workshop (Chinese Version)



實驗環境設定

[NEW]最新特性

### 核心功能實驗

#### 常見場景

#### 文本生成

翻譯

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#### 圖片解析

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#### Content preferences

Language

中文(繁體)



- 我們以一個字幕翻譯情境為例，在 playground 中輸入以下提示詞 prompt:

```

1 你是一個幫助翻譯劇本的助理。
2 你的任務是將<text>中的英文原文翻譯成繁體中文。翻譯時，請遵守以下規則：
3 0.不要改變原意。
4 1.翻譯前先瞭解上下文，保持語義連貫、閱讀流暢，但不要故意誇張。
5 2.原文大多是對話式的，因此翻譯仍應符合短影音/影音部落格/Youtube影片的上下文環境。注意避免使用平常不會在日常聊天中出現的字詞。
6 3.適當的時候保留一些專有名詞或專業術語未翻譯，注意前後一致性。
7 4.標點符號必須使用全形。例如，不可以使用小寫的 "，"，必須使用 "，"。
8 5.在<result></result> 中回覆翻譯。不要包含任何額外的內容。
9 <example>
10 H: Welcome to the Amazon Bedrock Workshop, this workshop will help you quickly get started on your journey to generative AI application
11 A: 歡迎來到 Amazon Bedrock Workshop，透過此 Workshop 將協助您快速開始生成式 AI 應用程式的旅程。
12 </example>
13 <text>
14 "We'll cover all of those things in a moment, but before we get started, this video doesn't have a sponsor, but it is supported by the
15 </text>

```

你是一個幫助翻譯劇本的助理。

你的任務是將&lt;text&gt;中的英文原文翻譯成繁體中文。翻譯時，請遵守以下規則：

0.不要改變原意。

1.翻譯前先瞭解上下文，保持語義連貫、閱讀流暢，但不要故意誇張。

2.原文大多是對話式的，因此翻譯仍應符合短影音/影音部落格/Youtube影片的上下文環境。注意避免使用平常不會在日常聊天中出現的字詞。

3.適當的時候保留一些專有名詞或專業術語未翻譯，注意前後一致性。

4.標點符號必須使用全形。例如，不可以使用小寫的 "，"，必須使用 "，"。

5.在&lt;result&gt;&lt;/result&gt; 中回覆翻譯。不要包含任何額外的內容。

&lt;example&gt;

H: Welcome to the Amazon Bedrock Workshop, this workshop will help you quickly get started on your journey to generative AI applications.

A: 歡迎來到 Amazon Bedrock Workshop，透過此 Workshop 將協助您快速開始生成式 AI 應用程式的旅程。

&lt;/example&gt;

&lt;text&gt;

"We'll cover all of those things in a moment, but before we get started, this video doesn't have a sponsor, but it is supported by the thousands of you wonderful people who get value out of all of my courses, prints, presets and ebooks over at patk.com."

&lt;/text&gt;

Copied!



▼ Randomness and diversity Info

Temperature	<input type="range" value="1"/> 1
Top P	<input type="range" value="0.999"/> 0.999
Top K	<input type="range" value="250"/> 250

▼ Length Info

Maximum length	<input type="range" value="2000"/> 2000
Stop sequences	<input type="text"/>

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

aws Services Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation Oregon WSParticipantRole/Participant @ 1561-5387-8293

## Amazon Bedrock

### Text playground

**Claude 3 Sonnet v1 | ODT**

Change

你是一個幫助翻譯劇本的助理。  
你的任務是將<text>中的英文原文翻譯成繁體中文。翻譯時，請遵守以下規則：  
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<example>  
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</example>  
<text>  
"We'll cover all of those things in a moment, but before we get started, this video doesn't have a sponsor, but it is supported by the thousands of you wonderful people who get value out of all of my courses, prints, presets and ebooks over at patk.com."  
</text>  
|

Load examples

Configurations

Randomness and diversity

Temperature: 1

Top P: 0.999

Top K: 250

Length

Maximum length: 2000

Stop sequences: Human: X

Guardrail

Try one of these examples or view more examples

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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- Watermark detection

**Builder tools**

- Knowledge bases
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在日常聊天中出現的字詞。

3.適當的時候保留一些專有名詞或專業術語未翻譯，注意前後一致性。  
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</example>

<text>

"We'll cover all of those things in a moment, but before we get started, this video doesn't have a sponsor, but it is supported by the thousands of you wonderful people who get value out of all of my courses, prints, presets and ebooks over at patk.com."

</text>

|

Try one of these examples or view more examples

**Claude 3 Sonnet**  
Advanced Q&A with Citations  
An example prompt for long document q&a supplemented

**Claude 3 Sonnet**  
Craft a Design Brief  
Craft a design brief for a holistic brand identity,

**Claude 3 Sonnet**  
Meeting Notes Summarizer  
Distill meetings into concise summaries including

Top K  250

Length

Maximum length  2000

Stop sequences  Add

Human:

Guardrail

Manage guardrails [Edit](#)

Run 

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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**Assessment & deployment**

**Text playground**

**Claude 3 Sonnet v1 | ODT**

Change

在日常聊天中出現的字詞。

3.適當的時候保留一些專有名詞或專業術語未翻譯，注意前後一致性。

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<example>

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</example>

<text>

"We'll cover all of those things in a moment, but before we get started, this video doesn't have a sponsor, but it is supported by the thousands of you wonderful people who get value out of all of my courses, prints, presets and ebooks over at patk.com."

</text>

<result> 「我們稍後會涵蓋所有這些內容，但在開始之前，這段影片並沒有贊助商，不過它獲得來自成千上萬位從我在 patk.com 上的各種課程、美工圖案、預設和電子書中獲益良多的出色觀眾支持。」 </result>

Run

Configurations

Reset

**Randomness and diversity**

Temperature: 1

Top P: 0.999

Top K: 250

**Length**

Maximum length: 2000

Stop sequences:

Human:

Guardrail

## Amazon Bedrock Workshop (Chinese Version)

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- 列舉10件1800-1900年世界上發生的科技大事

### • 查看輸出

列舉10件1800-1900年世界上發生的科技大事

1800-1900年在科技發展方面是一個關鍵的時期，為現代科技奠定了重要基礎。以下是該時期發生的10件重大科技大事：

- 1804年：英國工程師理查·特雷維西克發明了第一台現代內燃機。
- 1807年：美國發明家羅伯特·富爾頓建造了世界上第一艘實用的商業蒸汽船。
- 1816年：德國發明家克勞斯完成了第一台實用的印刷電報機。
- 1827年：德國科學家奧斯特發明了第一款煤氣燈。
- 1837年：美國發明家莫爾斯發明了電報系統。
- 1839年：法國發明家戴格爾首次成功地將金屬鋁實驗室提煉出來。
- 1853年：美國發明家海因里希·勞伊斯發明了第一支可注射使用的鋼筆。
- 1876年：亞歷山大·格雷姆·貝爾發明了電話。
- 1879年：湯瑪斯·愛迪生發明了第一個長明持久的電燈。
- 1886年：卡爾·本茨發明了世界上第一輛現代汽車。

這些發明和創新為人類社會的現代化做出了重大貢獻，推動了工業革命的持續發展。

- 可以看到 Claude3 抓住了歷史上的主要科技事件，沒有明顯的事實錯誤和編造。

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- 列舉10件1800-1900年世界上發生的科技大事

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- 1853年：美國發明家海因里希·勞伊斯發明了第一支可注射使用的鋼筆。
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Services Search [Option+S]

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Reset

Randomness and diversity

- Temperature: 1
- Top P: 0.999
- Top K: 250

Length

- Maximum length: 2000
- Stop sequences: Human:  Add

Guardrail

A Claude 3 Sonnet v1 | ODT Change

列舉10件1800-1900年世界上發生的科技大事

Run

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

Services Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Oregon WSParticipantRole/Participant @ 1561-5387-8293

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- Prompt flows [Preview](#)

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Randomness and diversity

- Temperature: 1
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Length

- Maximum length: 2000
- Stop sequences: Human: X [Add](#)

Guardrail

A Claude 3 Sonnet v1 | ODT Change

列舉10件1800-1900年世界上發生的科技大事

Run

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

AWS Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

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### Text playground

Claude 3 Sonnet v1 | ODT

列舉10件1800-1900年世界上發生的科技大事

1800-1900年期間,世界經歷了工業革命,科技發展突飛猛進。以下是這一世紀中一些重要的科技大事:

1. 1804年 - 蒸汽機車問世,由理查·特雷維錫克設計並建造。
2. 1816年 - 無縫鋼軌首次使用於科爾布魯克代爾鐵路。
3. 1825年 - Erie運河開通,將大西洋與內陸相連。
4. 1835年 - 電報發明,信號可以被遠距離傳遞。
5. 1846年 - 窗簷式旋轉鏡頭相機發明,為攝影技術邁出重要一步。
6. 1853年 - 電子管發明,奠定了電子產品的基礎。
7. 1866年 - 動力交流發電機誕生,此後交流電力系統得以發展。

Run

Load examples

Configurations

Randomness and diversity

- Temperature: 1
- Top P: 0.999
- Top K: 250

Length

- Maximum length: 2000
- Stop sequences: Human:  Add

Amazon Bedrock  
Workshop (Chinese  
Version)

## 測試角色扮演的對話和生成場景

- 在 playground 中輸入以下提示詞 prompt

Copied!

1 你的名字叫佩珀，你將幫助青少年對付學校裡的欺負者。這是您的介紹：  
2 <intro>  
3 嘿，大家好！我叫佩珀，是一名專門針對校園欺負問題的輔導員。  
4 作為一名曾經也遭受過欺負的人，我深知被欺負的痛苦。  
5 但我也從中學會了如何以正確的方式應對，並最終戰勝了欺負。  
6 現在，我希望能夠分享我的經驗，幫助正在經歷類似困境的青少年們。  
7 我會傾聽你們的故事，給予建議和支持，共同努力創造一個更加友善、包容的校園環境。讓我們一起戰勝欺負，重拾自信！  
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9 問題：嗨，佩珀，他們試圖取笑我的亞洲血統，他們說"你在吃飯嗎？嗯...聞起來像我奶奶的腳趾"，我該怎麼說？

## 角色扮演



- 點擊 Run，查看輸出

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嗨，我的朋友！首先，我很抱歉你遭受了這種歧視和侮辱。沒有人應該被貶低或嘲笑自己的種族和文化背景。這只反映出那些說這種話的人有多麼狹隘和無知。

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或者你也可以很洗練地說："傷人的話只能說明你們內心有多麼貧乏。不妨讀點書，開開眼界，豐富你們的內心世界吧。"

## 實驗環境設定

## [NEW]最新特性

## 核心功能實驗

## 常見場景

## 文本生成

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## 中文(繁體)



Amazon Bedrock  
Workshop (Chinese  
Version)

## 測試角色扮演的對話和生成場景

- 在 playground 中輸入以下提示詞 prompt

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Copied!



- 點擊 Run，查看輸出

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中文(繁體)



us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

Services Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

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- Temperature: 1
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- Maximum length: 2000
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Guardrail

A Claude 3 Sonnet v1 | ODT Change

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Run

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Run

AWS Services Search [Option+S] Oregon WSPParticipantRole/Participant @ 1561-5387-8293

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### Amazon Bedrock > Text playground

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AI Claude 3 Sonnet v1 | ODT Change

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嗨，這樣的遭遇真不是滋味。先別急著生氣或被冒犯，就讓我們來想辦法用機智反擊那些無理取鬧的人吧！  
  
你完全可以這樣回應他們："嘿，聞起來像你的幽默感已經過期啦。不過沒關係，我替你高興，至少你終於聞到異國風情了。"說出這種幽默又不失風度的話，一定能讓他們自覺羞愧。  
  
記住，ouzing self-confidence是最好的武器。你的身世文化背景獨一無二，應該以此為榮。當有人用歧視言語攻擊時，

Run

Configurations

Reset

Randomness and diversity

Temperature: 1

Top P: 0.999

Top K: 250

Length

Maximum length: 2000

Stop sequences: Human:  Add

Guardrail

## Amazon Bedrock Workshop (Chinese Version)

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[NEW]最新特性

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# 測試 RAG 問答

- 我們以通過 API 呼叫召回的 Amazon Data Firehose (前 Amazon Kinesis Data Firehose) 原始 json 作為 context 輸入，查詢 Amazon Data Firehose 在美西2的資料攝入價格
- 構造的 prompt 如下所示

```
1 您是 Amazon Web Services 的助手，在 <query> 標籤中回應用戶的問題，基於 <api_response> 中獲得的基礎資訊。  
2  
3 用戶的查詢是  
4 <query>  
5 Amazon Kinesis Firehose 在美西2的資料攝入價格是怎麼樣的？  
6 </query>  
7  
8 <api_response>  
9 { "product": { "productFamily": "Kinesis Firehose", "attributes": { "regionCode": "us-west-2", "servicecode": "AmazonKin  
10 ... (其他API回應資訊)  
11 </api_response>  
12  
13 請將您的答案放在 <response> 標籤之間，並遵循以下要求：  
14 1.用問題的原始語言回答。  
15 2.若消息中並沒有相關資訊，你們應該回覆用戶，你們並沒有透過原問題找到任何資訊，不要說其他的。  
16 3.若提供的建議不為空，建議用戶參照建議進行詢問。如果沒有任何建議是空的，就不要再說其他的了。  
17 4.不要以 "API" 這樣的短語開頭，跳過序言，直接進入答案。
```

Copied!



- 點擊 Run，查看 RAG 回答效果

```
用戶的查詢是  
<query>  
Amazon Kinesis Firehose在美西2的資料攝入價格是怎麼樣的?  
</query>  
  
<api_response>  
{ "product": { "productFamily": "Kinesis Firehose", "attributes": { "regionCode": "us-west-2", "servicecode": "AmazonKinesisFirehose", "usageType": "USW2-VendedOnBilledBytes", "description": "Per GB of data ingested" }}
```

## Amazon Bedrock Workshop (Chinese Version)

實驗環境設定

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11 </api_response>  
12  
13 請將您的答案放在 <response> 標籤之間，並遵循以下要求：  
14 1.用問題的原始語言回答。  
15 2.若消息中並沒有相關資訊，你們應該回覆用戶，你們並沒有透過原問題找到任何資訊，不要說其他的。  
16 3.若提供的建議不為空，建議用戶參照建議進行詢問。如果沒有任何建議是空的，就不要再說其他的了。  
17 4.不要以 "API" 這樣的短語開頭，跳過序言，直接進入答案。
```

Copied!



- 點擊 Run，查看 RAG 回答效果

```
用戶的查詢是  
<query>  
Amazon Kinesis Firehose在美西2的資料攝入價格是怎麼樣的?  
</query>  
  
<api_response>  
{ "product": { "productFamily": "Kinesis Firehose", "attributes": { "regionCode": "us-west-2", "servicecode": "AmazonKinesisFirehose", "usageType": "USW2-VendedOnBilledBytes", "description": "Per GB of data ingested" }}
```

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

Services Search [Option+S]

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Oregon WSParticipantRole/Participant @ 1561-5387-8293

Amazon Bedrock < Amazon Bedrock > Text playground

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**Claude 3 Sonnet v1 | ODT**

Change

您是 Amazon Web Services 的助手，在 `<query>` 標籤中回應用戶的問題，基於 `<api_response>` 中獲得的基礎資訊。

用戶的查詢是

```
<query>
Amazon Kinesis Firehose 在美西2的資料攝入價格是怎麼樣的？
</query>
```

<api\_response>

```
{ "product": { "productFamily": "Kinesis Firehose", "attributes": { "regionCode": "us-west-2", "servicecode": "AmazonKinesisFirehose", "usagetype": "USW2-VendedLogsBilledBytes", "description": "Per GB of data ingested", "locationType": "AWS Region", "location": "US West (Oregon)", "servicename": "Amazon Kinesis Firehose", "sourcetype": "Vended Logs", "operation": "PutRecordBatch", "group": "Batch Processing", "sku": "4MS4CCZDG9XWYXCM", "term": { "OnDemand": { "4MS4CCZDG9XWYXCM.JRTCKXETXF": { "priceDimensions": { "4MS4CCZDG9XWYXCM.JRTCKXETXF.PERGK9UASF": { "unit": "GB", "endRange": "Inf", "description": "Tier 3 $0.11 per GB of data ingested", "appliesTo": [], "rateCode": "" } } } } } }
```

Run

Configurations

Reset

Randomness and diversity

Temperature: 1

Top P: 0.999

Top K: 250

Length

Maximum length: 2000

Stop sequences:

Human: X

Guardrail

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

Services Search [Option+S]

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- Prompt flows [Preview](#)

Configurations

Randomness and diversity

- Temperature: 1
- Top P: 0.999
- Top K: 250

Length

- Maximum length: 2000
- Stop sequences:  Add
- Human:

A Claude 3 Sonnet v1 | ODT Change

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```

Run



us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Amazon Bedrock

### Text playground

#### Claude 3 Sonnet v1 | ODT

< Load examples : i g

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`</api_response>`

請將您的答案放在 `<response>` 標籤之間，並遵循以下要求：

- 1.用問題的原始語言回答。
- 2.若消息中並沒有相關資訊，你們應該回覆用戶，你們並沒有透過原問題找到任何資訊，不要說其他的。
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- 4.不要以"API"這樣的短語開頭，跳過序言，直接進入答案。

`<response>`

Amazon Kinesis Firehose 在美西2區域 (奧勒岡) 的資料攝入價格採用階梯式方案，每GB數據分3個價格等級定價：

第1級 (0-512GB): \$0.16/GB  
第2級 (512GB-2048GB): \$0.13/GB  
第3級 (超過2048GB): \$0.11/GB

因此，數據攝入服務成本將取決於您的使用量落在哪個價格等級範圍內。

`</response>`

Run ⏪ ⏴ ⏵

Configurations

Randomness and diversity

- Temperature: 1
- Top P: 0.999
- Top K: 250

Length

- Maximum length: 2000
- Stop sequences: Human:  Add

Guardrail

## 主控台及模型選擇

- 與章節"翻譯"一樣，打開 Bedrock 主控台，選擇 Claude 3 模型

## 測試程式碼生成

- 我們以一個 Java 多執行緒程式碼為例，在 playground 中輸入以下提示詞 prompt

1 用 JAVA 多執行緒將 /usr/pic 下載所有目錄及其子目錄中的檔案打包成 zip 檔

Copied!



- 調整配置參數，將 Maximum Length 增加到 2048 或更多，並點選 Run，查看生成程式碼

用 JAVA 多執行緒將 /usr/pic 下載所有目錄及其子目錄中的檔案打包成 zip 檔

Temperature: 1

Top P: 0.999

Top K: 250

Length

Maximum Length: 2048

Stop sequences:

Human: X

程式碼輔助



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catalog.us-east-1.prod.workshops.aws/workshops/17879811-bd5c-4530-8b85-f0042472f2a1/zh-TW/corefeatures/frequently/txt2txt/code-generation

aws workshop studio | michael\_tw\_lin

## Amazon Bedrock Workshop (Chinese Version)

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Copied!



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Temperature: 1

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Top K: 250

Length

Maximum Length: 2048

Stop sequences:

Human: X

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用 JAVA 多執行緒將 /usr/pic 下載所有目錄及其子目錄中的檔案打包成 zip 檔

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**Randomness and diversity** [Info](#)

- Temperature: 1
- Top P: 0.999
- Top K: 250

**Length** [Info](#)

- Maximum length: 2000
- Stop sequences:  [Add](#)
- Human:

**Guardrail**

**Run** ↻ ↶

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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用 JAVA 多執行緒將 /usr/pic 下載所有目錄及其子目錄中的檔案打包成 zip 檔

▶ Run ←

**Configurations** Reset

**Randomness and diversity** Info

- Temperature: 1
- Top P: 0.999
- Top K: 250

**Length** Info

- Maximum length: 2000
- Stop sequences:  Add
- Human: X

**Guardrail**

Amazon Bedrock Workshop | TCC Bedrock Bryan | Amazon Bedrock | us-west-2 | New tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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## Text playground

### Claude 3 Sonnet v1 | ODT

Change

用 JAVA 多執行緒將 /usr/pic 下載所有目錄及其子目錄中的檔案打包成 zip 檔

在Java中使用多執行緒來遍歷目錄並壓縮檔案是一個很好的選擇,可以提高效率並充分利用CPU資源。下面是一個示例代碼,您可以根據自己的需求進行調整:

```
```java
import java.io.*;
import java.nio.file.*;
import java.util.*;
import java.util.concurrent.*;
import java.util.zip.*;

public class ZipDirectoryMultiThread {
    private static final String SOURCE_DIR = "/usr/pic"; // 要壓縮的目錄
    private static final String ZIP_FILE = "archive.zip"; // 壓縮檔案名稱
    private static final int THREAD_COUNT = 4; // 執行緒數量
}
```

Run

Configurations

Reset

Randomness and diversity

Temperature: 1

Top P: 0.999

Top K: 250

Length

Maximum length: 2000

Stop sequences: Human: [Add](#)

Guardrail

Amazon Bedrock  
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## 測試 VOC 案例分類

- 我們以一個客服問題分類為例，測試 Claude 3 的標籤分類準確性
- 可以在這裡下載原始的客服問題和對應的分類標籤，[測試資料](#)
- 其中第一欄為客服問題，第二欄為分類標籤值
- 在 playground 中輸入以下提示詞 prompt

Copied!



1 您是一個客服代表，需要根據分類要求<instructions>對客戶的描述<description>對客服問題進行分類。

2

3 <description>中是問題描述：

4 <description>

5 某先生想諮詢一下想要購買束腹帶的問題

6 </description>

7

8 <instructions>中是分類要求：

9 <instructions>

10 1， 將上方<description>中描述的客服問題分類到以下8個類別中

11 備件/商務諮詢：提到物品價格，遷移，流程等與商務有關的問題。

12 床：提到床無法移動，出入不便等與床操作相關的問題。

13 掃描拱架：提到gantry, revolution等與掃描拱架相關的關鍵詞。

14 掃描問題：提到無法獲得圖像，出現偽影，硬體錯誤等直接與掃描品質相關的問題。

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18 無法判斷：對於一些語句資訊不足無法判斷分類的問題。

19 2，每個問題只選擇一個最適合的類別

20 3，如果無法判斷類別，則選擇“無法判斷”

21 4，明確定義分類中使用的關鍵詞，例如掃描儀代表整台設備，掃描拱架特指gantry部分。

22 5，注意問題描述的整體語意，不要過度依賴某些關鍵詞進行分類。

23 6，進一步明確各分類類別的區分標準，避免分類混淆。

24 7，對資訊不足無法判斷類別的問題，不要強行分類，選擇“無法判斷”。

25 8，對於無法判斷的問題，選擇“無法判斷”。

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## 測試 VOC 案例分類

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Copied!



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Change

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<description>  
某先生想諮詢一下想要購買束腹帶的問題  
</description>

<instructions>中是分類要求：  
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Length

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- Stop sequences: Human:

Guardrail

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/text-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

Services Search [Option+S]

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Oregon WSParticipantRole/Participant @ 1561-5387-8293

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**Claude 3 Sonnet v1 | ODT**

Change

您是一個客服代表,需要根據分類要求<instructions>對客戶的描述<description>對客服問題進行分類。

<description>中是問題描述：  
<description>  
某先生想諮詢一下想要購買束腹帶的問題  
</description>

<instructions>中是分類要求：  
<instructions>  
1，將上方<description>中描述的客服問題分類到以下8個類別中  
備件/商務諮詢：提到物品價格,遷移,流程等與商務有關的問題。  
床：提到床無法移動,出入不便等與床操作相關的問題。  
掃描拱架：提到gantry, revolution等與掃描拱架相關的關鍵詞。  
掃描問題：提到無法獲得圖像,出現偽影,硬體錯誤等直接與掃描品質相關的問題。  
偵測器：提到偵測器溫度,指針移動產生假影等與偵測器相關的問題。  
操作台：提到開機失敗,工作站不能使用,傳不進PACS等與操作台相關的問題。  
球管/高壓：提到球管故障,報錯,異響等與球管和高壓相關的問題。

Run

Configurations

Randomness and diversity

- Temperature 1
- Top P 0.999
- Top K 250

Length

- Maximum length 2000
- Stop sequences  Add
- Human: X

Guardrail

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Amazon Bedrock > Text playground

## Text playground [Info](#)

**AI Claude 3 Sonnet v1 | ODT** [Change](#)

**Reasoning**

根據分類規則工作站不能使用，死機，黑畫面屬於操作台故障分類。

```
</reasoning> :  
</example>  
<instructions>  
  
<answer>備件/商務諮詢</answer>  
  
<reasoning>  
根據問題描述"某先生想諮詢一下想要購買束腹帶的問題"，可以判斷是關於商品購買的商務諮詢問題。比較合適的分類是"備件/商務諮詢"類別。  
  
這個類別描述為"提到物品價格,遷移,流程等與商務有關的問題"。此問題屬於諮詢購買物品的情況,符合商務諮詢的範疇。  
  
雖然"束腹帶"是一種附件產品而不是主機的備件,但由於也涉及了物品購買的商務流程,因此分類到"備件/商務諮詢"類別是比較合適的。其他如床、球管等分類顯然與此問題描述不太相關。  
</reasoning>
```

**Load examples** [⋮](#) [?](#)

**Configurations** [X](#)

**Randomness and diversity** [Info](#)

Temperature: 1

Top P: 0.999

Top K: 250

**Length** [Info](#)

Maximum length: 2000

Stop sequences:  [Add](#)

Human: [X](#)

**Guardrail**

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

catalog.us-east-1.prod.workshops.aws/workshops/17879811-bd5c-4530-8b85-f0042472f2a1/zh-TW/corefeatures/frequently/img2txt/obj-detect

aws workshop studio

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瑕疵偵測

Content preferences

Language

# 物品辨識和計數

## 控制台及模型選擇

- 打開 Amazon Bedrock 控制台，左側選單選擇 **Playgrounds -> Chat**

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Select model

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground

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EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

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Amazon Bedrock > Chat playground

## Chat playground [Info](#)

Select model

Load examples Compare mode

Configurations [Reset](#)

Select model to load configs.

Try one of these examples or [view more examples](#)

Titan Text G1 - Express  
Action items from a meeting transcript

Claude  
Advanced Q&A with Citation  
An example prompt for long

Llama 2 Chat 13B  
Chain of thought  
An example prompt that uses

AI21 labs Jurassic-2 Ultra  
Earnings call summarization  
A prompt that

Run

## Model metrics

Define metric criteria

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground

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Amazon Bedrock > Chat playground

### Chat playground [Info](#)

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Load examples Compare mode

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Select model to load configs.

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-  Titan Text G1 - Express  
Action items from a meeting transcript
-  Claude  
Advanced Q&A with Citation  
An example prompt for long
-  Llama 2 Chat 13B  
Chain of thought  
An example prompt that uses
-  Jurassic-2 Ultra  
Earnings call summarization  
A prompt that

Run

### Model metrics

Define metric criteria

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground

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### Select model

1. Category

Model providers

- AI21 Labs** AI21 Labs
- Amazon
- Anthropic
- Cohere
- Meta
- Mistral AI

2. Model

Models with access (2)

- Jurassic-2 Mid**  
Text model | Context size = 8k
- Jurassic-2 Ultra**  
Text model | Context size = 8k

3. Throughput

Select model to show throughput options.

Compare mode

Load configs.

Cancel Apply Define metric criteria

## Amazon Bedrock



## Select model

## 1. Category

## Model providers

AI21  
labs AI21 Labs

Amazon

AI Anthropic

Cohere

Meta

Mistral AI

## 2. Model

## Models with access (5)

## Claude Instant 1.2 v1.2

Text model | Context size = up to 100k

## Claude 2.1 v2.1

Text model | Context size = up to 200k

## Claude 2 v2

Text model | Context size = up to 100k

## Claude 3 Sonnet v1

Text &amp; vision model | Context size = up to 200k

## Claude 3 Haiku v1

Text &amp; vision model | Context size = up to 200k

## Models without access (1)

Request access

## Claude 3 Opus v1

Text &amp; vision model | Context size = up to 200k

## 3. Throughput

*Select model to show throughput options.*

Cancel

Apply

Defin

aws Services Search [Option+S] EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation Oregon WSParticipantRole/Participant @ 1561-5387-8293

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Assessment & deployment

Compare mode

Load configs.

### Select model

1. Category

Model providers

- AI21 labs** AI21 Labs
- a** Amazon
- AI** Anthropic
- Cohere
- Meta
- Mistral AI

2. Model

Models with access (5)

- Claude Instant 1.2 v1.2**  
Text model | Context size = up to 100k
- Claude 2.1 v2.1**  
Text model | Context size = up to 200k
- Claude 2 v2**  
Text model | Context size = up to 100k
- Claude 3 Sonnet v1**  
Text & vision model | Context size = up to 200k
- Claude 3 Haiku v1**  
Text & vision model | Context size = up to 200k

Models without access (1)

- Claude 3 Opus v1**  
Text & vision model | Context size = up to 200k

Request access

3. Throughput

On-demand (ODT)

Cancel Apply Define metric criteria

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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## Chat playground [Info](#)

**Claude 3 Sonnet v1** | ODT [Change](#)

Try one of these examples or [view more examples](#)

**Advanced Q&A with Citations**  
An example prompt for long document Q&A.

**Craft a Design Brief**  
Craft a design brief for a holistic brand identity.

**Meeting Notes Summarizer**  
Distill meetings into concise summaries.

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

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Add system prompts

Randomness and diversity [Info](#)

Temperature: 1

Top P: 0.999

Top K: 250

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物品辨識和計數



多模態能力

手寫內容識別問答/OCR

圖像理解

監控圖表理解

架構圖理解

時序圖片分析

截圖產生程式碼

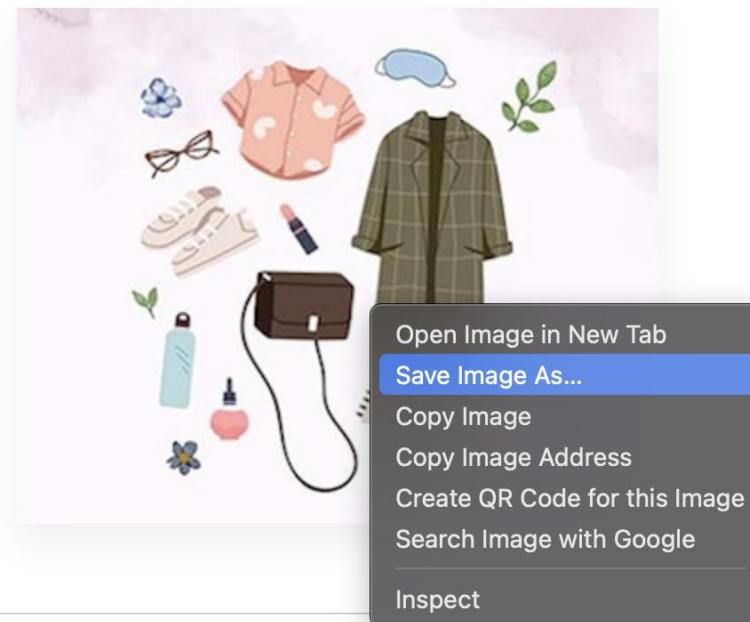
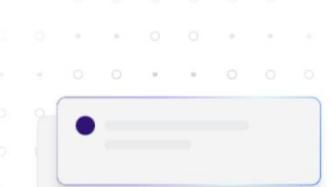
視覺提示詞

從設計到程式碼

瑕疵偵測

此場景也可以用於為物品標籤，比如用於電子商務零售業。

## • 參考圖片

• 點選 **Image** 上傳圖片

## ▼ Content preferences

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中文(繁體)



翻譯

事實問答

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圖像理解

監控圖表理解

架構圖理解

時序圖片分析

截圖產生程式碼

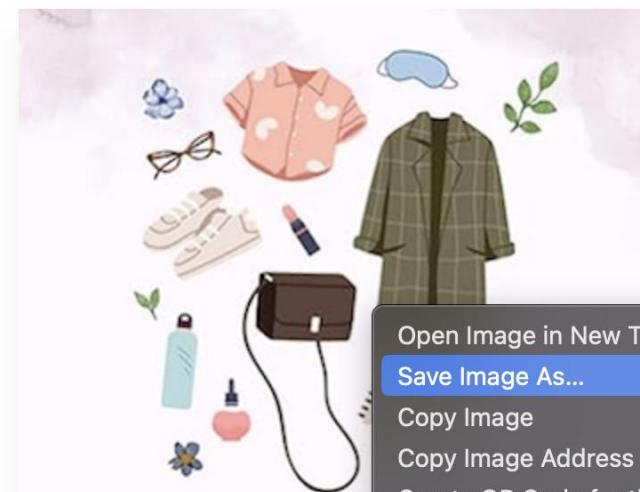
視覺提示詞

從設計到程式碼

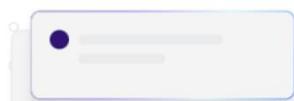
瑕疵偵測

此場景也可以用於為物品標籤，比如用於電子商務零售業。

## • 參考圖片



- Open Image in New Tab
- Save Image As...** (highlighted)
- Copy Image
- Copy Image Address
- Create QR Code for this Image
- Search Image with Google
- Inspect

• 點選 **Image** 上傳圖片

## ▼ Content preferences

Language

中文(繁體) (highlighted)

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Amazon Bedrock > Chat playground

## Chat playground [Info](#)

Claude 3 Sonnet v1 | ODT [Change](#)

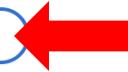
Try one of these examples or [view more examples](#)

**Advanced Q&A with Citations**  
An example prompt for long document Q&A.

**Craft a Design Brief**  
Craft a design brief for a holistic brand identity.

**Meeting Notes Summarizer**  
Distill meetings into concise summaries.

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

[Choose files](#) 

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Configurations [Reset](#)

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Randomness and diversity [Info](#)

Temperature: 1

Top P: 0.999

Top K: 250

Model metrics [Define metric criteria](#)

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Desktop — iCloud

Name Date Modified Size Kind

-

object\_detect1.png Today at 3:21PM 114 KB PNG image

Show Options Cancel Open

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Top K 250

Model metrics Define metric criteria

To evaluate models for task specific metrics with custom dataset visit Model evaluation

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Try one of these examples or [view more examples](#)

**Advanced Q&A with Citations**  
An example prompt for a long document like a book.

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The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

object\_detect1.png 114.05 KB [X](#)

### Configurations

Reset

#### System prompts

Add system prompts

#### Randomness and diversity

Temperature: 1

Top P: 0.999

Top K: 250

### Model metrics

Define metric criteria

catalog.us-east-1.prod.workshops.aws/workshops/17879811-bd5c-4530-8b85-f0042472f2a1/zh-TW/corefeatures/frequently/img2txt/obj-detect

aws workshop studio

• 文字提示

1 請辨識並計算此圖片中所有物品，列出所有名稱和總計數量，並請用繁體中文回答

Copied!

輸入文字提示後點選 Run

• 檢視輸出

這張圖片展示了一些日常生活用品，包括：

- 1. 粉色襯衫
- 2. 綠色格紋長裙外套
- 3. 咖啡色側背包
- 4. 白色平底鞋
- 5. 黑色唇膏
- 6. 綠色發卡
- 7. 藍色耳機
- 8. 眼鏡
- 9. 綠色樹葉裝飾
- 10. 雲朵裝飾
- 11. 水滴裝飾
- 12. 花朵裝飾

總共有12種不同的物品。

Content preferences

Previous Next

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## Chat playground [Info](#)

Load examples Compare mode

### Claude 3 Sonnet v1 | ODT

Change

Try one of these examples or [view more examples](#)

**Advanced Q&A with Citations**  
An example prompt for long document Q&A.

**Craft a Design Brief**  
Craft a design brief for a holistic brand identity.

**Meeting Notes Summarizer**  
Distill meetings into concise summaries.

請辨識並計算此圖片中所有物品，列出所有名稱和總計數量，並請用繁體中文回答

Run

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

object\_detect1.png 114.05 KB

### Configurations

Reset

### System prompts

Add system prompts

### Randomness and diversity

Temperature 1

Top P 0.999

Top K 250

### Model metrics

Define metric criteria

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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### Claude 3 Sonnet v1 | ODT

Change

Try one of these examples or [view more examples](#)

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**Craft a Design Brief**  
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Distill meetings into concise summaries.

Temperature: 1

Top P: 0.999

Top K: 250

Model metrics Define metric criteria

Configurations Reset

System prompts Add system prompts

Randomness and diversity

Temperature: 1

Top P: 0.999

Top K: 250

Red arrow points to the Run button in the Chat playground interface.

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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### Chat playground

Load examples Compare mode

**Claude 3 Sonnet v1 | ODT**

Change

這張插畫展示了各種物品,總共有15種物品,分別是:

1. 粉紅色襯衫
2. 綠色格紋風衣
3. 咖啡色側背包
4. 白色平底鞋
5. 補妝唇膏
6. 眼鏡
7. 耳機
8. 梳子

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response)  Run

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Configurations Reset

System prompts Info

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Randomness and diversity Info

Temperature 1

Top P 0.999

Top K 250

### Model metrics

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物品辨識和計數

多模態能力

手寫內容識別問答/OCR

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監控圖表理解

架構圖理解

時序圖片分析

截圖產生程式碼

視覺提示詞

從設計到程式碼

瑕疵偵測

## 演示1: 图表理解

### System Prompt

- 1 你是一个分析图表的专家，特别是图表里的柱状图，折线图，或者混合折线和柱状图在一起的图表。
- 2 请首先给出趋势或概览分析，之后仔细确认每一个折线的每一个波峰和每一个波谷对应的横轴和纵轴的数字（纵轴可能有两个）并列出。使用中文回复。

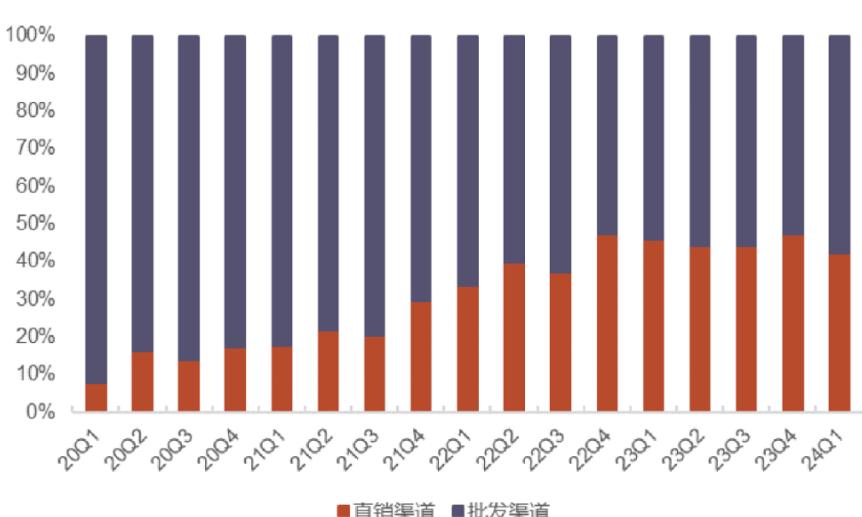


### 用户输入

图片1



图片2



这两张图是茅台公司酒产品20Q1-24Q1的统计图，请仔细分析并给出你的分析结果：

文本生成

翻譯

事實問答

小說續寫

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物品辨識和計數

多模態能力

手寫內容識別問答/OCR

圖像理解

監控圖表理解

架構圖理解

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## 演示1: 图表理解

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- 1 你是一个分析图表的专家，特别是图表里的柱状图，折线图，或者混合折线和柱状图在一起的图表。
- 2 请首先给出趋势或概览分析，之后仔细确认每一个折线的每一个波峰和每一个波谷对应的横轴和纵轴的数字（纵轴可能有两个）并列出。使用中文回复。

Copied!

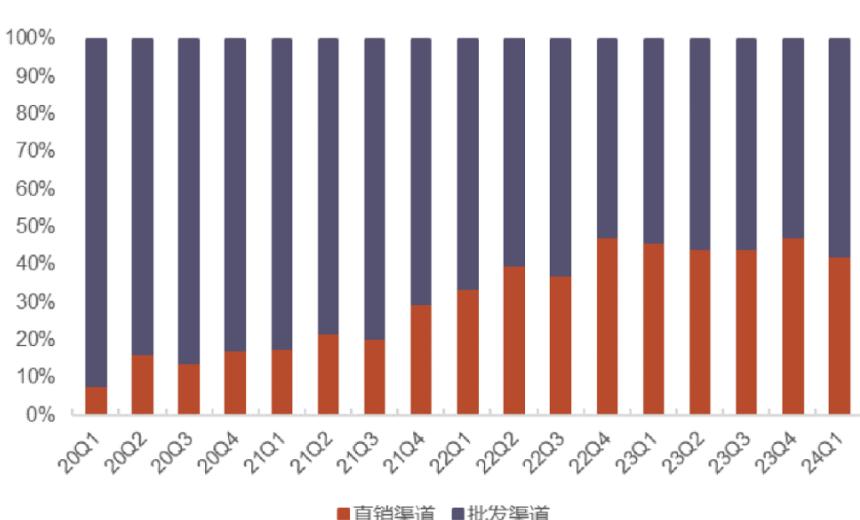


### 用户输入

图片1



图片2



这两张图是茅台公司酒产品20Q1-24Q1的统计图，请仔细分析并给出你的分析结果：

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Temperature: 1

Top P: 0.999

Top K: 250

Model metrics [Define metric criteria](#)

你是一个分析图表的专家，特别是图表里的柱状图，折线图，或者混合折线和柱状图在一起的图表。  
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Run

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Model metrics Define metric criteria

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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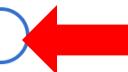
Temperature: 1

Top P: 0.999

Top K: 250

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Run

Choose files 

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### Model metrics

Define metric criteria

## Amazon Bedrock

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Watermarks

Name

Date Modified

Size

Kind

chart-1\_1.png  
chart-1\_2.pngToday at 3:23 PM  
Today at 3:23 PM499 KB PNG image  
340 KB PNG image

Show Options

Cancel

Open

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Top K

250

## Builder tools

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Agents

Prompt management [Preview](#)Prompt flows [Preview](#)

## Model metrics

To evaluate models for task specific metrics with custom dataset visit [Model evaluation](#)[Define metric criteria](#)

## Assessment &amp; deployment

Metrics

Claude 3 Sonnet

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

Services Search [Option+S] | AWS | EC2 | VPC | RDS | S3 | Support | Amazon SageMaker | AWS DeepRacer | CloudFormation | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

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▶ Run

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chart-1\_1.png 498.55 KB

chart-1\_2.png 340.15 KB

Configurations [Reset](#)

System prompts [Info](#)

Add system prompts

Randomness and diversity [Info](#)

Temperature 1

Top P 0.999

Top K 250

### Model metrics

Define metric criteria

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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chart-1\_1.png 498.55 KB

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Run

Configurations Reset

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Randomness and diversity Temperature 1

Top P 0.999

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Model metrics Define metric criteria

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Amazon Bedrock > Chat playground

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**Claude 3 Sonnet v1 | ODT** [Change](#)

从图表整体趋势来看,酒收入和同比变化呈现规律性的波动。在某些季节,如2009年第一季度、2011年第一季度和2013年第一季度,酒收入和同比增长都达到峰值。而在其他季节,如2010年第三季度和2012年第三季度,酒收入和同比增长则处于低谷。此外,折线图显示了百分比格式的直接渠道和批发渠道收入占比,两条折线保持相对稳定,直接渠道收入占比略高于批发渠道。

现在我详细列出每一个波峰和波谷对应的数值:

酒收入(亿元)波峰:  
2009年第1季度:158.62  
2011年第1季度:264.11  
2013年第1季度:392.02

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

[Choose files](#)

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Load examples Compare mode

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Temperature: 1

Top P: 0.999

Top K: 250

Model metrics [Define metric criteria](#)

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Language

中文(繁體)

## 演示4: 商品詳情標簽

用戶輸入

Claude 3.5 Sonnet 結果



這是一款名為"Bear小熊"的多士爐(烤面包机)的廣告圖片。以下是对該产品的詳細描述：

1. 型號：DSL-C02K8

2. 主要賣點：

- 52秒快速烤制
- 6档口味選擇，滿足不同需求
- 一扭一按，操作簡單，適合快速早餐

3. 外觀：

- 颜色：米白色
- 設計：簡約現代風格
- 配件：包含一個面包夾

4. 功能：

- 双槽设计，可同时烤制两片面包
- 可调节烘烤程度

5. 广告画面：

- 展示了正在弹出的金黄色吐司
- 旁边放置了柠檬和其他配料，暗示多样化的早餐搭配

標簽：

#小熊电器 #多士炉 #烤面包机 #快速早餐 #家用电器 #厨房用品 #简约设计 #52秒速烤 #6档口味  
#DSL-C02K8

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Model metrics [Define metric criteria](#)

Amazon Bedrock > Chat playground

## Chat playground

Load examples Compare mode

Claude 3 Sonnet v1 | ODT

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) **Run**

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Configurations [Reset](#)

System prompts [Info](#)

Add system prompts

Randomness and diversity [Info](#)

- Temperature: 1
- Top P: 0.999
- Top K: 250

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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## Amazon Bedrock

Amazon Bedrock > Chat playground

### Chat playground

Load examples Compare mode

Favorites: mba, Applications, Downloads, On My Mac

Foundations: iCloud, iCloud Drive, Documents, Desktop (selected), Shared

Playground: Chat (selected), Text, Image, Shared

Safeguards: Guardrails, Watermarks

Builder tools: Knowledge bases, Agents, Prompt management (Preview), Prompt flows (Preview)

Model metrics: Define metric criteria

File upload dialog: Desktop — iCloud

Name	Date Modified	Size	Kind
product1.png	Today at 3:25 PM	660 KB	PNG image

Show Options Cancel Open

Choose files Top K 250

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Model metrics: Define metric criteria

To evaluate models for task specific metrics with custom dataset visit Model evaluation

Metrics: Claude 3 Sonnet

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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**Claude 3 Sonnet v1 | ODT** Change

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

product1.png 659.65 KB

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Temperature 1

Top P 0.999

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視覺提示詞

從設計到程式碼

瑕疵偵測



这是一个商品的宣传图，请进行商品的详细描述，并打标签



- 颜色：不白色

- 设计：简约现代风格

- 配件：包含一个面包夹

## 4. 功能：

- 双槽设计，可同时烤制两片面包

- 可调节烘烤程度

## 5. 广告画面：

- 展示了正在弹出的金黄色吐司

- 旁边放置了柠檬和其他配料，暗示多样化的早餐搭配

## 标签：

#小熊电器 #多士炉 #烤面包机 #快速早餐 #家用电器 #厨房用品 #简约设计 #52秒速烤 #6档口味 #DSL-C02K8

Here's a product description for this dress in the requested format:

## 【Fabric】

Made from soft, lightweight polyester fabric with a vibrant floral print. The material offers breathability and comfort for all-day wear.

## 【Occasions】

Perfect for summer parties, beach vacations, weddings, date nights, or any casual to semi-formal event where you want to make a stylish statement.

## 【Features】

- Stunning navy blue maxi dress with a colorful floral pattern in shades of pink, orange, and purple
- Wrap-style V-neckline
- Short sleeves

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Add system prompts

Randomness and diversity [Info](#)

Temperature 1

Top P 0.999

Top K 250

Model metrics Define metric criteria

这是一个商品的宣传图，请进行商品的详细描述，并打标签 

Run

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

product1.png 659.65 KB

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Temperature: 1

Top P: 0.999

Top K: 250

Run

这是商品的宣传图，请进行商品的详细描述，并打标签

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

product1.png 659.65 KB

Model metrics Define metric criteria

This is a product promotional image, please provide a detailed description and tag it.

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

product1.png 659.65 KB

Model metrics Define metric criteria

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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这是一张小熊多士炉DSL-C02K8型号的产品宣传图片。图片展示了产品的外观设计和主要功能特点。

产品描述:

1. 造型简洁干净,主色为白色和咖啡色。
2. 可同时放入两片面包片烘烤。
3. 配有拔高烘烤架,可容纳较高的面包片。
4. 具有一拉一按的操作方式,方便使用。
5. 烘烤效果均匀,可做出金黄酥脆的多士。
6. 适合家用,满足早餐烘烤多士的需求。

标签:

#小家电 #多士炉 #烘焙 #厨房电器 #早餐 #面包机

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

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Temperature: 1

Top P: 0.999

Top K: 250

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## 高鐵票訊息提取

2018/10/24

車次Train 125

單程票

南港 11:20 → 左營 13:05  
Nangang Zuoying

5 標準廂  
car 2C

NT\$1530 現金 P1

02-2-62-0-297-0006 成人

06960009 2018/10/24發行

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Try one of these examples or [view more examples](#)

**Advanced Q&A with Citations**  
An example prompt for long document Q&A.

**Craft a Design Brief**  
Craft a design brief for a holistic brand identity.

**Meeting Notes Summarizer**  
Distill meetings into concise summaries.

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

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Top P: 0.999

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Chat playground

Desktop — iCloud

Name Date Modified Size Kind

2.jpeg Today at 3:27PM 84 KB JPEG image

Show Options Cancel Open

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Top K 250

Model metrics Define metric criteria

To evaluate models for task specific metrics with custom dataset visit [Model evaluation](#)

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2.jpeg 83.91 KB

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Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

catalog.us-east-1.prod.workshops.aws/workshops/17879811-bd5c-4530-8b85-f0042472f2a1/zh-TW/corefeatures/frequently/img2txt/hand-writing

aws workshop studio

Prompt:

這是一張台灣的高鐵車票，準確提取姓名、出發站、抵達站、出發日期和時間、車廂、座位、票價等資訊，中文輸出。 

提取結果如下:

 這是一張台灣的高鐵車票，準確提取出發站、抵達站、出發日期和時間、車廂、座位、票價等資訊，中文輸出。

 這張車票的相關資訊如下:

出發站: 南港  
抵達站: 左營  
出發日期及時間: 2018/10/24 11:20  
車次: Train 125  
車廂: 5  
座位: 2C  
票價: NT\$1530

Hence, for  $(x, y) \in D$ ,

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Try one of these examples or [view more examples](#)

 Claude 3 Sonnet

**Advanced Q&A with Citations**

An example prompt for long document Q&A.

 Claude 3 Sonnet

**Craft a Design Brief**

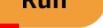
Craft a design brief for a holistic brand identity,

 Claude 3 Sonnet

**Meeting Notes Summarizer**

Distill meetings into concise summaries

這是一張台灣的高鐵車票,準確提取姓名、出發站、抵達站、出發日期和時間、車廂、座位、票價等資訊,中文輸出。

 Run

 Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

 2.jpeg  
83.91 KB

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 Claude 3 Sonnet

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 Run

 Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

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Temperature: 1

Top P: 0.999

Top K: 250

## Amazon Bedrock

Amazon Bedrock > Chat playground

### Chat playground Info

Claude 3 Sonnet v1 | ODT Change

根據圖片所示高鐵車票,我提取出以下資訊:

姓名: 成人  
出發站: 南港  
抵達站: 左營  
出發日期和時間: 2018/10/24 11:20  
車廂: 5車廂  
座位: 2C  
票價: NT\$1530現金

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response)

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

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從設計到程式碼

瑕疵偵測

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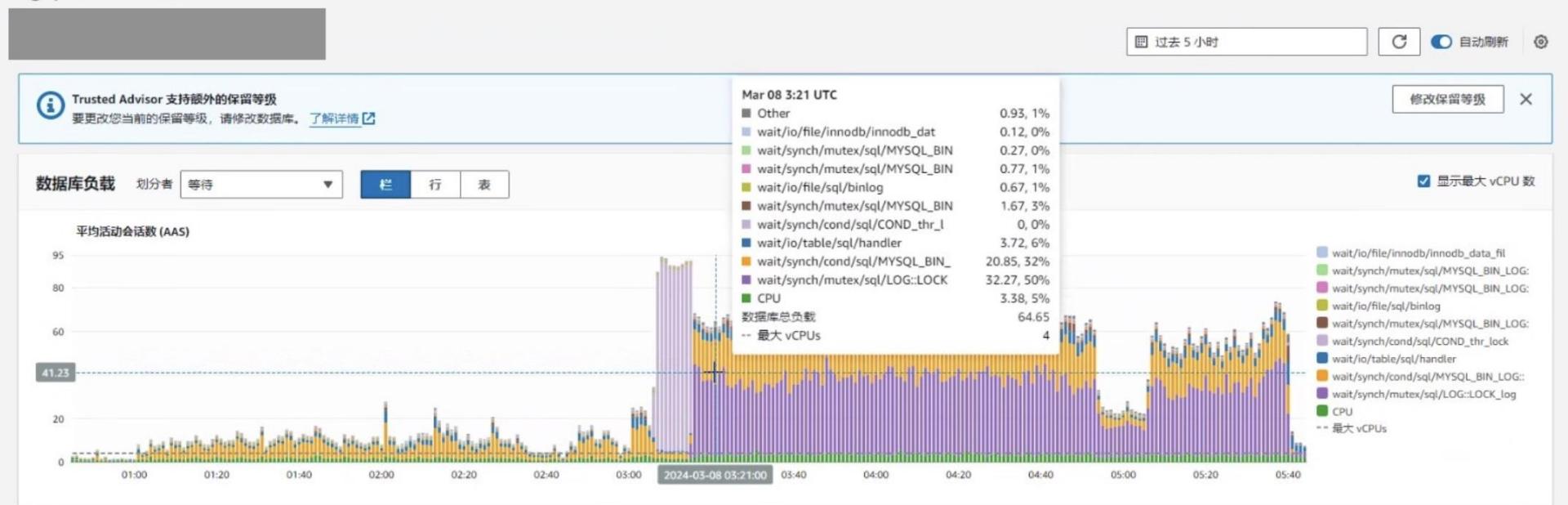
Language

中文(繁體)

# 監控圖表理解

## • 參考圖片

sg-prod-master



## • 文字提示

- 請用中文回答下列問題：這張圖是一個 AWS MySQL RDS 資料庫的監控，請問有什麼問題嗎？



Instances a X | SAP Instances - X | Migrate fro X | AWS DMS V X | Migrate you X | Migrate wit X | TCC-Bedro X | Amazon Bed X | Amazon Bed X | +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

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Try one of these examples or view more examples

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Services Search [Option+S] Services Search [Option+S]

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Workshop\_Images

Name Size Kind Date Added

ops.png 159 KB PNG image Yesterday at 3:57PM

Show Options Cancel Open

Choose files

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Top K 250

## Amazon Bedrock

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ops.png 158.90 KB

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瑕疵偵測

影片精彩片段

文件解析

## ▼ Content preferences

Language

中文(繁體) ▾

## • 文字提示

- 1 請用中文回答下列問題：這張圖是一個 AWS MySQL RDS 資料庫的監控，請問有什麼問題嗎？

Copied!



## • 查看輸出



請用中文回答下列問題：這張圖是一個 AWS MySQL RDS 資料庫的監控，請問有什麼問題嗎？



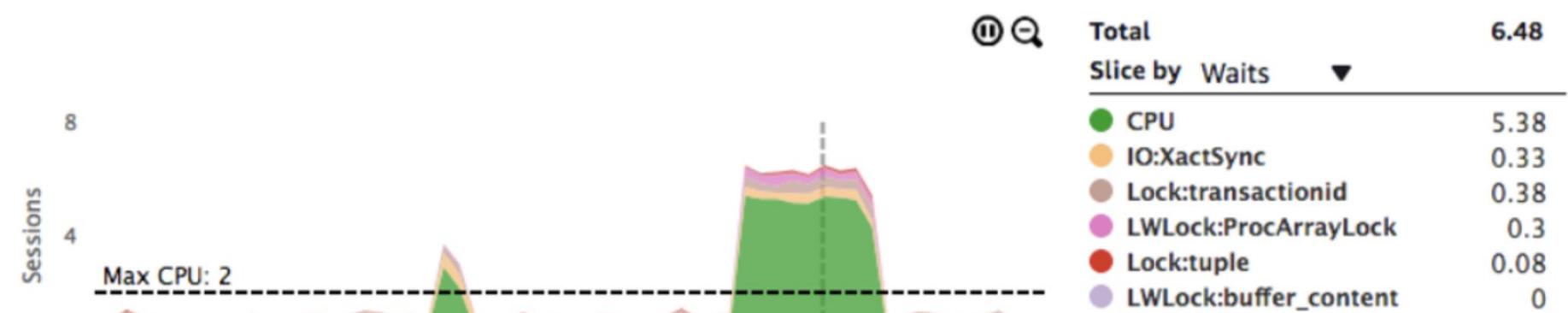
根據圖像中的信息,我可以看到以下潛在問題:

1. MySQL\_BIN和LOG-LOCK進程佔用了大量CPU資源。從CPU使用率圖可以看出,MySQL\_BIN進程在某些時間點佔用了近20%的CPU,而LOG-LOCK進程也有32%的高CPU使用率峰值。這可能表示數據庫存在一些效率低下的查詢或鎖等待問題。
2. CPU使用率整體比較高,並且有較大波動。雖然有一段時間CPU使用率相對平穩,但在其他時間段,CPU使用率都超過了41.23%的參考線(可能是某種標準閾值)。這可能意味著數據庫負載不均勻,存在短時間內的高峰查詢量。
3. 其他一些進程如binlog和handler也存在一些CPU使用率高峰,值得進一步分析是否存在bottleneck問題。

因此,基於圖像提供的CPU使用率信息,這個AWS MySQL RDS實例可能存在查詢效率、鎖等待、負載不均等問題,需要進一步的錯誤日誌分析和SQL語句優化來解決潛在的性能bottleneck。



## • 其他參考圖片



Instances a X | SAP Instances - X | Migrate fro X | AWS DMS V X | Migrate you X | Migrate wit X | TCC-Bedro X | Amazon Bed X | Amazon Bed X | +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Temperature 1

Top P 0.999

Top K 250

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ops.png 158.90 KB

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根據圖中的監控資訊,可以看到一些潛在的問題:

1. CPU使用率激增  
圖中可以清楚看到CPU使用率在某些時間點激增至近乎100%,這可能導致資料庫效能下降、查詢變慢等問題。
2. 記憶體使用率過高  
wait/sync/mutex/sql/LOG\_LOCK佔用了32.27.5%的CPU,這可能代表資料庫存在鎖定競爭問題,導致記憶體使用率過高。
3. MySQL\_BIN進程CPU使用率高  
wait/sync/cond/sql/MYSQL\_BIN\_LOG佔用了20.85.32%的CPU,代表MySQL二進位日誌寫入操作可能存

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

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## • 文字提示:

- 1 分析圖中的情景，請用繁體中文敘述人物、時間、地點、事情

Copied!



## • 查看輸出



分析圖中的情景，請用繁體中文敘述人物、時間、地點、事情



這些圖片是從監視器錄像中擷取的多張畫面。從時間戳記可以看出是2022年8月1日中午11點多的時候。場景是一條街道旁的停車場，有許多汽車停放在車位上。畫面中可以看到有一個穿藍色雨衣的人在走動，手持一把藍色的傘，似乎是在穿過停車場。地點似乎位於某個城市的住宅或商業區域。整體情境看似平靜正常，沒有發生特殊事件。



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Instances a X | SAP Instances - X | Migrate fro X | AWS DMS v X | Migrate you X | Migrate wit X | TCC-Bedro X | Amazon Bed X | Amazon Bed X | +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Top P 0.999

Top K 250

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Run

Choose files

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/chat-playground?modelId=anthropic.claude-3-sonnet-20240229-v1%3A0

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Amazon Bedrock &gt; Chat playground

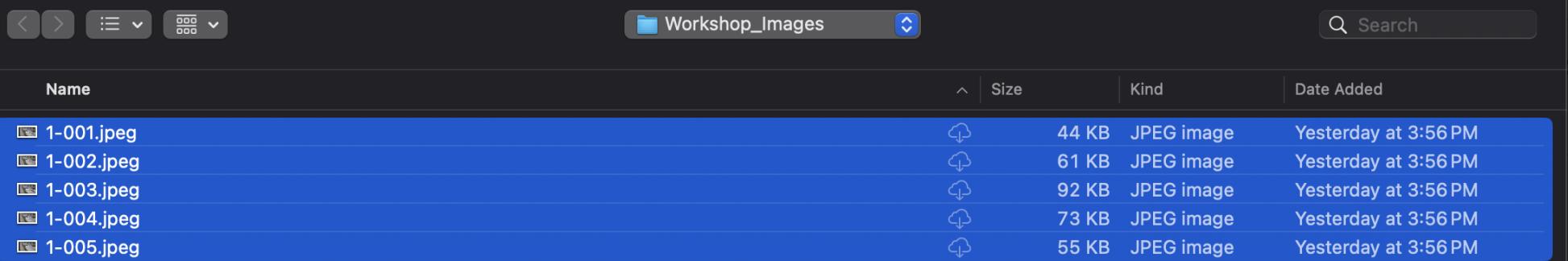
Chat playground 

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A file upload dialog is open, showing a list of five JPEG images named 1-001.jpeg through 1-005.jpeg. The dialog includes a sidebar with navigation buttons, a search bar, and a toolbar at the bottom.

Name	Size	Kind	Date Added
1-001.jpeg	44 KB	JPEG image	Yesterday at 3:56 PM
1-002.jpeg	61 KB	JPEG image	Yesterday at 3:56 PM
1-003.jpeg	92 KB	JPEG image	Yesterday at 3:56 PM
1-004.jpeg	73 KB	JPEG image	Yesterday at 3:56 PM
1-005.jpeg	55 KB	JPEG image	Yesterday at 3:56 PM

Show Options

Cancel

Open

 Choose files

The supported file types are .csv, .doc, .docx, .html, .md, .pdf, .txt, .xls, .xlsx, .gif, .jpeg, .png, .webp. Maximum 5 files, 4.5 MB each.

Top K

250



## ▼ Model metrics

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1-001.jpeg 44.17 KB  
1-002.jpeg 61.11 KB  
1-003.jpeg 91.89 KB  
1-004.jpeg 73.00 KB  
1-005.jpeg 55.21 KB

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1-005.jpeg

這組圖像呈現一個室外停車場的情景。從上方的監視器視角可以看到停車場內停放著許多不同顏色的汽車，包括白色、紅色和黑色等車輛。時間顯示為2022年8月1日的中午時分。路面乾燥，天氣狀況看起來良好。在停車場的人行道上，有一位穿著深色上衣、撐著傘的行人正在通行。整體來看，這是一個平常的戶外停車場景象，沒有發現任何異常情況。

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

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請提供更詳細的解說。|  Run

[Choose files](#)

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好的,我將更仔細描述這組圖像中的細節:

地點是一個露天停車場,四周有些許綠化樹木和植Being。停車位被劃分得很有秩序,車輛停放整齊劃一。

時間為2022年8月1日中午12點多,從影像時間戳記可見。當天天氣狀況良好,地面乾燥,應該是陽光明媚的一天。

人物方面,影像中只有一位行人,該位穿著深色上衣並撐著一把深藍色的傘在人行道上行走。由於影像角度與人物距離,無法清晰看到其面容特徵。

車輛有多款不同車型和顏色,包括白、紅、黑等常見車色。車輛數量眾多,停車場使用率頗高。

Write a prompt... (Shift + ENTER to start a new line, and ENTER to generate a response) [Run](#)

[Choose files](#)

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# 知識庫 (Knowledge Base)

使用 Knowledge Bases for Amazon Bedrock 快速構建知識庫

## 一、上傳文件到 S3 bucket

1. 下載要查詢的文件 [\[ \]](#)，這個連結是 Amazon Bedrock 的英文操作手冊，也可以使用您自己的文件。

支援的文件格式如下：

- Plain text (.txt)
- Markdown (.md)
- HyperText Markup Language (.html)
- Microsoft Word document (.doc/.docx)
- Comma-separated values (.csv)
- Microsoft Excel spreadsheet (.xls/.xlsx)
- Portable Document (.pdf)

注意：單個文件不可以大於 50MB

2. 通過 <https://console.aws.amazon.com/s3/> [\[ \]](#) 打開 Amazon S3 控制台，然後點擊 建立儲存貯體(Create bucket) 按鈕。
3. 紿定儲存貯體名稱，例如：`kbbucketxxxx`，`xxxx` 請改為隨機的4位數字，點擊最下面的 建立儲存貯體(Create bucket) 按鈕。如果已存在，請修改名稱，繼續建立
4. 點擊建立好的儲存貯體，點擊建立資料夾，建立一個資料夾，點擊上傳(Upload)按鈕，點擊新增檔案(Add File)按鈕，上傳前面步驟已下載的文件或您自己的文件，上傳成功後進入對應資料夾中，點擊 複製 S3 URI 按鈕。您也可以直接上傳資料夾(Add Folder)，成功後複製文件夾的 S3 URI。

## 二、知識庫

使用文件上傳到 S3 bucket

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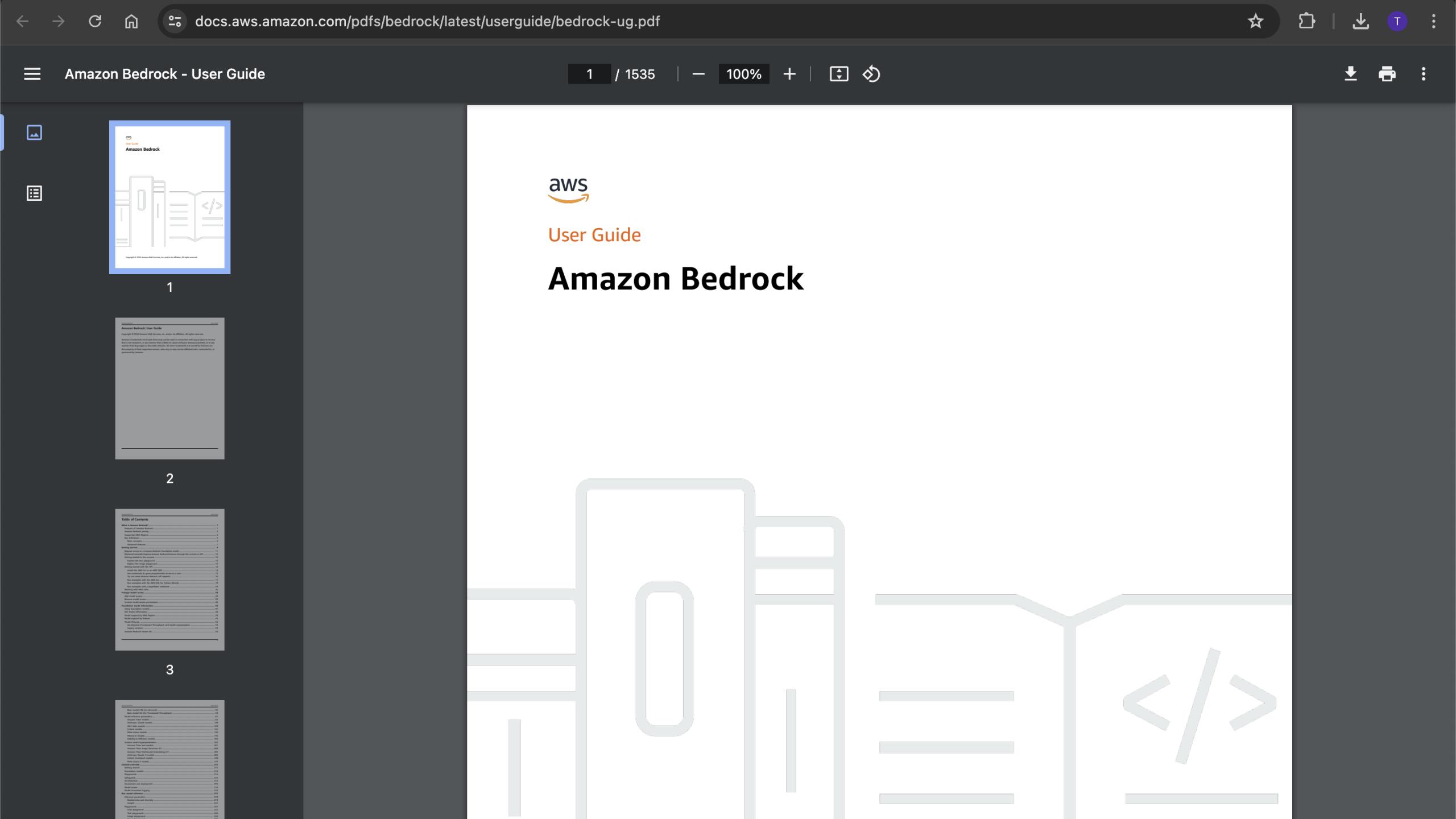
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## 二、知識庫



docs.aws.amazon.com/pdfs/bedrock/latest/userguide/bedrock-ug.pdf

Amazon Bedrock - User Guide

1 / 1535 | - 100% + ⌂ ⌂

1

2

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aws User Guide

# Amazon Bedrock

The diagram features a central vertical column with a large white circle at the top. To the left of this column are several horizontal bars of varying lengths. To the right, there is a vertical line from which two diagonal lines branch outwards, forming a shape reminiscent of brackets or a tree structure. The entire diagram is set against a light gray background.

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S3 ★ Scalable Storage in the Cloud

S3 Glacier ☆ Archive Storage in the Cloud

AWS Snow Family ☆ Large Scale Data Transport

Storage Gateway ☆ Hybrid Storage Integration

See all 8 results ▶

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Feature spotlight S3 feature

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Top K 250

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EC2



VPC



RDS



S3



Support



Amazon SageMaker



AWS DeepRacer



CloudFormation



Storage

# Amazon S3

## Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

### How it works



#### Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

[Create bucket](#)

#### Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)

[View pricing details](#)

#### Resources



Amazon S3 > Buckets > Create bucket

## Create bucket

Buckets are containers for data stored in S3.

### General configuration

#### AWS Region

US West (Oregon) us-west-2

#### Bucket type

General purpose

Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

Directory - New

Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

#### Bucket name

myawsbucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#) 

#### Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Format: s3://bucket/prefix

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Create S3 bucket | S3 | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/s3/bucket/create?region=us-west-2&bucketType=general

Services Search [Option+S] | EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

Amazon S3 > Buckets > Create bucket

## Create bucket Info

Buckets are containers for data stored in S3.

### General configuration

AWS Region  
US West (Oregon) us-west-2

Bucket type Info

General purpose  
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

Directory - New  
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name Info  
**kbbucket-20240727** 

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - *optional*  
Only the bucket settings in the following configuration are copied.  
**Choose bucket**  
Format: s3://bucket/prefix

us-west-2.console.aws.amazon.com/s3/bucket/create?region=us-west-2&bucketType=general

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Add tag

**Default encryption** [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type [Info](#)

Server-side encryption with Amazon S3 managed keys (SSE-S3)  
 Server-side encryption with AWS Key Management Service keys (SSE-KMS)  
 Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the [Storage](#) tab of the [Amazon S3 pricing page](#).

**Bucket Key**

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

Disable  
 Enable

**Advanced settings**

**After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.**

Cancel **Create bucket**

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | S3 buckets | S3 | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/s3/buckets?region=us-west-2&bucketType=general

aws Services Search [Option+S] | EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

Successfully created bucket "kbbucket-20240727" | View details | X

To upload files and folders, or to configure additional bucket settings, choose View details.

Amazon S3 > Buckets

Account snapshot - updated every 24 hours | All AWS Regions | View Storage Lens dashboard

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose buckets | Directory buckets

General purpose buckets (1) | [Info](#) | All AWS Regions

Buckets are containers for data stored in S3.

Find buckets by name | < 1 > | [Settings](#)

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">kbbucket-20240727</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	July 27, 2024, 15:38:19 (UTC+08:00)

us-west-2.console.aws.amazon.com/s3/buckets/kbbucket-20240727?region=us-west-2&bucketType=general&tab=objects

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon S3 > Buckets > kbbucket-20240727

## kbbucket-20240727 [Info](#)

Objects Properties Permissions Metrics Management Access Points

**Objects (0) [Info](#)**

C Copy S3 URI Copy URL Download Open Delete Actions Create folder **Upload**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix < 1 > [⚙️](#)

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				
<a href="#">Upload</a>				

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Upload objects - S3 bucket k | New Tab

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

aws Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon S3 > Buckets > kbbucket-20240727 > Upload

## Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

**Files and folders (0)**

All files and folders in this table will be uploaded.

Find by name

Name	Folder	Type
No files or folders		
You have not chosen any files or folders to upload.		

**Destination** Info

Destination

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

Services Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Oregon WSParticipantRole/Participant @ 1561-5387-8293

Amazon S3 > Buckets > kbbucket-20240727 > Upload

Favorites

- mba
- Applications
- Downloads
- On My Mac

iCloud

- iCloud Drive
- Documents
- Desktop

Shared

Locations

- Network

Media

- Music
- Photos
- Movies

Desktop — iCloud

Name Date Modified Size Kind

bedrock-ug.pdf Today at 3:36 PM 11.8 MB PDF Document

Cancel Open

Destination Info

Destination s3://kbbucket-20240727

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon S3 > Buckets > kbbucket-20240727 > Upload

## Upload [Info](#)

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Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

**Files and folders (1 Total, 11.2 MB)**

All files and folders in this table will be uploaded.

Find by name < 1 >

<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	bedrock-ug.pdf	-	application/pdf

**Destination [Info](#)**

Destination  
<s3://kbbucket-20240727>

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Drag and drop files and folders you want to upload here, or choose Add files or Add folder.

**Files and folders (1 Total, 11.2 MB)**

All files and folders in this table will be uploaded.

Find by name < 1 >

<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	bedrock-ug.pdf	-	application/pdf

**Destination** [Info](#)

Destination  
<s3://kbbucket-20240727>

▶ **Destination details**  
Bucket settings that impact new objects stored in the specified destination.

▶ **Permissions**  
Grant public access and access to other AWS accounts.

▶ **Properties**  
Specify storage class, encryption settings, tags, and more.

Cancel **Upload** ←

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

aws Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Upload succeeded  
View details below.

Close

The information below will no longer be available after you navigate away from this page.

## Summary

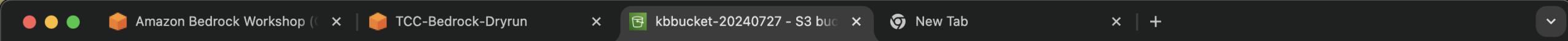
Destination	Succeeded	Failed
s3://kbbucket-20240727	✓ 1 file, 11.2 MB (100.00%)	⋯ 0 files, 0 B (0%)

Files and folders Configuration

### Files and folders (1 Total, 11.2 MB)

Find by name

Name	Folder	Type	Size	Status	Error
bedrock-up	-	application/	11.2 MB	✓ Succeeded	-



us-west-2.console.aws.amazon.com/s3/buckets/kbbucket-20240727?region=us-west-2&bucketType=general&tab=objects

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon S3 > Buckets > kbbucket-20240727

## kbbucket-20240727 [Info](#)

Objects Properties Permissions Metrics Management Access Points

### Objects (1) [Info](#)

C Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix < 1 > [⚙️](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">bedrock-ug.pdf</a>	pdf	July 27, 2024, 15:39:10 (UTC+08:00)	11.2 MB	Standard

AWS Services Search: bedrock Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC

Amazon S3 > kbbuck

Services (1)

Resources New

Documentation (2,676)

Knowledge Articles (12)

Marketplace (386)

Blogs (232)

Events (1)

Tutorials (1)

Find objects

Name

File

Search results for 'bedrock'

Services

Amazon Bedrock ☆  
The easiest way to build and scale generative AI applications with foundation models (F...)

Resources / for a focused search

Introducing resource search  
Enable to show cross-region resources for your account in search results. Takes less than 5 minutes to set up.

Dismiss Go to Resource Explorer

Documentation See all 2,676 results ▶

Amazon Bedrock ↗  
User Guide

Add a data source to your app ↗  
User Guide

Document history for the Amazon Bedrock Studio User Guide ↗  
User Guide

What is Amazon Bedrock Studio? ↗

Create folder Upload

explicitly grant them permissions. Learn

< 1 > | Settings

Storage class ▾

Standard

A screenshot of the AWS Bedrock console homepage. The top navigation bar shows tabs for "Amazon Bedrock Workshop", "TCC-Bedrock-Dryrun", "Amazon Bedrock | us-west-2", and "New Tab". The main content area features the Amazon Bedrock logo and tagline: "The easiest way to build and scale generative AI applications with foundation models (FMs)". A prominent "Try Bedrock" button with an orange "Get started" button is displayed. The left sidebar has a "Machine Learning" section with a red arrow pointing to the three-line menu icon. The top navigation bar also includes a search bar, AWS services like EC2, VPC, RDS, S3, Support, Amazon SageMaker, AWS DeepRacer, and CloudFormation, and a user profile for "WSParticipantRole/Participant @ 1561-5387-8293".

## Overview

Amazon Bedrock is a fully managed service that makes FMs from leading AI startups and Amazon available via an API, so you can choose from a wide range of FMs to find the model that is best suited for your use case. With Bedrock's serverless experience, you can get started quickly, privately customize FMs with your own data, and easily integrate and deploy them into your applications using the AWS tools without having to manage any infrastructure.

## Benefits

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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## Amazon Bedrock

Machine Learning

# Amazon Bedrock

The easiest way to build and scale generative AI applications with foundation models (FMs)

Try Bedrock

Get started

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Benefits



us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/

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The easiest way to build and scale generative AI applications with foundation models (FMs)

Try Bedrock

Get started

## Overview

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## Benefits

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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## Amazon Bedrock

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[Amazon Bedrock](#) > Knowledge bases

Knowledge bases Chat with your document

## Knowledge bases

### How it works

**Upload and chat**  
Quickly query foundation models with context provided by ad-hoc dataset.  
[Chat with your document](#)

**Create a knowledge base**  
To create a knowledge base, specify the location of your data, select an embedding model, and configure a vector store for Bedrock to store and update your embeddings.

**Test the knowledge base**  
Query your knowledge base in the test window. You can get source text chunks, or you can use the chunks to get responses from a foundation model.

**Use the knowledge base**  
Integrate your knowledge base into your application as is or add it to agents.

### Knowledge bases (0)

Edit Delete Test knowledge base Create knowledge base

Find knowledge base

Name	Status	Description	Source files	Creation time	Last sync w...	Last sync
No knowledge base No knowledge base to display						

1 / 1

Red arrow points to the "Create knowledge base" button.

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

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Amazon Bedrock > Knowledge bases > Create knowledge base

Step 1  Provide knowledge base details

Step 2  Configure data source

Step 3  Select embeddings model and configure vector store

Step 4  Review and create

## Provide knowledge base details

### Knowledge base details

**Knowledge base name**

Valid characters are a-z, A-Z, 0-9, \_ (underscore) and - (hyphen). The name can have up to 50 characters.

**Knowledge base description - optional**

Valid characters are a-z, A-Z, 0-9, \_ (underscore) and - (hyphen). The name can have up to 200 characters.

### IAM permissions

Certain permissions are necessary to access other services or perform actions in order to create this resource. For more information, see [service role](#) for Amazon Bedrock

**Runtime role**

Create and use a new service role

Use an existing service role

**Service role name**

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

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### Choose data source

Select the data source that you want to configure in the next step.

 Amazon S3

Object storage service that stores data as objects within buckets.

 Web Crawler - *Preview*

Web page crawler that extracts content from public web pages you are authorized to crawl.

### Third party data sources

 Confluence - *Preview*

Collaborative work-management tool designed for project planning, software development and product management.

 Salesforce - *Preview*

Customer relationship management (CRM) tool for managing support, sales, and marketing data.

 Sharepoint - *Preview*

Collaborative web-based service for working on documents, web pages, web sites, lists, and more.

### Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293 ▾

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Object storage service that stores data as objects within buckets.

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**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel **Next** ↗

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

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Amazon Bedrock > Knowledge bases > Create knowledge base

Step 1: Provide knowledge base details

Step 2: **Configure data source**

Step 3: Select embeddings model and configure vector store

Step 4: Review and create

### Configure data source

Configure for the chosen data source

#### Amazon S3 [Info](#)

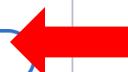
Provide details to connect Amazon Bedrock to your S3 data source.

#### ▼ Data source: knowledge-base-quick-start-cdw4o-data-source [Delete](#)

**Data source name**  
knowledge-base-quick-start-cdw4o-data-source  
Valid characters are a-z, A-Z, 0-9, \_ (underscore) and - (hyphen). The name can have up to 100 characters.

**Data source location**  
 This AWS account  
 Other AWS account

**S3 URI**  
To increase the accuracy and relevance of your responses, add a .metadata.json file containing metadata for your data source to your S3 bucket. [Info](#)

Choose a s3 location [View](#) [Browse S3](#) 

Add customer-managed KMS key for S3 data - *optional*  
If you encrypted your S3 data, provide the KMS key here so that Bedrock can decrypt it.

**Chunking and parsing configurations [Info](#)**  
Choose between default or advanced customization.

Default  
 Custom

## Amazon Bedrock &lt;

Amazon Bedrock &gt; Knowledge bases &gt; Create knowledge base



- Step 1  
Provide knowledge base details
- Step 2  
**Configure data source**

## Configure data source

Configure for the chosen data source



## Choose an archive in S3

## S3 buckets

## Buckets (1/1)

Find S3 bucket

&lt; 1 &gt;

## Name

kbbucket-20240727

## Creation date

2024-07-27T07:38:20.000Z

Cancel

Choose



Choose a s3 location

View

Browse S3

 Add customer-managed KMS key for S3 data - *optional*

If you encrypted your S3 data, provide the KMS key here so that Bedrock can decrypt it.

Chunking and parsing configurations Info

Choose between default or advanced customization.

 Default

Uses default parsing and chunking strategy.

 Custom

Customize the parsing and chunking strategy, including using advanced parsing.

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2 | New Tab

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

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Amazon Bedrock > Knowledge bases > Create knowledge base

Step 1: Provide knowledge base details

Step 2: Configure data source **(Selected)**

Step 3: Select embeddings model and configure vector store

Step 4: Review and create

## Configure data source

Configure for the chosen data source

### Amazon S3 [Info](#)

Provide details to connect Amazon Bedrock to your S3 data source.

#### Data source: knowledge-base-quick-start-cdw4o-data-source [Delete](#)

**Data source name:** knowledge-base-quick-start-cdw4o-data-source  
Valid characters are a-z, A-Z, 0-9, \_ (underscore) and - (hyphen). The name can have up to 100 characters.

**Data source location:**

- This AWS account
- Other AWS account

**S3 URI:** s3://kbbucket-20240727 [View](#) [Browse S3](#)

Add customer-managed KMS key for S3 data - *optional*  
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**Chunking and parsing configurations [Info](#)**  
Choose between default or advanced customization.

Default

Custom

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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Amazon Bedrock < Step 4 Review and create configure vector store

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**Assessment & deployment**

▼ Data source: knowledge-base-quick-start-cdw4o-data-source

**Data source name**  
knowledge-base-quick-start-cdw4o-data-source

Valid characters are a-z, A-Z, 0-9, \_ (underscore) and - (hyphen). The name can have up to 100 characters.

**Data source location**

This AWS account  
 Other AWS account

**S3 URI**  
To increase the accuracy and relevance of your responses, add a .metadata.json file containing metadata for your data source to your S3 bucket. [Info](#)

s3://kbbucket-20240727 [View](#) [Browse S3](#)

Add customer-managed KMS key for S3 data - *optional*  
If you encrypted your S3 data, provide the KMS key here so that Bedrock can decrypt it.

**Chunking and parsing configurations** [Info](#)  
Choose between default or advanced customization.

Default  
Uses default parsing and chunking strategy.

Custom  
Customize the parsing and chunking strategy, including using advanced parsing.

► Advanced settings - *optional*

**Add data source**

You can add 4 more data source(s).

[Cancel](#) [Previous](#) **Next**

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

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Amazon Bedrock > Knowledge bases > Create knowledge base

Step 1: Provide knowledge base details

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Step 3: Select embeddings model and configure vector store

Step 4: Review and create

## Select embeddings model and configure vector store

Choose an embeddings model to convert the data that you will provide in the next step, and provide details for a vector data store in which Bedrock can store, manage, and update your embeddings. The embeddings model and vector store cannot be changed after creation of knowledge base.

### Embeddings model

Select an embeddings model to convert your data into an embedding. Pricing depends on the model. [Learn more](#)

 [Titan Text Embeddings v2](#) 

By Amazon

 [Titan Embeddings G1 - Text v1.2](#) 

By Amazon

 [Embed English v3](#) 

By Cohere

 [Embed Multilingual v3](#) 

By Cohere

### Vector dimensions

Select the vector dimension size for your embeddings model to balance accuracy, cost, and latency. Higher dimensions improves overall accuracy and requires more vector storage. [Learn more](#)

1024

### Vector database

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 [Titan Text Embeddings v2](#)  By Amazon

 [Titan Embeddings G1 - Text v1.2](#)  By Amazon

 [Embed English v3](#)  By Cohere

 [Embed Multilingual v3](#)  By Cohere

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Select the vector dimension size for your embeddings model to balance accuracy, cost, and latency. Higher dimensions improves overall accuracy and requires more vector storage. [Learn more](#)

1024

#### Vector database

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

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Embed English v3 By Cohere

Embed Multilingual v3 By Cohere

Vector dimensions

Select the vector dimension size for your embeddings model to balance accuracy, cost, and latency. Higher dimensions improves overall accuracy and requires more vector storage. [Learn more](#)

1024

Vector database

Let Amazon create a vector store on your behalf or select a previously created store to allow Bedrock to store, update and manage embeddings. You will be billed directly from the vector store provider. [Learn more](#)

Select how you want to create your vector store.

Quick create a new vector store - *Recommended*  
We will create an Amazon OpenSearch Serverless vector store on your behalf. This cost-efficient option is intended only for development and can't be migrated to production workload later. [Learn more](#)

Choose a vector store you have created  
Select Amazon OpenSearch Serverless, Amazon Aurora, MongoDB Atlas, Pinecone or Redis Enterprise Cloud and provide field mappings.

Enable redundancy (active replicas) - *optional*  
The default configuration has active replicas disabled, which is optimal for development workloads. Enable this option if you want to enable redundant active replicas, which may increase storage costs.

Add customer-managed KMS key for Amazon OpenSearch Serverless vector - *optional*  
If you encrypted your OpenSearch data, provide the KMS key here so that Bedrock can decrypt it.

Cancel Previous Next

A red arrow points to the "Next" button at the bottom right of the page.

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Step 1: Provide knowledge base details

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Step 3: Select embeddings model and configure vector store

Step 4: Review and create

## Review and create

### Step 1: Provide details

[Edit](#)

Knowledge base details		
Knowledge base name	Knowledge base description	Service role
knowledge-base-quick-start-6zlo3	—	AmazonBedrockExecutionRoleForKnowledgeBase_6zlo3

### Tags (0)

Key	Value
No tags to display	

### Step 2: Setup up data source

[Edit](#)

Data source: knowledge-base-quick-start-cdw4o-data-source

Data source name	Account ID	S3 URI

Red arrow pointing down to the "Edit" button for Step 2.

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/create-knowledge-base

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**Assessment & deployment**

**Customer-managed KMS Key for S3**

-

**KMS key for transient data storage**

-

**Chunking strategy**

Default

**Parsing strategy**

Default

**Lambda function**

-

**S3 bucket for Lambda function**

-

**Data deletion policy**

Delete

**Step 3: Select embeddings model and configure vector store**

[Edit](#)

### Embeddings model

**Model**  
Titan Text Embeddings v2

**Vector dimensions**  
1024

### Vector store

**Quick create vector store - Recommended**

We will create an Amazon OpenSearch Serverless vector store in your account on your behalf.

[Cancel](#) [Previous](#) [Create knowledge base](#)

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Preparing vector database in Amazon OpenSearch Serverless. This process may take several minutes to complete.

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Review and create

Step 1: Provide details

Knowledge base details

Knowledge base name	knowledge-base-quick-start-6zlo3
Knowledge base description	—
Service role	AmazonBedrockExecutionRoleForKnowledgeBase_6zlo3

Tags (0)

Key	Value
No tags to display	

Step 2: Setup up data source

Edit

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Amazon Bedrock > Knowledge bases > Create knowledge base

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Review and create

Step 1: Provide details

Knowledge base details

Knowledge base name	knowledge-base-quick-start-6zlo3
Knowledge base description	—
Service role	AmazonBedrockExecutionRoleForKnowledgeBase_6zlo3

Tags (0)

Key	Value
No tags to display	

Step 2: Setup up data source

Edit

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Amazon OpenSearch Serverless vector database is ready.

Notifications 0 A 0 ✓ 1 ⓘ 0 ⓘ 2

Review and create

Step 1: Provide knowledge base details

Step 2: Configure data source

Step 3: Select embeddings model and configure vector store

Step 4: Review and create

Knowledge base details

Knowledge base name	knowledge-base-quick-start-6zlo3	Knowledge base description	—
Service role	AmazonBedrockExecutionRoleForKnowledgeBase_6zlo3		

Tags (0)

Key	Value
No tags to display	

Step 2: Setup up data source

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/0

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Knowledge base 'knowledge-base-quick-start-6zlo3' is created successfully. Sync one or more data sources to index your content for searching. Syncing can take from a few minutes to a few hours. [Go to data sources](#)

Amazon Bedrock > Knowledge bases > knowledge-base-quick-start-6zlo3

# knowledge-base-quick-start-6zlo3

Test Delete Edit

### Knowledge base overview

Knowledge base name: knowledge-base-quick-start-6zlo3 Knowledge base ID: GRNV74BLMR

Knowledge base description: — Status: Ready

Service Role: AmazonBedrockExecutionRoleForKnowledgeBase\_6zlo3

Created date: July 27, 2024, 15:51 (UTC+08:00)

Log Deliveries: Configure log deliveries and event logs in the [Edit](#) page.

### Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS

## Test knowledge base

Generate responses Select model

One or more data sources have not been synced. [Go to data sources](#)

Configure your retrieval and responses To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

Please select a model Run

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/0

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Amazon Bedrock > Knowledge bases > knowledge-base-quick-start-6zlo3

# knowledge-base-quick-start-6zlo3

Test Delete Edit

### Knowledge base overview

**Knowledge base name** knowledge-base-quick-start-6zlo3 **Knowledge base ID** GRNV74BLMR

**Knowledge base description** —

**Status** Ready

**Service Role** AmazonBedrockExecutionRoleForKnowledgeBase\_6zlo3

**Created date** July 27, 2024, 15:51 (UTC+08:00)

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Configure log deliveries and event logs in the [Edit](#) page.

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Generate responses [Edit](#)

Select model

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Please select a model [Run](#)



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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/0

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### Data source (1)

No tags

No tags to display

[Manage tags](#)

**Add Edit Delete Sync**

Data sources contain information returned when querying a Knowledge base.

Find data source

< 1 >

Data so...	Status	Data sour...	Account ID	Source
knowledge...	Available	S3	15615387...	s3://k...

**Embeddings model**

Model	Vector dimensions
Titan Text Embeddings v2	1024

**Test knowledge base**

Generate responses

**Select model**

**One or more data sources have not been synced.**

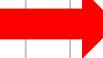
[Go to data sources](#)

**Configure your retrieval and responses**

To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

Please select a model 



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No tags  
No tags to display  
Manage tags

**Data source (1)**  
Data sources contain information returned when querying a Knowledge base.

Add Edit Delete Sync

Find data source < 1 >

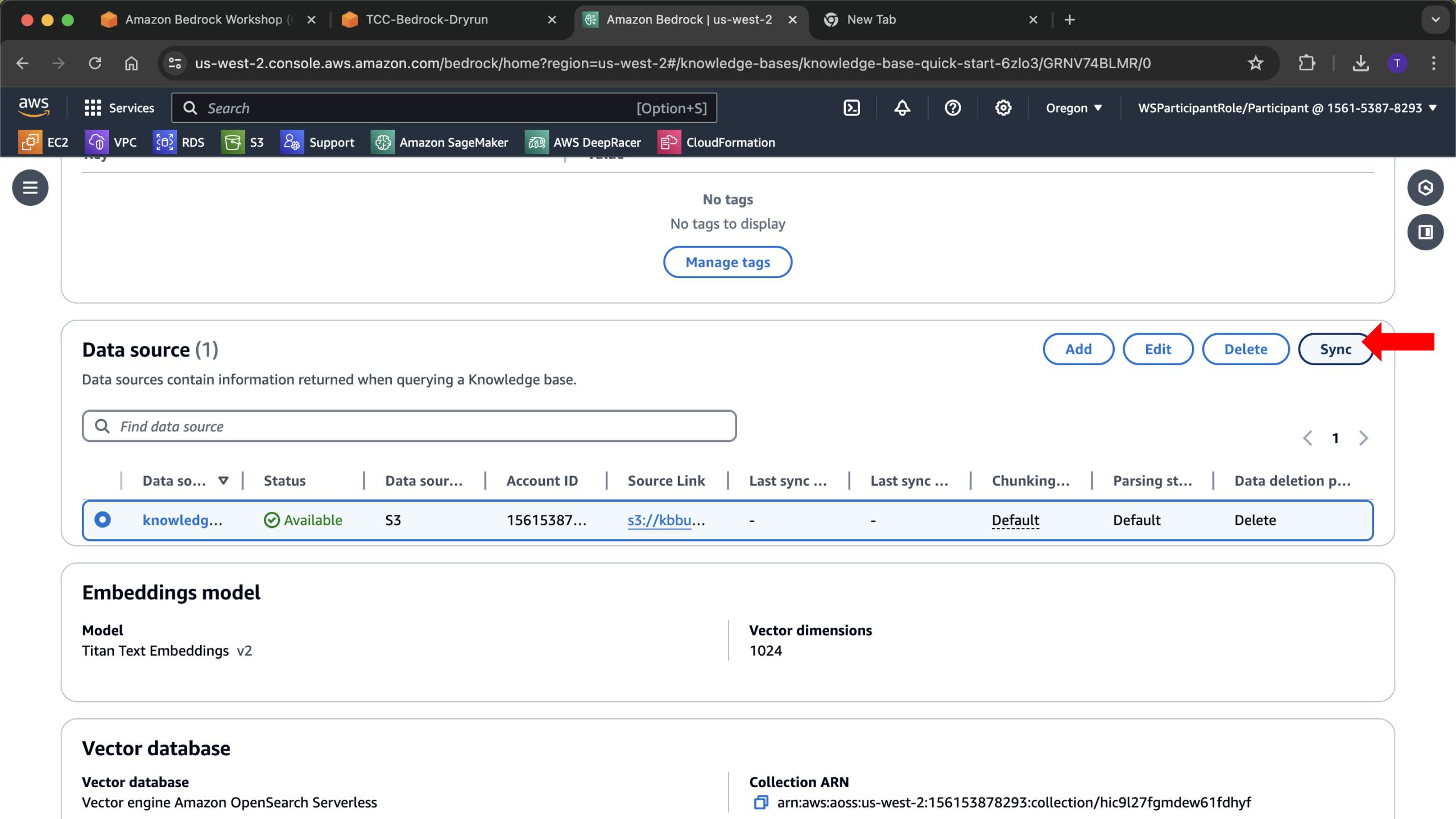
Data so...	Status	Data sour...	Account ID	Source Link	Last sync ...	Last sync ...	Chunking...	Parsing st...	Data deletion p...
knowledge... <input checked="" type="radio"/>	Available <input checked="" type="checkbox"/>	S3	15615387...	s3://kbbu...	-	-	Default	Default	Delete

**Embeddings model**

Model: Titan Text Embeddings v2 | Vector dimensions: 1024

**Vector database**

Vector database: Vector engine Amazon OpenSearch Serverless | Collection ARN: arn:aws:aoss:us-west-2:156153878293:collection/hic9l27fgmdew61fdhyf



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No tags  
No tags to display  
Manage tags

**Data source (1)**  
Data sources contain information returned when querying a Knowledge base.

Add Edit Delete Sync

Find data source < 1 >

Data so...	Status	Data sour...	Account ID	Source Link	Last sync ...	Last sync ...	Chunking...	Parsing st...	Data deletion p...
knowledge... <a href="#">knowledge...</a>	Syncing	S3	15615387...	<a href="s3://kbbu...">s3://kbbu...</a>	July 27, 2...	-	Default	Default	Delete

**Embeddings model**

Model: Titan Text Embeddings v2 | Vector dimensions: 1024

**Vector database**

Vector database: Vector engine Amazon OpenSearch Serverless | Collection ARN: arn:aws:aoss:us-west-2:156153878293:collection/hic9l27fgmdew61fdhyf

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### Data source (1)

No tags

No tags to display

Manage tags

Add Edit Delete Sync

Data sources contain information returned when querying a Knowledge base.

Find data source

Data so... Status Data sour... Account ID Source

knowledge... Syncing	15615387...	s3://k...
-------------------------	-------------	-----------

Embeddings model

Model: Titan Text Embeddings v2 | Vector dimensions: 1024

### Test knowledge base

Generate responses

Select model

The system is syncing your data source. Wait for the sync to complete before starting next sync job. [Go to data sources](#)

Configure your retrieval and responses To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

Please select a model 



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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/0

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### Data source (1)

No tags

No tags to display

[Manage tags](#)

[Add](#) [Edit](#) [Delete](#) [Sync](#)

Data sources contain information returned when querying a Knowledge base.

Find data source

Data so...	Status	Data sour...	Account ID	Source
knowledge...	Available	15615387...	s3://k...	

**Embeddings model**

Model	Vector dimensions
Titan Text Embeddings v2	1024

**Test knowledge base**

Generate responses

[Select model](#)

**Configure your retrieval and responses**

To customize the search strategy for your knowledge base, select the configurations icon .

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### Data source (1)

Add Edit Delete Sync

Data sources contain information returned when querying a Knowledge base.

Find data source

Data so...	Status	Data sour...	Account ID	Source
knowledge...	Available	S3	15615387...	s3://k...

### Embeddings model

Model	Vector dimensions
Titan Text Embeddings v2	1024

**Test knowledge base**

Generate responses

Select model Select model 

**Configure your retrieval and responses**

To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

Please select a model 

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## Select model

1. Category

Model providers

AI Anthropic

2. Model

Models with access (5)

- Claude Instant 1.2 v1.2**  
Text model | Context size = up to 100k
- Claude 2.1 v2.1**  
Text model | Context size = up to 200k
- Claude 2 v2**  
Text model | Context size = up to 100k
- Claude 3 Sonnet v1**  
Text & vision model | Context size = up to 200k
- Claude 3 Haiku v1**  
Text & vision model | Context size = up to 200k

3. Throughput

Provisioned throughput is not supported for knowledge bases.

retrieval and search strategy base, select the on .

base by running a query to disable response generation information stored from your Generate responses above.

Not seeing a model you are interested in? Check out all supported models [here](#)

Cancel Apply Run

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/0

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Select model

1. Category

Model providers

Anthropic

2. Model

Models with access (5)

- Claude Instant 1.2 v1.2  
Text model | Context size = up to 100k
- Claude 2.1 v2.1  
Text model | Context size = up to 200k
- Claude 2 v2  
Text model | Context size = up to 100k
- Claude 3 Sonnet v1  
Text & vision model | Context size = up to 200k
- Claude 3 Haiku v1  
Text & vision model | Context size = up to 200k

3. Throughput

On-demand (ODT)

base by running a query to disable response generation information stored from your Generate responses above.

Not seeing a model you are interested in? Check out all supported models [here](#)

Cancel Apply Run

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- Overview
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- Base models
- Custom models
- Imported models [Preview](#)

Playgrounds

- Chat
- Text
- Image

Safeguards

- Guardrails
- Watermark detection

Builder tools

- Knowledge bases
- Agents

Prompt management [Preview](#)

Amazon Bedrock

retrieval and search strategy base, select the on .

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/0

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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- Claude 3 Haiku v1  
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- Agents

Prompt management [Preview](#)

瑕疵偵測

影片精彩片段

文件解析

文生圖、圖生圖

Artifacts

比較模式

## ▼ 安全防護

圖片浮水印

模型評估

安全圍籬 Guardrail

## ▼ 建構工具

## ▼ 知識庫 (Knowledge Base)

[知識庫 \(Knowledge Base\)](#)

與文件聊天

## ▶ 智能代理

提示詞管理

提示詞工作流

## ▶ 定製模型

## ▶ 開發維運實踐

實驗總結

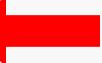
行業實驗資源

## ▼ Content preferences

Language

中文(繁體) ▾

然後輸入要查詢的問題,等待輸出。

1 如何配置 Amazon Bedrock 知識庫? 

輸出如下圖:

 Generate responses**Claude 3 Sonnet v1 | ODT**[Change](#)**Configure your retrieval and responses**To customize the search strategy for your knowledge base, select the configurations icon .

Copied!



## Amazon Bedrock &lt;

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## Playgrounds

[Chat](#)[Text](#)[Image](#)

## Safeguards

[Guardrails](#)[Watermark detection](#)

## Builder tools

[Knowledge bases](#)[Agents](#)[Prompt management](#) [Preview](#)[Prompt flows](#) [Preview](#)

## Assessment &amp; deployment

## Test knowledge base &gt;

 Generate responses**Claude 3 Sonnet v1** | ODT[Change](#)**Configure your retrieval and responses**

To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

如何配置 Amazon Bedrock 知識庫?

Run

## knowledge-base-quick-start-6zlo3

[Test](#)[Delete](#)

## Knowledge base overview

[Edit](#)

## Knowledge base name

knowledge-base-quick-start-6zlo3

## Knowledge base ID

 GNV74BLMR

## Knowledge base description

—

## Status

 Ready

## Service Role

AmazonBedrockExecutionRoleForKnowledgeBase\_6zlo3 

## Created date

July 27, 2024, 15:51 (UTC+08:00)

## Log Deliveries

Configure log deliveries and event logs in the [Edit](#) page.

## Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

## Key

## Value

No tags

No tags to display

[Manage tags](#)

## Amazon Bedrock &lt;

## Getting started

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[Base models](#)[Custom models](#)[Imported models](#) [Preview](#)

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[Guardrails](#)[Watermark detection](#)

## Builder tools

[Knowledge bases](#)[Agents](#)[Prompt management](#) [Preview](#)[Prompt flows](#) [Preview](#)

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Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

[Amazon Bedrock](#) > [Knowledge bases](#) > knowledge-base-quick-start-6zlo3

## knowledge-base-quick-start-6zlo3

[Test](#)[Delete](#)

## Knowledge base overview

[Edit](#)

## Knowledge base name

knowledge-base-quick-start-6zlo3

## Knowledge base ID

 GRNV74BLMR

## Knowledge base description

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如何配置 Amazon Bedrock 知識庫?

 Run

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/0?modelId=a... ☆

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Amazon Bedrock

### Knowledge base overview

**Knowledge base name**: knowledge-base-quick-start-6zlo3

**Knowledge base ID**: GRNV74BLMR

**Knowledge base description**: —

**Status**: Ready

**Service Role**: AmazonBedrockExecutionRoleForKnowledgeBase\_6zlo3

**Created date**: July 27, 2024, 15:51 (UTC+08:00)

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### Tags

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Key	Value
No tags	

No tags to display

[Manage tags](#)

configurations icon .

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要配置 Amazon Bedrock 知識庫,您可以按照以下步驟: 1. 收集源文件並將它們存儲在支持的數據源中,例如 Amazon S3。 2. 在 Amazon Bedrock 控制台中創建一個新的知識庫,提供知識庫名稱、描述和 IAM 角色。 3. 選擇您的數據源並配置連接信息。 4. 選擇一個向量存儲來存儲數據的嵌入向量表示。您可以快速創建一個新的 Amazon OpenSearch Serverless 向量數據庫,或使用現有的向量存儲。 5. 選擇一個模型將您的數據轉換為嵌入向量。 6. 檢查知識庫配置並創建知識庫。 創建完成後,知識庫的狀態將變為"就緒"。[\[1\]](#)[\[2\]](#)[\[3\]](#)[\[4\]](#)[\[5\]](#) 一旦知識庫就緒,您就可以同步數據源以保持內容最新。在控制台中選擇您的知識庫,然後在數據源概覽部分選擇"同步"。[\[6\]](#)

Show source details

Enter your message here ▶ Run

## Amazon Bedrock



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[Knowledge bases](#)[Agents](#)[Prompt management](#) [Preview](#)[Prompt flows](#) [Preview](#)

## Assessment &amp; deployment

## Test Knowledge base

 Generate responses**Claude 3 Sonnet v1** | [ODT](#)[Change](#)**Configure your retrieval and responses**

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## Source details (6)

Each container below shows a chunk that comes from a data source and that relates to your query.

## ▶ Query configurations (1)



## ▼ Source chunk 1



Gather source documents to add to your knowledge base. 2. Store your source documents in a supported data source and configure the connection information to connect to and crawl your data. 3. (Optional if using Amazon S3 to store your source documents) Create a metadata file for each source document to allow for filtering of results during knowledge base query. 4. (Optional) Set up a vector index in a supported vector store to index your data. You can use the Amazon Bedrock console to create an Amazon OpenSearch Serverless vector database for you. 5. Create and configure your knowledge base. 6. Ingest your data by letting knowledge bases generate embeddings with an embeddings model and storing them in a supported vector store. 7. Set up your application or agent to query the knowledge base and return augmented responses. 492

<https://docs.aws.amazon.com/bedrock/latest/userguide/kb-how-it-works.html>

[https://docs.aws.amazon.com/bedrock/latest/APIReference/API\\_agent-runtime\\_RetrieveAndGenerate.html](https://docs.aws.amazon.com/bedrock/latest/APIReference/API_agent-runtime_RetrieveAndGenerate.html)

[https://docs.aws.amazon.com/bedrock/latest/APIReference/API\\_agent-runtime\\_Retrieve.html](https://docs.aws.amazon.com/bedrock/latest/APIReference/API_agent-runtime_Retrieve.html)

<https://docs.aws.amazon.com/bedrock/latest/userguide/data-source>

G 台北 捷運 辦法 pdf

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Tools



臺北大眾捷運股份有限公司

<https://web.metro.taipei>, QRCode [PDF](#) :

## 臺北捷運系統旅客須知

Jun 19, 2024 — 同警察人員強制或護送其離開站、車或大眾**捷運**系統區域：. (一) 違反法令、  
公共秩序、善良風俗或本公司旅客運送章則等各項. 規定。 (二) 有明顯傷害他人 ...



臺北大眾捷運股份有限公司

<https://web.metro.taipei>, TaipeiMetroGuides, T... [PDF](#) :

## 台北捷運營運資訊簡介

攜帶自行車 單程票 開放時段:假日全天,平日10至16時、22時至營運結束。除文湖線各車站、淡水  
站、**台北**車站、忠孝新生站、忠孝 復興站、南京復興站、大安站以外,餘85個車站 ...

2 pages



臺北大眾捷運股份有限公司

<https://web.metro.taipei>, QRCode [PDF](#) :

## 臺北捷運系統營運服務規約

一、營運時間：06:00~24:00. 二、服務內容. (一) 平均班距. 1.主線：. (1) 尖峰時段：. A.淡水  
站－象山站、松山站－新店站、南港展覽館站－.



臺北市政府全球資訊網

<https://www.laws.taipei.gov.tw>, caseatt, 臺北市... [PDF](#) :

## 臺北市大眾捷運系統與地下街設施移設及連通申請自治條例

第四條本自治條例用詞定義如下：. 一移設：將原計畫(指於都市計畫變更書圖註明者)或已. 興建於  
都市計畫道路上之**捷運**或地下街設施改設於. 申請人或都市計畫規定之建築基地內 ...

7 pages

## 三 台北大眾捷運股份有限公司票證作業管理要點修訂意見表

1 / 10 | - 100% + | ☰ ⌂

下載 打印 ⌂



1



2



3

## 臺北捷運系統旅客須知

中華民國八十五年三月二十八日	公 告	修	正
中華民國八十七年十二月二十四日	公 告	修	正
中華民國八十八年十一月三十日	公 告	修	正
中華民國九十一年八月二十一日	公 告	修	正
中華民國九十三年十二月二十四日	公 告	修	正
中華民國九十七年三月二十八日	公 告	修	正
中華民國九十七年六月三日	公 告	修	正
中華民國九十八年三月十二日	公 告	修	正
中華民國一〇三年五月二十七日	公 告	修	正
中華民國一〇四年三月十八日	公 告	修	正
中華民國一〇四年十二月十一日	公 告	修	正
中華民國一〇六年五月十二日	公 告	修	正
中華民國一〇六年十月五日	公 告	修	正
中華民國一〇七年十月二十六日	公 告	修	正
中華民國一一一年三月二十九日	公 告	修	正
中華民國一一二年二月七日	公 告	修	正
中華民國一一二年十一月八日	公 告	修	正
中華民國一一三年六月十三日	公 告	修	正

### 壹、一般規定

一、臺北大眾捷運股份有限公司(以下簡稱本公司)為提供捷運系統旅客安全、可靠、便捷、舒適之服務，特依「臺北市大眾捷運系統旅客運送自治條例」規定訂定本須知，並於車站公告，變更或調整時亦同。

### 二、本須知用語定義如下：

- (一) 捷運範圍：為本公司所經營之大眾捷運系統路網範圍內所有路線、場、站與列車等區域。
- (二) 旅客：指搭乘本公司列車，或持有有效車票並進出乘車處所車站大廳之人。

AWS Services s3 Oregon WSParticipantRole/Participant @ 1561-5387-8293

Amazon Bedrock

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Assessment & deployment

Services (8)

Features (39)

Resources New

Documentation (26,830)

Knowledge Articles (288)

Marketplace (1,850)

Blogs (1,415)

Events (26)

Tutorials (12)

Search results for 's3'

Services

S3 ★ Scalable Storage in the Cloud

S3 Glacier ☆ Archive Storage in the Cloud

AWS Snow Family ☆ Large Scale Data Transport

Storage Gateway ☆ Hybrid Storage Integration

See all 8 results ▶

Features

Imports from S3

DynamoDB feature

Feature spotlight

S3 feature

S3 Access Grants

S3 feature

from a data source and that relates to

your knowledge base. 2. Store your source and configure the and crawl your data. 3. (Optional documents) Create a metadata for filtering of results during set up a vector index in a data. You can use the Amazon OpenSearch Serverless vector store your knowledge base. 6. bases generate embeddings them in a supported vector to query the knowledge base /latest/userguide/kb-how-it-/latest/APIReference/API\_agent-/latest/APIReference/API\_agent-/latest/userguide/data-source-chunk

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | S3 buckets | S3 | us-west-2

us-west-2.console.aws.amazon.com/s3/home?region=us-west-2

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Amazon S3

Buckets Access Grants Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards Storage Lens groups AWS Organizations settings

Feature spotlight 7

AWS Marketplace for S3

### Amazon S3

▶ Account snapshot - updated every 24 hours All AWS Regions

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

[View Storage Lens dashboard](#)

[General purpose buckets](#) [Directory buckets](#)

**General purpose buckets (1)** [Info](#) All AWS Regions

Buckets are containers for data stored in S3.

[Find buckets by name](#)

[Create bucket](#)

Name	AWS Region	IAM Access Analyzer	Creation date
kbbucket-20240727	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	July 27, 2024, 15:38:19 (UTC+08:00)

A red arrow points to the bucket name "kbbucket-20240727".

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | kbbucket-20240727 - S3 bucket

us-west-2.console.aws.amazon.com/s3/buckets/kbbucket-20240727?region=us-west-2&bucketType=general&tab=objects

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Amazon S3

Buckets

- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- Storage Lens groups
- AWS Organizations settings

Feature spotlight 7

AWS Marketplace for S3

Amazon S3 > Buckets > kbbucket-20240727

# kbbucket-20240727 [Info](#)

Objects Properties Permissions Metrics Management Access Points

### Objects (1) [Info](#)

[Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#)

[Upload](#) 

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">bedrock-ug.pdf</a>	pdf	July 27, 2024, 15:39:10 (UTC+08:00)	11.2 MB	Standard

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Upload objects - S3 bucket k... +

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon S3 > Buckets > kbbucket-20240727 > Upload

## Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

**Files and folders (0)**

All files and folders in this table will be uploaded.

Find by name < 1 >

Name	Folder	Type
No files or folders		
You have not chosen any files or folders to upload.		

**Destination** Info

Destination

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon S3 > Buckets > kbbucket-20240727 > Upload

Favorites mba Applications Downloads On My Mac

iCloud iCloud Drive Shared

Locations Network

Media Music Photos

Destination Info

Destination -7://kbbucket-20240727

Workshop\_KB

Name Size Kind Date Added

Regulations for Use of the Taipei Metro System-Chinese.pdf 226 KB PDF Document Today at 3:58 PM

Cancel Open

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with links for EC2, VPC, RDS, S3, Support, Amazon SageMaker, AWS DeepRacer, and CloudFormation. Below that is a search bar and a 'Services' dropdown. The main area shows a breadcrumb trail: 'Amazon S3 > Buckets > kbbucket-20240727 > Upload'. On the left, there's a sidebar with sections for Favorites (mba), Applications, Downloads, and On My Mac; iCloud (iCloud Drive, Documents, Desktop, Shared); Locations (Network); and Media (Music, Photos). A 'Destinations' section at the bottom has a 'Info' link. A large central window displays a file selection dialog. It shows a folder path 'Workshop\_KB' and a table with columns: Name, Size, Kind, and Date Added. One file is listed: 'Regulations for Use of the Taipei Metro System-Chinese.pdf' (226 KB, PDF Document, Today at 3:58 PM). At the bottom right of the dialog are 'Cancel' and 'Open' buttons.

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Upload objects - S3 bucket k... +

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

Services Search [Option+S] | AWS | EC2 | VPC | RDS | S3 | Support | Amazon SageMaker | AWS DeepRacer | CloudFormation | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

Amazon S3 > Buckets > kbbucket-20240727 > Upload

## Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (1 Total, 220.4 KB)			
All files and folders in this table will be uploaded.			
<input type="checkbox"/> <a href="#">Find by name</a>		Remove Add files Add folder	
<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	Regulations for Use of the Taipei Metro ...	-	application/pdf

## Destination [Info](#)

Destination  
<s3://kbbucket-20240727>

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Drag and drop files and folders you want to upload here, or choose Add files or Add folder.

**Files and folders (1 Total, 220.4 KB)**

All files and folders in this table will be uploaded.

Find by name < 1 >

<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	Regulations for Use of the Taipei Metro ...	-	application/pdf

**Destination** [Info](#)

Destination  
<s3://kbbucket-20240727>

▶ **Destination details**  
Bucket settings that impact new objects stored in the specified destination.

▶ **Permissions**  
Grant public access and access to other AWS accounts.

▶ **Properties**  
Specify storage class, encryption settings, tags, and more.

Cancel **Upload** ←

us-west-2.console.aws.amazon.com/s3/upload/kbbucket-20240727?region=us-west-2&bucketType=general

aws Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 1561-5387-8293

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Upload succeeded  
View details below.

## Upload: status

*The information below will no longer be available after you navigate away from this page.*

### Summary

Destination	Succeeded	Failed
s3://kbbucket-20240727	✓ 1 file, 220.4 KB (100.00%)	⋯ 0 files, 0 B (0%)

**Files and folders** Configuration

#### Files and folders (1 Total, 220.4 KB)

Find by name < 1 >

Name	Folder	Type	Size	Status	Error
Regulations	-	application/	220.4 KB	✓ Succeeded	-

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases

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[Knowledge bases](#) Chat with your document

## Knowledge bases

### How it works

**Upload and chat**  
Quickly query foundation models with context provided by ad-hoc dataset.  
[Chat with your document](#)

**Create a knowledge base**  
To create a knowledge base, specify the location of your data, select an embedding model, and configure a vector store for Bedrock to store and update your embeddings.

**Test the knowledge base**  
Query your knowledge base in the test window. You can get source text chunks, or you can use the chunks to get responses from a foundation model.

**Use the knowledge base**  
Integrate your knowledge base into your application as is or add it to agents.

### Knowledge bases (1)

Edit Delete Test knowledge base Create knowledge base

Find knowledge base

Name	Status	Description	Source files	Creation time	Last sync w...	Last sync
knowledge-b...	Ready	-	1	July 27, 2024, ...	-	July 27, 2024, ...

1 / 1

A red arrow points to the "knowledge-b..." entry in the table, highlighting the newly created knowledge base.

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1

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### Amazon Bedrock > Knowledge bases > knowledge-base-quick-start-6zlo3

## knowledge-base-quick-start-6zlo3

Test Delete Edit

#### Knowledge base overview

Knowledge base name: knowledge-base-quick-start-6zlo3

Knowledge base ID: GRNV74BLMR

Knowledge base description: —

Status: Ready

Service Role: AmazonBedrockExecutionRoleForKnowledgeBase\_6zlo3

Created date: July 27, 2024, 15:51 (UTC+08:00)

#### Log Deliveries

Configure log deliveries and event logs in the [Edit](#) page.

#### Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value
No tags	

Please select a model Run

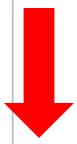
### Test knowledge base

Generate responses  

Select model

**Configure your retrieval and responses**  
To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.



Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1

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### Data source (1)

Add Edit Delete Sync

Data sources contain information returned when querying a Knowledge base.

Find data source

Data so...	Status	Data sour...	Account ID	Source
knowledge...	Available	S3	15615387...	s3://k...

**Embeddings model**

Model: Titan Text Embeddings v2 | Vector dimensions: 1024

**Vector database**

Vector database: Vector engine Amazon OpenSearch Serverless | Collection ARN: arn:aws:aoss:us-west-2:156153878293:collection/hic9l27fgm dew61fdhyf

Vector index name: bedrock-knowledge-base-default-index | Vector field name: bedrock-knowledge-base-default-vector

### Test knowledge base

Generate responses

Select model

**Configure your retrieval and responses**

To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

Please select a model 

Red arrow pointing to the "knowledge..." row in the Data source table.

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1

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### Data source (1)

Add Edit Delete Sync

Data sources contain information returned when querying a Knowledge base.

Find data source

Data so...	Status	Data sour...	Account ID	Source
knowledge...	Syncing	S3	15615387...	s3://k...

### Embeddings model

Model: Titan Text Embeddings v2 Vector dimensions: 1024

### Vector database

Vector database: Vector engine Amazon OpenSearch Serverless Collection ARN: arn:aws:aoss:us-west-2:156153878293:collection/hic9l27fgm dew61fdhyf

Vector index name: bedrock-knowledge-base-default-index Vector field name: bedrock-knowledge-base-default-vector

### Test knowledge base

Generate responses Select model

The system is syncing your data source. Wait for the sync to complete before starting next sync job. [Go to data sources](#)

Configure your retrieval and responses To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

Please select a model Run

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1

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### Data source (1)

Add Edit Delete Sync

Data sources contain information returned when querying a Knowledge base.

Find data source

Data so...	Status	Data sour...	Account ID	Source
knowledge...	Available	S3	15615387...	s3://k...

### Embeddings model

Model: Titan Text Embeddings v2 Vector dimensions: 1024

### Vector database

Vector database: Vector engine Amazon OpenSearch Serverless Collection ARN: arn:aws:aoss:us-west-2:156153878293:collection/hic9l27fgm dew61fdhyf

Vector index name: bedrock-knowledge-base-default-index Vector field name: bedrock-knowledge-base-default-vector

### Test knowledge base

Generate responses  Select model 

**Select model**

Configure your retrieval and responses To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

Please select a model 

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1

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## Select model

1. Category

Model providers

AI Anthropic

2. Model

Models with access (5)

- Claude Instant 1.2 v1.2**  
Text model | Context size = up to 100k
- Claude 2.1 v2.1**  
Text model | Context size = up to 200k
- Claude 2 v2**  
Text model | Context size = up to 100k
- Claude 3 Sonnet v1**  
Text & vision model | Context size = up to 200k
- Claude 3 Haiku v1**  
Text & vision model | Context size = up to 200k

3. Throughput

Provisioned throughput is not supported for knowledge bases.

retrieval and search strategy base, select the on .

base by running a query to disable response generation information stored from your Generate responses above.

Not seeing a model you are interested in? Check out all supported models [here](#)

Cancel Apply Run

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1

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## Select model

1. Category

Model providers

Anthropic

2. Model

Models with access (5)

- Claude Instant 1.2 v1.2  
Text model | Context size = up to 100k
- Claude 2.1 v2.1  
Text model | Context size = up to 200k
- Claude 2 v2  
Text model | Context size = up to 100k
- Claude 3 Sonnet v1  
Text & vision model | Context size = up to 200k
- Claude 3 Haiku v1  
Text & vision model | Context size = up to 200k

3. Throughput

On-demand (ODT)

base by running a query to disable response generation information stored from your Generate responses above.

Not seeing a model you are interested in? Check out all supported models [here](#)

Cancel Apply Run

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Retrieval and search strategy

Edge base, select the option .

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us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1?modelId=a... ☆

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### Amazon Bedrock > Knowledge bases > knowledge-base-quick-start-6zlo3

## knowledge-base-quick-start-6zlo3

Test Delete Edit

#### Knowledge base overview

Knowledge base name: knowledge-base-quick-start-6zlo3

Knowledge base ID: GRNV74BLMR

Knowledge base description: —

Status: Ready

Service Role: AmazonBedrockExecutionRoleForKnowledgeBase\_6zlo3

Created date: July 27, 2024, 15:51 (UTC+08:00)

#### Log Deliveries

Configure log deliveries and event logs in the [Edit](#) page.

#### Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value
No tags	

Enter your message here ▶ Run

### Test knowledge base

Generate responses

Claude 3 Sonnet v1 | ODT Change

Configure your retrieval and responses To customize the search strategy for your knowledge base, select the configurations icon .

Test your knowledge base by running a query to generate responses. To disable response generation and only see retrieved information stored from your vector store, turn off Generate responses above.

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1?modelId=a... ☆

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Assessment & deployment

### Amazon Bedrock > Knowledge bases > knowledge-base-quick-start-6zlo3

## knowledge-base-quick-start-6zlo3

Test Delete Edit

#### Knowledge base overview

Knowledge base name: knowledge-base-quick-start-6zlo3

Knowledge base ID: GRNV74BLMR

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Key	Value
No tags No tags to display	

Manage tags

#### Test knowledge base

Generate responses

Claude 3 Sonnet v1 | QDT

Change

Configure your retrieval and responses  
To customize the search strategy for your knowledge base, select the configurations icon .

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在台北捷運內可不可以溜直排輪？

Run

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1?modelId=a... ☆

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 1561-5387-8293

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Assessment & deployment

### knowledge-base-quick-start-6zlo3

Test Delete Edit

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No tags	

No tags to display

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Generate responses

Claude 3 Sonnet v1 | QDT

Change

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在台北捷運內可不可以溜直排輪？ Run

Amazon Bedrock Workshop | TCC-Bedrock-Dryrun | Amazon Bedrock | us-west-2

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/knowledge-bases/knowledge-base-quick-start-6zlo3/GRNV74BLMR/1?modelId=a... ☆

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### Amazon Bedrock > Knowledge bases > knowledge-base-quick-start-6zlo3

## knowledge-base-quick-start-6zlo3

Test Delete Edit

#### Knowledge base overview

Knowledge base name: knowledge-base-quick-start-6zlo3

Knowledge base ID: GRNV74BLMR

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Service Role: AmazonBedrockExecutionRoleForKnowledgeBase\_6zlo3

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#### Log Deliveries

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#### Tags

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value
No tags	

Enter your message here ▶ Run

### Test knowledge base

Generate responses

Claude 3 Sonnet v7 | ODT Change

Configure your retrieval and responses To customize the search strategy for your knowledge base, select the configurations icon .

在台北捷運內可不可以溜直排輪？

根據台北捷運系統旅客須知的規定,在捷運範圍內是不允許使用直排輪的。具體來說,第8條明確規定"在捷運範圍內,不得有下列行為:(一)使用直排輪、溜冰鞋、滑板、滑板車或其他類似器材。"因此,在台北捷運內是禁止溜直排輪的。[\[1\]](#)

Show source details >

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## Assessment &amp; deployment

## Test Knowledge base

 Generate responses**Claude 3 Sonnet v1** | [ODT](#)[Change](#)**Configure your retrieval and responses**

To customize the search strategy for your knowledge base, select the configurations icon



在台北捷運內可不可以溜直排輪？

 根據台北捷運系統旅客須知的規定,在捷運範圍內是不允許使用直排輪的。具體來說,第8條明確規定"在捷運範圍內,不得有下列行為:(一)使用直排輪、溜冰鞋、滑板、滑板車或其他類似器材。"因此,在台北捷運內是禁止溜直排輪的。[\[1\]](#)[< Hide source details](#)

## Source details (1)

Each container below shows a chunk that comes from a data source and that relates to your query.

## ▶ Query configurations (1)



## ▼ Source chunk 1



(七) 其他經本公司公告禁止之事項。八、在捷運範圍內，不得有下列行為：(一) 使用直排輪、溜冰鞋、滑板、滑板車或其他類似器材。

(二) 推擠或影響自己或他人安全。(三) 坐、臥於車廂、車站地板、設備或設施上。北捷024184臺北捷運系統旅客須知 3 (四) 吸菸。

(五) 其他行為有造成大眾捷運系統設備損壞、運轉障礙或構成危險之虞。九、在捷運範圍內為下列行為，應向本公司申請許可後，始得為之：(一) 聚眾講演、播放音響、演奏樂器或其他干擾之行為。(二) 張貼、塗抹、刻畫任何文字、圖畫或其他類似東西於各項設施及建築物上。(三) 於車站或車廂內，照相、拍攝或攝影，而妨礙他人或系統安全之虞者。(四) 非營運時間內，於車站或車廂內逗留。(五) 向他人為傳教、市場調查或其他類似行為。(六) 散發報紙、傳單、廣告物或宣傳品。(七) 使用車站、車廂內未開放使用之電源插座。十、在捷運範圍內，電扶梯之搭乘規定及注意事項如下：

(一) 年長及行動不便者宜改搭電梯。(二) 須遵循電扶梯方向搭乘，握好扶手、站穩踏階，勿倚靠側板。(三) 禁止於電扶梯上奔跑、嬉戲、跳躍、跨越兩側護欄或其他危險行為。(四) 禁止攜帶大型物品搭乘電扶梯。貳、車票使用規定十一、車票種類：(一) 單程票：提供旅客單次使用之車票。(二) 團體票：提供旅客 2人以上，全程同行且起訖站相同使用之車票。(三) 定期票：提供旅客於一定期間內使用之車票。(四) 回數票：可供旅客於一定區間或不限區間搭乘一定次數之車票。(五) 儲值卡：各發行機

<https://reurl.cc/4dd0RY>

pgvector-dryrun-20240905 x Verify your AWS Training and x | +

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US

Paused Finish update

aws workshop studio

pgvector-dryrun-20240905

Event ends in 2 days 19 hours 1 minute.

Event dashboard > Generative AI Use Cases with Aurora PostgreSQL and pgvector

# pgvector-dryrun-20240905

**Event information**

Start time 9/05/2024 04:06 PM	Duration 72 hours	Accessible regions us-west-2, us-east-1
Description pgvector-dryrun-20240905		

**Workshop**

Title Generative AI use cases with Aurora PostgreSQL and pgvector	Complexity level 300	AWS services Amazon Aurora, Amazon Bedrock, Amazon SageMaker	Topics Databases, Generative AI
Description Learn how to use the PostgreSQL extension pgvector to enable Generative AI use cases in your Aurora PostgreSQL database.			

**Event Outputs (0)**

[Open AWS console \(us-west-2\) ↗](#)

[Get AWS CLI credentials](#)

Get started >

AWS account access

AWS Documentation Homepage ↗

pgvector-dryrun-20240905 x Console Home | Console Home x +

us-west-2.console.aws.amazon.com/console/home?region=us-west-2

Paused Finish update

aws Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 0639-0036-9773

# Console Home Info

Reset to default layout + Add widgets

## Recently visited Info

No recently visited services

Explore one of these commonly visited AWS services.

EC2 S3 RDS Lambda

View all services

## Applications (0) Info

Region: US West (Oregon)

us-west-2 (Current Region) Find applications

Create application

No applications

Get started by creating an application.

Go to myApplications

## Welcome to AWS

Getting started with AWS 

Learn the fundamentals and best practices for AWS services.

## AWS Health Info

## Cost and usage Info

Current month costs  Access denied

Cost breakdown  Access denied

## Console

Services (1)

Recent

Resources **New**

Documentation (3,510)

Cloud

Knowledge Articles (12)

Marketplace (471)

Blogs (279)

Events (1)

Tutorials (1)

Search results for 'bedrock'

## Services



Amazon Bedrock ☆

The easiest way to build and scale generative AI applications with foundation models (F...)

## Resources / for a focused search



Introducing resource search

To search for resources, Resource Explorer must be active in at least one AWS Region and you must have permission to use the default view in the account. Learn more [\[ \]](#)

Dismiss

## Documentation

See all 3,510 results [▶](#)Amazon Bedrock [\[ \]](#)

User Guide

Add a data source to your app [\[ \]](#)

User Guide

Document history for the Amazon Bedrock Studio User Guide [\[ \]](#)

User Guide

What is Amazon Bedrock Studio? [\[ \]](#)

Access denied

Default layout

+ Add widgets

Create application

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Originating account

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⋮

s

⋮

breakdown

s denied

Welcome



get the most out of AWS.

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 0639-0036-9773

Machine Learning

# Amazon Bedrock

The easiest way to build and scale generative AI applications with foundation models (FMs)

Try Bedrock

Get started



## Overview

Amazon Bedrock is a fully managed service that makes FMs from leading AI startups and Amazon available via an API, so you can choose from a wide range of FMs to find the model that is best suited for your use case. With Bedrock's serverless experience, you can get started quickly, privately customize FMs with your own data, and easily integrate and deploy them into your applications using the AWS tools without having to manage any infrastructure.

## Benefits

pgvector-dryrun-20240905 x Amazon Bedrock x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/

Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 0639-0036-9773

## Amazon Bedrock

Machine Learning

# Amazon Bedrock

The easiest way to build and scale generative AI applications with foundation models (FMs)

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### Overview

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### Benefits

Guardrails

Watermark detection

Getting started

- Overview
- Examples
- Providers

Foundation models

- Base models
- Custom models
- Imported models [Preview](#)

Playgrounds

- Chat
- Text
- Image

Builder tools

- Prompt management [Preview](#)
- Knowledge bases
- Agents
- Prompt flows [Preview](#)

Safeguards

- Guardrails
- Watermark detection

pgvector-dryrun-20240905 x Amazon Bedrock x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/

Services Search [Option+S] Image

Machine Learning

# Amazon Bedrock

The easiest way to build and scale generative AI applications with foundation models (FMs)

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## Overview

Amazon Bedrock is a fully managed service that makes FMs from leading AI startups and Amazon available via an API, so you can choose from a wide range of FMs to find the model that is best suited for your use case. With Bedrock's serverless experience, you can get started quickly, privately customize FMs with your own data, and easily integrate and deploy them into your applications using the AWS tools without having to manage any infrastructure.

## Benefits

Model access 3 new ←

Bedrock Studio Preview

Builder tools

- Prompt management [Preview](#)
- Knowledge bases
- Agents
- Prompt flows [Preview](#)

Safeguards

- Guardrails
- Watermark detection

Inference

- Provisioned Throughput
- Batch inference [New](#)
- Cross-region inference [New](#)

Assessment

- Model Evaluation

User guide [User guide](#)

Bedrock Service Terms [Bedrock Service Terms](#)

Bedrock configurations

- Model access 3 new ←
- Bedrock Studio [Preview](#)

pgvector-dryrun-20240905 x Amazon Bedrock x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

Paused Finish update

AWS Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 0639-0036-9773

## Amazon Bedrock

Getting started

- Overview
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- Text
- Image

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- Prompt management [Preview](#)
- Knowledge bases
- Agents
- Prompt flows [Preview](#)

Safeguards

- Guardrails
- Watermark detection

### Amazon Bedrock > Model access

#### What is Model access?

To use Bedrock, account users with the correct [IAM Permissions](#) must enable access to available Bedrock foundation models (FMs). View all [Bedrock Model Terms](#) for [Bedrock FMs](#).

[Modify model access](#)

Visit [Amazon Bedrock Quotas](#) for a quick guide to the default quotas and limits that apply to Amazon Bedrock.

#### Base models (36)

Not seeing a model you're interested in? Check out all supported models by region [here](#).

Find model Group by provider ▾

Models	Access status	Modality	EULA
▼ Amazon (7)	6/7 access granted		
Titan Embeddings G1 - Text	<span>Access granted</span>	Embedding	<a href="#">EULA</a>
Titan Text G1 - Lite	<span>Access granted</span>	Text	<a href="#">EULA</a>
Titan Text G1 - Express	<span>Access granted</span>	Text	<a href="#">EULA</a>
Titan Image Generator G1 v2	<span>Available to request</span>	Image	<a href="#">EULA</a>
Titan Image Generator G1	<span>Access granted</span>	Image	<a href="#">EULA</a>

pgvector-dryrun-20240905 x Amazon Bedrock x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

Paused Finish update

Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 0639-0036-9773

Amazon Bedrock > Model access > Manage model access

Step 1  
Edit model access  
Step 2  
Review and submit

## Edit model access

### Base models (0/36)

Not seeing a model you're interested in? Check out all supported models by region [here](#).

Find model Group by provider ▾

Models	Access status	Modality	EULA
▼ Amazon (7)	6/7 access granted		
Titan Embeddings G1 - Text	Access granted	Embedding	<a href="#">EULA</a>
Titan Text G1 - Lite	Access granted	Text	<a href="#">EULA</a>
Titan Text G1 - Express	Access granted	Text	<a href="#">EULA</a>
Titan Image Generator G1 v2	Available to request	Image	<a href="#">EULA</a>
Titan Image Generator G1	Access granted	Image	<a href="#">EULA</a>
Titan Multimodal Embeddings G1	Access granted	Embedding	<a href="#">EULA</a>
Titan Text Embeddings V2	Access granted	Embedding	<a href="#">EULA</a>
▼ Anthropic (6)	0/6 access granted		
Claude 3.5 Sonnet	Available to request	Text & Vision	<a href="#">EULA</a>

[Collapse all](#)



Screenshot of the AWS Bedrock console showing a list of available models. A red arrow points to the 'Anthropic' section.

The page title is "us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess".

Model access status:

- Titan Image Generator GT v2: Available to request
- Titan Image Generator G1: Access granted
- Titan Multimodal Embeddings G1: Access granted
- Titan Text Embeddings V2: Access granted
- Anthropic (6)**: 0/6 access granted
  - Claude 3.5 Sonnet: Available to request
  - Claude 3 Opus: Available to request
  - Claude 3 Sonnet: Available to request
  - Claude 3 Haiku: Available to request
  - Claude: Available to request
  - Claude Instant: Available to request
- Cohere (6)**: 0/6 access granted
  - Command R+: Available to request
  - Command R: Available to request
  - Embed English: Available to request
  - Embed Multilingual: Available to request
  - Command: Available to request
  - Command Light: Available to request

Other UI elements include a search bar, a sidebar menu, and a top navigation bar with tabs for AWS services like Cloud9 and Bedrock.

Model	Status	Type	EULA
Titan Image Generator GT v2	Available to request	Image	<a href="#">EULA</a>
Titan Image Generator G1	Access granted	Image	<a href="#">EULA</a>
Titan Multimodal Embeddings G1	Access granted	Embedding	<a href="#">EULA</a>
Titan Text Embeddings V2	Access granted	Embedding	<a href="#">EULA</a>
<b>Anthropic (6)</b>	0/6 access granted		
Claude 3.5 Sonnet	Available to request	Text & Vision	<a href="#">EULA</a>
Claude 3 Opus	Available to request	Text & Vision	<a href="#">EULA</a>
Claude 3 Sonnet	Available to request	Text & Vision	<a href="#">EULA</a>
Claude 3 Haiku	Available to request	Text & Vision	<a href="#">EULA</a>
Claude	Available to request	Text	<a href="#">EULA</a>
Claude Instant	Available to request	Text	<a href="#">EULA</a>
<b>Cohere (6)</b>	0/6 access granted		
Command R+	Available to request	Text	<a href="#">EULA</a>
Command R	Available to request	Text	<a href="#">EULA</a>
Embed English	Available to request	Embedding	<a href="#">EULA</a>
Embed Multilingual	Available to request	Embedding	<a href="#">EULA</a>
Command	Available to request	Text	<a href="#">EULA</a>
Command Light	Available to request	Text	<a href="#">EULA</a>



Services

Search [Option+S]



Oregon

WSParticipantRole/Participant @ 0639-0036-9773



<input type="checkbox"/>	Llama 3 8B Instruct	<span>Available to request</span>	Text	EULA
<input type="checkbox"/>	Llama 3 70B Instruct	<span>Available to request</span>	Text	EULA
<input checked="" type="checkbox"/>	Llama 2 Chat 13B	<span>Unavailable</span>	Text	EULA
<input checked="" type="checkbox"/>	Llama 2 Chat 70B	<span>Unavailable</span>	Text	EULA
<input checked="" type="checkbox"/>	Llama 2 13B	<span>Unavailable</span>	Text	EULA
<input checked="" type="checkbox"/>	Llama 2 70B	<span>Unavailable</span>	Text	EULA
<input type="checkbox"/>	▼ Mistral AI (4)	0/4 access granted		
<input type="checkbox"/>	Mistral Large 2 (24.07)	<span>Available to request</span>	Text	EULA
<input type="checkbox"/>	Mistral 7B Instruct	<span>Available to request</span>	Text	EULA
<input type="checkbox"/>	Mixtral 8x7B Instruct	<span>Available to request</span>	Text	EULA
<input type="checkbox"/>	Mistral Large (24.02)	<span>Available to request</span>	Text	EULA
<input type="checkbox"/>	▼ Stability AI (4)	0/4 access granted		
<input type="checkbox"/>	SD3 Large 1.0	<span>Available to request</span>	Image	EULA
<input type="checkbox"/>	Stable Image Core 1.0	<span>Available to request</span>	Image	EULA
<input type="checkbox"/>	SD3 Ultra 1.0	<span>Available to request</span>	Image	EULA
<input type="checkbox"/>	SDXL 1.0	<span>Available to request</span>	Image	EULA

Cancel

Next



- Step 1  
Edit model access
- Step 2  
**Review and submit**



## Review and submit

### Step 1: Edit model access

[Edit](#)

#### Model access modifications (6)

Models	Modifications
Claude 3.5 Sonnet	Request access
Claude 3 Opus	Request access
Claude 3 Sonnet	Request access
Claude 3 Haiku	Request access
Claude	Request access
Claude Instant	Request access

#### Terms

By selecting Submit, you are requesting access to the selected third party models through the AWS Marketplace. By doing so, you agree to the seller's pricing terms and End User License Agreements (EULA), and the [Bedrock Service Terms](#). You also agree and acknowledge that AWS may share information about this transaction with the respective sellers, in accordance with the [AWS Privacy Notice](#).

AWS will issue invoices and collect payments from you on behalf of the seller through your AWS account. Your use of AWS services is subject to the [AWS Customer Agreement](#) or other agreements with AWS governing your use of such services.

[Cancel](#)[Previous](#)[Submit](#)

pgvector-dryrun-20240905 x Amazon Bedrock x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

Paused Finish update

Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 0639-0036-9773

Amazon Bedrock

Getting started

- Overview
- Examples
- Providers

Foundation models

- Base models
- Custom models
- Imported models [Preview](#)

Playgrounds

- Chat
- Text
- Image

Builder tools

- Prompt management [Preview](#)
- Knowledge bases
- Agents
- Prompt flows [Preview](#)

Safeguards

- Guardrails
- Watermark detection

Notifications (1) ▲ 0 ○ 0 ⓘ 1 ⏺ 0

Amazon Bedrock > Model access

## What is Model access?

To use Bedrock, account users with the correct [IAM Permissions](#) must enable access to available Bedrock foundation models (FMs). View all [Bedrock Model Terms](#) for [Bedrock FMs](#).

[Modify model access](#)

Visit [Amazon Bedrock Quotas](#) for a quick guide to the default quotas and limits that apply to Amazon Bedrock.

## Base models (36)

Not seeing a model you're interested in? Check out all supported models by region [here](#).

[Find model](#) Group by provider

Models	Access status	Modality	EULA
▼ Amazon (7)	6/7 access granted		
Titan Embeddings G1 - Text	<span>Access granted</span>	Embedding	<a href="#">EULA</a>
Titan Text G1 - Lite	<span>Access granted</span>	Text	<a href="#">EULA</a>

X

Red arrows point to the close button on the top right of the notification bar and the close button on the top right corner of the main content area.

pgvector-dryrun-20240905 x Amazon Bedrock x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/bedrock/home?region=us-west-2#/modelaccess

Paused Finish update

aws Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 0639-0036-9773

Amazon Bedrock

Getting started

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- Imported models [Preview](#)

Playgrounds

- Chat
- Text
- Image

Builder tools

- Prompt management [Preview](#)
- Knowledge bases
- Agents
- Prompt flows [Preview](#)

Safeguards

- Guardrails
- Watermark detection

Model access updates submitted

It may take several minutes to receive or remove access to models. Meanwhile, you can use other Bedrock console pages. Once your access is updated, you can use the models in Bedrock. Refresh the base models table to view the updated statuses.

Amazon Bedrock > Model access

## What is Model access?

To use Bedrock, account users with the correct [IAM Permissions](#) must enable access to available Bedrock foundation models (FMs). View all [Bedrock Model Terms](#) for [Bedrock FMs](#).

[Modify model access](#)

Visit [Amazon Bedrock Quotas](#) for a quick guide to the default quotas and limits that apply to Amazon Bedrock.

## Base models (36)

Not seeing a model you're interested in? Check out all supported models by region [here](#).

Find model Group by provider ▾

Models	Access status	Modality	EULA
▼ Amazon (7)	6/7 access granted		
Titan Embeddings G1 - Text	<span>✓ Access granted</span>	Embedding	<a href="#">EULA</a>
Titan Text G1 - Lite	<span>✓ Access granted</span>	Text	<a href="#">EULA</a>
Titan Text G1 - Express	<span>✓ Access granted</span>	Text	<a href="#">EULA</a>

Screenshot of a browser window showing the AWS Workshop Studio environment setup page for a PostgreSQL workshop.

The browser tabs are:

- pgvector-dryrun-20240905
- Console Home | Console Home
- catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/4-retrieval-augmented-generation/environment-setup

The top right corner shows "Paused" and "Finish update".

The left sidebar shows the workshop navigation:

- pgvector-dryrun-20240905 (selected)
- Generative AI Use Cases with Aurora PostgreSQL and pgvector
  - ▶ Introduction
  - ▶ Prerequisites
  - ▶ Product Recommendations
  - ▼ Retrieval Augmented Generation
    - ▶ Environment Setup (highlighted with a red arrow)
    - ▶ Question Answering using Amazon Bedrock LLMs
    - ▶ Question Answering using Open Source LLMs
    - ▶ Response Streaming
    - ▶ Semantic Search & Sentiment Analysis
    - ▶ Knowledge Bases for Amazon Bedrock with Aurora PostgreSQL
    - ▶ Movie Recommendations using Aurora ML and Amazon Bedrock
- ▼ AWS account access
  - Open AWS console (us-west-2)
  - Get AWS CLI credentials

The main content area shows the "Environment Setup" section for "Retrieval Augmented Generation". A blue banner at the top says "Event ends in 2 days 19 hours 1 minute." The breadcrumb navigation is "Event dashboard > Retrieval Augmented Generation > Environment Setup".

## Environment Setup

### Configure Cloud9

**Note**

We recommend using **AWS Cloud9** to connect to the Aurora PostgreSQL DB cluster for these labs without the need to open inbound ports, maintain bastion hosts, or manage SSH keys. We also recommend using **Mozilla Firefox** as the preferred browser for all labs. If you don't already have it, you can download it from [Mozilla Firefox](#).

In these set of labs, you will use [AWS Cloud9](#), a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser. It includes a code editor, debugger, and terminal. This lab will walk you through the steps of configuring Cloud9 to be used in subsequent modules.

First, make sure you are in the correct AWS region by verifying the region in the top right hand corner of the AWS console. Then in the [Cloud9 Console](#), click **Open** for the environment with name **genai-pgvector-labs-Cloud9-IDE** to open the Cloud9 IDE.

The bottom of the screenshot shows the AWS Cloud9 "Environments" page in the AWS Management Console, with a red arrow pointing to the "Create environment" button.

## Console

Services (51)

Recent

Features (32)

Resources New

Documentation (15,341)

Knowledge Articles (650)

Marketplace (13)

Blogs (6,973)

Events (324)

Tutorials (22)

Search results for 'cloud9'

## Services

See all 51 results ▶



Cloud9 ☆

A Cloud IDE for Writing, Running, and Debugging Code



Amazon CodeCatalyst ☆

Integrated DevOps Service



AWS Cloud Map ☆

Build a dynamic map of your cloud



AWS Deadline Cloud ☆

Simplified render management

## Features

See all 32 results ▶

Cloud WAN

VPC feature

Namespaces

AWS Cloud Map feature

Workloads

AWS Well-Architected Tool feature

Access denied

Fault layout

+ Add widgets

Create application



&lt; 1 &gt;

Originating account

Application.



S



Breakdown

Access denied



get the most out of AWS.

Screenshot of the AWS Cloud9 console showing the environments list.

The browser title bar shows "AWS Cloud9" and the URL "us-west-2.console.aws.amazon.com/cloud9control/home?region=us-west-2#/".

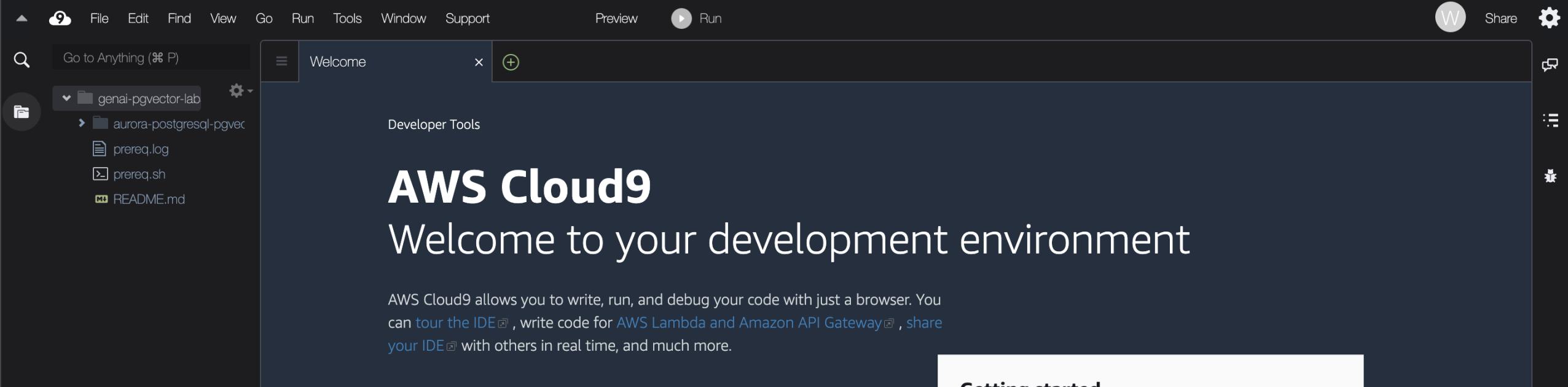
The AWS Cloud9 sidebar includes links for "My environments", "Shared with me", and "All account environments".

The main content area displays the "Environments (1)" page under "AWS Cloud9 > Environments".

The table lists one environment:

Name	Cloud9 IDE	Environment type	Connection	Permission	Owner ARN
genai-pgvector-labs-Cloud9-IDE	<a href="#">Open</a>	EC2 instance	Secure Shell (SSH)	Owner	arn:aws:sts::063900369773:assumed-role/WSParticipantRole/Participant

A red arrow points to the "Open" button next to the environment name "genai-pgvector-labs-Cloud9-IDE".



## Getting started

---

[Create File](#)

---

[Upload Files...](#)

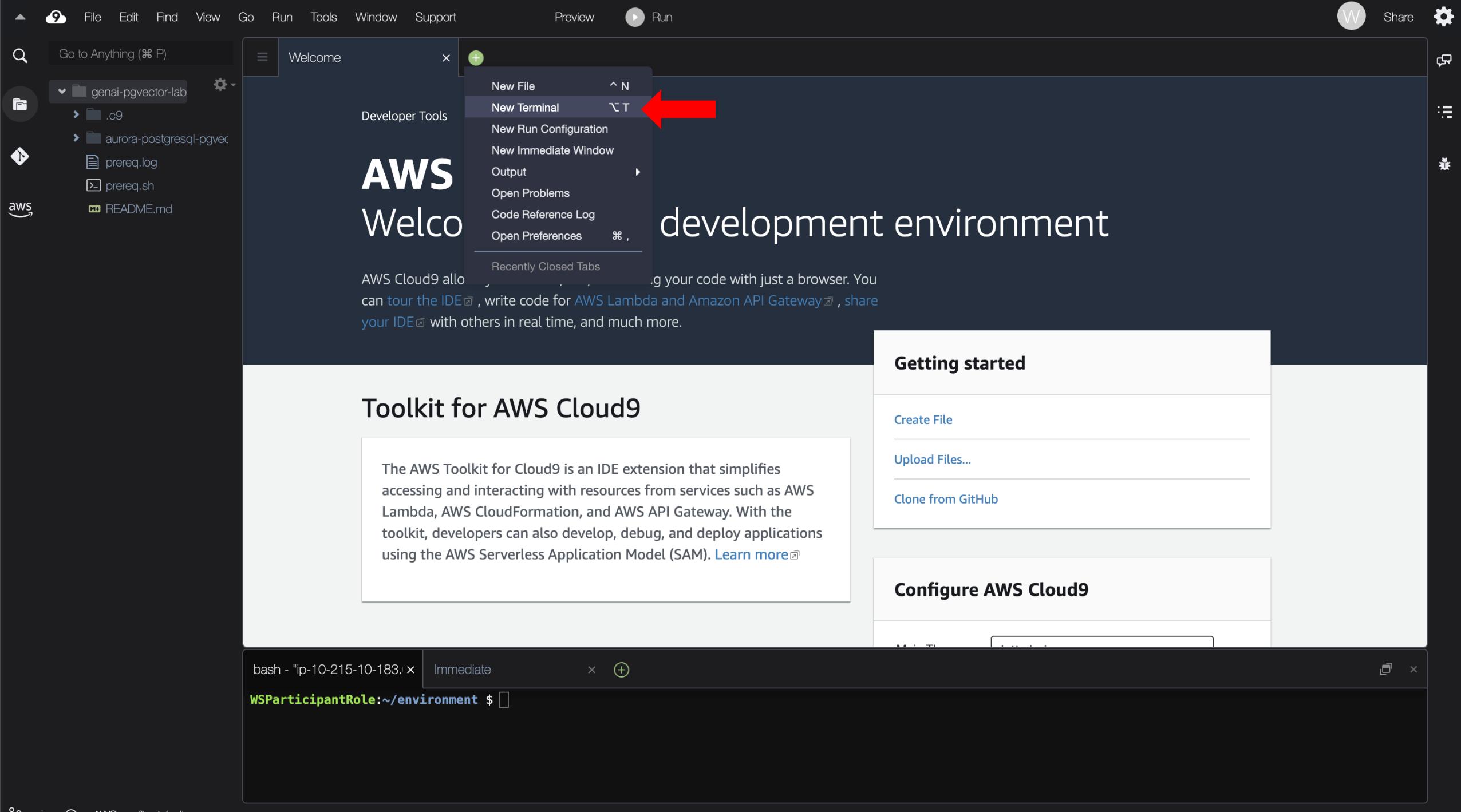
---

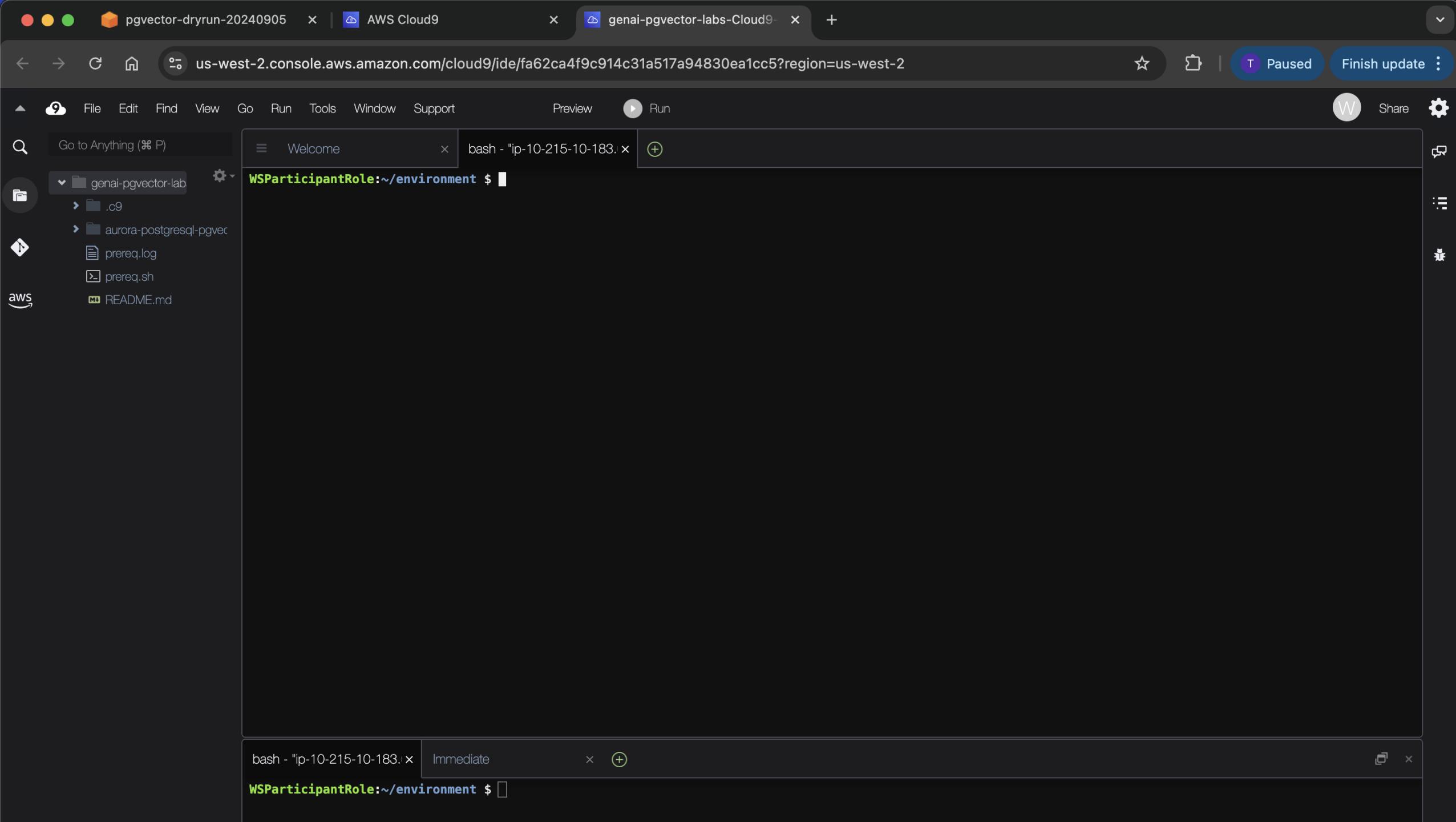
[Clone from GitHub](#)

## Configure AWS Cloud9

---

```
bash - "ip-10-215-10-183: ~" Immediate x +  
WSParticipantRole:~/environment $
```





Screenshot of AWS Cloud9 showing a workshop studio for "pgvector-dryrun-20240905".

The browser tabs are:

- pgvector-dryrun-20240905
- AWS Cloud9
- genai-pgvector-labs-Cloud9-

The AWS Cloud9 interface shows the following details:

- aws workshop studio
- Event ends in 2 days 18 hours 58 minutes.
- Event dashboard > Retrieval Augmented Generation > Question Answering using Amazon Bedrock LLMs > Question Answering with RAG Chatbot Application
- Question Answering with RAG Chatbot Application**

Left sidebar navigation:

- pgvector-dryrun-20240905
- Generative AI Use Cases with Aurora PostgreSQL and pgvector
  - ▶ Introduction
  - ▶ Prerequisites
  - ▶ Product Recommendations
  - ▼ Retrieval Augmented Generation
    - Environment Setup
    - ▼ Question Answering using Amazon Bedrock LLMs
      - Question Answering with RAG Chatbot Application**
      - Run Streamlit Application
    - ▶ Question Answering using Open Source LLMs
    - ▶ Response Streaming
  - ▶ Semantic Search & Sentiment Analysis
- ▼ AWS account access
  - Open AWS console (us-west-2)
  - Get AWS CLI credentials

Main content area:

## Cleanup LangChain tables

Run the following command to cleanup any existing LangChain tables.

```
psql
drop table if exists langchain_pg_embedding cascade;
drop table if exists langchain_pg_collection cascade;
\q
```

## Create environment variables

Use the code block below to create an `.env` file for your project

```
cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs
cat > .env << EOF
PGVECTOR_USER='$PGUSER'
PGVECTOR_PASSWORD='$PGPASSWORD'
PGVECTOR_HOST='$PGHOST'
PGVECTOR_PORT=$PGPORT
PGVECTOR_DATABASE='!$PGDATABASE'
```



The screenshot shows a AWS Cloud9 IDE interface with three tabs open:

- pgvector-dryrun-20240905
- AWS Cloud9
- genai-pgvector-labs-Cloud9-

The central terminal window displays the following PostgreSQL session:

```
WSParticipantRole:~/environment $ psql - "ip-10-215-10-183.us-west-2"
psql (14.12, server 15.6)
WARNING: psql major version 14, server major version 15.
          Some psql features might not work.
SSL connection (protocol: TLSv1.2, cipher: AES128-SHA256, bits: 128, compression: off)
Type "help" for help.

postgres=> drop table if exists langchain_pg_embedding cascade;
NOTICE:  table "langchain_pg_embedding" does not exist, skipping
DROP TABLE
postgres=> drop table if exists langchain_pg_collection cascade;
NOTICE:  table "langchain_pg_collection" does not exist, skipping
DROP TABLE
postgres=> \q
WSParticipantRole:~/environment $
```

The left sidebar shows a file tree with the following contents:

- genai-pgvector-lab
  - .c9
  - aurora-postgresql-pgvec
  - prereq.log
  - prereq.sh
  - README.md

The bottom terminal window shows a bash prompt:

```
bash - "ip-10-215-10-183.us-west-2" Immediate WSParticipantRole:~/environment $
```

## pgvector-dryrun-20240905 &lt;

Generative AI Use Cases with Aurora PostgreSQL and pgvector

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  - Environment Setup

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- [Question Answering with RAG Chatbot Application](#)

- Run Streamlit Application

- ▶ Question Answering using Open Source LLMs

- ▶ Response Streaming

- ▶ Semantic Search & Sentiment Analysis

## ▼ AWS account access

- [Open AWS console \(us-west-2\) ↴](#)

- [Get AWS CLI credentials](#)

Event ends in 2 days 18 hours 58 minutes.

## Create environment variables

Use the code block below to create an `.env` file for your project

```
cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs
cat > .env << EOF
PGVECTOR_USER='$PGUSER'
PGVECTOR_PASSWORD='$PGPASSWORD'
PGVECTOR_HOST='$PGHOST'
PGVECTOR_PORT=$PGPORT
PGVECTOR_DATABASE='$PGDATABASE'
EOF

cat .env
```

Copied!



Your `.env` file should like the following:

```
PGVECTOR_USER=<username>
PGVECTOR_PASSWORD=<password>
PGVECTOR_HOST=<Aurora DB endpoint>
PGVECTOR_PORT=5432
PGVECTOR_DATABASE=<dbname>
```



## Create virtual environment and load dependencies

pgvector-dryrun-20240905 x | AWS Cloud9 x | genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2

Paused | Finish update :

File Edit Find View Go Run Tools Window Support Preview Run

W Share

Go to Anything (⌘ P)

genai-pgvector-lab .c9 aurora-postgresql-pgvec prereq.log prereq.sh README.md

Welcome bash - "ip-10-215-10-183.x" +

```
WSParticipantRole:~/environment $ cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs
WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ cat > .env << EOF
> PGVECTOR_USER='$PGUSER'
> PGVECTOR_PASSWORD='$PGPASSWORD'
> PGVECTOR_HOST='$PGHOST'
> PGVECTOR_PORT=$PGPORT
> PGVECTOR_DATABASE='$PGDATABASE'
> EOF
WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $
WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ cat .env
PGVECTOR_USER='postgres'
PGVECTOR_PASSWORD='RzSiRLTfg7XWy03e'
PGVECTOR_HOST='apgpg-pgvector.cluster-clw0ew0o0665.us-west-2.rds.amazonaws.com'
PGVECTOR_PORT=5432
PGVECTOR_DATABASE='postgres'
WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ 
```

bash - "ip-10-215-10-183.x" Immediate +

WSParticipantRole:~/environment \$

pgvector-dryrun-20240905 x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/4-retrieval-augmented-generation/question-answering-u... ↴ ☆ ↵ | T Paused Finish update :

aws workshop studio

pgvector-dryrun-20240905 < X i

Generative AI Use Cases with Aurora PostgreSQL and pgvector

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  - Run Streamlit Application
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- Response Streaming
- Semantic Search & Sentiment Analysis

▼ AWS account access

[Open AWS console \(us-west-2\) ↴](#)

[Get AWS CLI credentials](#)

Event ends in 2 days 18 hours 58 minutes.

## Create virtual environment and load dependencies

Create a new [virtual environment](#) and activate it.

```
python3 -m venv ~/environment/venv-qa-bedrock  
source ~/environment/venv-qa-bedrock/bin/activate
```

The [GitHub](#) repository you cloned earlier includes a file `requirements.txt` which has all the required libraries you need to install for building the QnA chatbot application. Install the libraries by running the following commands:

```
cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs  
python3 -m pip install -r requirements.txt
```

**Tip**

- This lab includes a Python file `rag_app.py` with some code and comments pre-written. The `# TODO` comments are where you will be copy/pasting code in this file.
- The repository also includes a file `app.py` with the full working code for your chatbot application which will serve as a reference if you're stuck or seeing errors with `rag_app.py`.
- The code samples are available on [GitHub](#) in case you need to reference them later.

Navigate to Python file `rag_app.py`

The screenshot shows the AWS Cloud9 IDE interface with a terminal window open. The terminal window title is "bash - "ip-10-215-10-183.x"" and it displays the following text:

```
WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ python3 -m venv ~environment/venv-qa-bedrock
WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ source ~environment/venv-qa-bedrock/bin/activate
(venv-qa-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $
```

The AWS Cloud9 header bar includes tabs for "pgvector-dryrun-20240905", "AWS Cloud9", and "genai-pgvector-labs-Cloud9-", along with "Paused" and "Finish update" buttons. The left sidebar shows a file tree with files like "genai-pgvector-lab", "aurora-postgresql-pgvector", "venv-qa-bedrock", "prereq.log", "prereq.sh", and "README.md". The bottom of the terminal window has tabs for "bash - "ip-10-215-10-183.x", "Immediate", and a plus sign icon.

Screenshot of AWS Cloud9 IDE showing a workshop studio session titled "pgvector-dryrun-20240905".

The session details:

- Event ends in 2 days 18 hours 57 minutes.
- Copy button: Copied!

The terminal window contains the following command:

```
cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMS  
python3 -m pip install -r requirements.txt
```

A Tip section provides the following information:

- This lab includes a Python file `rag_app.py` with some code and comments pre-written. The `# TODO` comments are where you will be copy/pasting code in this file.
- The repository also includes a file `app.py` with the full working code for your chatbot application which will serve as a reference if you're stuck or seeing errors with `rag_app.py`.
- The code samples are available on [GitHub](#) in case you need to reference them later.

Section: Navigate to Python file `rag_app.py`

Text: Navigate to the `aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMS` folder in Cloud9 window on the left, and double-click to open the file `rag_app.py` in a new tab.

Screenshot of the AWS Cloud9 IDE interface showing the file structure and the content of `rag_app.py`:

- File menu: File, Edit, Find, View, Go, Run, Tools, Window, Support, Preview, Run.
- Search bar: Go to Anything (⌘ P).
- File tree:
  - genai-pgvector-labs-Cloud9-IDE - /
  - aurora-postgresql-pgvector
    - 01\_ProductRecommendations
    - 02\_RetrievalAugmentedGeneration
      - 02\_QuestionAnswering\_Bedrock\_LLMS
- Code editor:
  - bash - "ip-10-215-10-42.lx" (active tab)
  - rag\_app.py (new tab)
- Code content of `rag_app.py`:

```
1 # Import libraries
2 from dotenv import load_dotenv
3 from PyPDF2 import PdfReader
4 from langchain_postgres import PGVector
5 from langchain_postgres.vectorstores import PGVector
6 from langchain.memory import ConversationSummaryBufferMemory
7 from langchain.chains import ConversationalRetrievalChain
8 from htmlTemplates import css
9 from langchain.text_splitter import RecursiveCharacterTextSplitter
10 from langchain_community.embeddings import BedrockEmbeddings
11 from langchain_community import ChatBedrock
```

pgvector-dryrun-20240905 x | AWS Cloud9 x | genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2

Paused Finish update

File Edit Find View Go Run Tools Window Support Preview Run

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Go to Anything (⌘ P)

genai-pgvector-lab

aurora-postgresql-pgvector

venv-qa-bedrock

prereq.log

prereq.sh

README.md

Welcome python3 - "ip-10-215-10-1: x

(venv-qa-bedrock) **WSParticipantRole:~/environment/aurora-postgresql-pgvector/02\_RetrievalAugmentedGeneration/02\_Questio**nAnswering\_Bedrock\_LLMs (main) \$ python3 -m pip install -r requirements.txt

Collecting streamlit (from -r requirements.txt (line 1))

  Downloading streamlit-1.38.0-py2.py3-none-any.whl.metadata (8.5 kB)

Collecting langchain (from -r requirements.txt (line 2))

  Downloading langchain-0.2.16-py3-none-any.whl.metadata (7.1 kB)

Collecting langchain-postgres (from -r requirements.txt (line 3))

  Downloading langchain\_postgres-0.0.9-py3-none-any.whl.metadata (4.0 kB)

Collecting langchain-aws (from -r requirements.txt (line 4))

  Downloading langchain\_aws-0.1.17-py3-none-any.whl.metadata (3.2 kB)

Collecting langchain-community (from -r requirements.txt (line 5))

  Downloading langchain\_community-0.2.16-py3-none-any.whl.metadata (2.7 kB)

Collecting PyPDF2 (from -r requirements.txt (line 6))

  Downloading pypdf2-3.0.1-py3-none-any.whl.metadata (6.8 kB)

Collecting python-dotenv (from -r requirements.txt (line 7))

  Downloading python\_dotenv-1.0.1-py3-none-any.whl.metadata (23 kB)

Collecting altair (from -r requirements.txt (line 8))

  Downloading altair-5.4.1-py3-none-any.whl.metadata (9.4 kB)

Collecting urllib3 (from -r requirements.txt (line 9))

  Downloading urllib3-2.2.2-py3-none-any.whl.metadata (6.4 kB)

Collecting boto3 (from -r requirements.txt (line 10))

  Downloading boto3-1.35.12-py3-none-any.whl.metadata (6.6 kB)

Collecting awscli (from -r requirements.txt (line 11))

  Downloading awscli-1.34.12-py3-none-any.whl.metadata (11 kB)

Collecting botocore (from -r requirements.txt (line 12))

  Downloading botocore-1.35.12-py3-none-any.whl.metadata (5.7 kB)

Collecting anthropic (from -r requirements.txt (line 13))

bash - "ip-10-215-10-183. x Immediate

WSParticipantRole:~/environment \$

us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2

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genai-pgvector-lab

aurora-postgresql-pgvector

venv-qa-bedrock

prereq.log

prereq.sh

README.md

Welcome bash - "ip-10-215-10-183.x" +

```
urllib3, mypy_extensions, multidict, more_itertools, jmespath, jiter, iana, h11, greenlet, fsspec, aiofiles, filelock, docutils, distro, colorama, click, charset-normalizer, certifi, cachetools, blinker, attrs, annotated_types, aiohappyeyeballs, yarl, typing-inspect, SQLAlchemy, rsa, requests, referencing, python-dateutil, pydantic-core, pyarrow, psycopg-pool, psycopg, pgvector, marshmallow, markdown-it-py, jsonpatch, jinja2, httpcore, gitdb, anyio, aiosignal, rich, pydeck, pydantic, pandas, jsonschema-specifications, huggingface-hub, httpx, gitpython, dataclasses-json, botocore, aiohttp, tokenizers, s3transfer, langsmith, jsonschema, langchain-core, boto3, awscli, anthropic, altair, streamlit, langchain-text-splitters, langchain-postgres, langchain-aws, langchain, langchain-community
Successfully installed MarkupSafe-2.1.5 PyPDF2-3.0.1 PyYAML-6.0.2 SQLAlchemy-2.0.34 aiohappyeyeballs-2.4.0 aiohttp-3.10.5 aiosignal-1.3.1 altair-5.4.1 annotated-types-0.7.0 anthropic-0.34.2 anyio-4.4.0 attrs-24.2.0 awscli-1.33.44 blinker-1.8.2 boto3-1.34.162 botocore-1.34.162 cachetools-5.5.0 certifi-2024.8.30 charset-normalizer-3.3.2 click-8.1.7 colorama-0.4.6 dataclasses-json-0.6.7 distro-1.9.0 docutils-0.16 filelock-3.15.4 frozenlist-1.4.1 fsspec-2024.9.0 gitdb-4.0.11 gitpython-3.1.43 greenlet-3.0.3 h11-0.14.0 httpcore-1.0.5 httpx-0.27.2 huggingface-hub-0.24.6 idna-3.8 jinja2-3.1.4 jitter-0.5.0 jmespath-1.0.1 jsonpatch-1.33 jsonpointer-3.0.0 jsonschema-4.23.0 jsonschema-specifications-2023.12.1 langchain-0.2.16 langchain-aws-0.1.17 langchain-community-0.2.16 langchain-core-0.2.38 langchain-postgres-0.0.9 langchain-text-splitters-0.2.4 langsmith-0.1.114 markdown-it-py-3.0.0 marshmallow-3.22.0 mdurl-0.1.2 multidict-6.0.5 mypy-extensions-1.0.0 narwhals-1.6.2 numpy-1.26.4 orjson-3.10.7 packaging-24.1 pandas-2.2.2 pgvector-0.2.5 pillow-10.4.0 protobuf-5.28.0 psycopg-3.2.1 psycopg-pool-3.2.2 pyarrow-17.0.0 pyasn1-0.6.0 pydantic-2.8.2 pydantic-core-2.20.1 pydeck-0.9.1 pygments-2.18.0 python-dateutil-2.9.0.post0 python-dotenv-1.0.1 pytz-2024.1 referencing-0.35.1 requests-2.32.3 rich-13.8.0 rpsdypy-0.20.0 rsa-4.7.2 s3transfer-0.10.2 six-1.16.0 smmap-5.0.1 sniffio-1.3.1 streamlit-1.38.0 tenacity-8.5.0 tokenizers-0.20.0 toml-0.10.2 tornado-6.4.1 tqdm-4.66.5 typing-extensions-4.12.2 typing-inspect-0.9.0 tzdata-2024.1 urllib3-2.2.2 watchdog-4.0.2 yarl-1.9.11
(venv-qa-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $
(venv-qa-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $
(venv-qa-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $
```

bash - "ip-10-215-10-183.x" Immediate +

WSParticipantRole:~/environment \$

The screenshot shows the AWS Cloud9 IDE interface with a Python script named `rag_app.py` open. The script imports various libraries from the LangChain library, including `dotenv`, `PyPDF2`, `langchain_postgres`, `langchain_postgres.vectorstores`, `langchain.memory`, `langchain.chains`, `htmlTemplates`, `langchain.text_splitter`, `langchain_community.embeddings`, `langchain_aws`, `langchain_core.prompts`, `boto3`, `PIL`, `os`, and `traceback`. It includes TODO comments for extracting text from PDF documents and splitting it into smaller chunks.

```
# Import libraries
from dotenv import load_dotenv
from PyPDF2 import PdfReader
from langchain_postgres import PGVector
from langchain_postgres.vectorstores import PGVector
from langchain.memory import ConversationSummaryBufferMemory
from langchain.chains import ConversationalRetrievalChain
from htmlTemplates import css
from langchain.text_splitter import RecursiveCharacterTextSplitter
from langchain_community.embeddings import BedrockEmbeddings
from langchain_aws import ChatBedrock
from langchain_core.prompts import PromptTemplate
import streamlit as st
import boto3
from PIL import Image
import os
import traceback

# TODO: This function takes a list of PDF documents as input and extracts the text from them using PdfReader.
# It concatenates the extracted text and returns it.

# TODO: Given the extracted text, this function splits it into smaller chunks using the RecursiveCharacterTextSplitter.
# The chunk size, overlap, and other parameters are configured to optimize processing efficiency.
```

pgvector-dryrun-20240905 x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

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pgvector-dryrun-20240905 < X ⓘ

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- ▶ Semantic Search & Sentiment Analysis

▼ AWS account access

- Open AWS console (us-west-2) ↴
- Get AWS CLI credentials

Event ends in 2 days 18 hours 55 minutes.

## 2. Take PDFs as input and extract text

This function takes a list of PDF documents as input and extracts the text from them using [PdfReader](#). It concatenates the extracted text and returns it.

```
def get_pdf_text(pdf_docs):  
    text = ""  
    for pdf in pdf_docs:  
        pdf_reader = PdfReader(pdf)  
        for page in pdf_reader.pages:  
            text += page.extract_text()  
    return text
```

Copied!

## 3. Split PDF(s) into chunks

Given the extracted text, this function splits it into smaller chunks using LangChain's [RecursiveCharacterTextSplitter](#) module. The chunk size, overlap, and other parameters are configured to optimize processing efficiency.

```
def get_text_chunks(text):  
    text_splitter = RecursiveCharacterTextSplitter(  
        separators=[ "\n\n", "\n", ".", " "],  
        chunk_size=1000,  
        chunk_overlap=200,  
        length_function=len  
    )
```

pgvector-dryrun-20240905 x | AWS Cloud9 x | genai-pgvector-labs-Cloud9- x +

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genai-pgvector-labs-Cloud9

aurora-postgresql-pgvector

01\_ProductRecommendations

02\_RetrievalAugmentedGener

02\_QuestionAnswering\_Bec

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htmlTemplates.py

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requirements.txt

02\_QuestionAnswering\_Op

02\_ResponseStreaming

03\_SimilaritySearchSentiment

04\_AuroraML\_Bedrock\_Movie

05\_AuroraML\_Bedrock\_Chatt

DAT303

data

scripts

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CONTRIBUTING.md

LICENSE

README.md

Welcome bash - "ip-10-215-10-183.x rag\_app.py

19 # TODO: This function takes a list of PDF documents as input and extracts the text from them using PdfReader.

20 # It concatenates the extracted text and returns it.

21

22 def get\_pdf\_text(pdf\_docs):

23 text = ""

24 for pdf in pdf\_docs:

25 pdf\_reader = PdfReader(pdf)

26 for page in pdf\_reader.pages:

27 text += page.extract\_text()

28 return text

29

30 # TODO: Given the extracted text, this function splits it into smaller chunks using the RecursiveCharacterText

31 # The chunk size, overlap, and other parameters are configured to optimize processing efficiency.

32

33

34

35 # TODO: This function takes the text chunks as input and creates a vector store using Bedrock Embeddings (Title

36 # The vector store stores the vector representations of the text chunks, enabling efficient retrieval based on

37

38

39

40 # TODO: In this function, a conversation chain is created using the conversational AI model (Anthropic's Claude

41 # This chain allows the Gen AI app to engage in conversational interactions.

42

43

28:16 Python Spaces: 4

bash - "ip-10-215-10-183.x Immediate +

WS PARTICIPANTROLE: ~ /environment \$

pgvector-dryrun-20240905 x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/4-retrieval-augmented-generation/question-answering-u... ↴ ☆ ↵ | T Paused Finish update :

aws workshop studio

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- ▶ Semantic Search & Sentiment Analysis

▼ AWS account access

- [Open AWS console \(us-west-2\) ↴](#)
- [Get AWS CLI credentials](#)

Event ends in 2 days 18 hours 54 minutes.

### 3. Split PDF(s) into chunks

Given the extracted text, this function splits it into smaller chunks using LangChain's [RecursiveCharacterTextSplitter](#) module. The chunk size, overlap, and other parameters are configured to optimize processing efficiency.

Copied!

```
def get_text_chunks(text):
    text_splitter = RecursiveCharacterTextSplitter(
        separators=["\n\n", "\n", ". ", " "],
        chunk_size=1000,
        chunk_overlap=200,
        length_function=len
    )

    chunks = text_splitter.split_text(text)
    return chunks
```

### 4. Load vector embeddings into Amazon Aurora PostgreSQL

Next, you will load the vector embeddings using Amazon Bedrock's Embedding model `amazon.titan-embed-text-v2:0` into an Aurora PostgreSQL DB cluster as the vector database. This function takes the text chunks as input and creates a vector store using Bedrock Embeddings (Titan) and pgvector. Aurora PostgreSQL with the pgvector extension stores the vector representations of the text chunks, enabling efficient retrieval based on semantic similarity.

```
def get_vectorstore(text_chunks):
    # Create the Titan embeddings
```

pgvector-dryrun-20240905 x | AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2

File Edit Find View Go Run Tools Window Support Preview Run Paused Finish update

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genai-pgvector-labs-Cloud9

- aurora-postgresql-pgvector
  - 01\_ProductRecommendations
- 02\_RetrievalAugmentedGener
  - 02\_QuestionAnswering\_Be
    - data
    - static
- app.py
- CODE\_OF\_CONDUCT.md
- CONTRIBUTING.md
- env.example
- htmlTemplates.py
- LICENSE
- rag\_app.py
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Welcome bash - "ip-10-215-10-183.x" rag\_app.py

```
29
30 # TODO: Given the extracted text, this function splits it into smaller chunks using the RecursiveCharacterTextSplitter.
31 # The chunk size, overlap, and other parameters are configured to optimize processing efficiency.
32
33 def get_text_chunks(text):
34     text_splitter = RecursiveCharacterTextSplitter(
35         separators=[ "\n\n", "\n", ".", " "],
36         chunk_size=1000,
37         chunk_overlap=200,
38         length_function=len
39     )
40
41     chunks = text_splitter.split_text(text)
42     return chunks
43
44 # TODO: This function takes the text chunks as input and creates a vector store using Bedrock Embeddings (Title)
45 # The vector store stores the vector representations of the text chunks, enabling efficient retrieval based on
46
47
48
49 # TODO: In this function, a conversation chain is created using the conversational AI model (Anthropic's Claude)
50 # This chain allows the Gen AI app to engage in conversational interactions.
51
52
53
54 # This function is responsible for processing the user's input question and generating a response from the conversational AI.
```

42:18 Python Spaces: 4

WSParticipantRole:~environment \$

## pgvector-dryrun-20240905

Generative AI Use Cases with Aurora PostgreSQL and pgvector

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▶ Product Recommendations

▼ Retrieval Augmented Generation

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▶ Response Streaming

▶ Semantic Search &amp; Sentiment Analysis

▼ AWS account access

    Open AWS console  
(us-west-2) 

Get AWS CLI credentials

Event ends in 2 days 7 hours 39 minutes.

#### 4. Load vector embeddings into Amazon Aurora PostgreSQL

Next, you will load the vector embeddings using Amazon Bedrock's Embedding model `amazon.titan-embed-text-v2:0` into an Aurora PostgreSQL DB cluster as the vector database. This function takes the text chunks as input and creates a vector store using Bedrock Embeddings (Titan) and pgvector. Aurora PostgreSQL with the pgvector extension stores the vector representations of the text chunks, enabling efficient retrieval based on semantic similarity.

```
def get_vectorstore(text_chunks):
    # Create the Titan embeddings
    embeddings = BedrockEmbeddings(model_id= "amazon.titan-embed-text-v2:0", client=BEDROCK_CLIENT)
    if text_chunks is None:
        return PGVector(
            connection=connection,
            embeddings=embeddings,
            use_jsonb=True
        )
    return PGVector.from_texts(texts=text_chunks, embedding=embeddings, connection=connection)
```



Note: PGVector needs the connection to the database. You can create it as shown in the screenshot below. For this lab, scroll down to the `main` function to find this code, and fill in the values for your Aurora PostgreSQL DB connection. You can get these using your environment variables or retrieve them from AWS Secrets Manager.

```
# Create the connection string for pgvector. Ref: https://github.com/langchain-ai/langchain-postgres/blob/main/examples/vectorstore.ipynb
db_user = os.getenv('PGUSER')
db_password = os.getenv('PGPASSWORD')
```

pgvector-dryrun-20240905 x | AWS Cloud9 x | genai-pgvector-labs-Cloud9- x +

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Paused Finish update

File Edit Find View Go Run Tools Window Support Preview Run

W Share

Go to Anything (⌘ P)

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Welcome bash - "ip-10-215-10-183.x" rag\_app.py

```
44 # TODO: This function takes the text chunks as input and creates a vector store using Bedrock Embeddings (Title)
45 # The vector store stores the vector representations of the text chunks, enabling efficient retrieval based on
46
47 def get_vectorstore(text_chunks):
48     # Create the Titan embeddings
49     embeddings = BedrockEmbeddings(model_id= "amazon.titan-embed-text-v2:0", client=BEDROCK_CLIENT)
50     if text_chunks is None:
51         return PGVector(
52             connection=connection,
53             embeddings=embeddings,
54             use_jsonb=True
55         )
56     return PGVector.from_texts(texts=text_chunks, embedding=embeddings, connection=connection)
57
58 # TODO: In this function, a conversation chain is created using the conversational AI model (Anthropic's Claude)
59 # This chain allows the Gen AI app to engage in conversational interactions.
60
61
62
63 # This function is responsible for processing the user's input question and generating a response from the chosen
64 def handle_userinput(user_question):
65
66     if "chat_history" not in st.session_state:
67         st.session_state.chat_history = None
68
```

56:95 Python Spaces: 4

WSParticipantRole:~environment \$

pgvector-dryrun-20240905 x AWS Cloud9 x genai-pgvector-labs-Cloud9- x +

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/4-retrieval-augmented-generation/question-answering-u... ↴ ☆ ↵ | T Paused Finish update :

aws workshop studio

pgvector-dryrun-20240905 < X i

Event ends in 2 days 18 hours 54 minutes.

## 5. Create a Conversational Chain

In this function, a conversation chain is created using the conversational AI model (Anthropic's Claude 3), vector store (created in the previous function), and conversation memory [ConversationSummaryBufferMemory](#). This chain allows the Gen AI application to engage in conversational interactions.

Copied!

```
def get_conversation_chain(vectorstore):
    # Define model_id, client and model keyword arguments for Anthropic Claude 3 (Sonnet)
    llm = ChatBedrock(model_id="anthropic.claude-3-sonnet-20240229-v1:0", client=BEDROCK_CLIENT)
    llm.model_kwags = {"temperature": 0.5, "max_tokens": 8191}

    # The text that you give Claude is designed to elicit, or "prompt", a relevant output. A prompt is usually in the form of a question.
    # Claude was trained as a conversational agent using these special tokens to mark who is speaking. The ``\n\nHuman:`` (you) asks a question.
    prompt_template = """Human: You are a helpful assistant that answers questions directly and only using the information provided in the context.
    Guidance for answers:
        - Always use English as the language in your responses.
        - In your answers, always use a professional tone.
        - Begin your answers with "Based on the context provided: "
        - Simply answer the question clearly and with lots of detail using only the relevant details from the information below. If the question requires more detail, provide it.
        - Use bullet-points and provide as much detail as possible in your answer.
        - Always provide a summary at the end of your answer.

Now read this context below and answer the question at the bottom.
```

Context: {context}

Question: {question}

pgvector-dryrun-20240905 x | AWS Cloud9 x | genai-pgvector-labs-Cloud9 x +

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File Edit Find View Go Run Tools Window Support Preview Run Share

Go to Anything (⌘ P)

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Welcome bash - "ip-10-215-10-183.x rag\_app.py

57  
58 # TODO: In this function, a conversation chain is created using the conversational AI model (Anthropic's Claude).  
59 # This chain allows the Gen AI app to engage in conversational interactions.  
60  
61 def get\_conversation\_chain(vectorstore):  
62 # Define model\_id, client and model keyword arguments for Anthropic Claude 3 (Sonnet)  
63 llm = ChatBedrock(model\_id="anthropic.claude-3-sonnet-20240229-v1:0", client=BEDROCK\_CLIENT)  
64 llm.model\_kwargs = {"temperature": 0.5, "max\_tokens": 8191}  
65  
66 # The text that you give Claude is designed to elicit, or "prompt", a relevant output. A prompt is usually  
67 # Claude was trained as a conversational agent using these special tokens to mark who is speaking. The ``\`\\`  
68 prompt\_template = """Human: You are a helpful assistant that answers questions directly and only using the  
69 Guidance for answers:  
70 - Always use English as the language in your responses.  
71 - In your answers, always use a professional tone.  
72 - Begin your answers with "Based on the context provided: "  
73 - Simply answer the question clearly and with lots of detail using only the relevant details from the  
74 - Use bullet-points and provide as much detail as possible in your answer.  
75 - Always provide a summary at the end of your answer.  
76  
77 Now read this context below and answer the question at the bottom.  
78  
79 Context: {context}  
80  
81 Question: {question}

108:37 Python Spaces: 4

bash - "ip-10-215-10-183.x Immediate

WS\$PARTICIPANTROLE:~/.environment \$

pgvector-dryrun-  
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## ▶ Response Streaming

▶ Semantic Search & Sentiment  
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## ▼ AWS account access

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Exit event

Event ends in 2 days 18 hours 53 minutes.



[Event dashboard](#) > [Retrieval Augmented Generation](#) > [Question Answering using Amazon Bedrock LLMs](#) > [Run Streamlit Application](#)

# Run Streamlit Application

Now that you have successfully written code for your Gen AI chatbot application, its time to run the application via Streamlit.

## Run the Streamlit app

Run the following command on your Cloud9 terminal:

```
source ~/environment/venv-qa-bedrock/bin/activate
cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs
streamlit run rag_app.py --server.port 8080
```

Copied!



Make sure you're in the correct folder `aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs`. If the command is successful, this is what the output screen will look like:

```
python3.9 - "ip-10-215-1Cx"  rag_app.py
WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ streamlit run rag_app.py --server.port 8080
Collecting usage statistics. To deactivate, set browser.gatherUsageStats to False.

You can now view your Streamlit app in your browser.

Network URL: http://10.215.10.196:8080
External URL: http://54.212.75.156:8080
```

pgvector-dryrun-20240905 x | AWS Cloud9 x | genai-pgvector-labs-Cloud9- x +

us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2

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File Edit Find View Go Run Tools Window Support Preview Run

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Welcome bash - "ip-10-215-10-183.x rag\_app.py +

```
(venv-q-a-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ source ~/environment/venv-q-a-bedrock/bin/activate
(venv-q-a-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs
(venv-q-a-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ streamlit run rag_app.py --server.port 8080
```

Collecting usage statistics. To deactivate, set browser.gatherUsageStats to false.

You can now view your Streamlit app in your browser.

Local URL: <http://localhost:8080>  
Network URL: <http://10.215.10.183:8080>  
External URL: <http://54.201.194.246:8080>

bash - "ip-10-215-10-183.x Immediate +

WSParticipantRole:~/environment \$

The screenshot shows the AWS Cloud9 IDE interface with multiple tabs open. The current tab is titled "genai-pgvector-labs-Cloud9" and displays a Streamlit application. The Streamlit UI includes a header with "Welcome", a "Run" button, and a "Preview" tab. A red arrow points to the "Preview Running Application" button in the dropdown menu of the preview tab. The main content area shows the Streamlit code and logs:

```
typing inspect, SQLALCHEMY, ffa, requests, referencing, python
ent/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_Qu
estionsAnswering_Bedrock_LLMs (main) $ cd ~/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_Qu
estionsAnswering_Bedrock_LLMs (main) $ /environment/venv-qa-bedrock/bin/activate
ent/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_Qu
estionsAnswering_Bedrock_LLMs (main) $ streamlit run rag_app.py --server.port 8080
ent/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_Qu
estionsAnswering_Bedrock_LLMs (main) $ streamlit run rag_app.py --server.port 8080

Collecting usage statistics. To deactivate, set browser.gatherUsageStats to false.

You can now view your Streamlit app in your browser.

Local URL: http://localhost:8080
Network URL: http://10.215.10.183:8080
External URL: http://54.201.194.246:8080
```

The bottom of the Streamlit UI shows the command prompt: "WSParticipantRole:~/environment/aurora-postgresql-pgvector/02\_RetrievalAugmentedGeneration/02\_Qu".

File Edit Find View Go Run Tools Window Support Preview Run

W Share

Go to Anything (⌘ P)

genai-pgvector-labs-Cloud aurora-postgresql-pgvector

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rag\_app.py README.md requirements.txt

02\_QuestionAnswering\_Op 02\_ResponseStreaming

03\_SimilaritySearchSentiment 04\_AuroraML\_Bedrock\_Movie

05\_AuroraML\_Bedrock\_Chat DAT303

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venv-qa-bedrock prereq.log prereq.sh

Welcome python3 - "ip-10-215-10-183.x" rag\_app.py

```
-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs (main) $ streamlit run rag_app.py --server.port 8080
```

Collecting usage statistics. To deactivate, set browser.gatherUsageStats to false.

You can now view your Streamlit app in your browser.

Local URL: <http://localhost:8080>  
Network URL: <http://10.215.10.183:8080>  
External URL: <http://54.201.194.246:8080>

```
/home/ec2-user/environment/aurora-postgresql-pgvector/02_RetrievalAugmentedGeneration/02_QuestionAnswering_Bedrock_LLMs/rag_app.py:49: LangChainDeprecationWarning: The class `BedrockEmbeddings` was deprecated in LangChain 0.2.11 and will be removed in 1.0. An updated version of the class exists in the langchain-aws package and should be used instead. To use it run `pip install -U langchain-aws` and import as `from langchain_aws import BedrockEmbeddings`.
```

```
embeddings = BedrockEmbeddings(model_id= "amazon.titan-embed-text-v2:0", client=BEDROCK_CLIENT)
```

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Browser /

# Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine

## Architecture

The architecture diagram illustrates the workflow for generating AI Q&A. It starts with a **PDF Document** (1), which is processed into **Document Chunks** (2). These chunks are then converted into **Embeddings (Amazon Titan)** (3). The embeddings are stored in **Amazon Aurora PostgreSQL** (4). A **User** (5) sends a **Question** to **LangChain** (6). LangChain uses **Streamlit** (7) to interact with the system. LangChain sends the question to the **Large Language Model (Claude v3)**, which returns a **Response** to the User. The diagram also shows a feedback loop where the User's response is used to refine the embeddings in the database.

bash - "ip-10-215-10-183.x" Immediate

WS PARTICIPANTROLE:~/.environment \$

CodeWhisperer AWS: profile:default

File Edit Find View Go Run Tools Window Support Preview Run

W Share

Welcome python3 - "ip-10-215-10-1" rag\_app.py [B] https://fa62ca4f9c914c

Stopping...  
(venv-qa-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02\_RetrievalAugmentedGeneration/02\_QuestionAnswering\_Bedrock\_LLMs (main) \$ streamlit run rag\_app.py --server.enableXsrfProtection false --server.port 8080

Collecting usage statistics. To deactivate, set browser.gatherUsageStats to false.

You can now view your Streamlit app in your browser.

Local URL: <http://localhost:8080>  
Network URL: <http://10.215.10.183:8080>  
External URL: <http://54.201.194.246:8080>

/home/ec2-user/environment/aurora-postgresql-pgvector/02\_RetrievalAugmentedGeneration/02\_QuestionAnswering\_Bedrock\_LLMs/rag\_app.py:49: LangChainDeprecationWarning: The class `BedrockEmbeddings` was deprecated in LangChain 0.2.11 and will be removed in 1.0. An updated version of the class exists in the langchain-aws package and should be used instead. To use it run `pip install -U langchain-aws` and import as `from langchain\_aws import BedrockEmbeddings`. embeddings = BedrockEmbeddings(model\_id= "amazon.titan-embed-text-v2:0", client=BEDROCK\_CLIENT)

bash - "ip-10-215-10-183." Immediate WSParticipantRole:~/environment \$

Pop Out Into New Window

# Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine

## Architecture

The diagram illustrates the architecture of the Generative AI Q&A system. It shows a flow from a User asking a question, which is processed by LangChain and Streamlit, leading to an Embeddings engine (Amazon Titan). The Embeddings engine generates a prompt (Question +) which is then fed into a Large Language Model (Claude v3). The LLM provides a response back to the User. The process involves several numbered steps: 1. User asks a question, 2. LangChain processes the question, 3. Streamlit interacts with LangChain, 4. LangChain sends the question to the Embeddings engine, 5. The Embeddings engine generates the prompt, 6. The prompt is sent to the LLM, and 7. The LLM returns the response to the User.

CodeWhisperer AWS: profile:default

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20240905**Generative AI Use Cases with  
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Source LLMs

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Analysis

## ▼ AWS account access

- [Open AWS console  
\(us-west-2\)](#)

- [Get AWS CLI credentials](#)

[Exit event](#)

Event ends in 2 days 18 hours 52 minutes.

X

i

2. Let's upload a PDF - [Amazon Aurora FAQs](#) [ ] Load/save this file and upload it to your Streamlit application by clicking **Browse files**. Once you've uploaded the file, click **Process**. Once the PDF is uploaded successfully, you will see a **PDF uploaded successfully** message.

What is Amazon Aurora?

Amazon Aurora is a modern [relational database](#) service offering performance and high availability at scale, fully open-source MySQL- and PostgreSQL-compatible editions, and a range of developer tools for building serverless and machine learning (ML)-driven applications.

Aurora features a distributed, fault-tolerant, and self-healing storage system that is decoupled from compute resources and auto-scales up to 128 TiB per database instance. It delivers high performance and availability with up to 15 low-latency read replicas, point-in-time recovery, continuous backup to Amazon Simple Storage Service (Amazon S3), and replication across three Availability Zones (AZs).

Aurora is also a fully managed service that automates time-consuming administration tasks such as hardware provisioning, database setup, patching, and backups while providing the security, availability, and reliability of commercial databases at one-tenth of the cost.

Is Amazon Aurora MySQL compatible?

Amazon Aurora is drop-in [compatible with existing MySQL](#) open-source databases and adds support for new releases regularly. This means you can easily migrate MySQL databases to and from Aurora using standard import/export tools or snapshots. It also means that most of the code, applications, drivers, and tools you already use with MySQL databases today can be used with Aurora with little or no change. This makes it easy to move applications between the two



[B] https://#3c8d11a11214 x





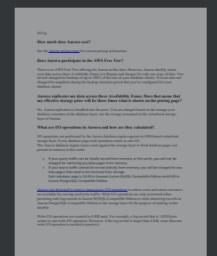
1



2



3



4

## What is Amazon Aurora?

Amazon Aurora is a modern [relational database](#) service offering performance and high availability at scale, fully open-source MySQL- and PostgreSQL-compatible editions, and a range of developer tools for building serverless and machine learning (ML)-driven applications.

Aurora features a distributed, fault-tolerant, and self-healing storage system that is decoupled from compute resources and auto-scales up to 128 TiB per database instance. It delivers high performance and availability with up to 15 low-latency read replicas, point-in-time recovery, continuous backup to Amazon Simple Storage Service (Amazon S3), and replication across three Availability Zones (AZs).

Aurora is also a fully managed service that automates time-consuming administration tasks such as hardware provisioning, database setup, patching, and backups while providing the security, availability, and reliability of commercial databases at one-tenth of the cost.

## Is Amazon Aurora MySQL compatible?

Amazon Aurora is drop-in [compatible with existing MySQL](#) open-source databases and adds support for new releases regularly. This means you can easily migrate MySQL databases to and from Aurora using standard import/export tools or snapshots. It also means that most of the code, applications, drivers, and tools you already use with MySQL databases today can be used with Aurora with little or no change. This makes it easy to move applications between the two engines.

You can see the current Amazon Aurora MySQL release compatibility information in the [documentation](#).

## Is Amazon Aurora PostgreSQL compatible?

Amazon Aurora is drop-in [compatible with existing PostgreSQL](#) open-source databases and adds support for new releases regularly. This means you can easily [migrate PostgreSQL databases to and from Aurora using standard import/export tools or snapshots](#). It also means that most of the code, applications, drivers, and tools you already use with PostgreSQL databases today can be used with Aurora with [little or no change](#).

File Edit Find View Go Run Tools Window Support Preview Run

W Share

Welcome python3 - "ip-10-215-10-1" rag\_app.py [B] https://fa62ca4f9c914c

Stopping...  
(venv-qa-bedrock) WSParticipantRole:~/environment/aurora-postgresql-pgvector/02\_RetrievalAugmentedGeneration/02\_QuestionAnswering\_Bedrock\_LLMs (main) \$ streamlit run rag\_app.py --server.enableXsrfProtection false --server.port 8080  
Collecting usage statistics. To deactivate, set browser.gatherUsageStats to false.  
  
You can now view your Streamlit app in your browser.  
Local URL: <http://localhost:8080>  
Network URL: <http://10.215.10.183:8080>  
External URL: <http://54.201.194.246:8080>

/home/ec2-user/environment/aurora-postgresql-pgvector/02\_RetrievalAugmentedGeneration/02\_QuestionAnswering\_Bedrock\_LLMs/rag\_app.py:49: LangChainDeprecationWarning: The class `BedrockEmbeddings` was deprecated in LangChain 0.2.11 and will be removed in 1.0. An updated version of the class exists in the langchain-aws package and should be used instead. To use it run `pip install -U langchain-aws` and import as `from langchain\_aws import BedrockEmbeddings`. embeddings = BedrockEmbeddings(model\_id= "amazon.titan-embed-text-v2:0", client=BEDROCK\_CLIENT)

bash - "ip-10-215-10-183." Immediate WSParticipantRole:~/environment \$

Browser      
Pop Out Into New Window

# Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine

## Architecture



What is Amazon Aurora

User

AI

Large Language Model (Claude v3)

Embeddings (Amazon Titan)

LangChain

Streamlit

Prompt: Question +

main\* CodeWhisperer AWS: profile:default



#### Instructions:

1. Browse and upload PDF files
2. Click Process
3. Type your question in the search bar to get more insights

#### Your documents

Upload your PDFs here and click on 'Process'

Drag and drop files here  
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Browse files

Process

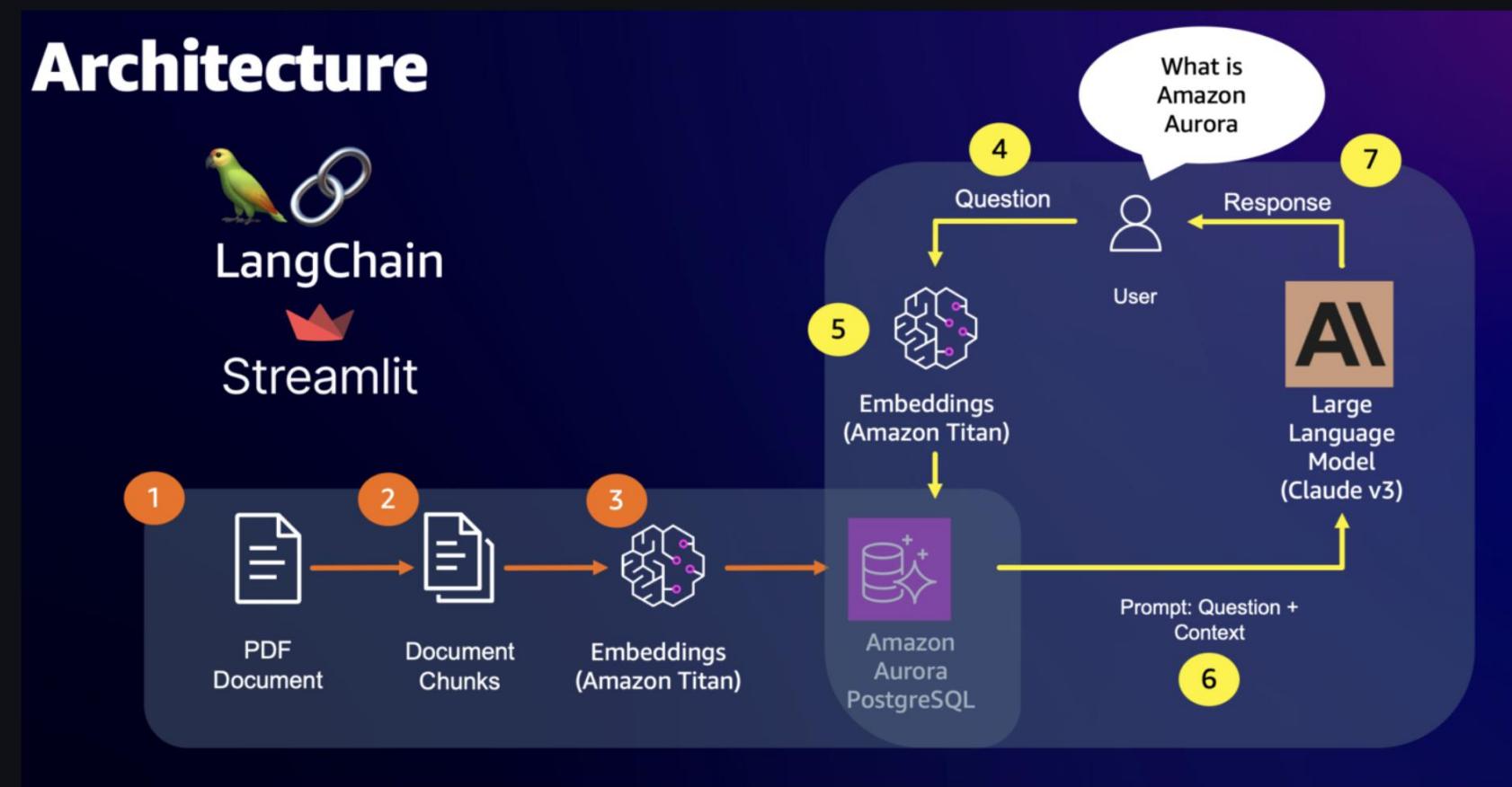
#### Sample questions to get started:

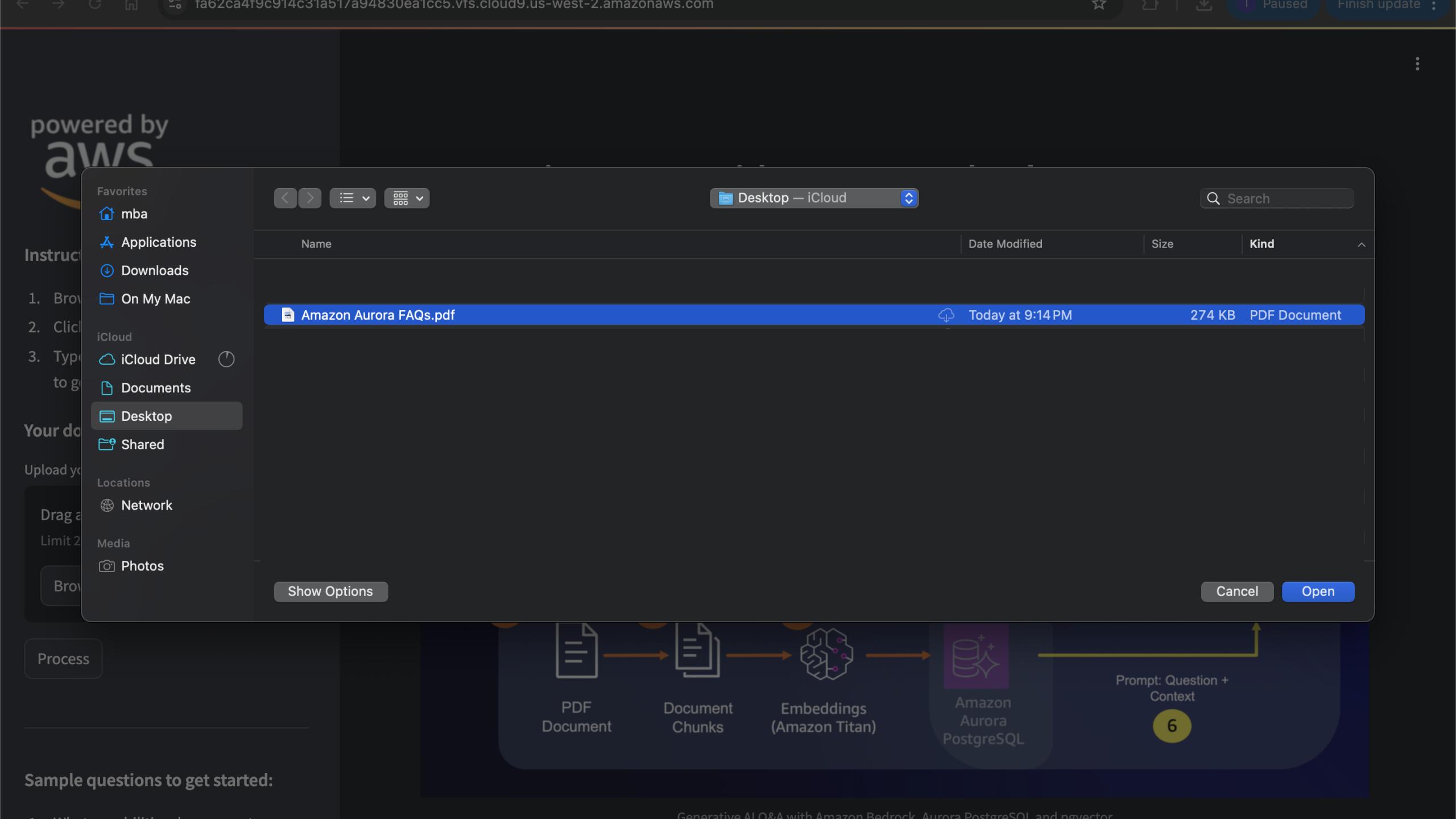
1. What capabilities does pgvector enable for Aurora PostgreSQL?

# Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector



Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine





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Process

Sample questions to get started:

Instructions:

1. Browse and upload PDF files
2. Click Process
3. Type your question in the search bar to get more insights

Your documents

Upload your PDFs here and click on 'Process'

Drag and drop files here  
Limit 200MB per file • PDF

[Browse files](#)

 Amazon Aurora FAQs.pdf   
274.0KB

[Process](#)

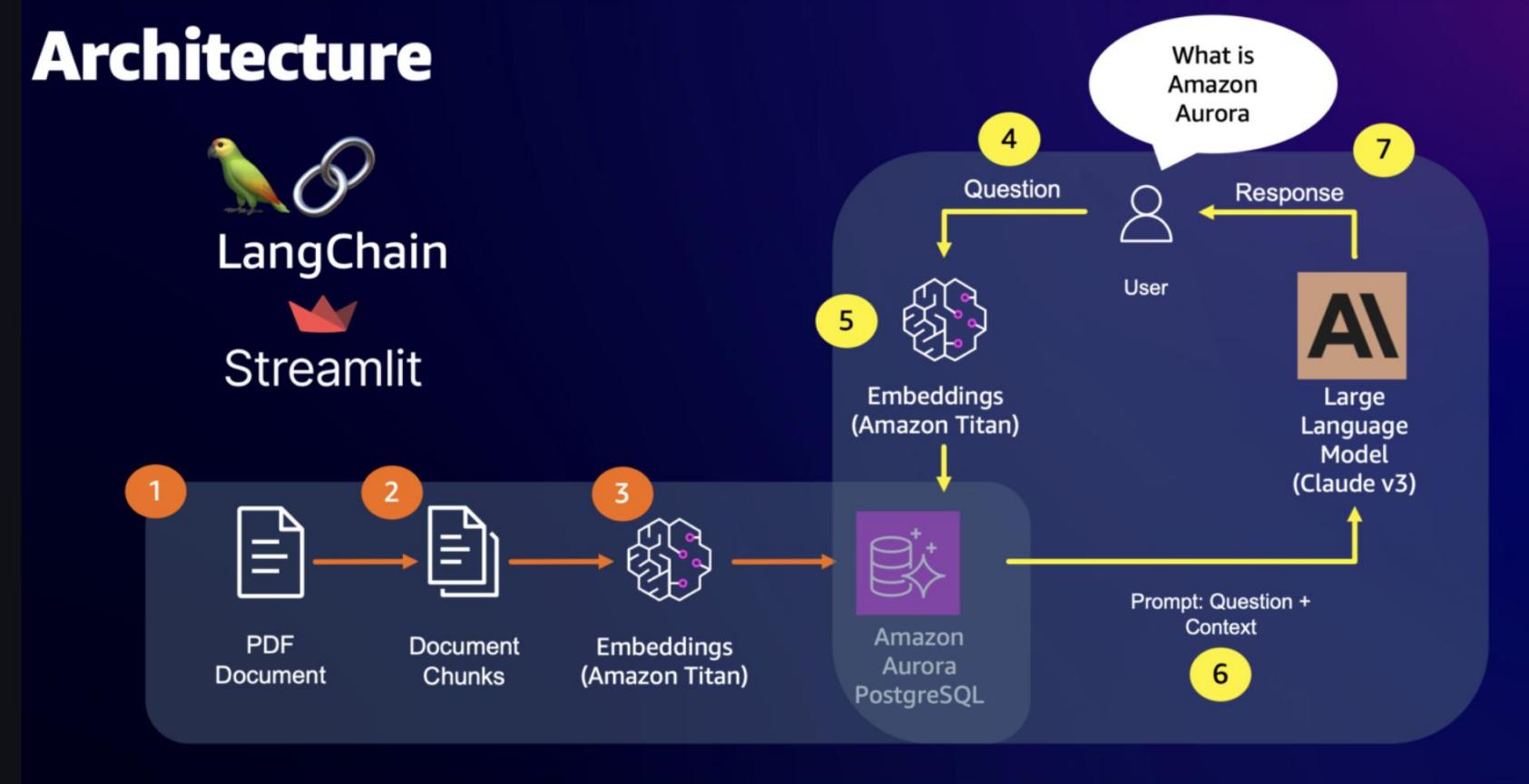
Sample questions to get started:

# Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector



Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine

## Architecture



Instructions:

1. Browse and upload PDF files
2. Click Process
3. Type your question in the search bar to get more insights

Your documents

Upload your PDFs here and click on 'Process'

Drag and drop files here

Limit 200MB per file • PDF

**Browse files**

 Amazon Aurora FAQs.pdf   
274.0KB

**Process**

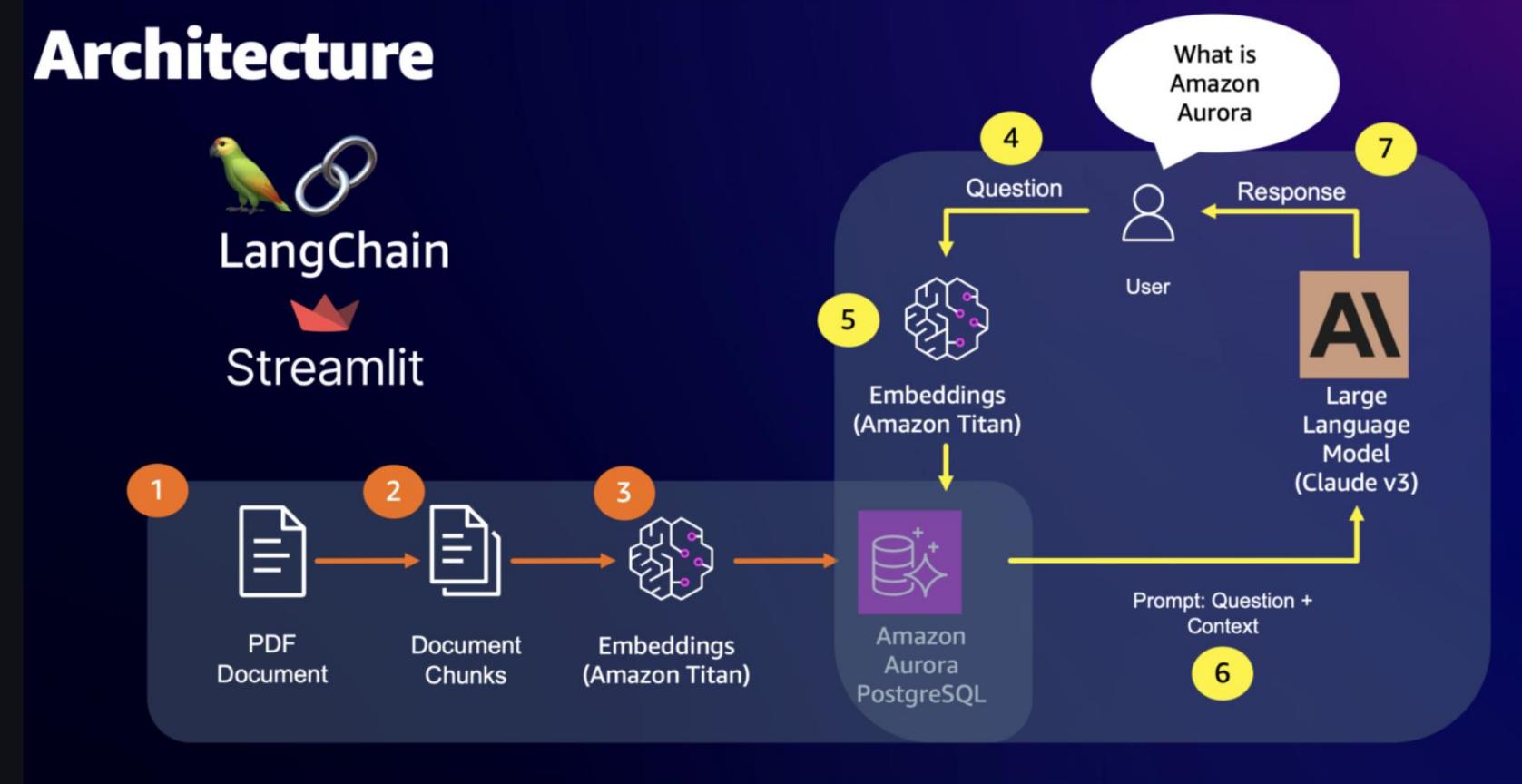
 PDF uploaded successfully!

# Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector



Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine

## Architecture



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Paused Finish update :

Amazon Aurora FAQs.pdf  
274.0KB

Process

✓ PDF uploaded successfully!

Sample questions to get started:

1. What capabilities does pgvector enable for Aurora PostgreSQL? ←
2. What is Optimized Reads?
3. How do Amazon Aurora Optimized Reads for Aurora PostgreSQL improve query performance?
4. What are agents for Amazon Bedrock?
5. How does Knowledge Bases for Amazon Bedrock chunk the documents before converting those chunks to embeddings?
6. Which vector databases are supported by Knowledge Bases for Amazon Bedrock?

The diagram illustrates the flow of data from a PDF document to a final response. It starts with a **PDF Document** (1), which is processed into **Document Chunks** (2). These chunks are then converted into **Embeddings (Amazon Titan)** (3). The embeddings are stored in **Amazon Aurora PostgreSQL** (4). A **User** (5) asks a **Question** (6). The question is combined with context from the database to form a **Prompt: Question + Context** (7), which is then fed into a **Large Language Model (Claude v3)**. The model generates a **Response**, which is returned to the User.

LangChain Streamlit

1. PDF Document → 2. Document Chunks → 3. Embeddings (Amazon Titan) → 4. Question → 5. User → 6. Prompt: Question + Context → 7. Response

Aurora

Large Language Model (Claude v3)

Embeddings (Amazon Titan)

Amazon Aurora PostgreSQL

Question

User

Response

Prompt: Question + Context

Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Ask a question about your documents:

What is Amazon Aurora?

Submit

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Paused Finish update

Amazon Aurora FAQs.pdf 274.0KB

Process

✓ PDF uploaded successfully!

Sample questions to get started:

1. What capabilities does pgvector enable for Aurora PostgreSQL?
2. What is Optimized Reads?
3. How do Amazon Aurora Optimized Reads for Aurora PostgreSQL improve query performance?
4. What are agents for Amazon Bedrock?
5. How does Knowledge Bases for Amazon Bedrock chunk the documents before converting those chunks to embeddings?
6. Which vector databases are supported by Knowledge Bases for Amazon Bedrock?

# LangChain Streamlit

The diagram illustrates the generative AI Q&A process. It starts with a **PDF Document** (1), which is processed into **Document Chunks** (2). These chunks are then converted into **Embeddings (Amazon Titan)** (3). The embeddings are stored in **Amazon Aurora PostgreSQL** (4). A **User** (5) asks a **Question** (6). This question is combined with context from the database to form a **Prompt: Question + Context** (7), which is then sent to a **Large Language Model (Claude v3)**. The model generates a **Response**, which is returned to the **User**.

Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Ask a question about your documents:

What capabilities does pgvector enable for Aurora PostgreSQL? ←

Press Enter to apply

Submit

Limit 200MB per file • PDF

Browse files

Amazon Aurora FAQs.pdf X  
274.0KB

Process

### Sample questions to get started:

1. What capabilities does pgvector enable for Aurora PostgreSQL?
2. What is Optimized Reads?
3. How do Amazon Aurora Optimized Reads for Aurora PostgreSQL improve query performance?
4. What are agents for Amazon Bedrock?
5. How does Knowledge Bases for Amazon Bedrock chunk the documents before converting those chunks to embeddings?
6. Which vector databases are supported by Knowledge Bases for Amazon Bedrock?

Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Ask a question about your documents:

What capabilities does pgvector enable for Aurora PostgreSQL?

Submit

❓ What capabilities does pgvector enable for Aurora PostgreSQL?

Based on the context provided:

pgvector enables the following capabilities for Amazon Aurora PostgreSQL:

- Store and index billions of vector embeddings generated from machine learning (ML) and artificial intelligence (AI) models in your database. These embeddings can come from services like Amazon Bedrock (limited preview) or Amazon SageMaker.
- Query and search these vector embeddings in your Aurora PostgreSQL database to perform efficient semantic similarity searches.
- The vector embeddings can represent the semantic meaning of various data types like text, images, and videos.
- Combine semantic similarity searches on vector embeddings with other tabular data stored in your Aurora PostgreSQL database.

In summary, pgvector allows you to leverage vector embeddings from AI/ML models within your Aurora PostgreSQL database for efficient semantic search and analysis, combining the power of these embeddings with your structured data.

## aws workshop studio

Environment Setup

## ▼ Question Answering using Amazon Bedrock LLMs

Question Answering with RAG Chatbot Application

[Run Streamlit Application](#)

## ► Question Answering using Open Source LLMs

► Response Streaming

## ► Semantic Search &amp; Sentiment Analysis

## ► Knowledge Bases for Amazon Bedrock with Aurora PostgreSQL

## ► Movie Recommendations using Aurora ML and Amazon Bedrock

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[AWS Documentation Homepage](#)

## ▼ AWS account access

[Open AWS console \(us-west-2\)](#)[Get AWS CLI credentials](#)[Exit event](#)

Event ends in 2 days 18 hours 34 minutes.

psql  
\d+

Copied!



```
python3.9 - "ip-10-215-10-1" * rag_app.py      x  bash - "ip-10-215-10-46" * +  
WSParticipantRole:~/environment $ psql  
psql (14.8, server 15.4)  
WARNING: psql major version 14, server major version 15.  
Some psql features might not work.  
SSL connection (protocol: TLSv1.2, cipher: AES128-SHA256, bits: 128, compression: off)  
Type "help" for help.  
  
postgres=> \d+  
   List of relations  
 Schema |        Name        | Type | Owner | Persistence | Access method |  Size   | Description  
-----+----------------+-----+-----+-----+-----+-----+-----+  
 public | langchain_pg_collection | table | postgres | permanent | heap | 16 kB |  
 public | langchain_pg_embedding | table | postgres | permanent | heap | 592 kB |  
 public | products             | table | postgres | permanent | heap | 31 MB |  
(3 rows)  
  
postgres=>
```

Langchain creates two tables when we upload the PDF files: `langchain_pg_collection` and `langchain_pg_embedding`:

- `langchain_pg_collection` stores the name of the collection (default: langchain).
- `langchain_pg_embedding` stores the content of the PDFs as well as the embeddings for the content.

Reference: [Source Code](#)

Let's look at the content for `langchain_pg_collection`:

File Edit Find Go Run Tools Window Support Preview Run Share

Welcome python3 - "ip-10-215-10-1" rag\_app.py psql - "ip-10-215-10-183" [B] https://fa62ca4f9c914c

**WSParticipantRole:~/environment \$ psql**

```
psql (14.12, server 15.6)
WARNING: psql major version 14, server major version 15.
          Some psql features might not work.
SSL connection (protocol: TLSv1.2, cipher: AES128-SHA256, bits: 128, compression: off)
Type "help" for help.
```

postgres=> \d+
List of relations

Schema	Name	Type	Owner	Persistence	Access method
	Size	Description			
public	langchain_pg_collection	table	postgres	permanent	heap
	16 kB				
public	langchain_pg_embedding	table	postgres	permanent	heap
	2152 kB				

(2 rows)

postgres=>

**WSParticipantRole:~/environment \$**

[B] https://fa62ca4f9c914c

Browser

## Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine

**Architecture**

The diagram illustrates the architecture of Generative AI Q&A. It shows a flow from PDF documents to Streamlit, then to LangChain, which generates embeddings via Amazon Titan. These embeddings are stored in Amazon Aurora PostgreSQL. A user asks a question, which is processed by an AI model (Claude v3) along with context from the database. The AI model generates a response, which is then sent back to the user.

main\* CodeWhisperer AWS: profile:default

Environment Setup

## ▼ Question Answering using Amazon Bedrock LLMs

Question Answering with RAG Chatbot Application

[Run Streamlit Application](#)

## ► Question Answering using Open Source LLMs

► Response Streaming

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► Movie Recommendations using Aurora ML and Amazon Bedrock

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## ▼ AWS account access

[Open AWS console  
\(us-west-2\)](#) [Get AWS CLI credentials](#)

Exit event

Event ends in 2 days 18 hours 34 minutes.

Let's look at the content for langchain\_pg\_collection:

```
select * from langchain_pg_collection;
```



```
postgres=> select * from langchain_pg_collection;
      name      | cmetadata |          uuid
-----+-----+-----+
    langchain | null     | 6ca54923-56da-45ca-a2d7-dc7b5afce0b8
(1 row)
```

Let's describe the langchain\_pg\_embedding table (note the vector data type for the embedding column):

```
\d+ langchain_pg_embedding;
```



```
postgres=> \d+ langchain_pg_embedding;
           Table "public.langchain_pg_embedding"
   Column   |      Type       | Collation | Nullable | Default | Storage | Compression | Stats target | Description
-----+-----+-----+-----+-----+-----+-----+-----+-----+
collection_id | uuid          |           |          |          | plain   |           |           |           |
embedding    | vector         |           |          |          | extended|           |           |           |
document     | character varying |           |          |          | extended|           |           |           |
cmetadata    | json           |           |          |          | extended|           |           |           |
custom_id    | character varying |           |          |          | extended|           |           |           |
uuid         | uuid           |           |          | not null| plain   |           |           |           |
Indexes:
  "langchain_pg_embedding_pkey" PRIMARY KEY, btree (uuid)
Foreign-key constraints:
  "langchain_pg_embedding_collection_id_fkey" FOREIGN KEY (collection_id) REFERENCES langchain_pg_collection(uuid) ON DELETE CASCADE
Access method: heap
```

File Edit Find Go Run Tools Window Support Preview Run Share

Welcome python3 - "ip-10-215-10-1" rag\_app.py psql - "ip-10-215-10-183." [B] https://fa62ca4f9c914c

psql (14.12, server 15.6)  
WARNING: psql major version 14, server major version 15.  
Some psql features might not work.  
SSL connection (protocol: TLSv1.2, cipher: AES128-SHA256, bits: 128, compression: off)  
Type "help" for help.

postgres=> \d+  
List of relations  

Schema	Name	Type	Owner	Persistence	Access method
thod	Size	Description			
public	langchain_pg_collection	table	postgres	permanent	heap   16 kB
public	langchain_pg_embedding	table	postgres	permanent	heap   2152 kB

(2 rows)

postgres=> select \* from langchain\_pg\_collection;  
uuid | name | cmetadata  
-----+-----+-----  
08ba4509-9468-4f89-b0c1-3a0712b59b46 | langchain | null  
(1 row)

postgres=>

bash - "ip-10-215-10-183." Immediate

WSParticipantRole:~/environment \$

# Generative AI Q&A with Amazon Bedrock, Aurora PostgreSQL and pgvector

Leverage Foundational Models from [Amazon Bedrock](#) and [pgvector](#) as Vector Engine

## Architecture

The architecture diagram illustrates the workflow for generating AI responses. It starts with a **PDF Document** (1), which is processed into **Document Chunks** (2). These chunks are then converted into **Embeddings (Amazon Titan)** (3). The embeddings are stored in **Amazon Aurora PostgreSQL** (4). A **User** (5) sends a **Question** (6) to the system. The question is processed by the **Large Language Model (Claude v3)** (7), which generates a **Response** (8). The response is then sent back to the User.

main\* CodeWhisperer AWS: profile:default

Environment Setup

## ▼ Question Answering using Amazon Bedrock LLMs

Question Answering with RAG Chatbot Application

[Run Streamlit Application](#)

## ► Question Answering using Open Source LLMs

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(us-west-2) [Get AWS CLI credentials](#)

Exit event

Event ends in 2 days 18 hours 33 minutes.

Let's look at the content for langchain\_pg\_collection:

```
select * from langchain_pg_collection;
```



```
postgres=> select * from langchain_pg_collection;
          name | cmetadata |          uuid
-----+-----+-----+
      langchain | null     | 6ca54923-56da-45ca-a2d7-dc7b5afce0b8
(1 row)
```

Let's describe the langchain\_pg\_embedding table (note the vector data type for the embedding column):

```
\d+ langchain_pg_embedding;
```



```
postgres=> \d+ langchain_pg_embedding;
           Table "public.langchain_pg_embedding"
   Column    |      Type       | Collation | Nullable | Default | Storage | Compression | Stats target | Description
-----+-----+-----+-----+-----+-----+-----+-----+-----+
collection_id | uuid          |           |          |          | plain   |           |           |           |
embedding     | vector         |           |          |          | extended|           |           |           |
document      | character varying |           |          |          | extended|           |           |           |
cmetadata     | json           |           |          |          | extended|           |           |           |
custom_id     | character varying |           |          |          | extended|           |           |           |
uuid          | uuid           |           |          | not null| plain   |           |           |           |
Indexes:
  "langchain_pg_embedding_pkey" PRIMARY KEY, btree (uuid)
Foreign-key constraints:
  "langchain_pg_embedding_collection_id_fkey" FOREIGN KEY (collection_id) REFERENCES langchain_pg_collection(uuid) ON DELETE CASCADE
Access method: heap
```

pgvector\_dryrun 2024-06-18T17:45:49Z | 404 Not Found | Readme | Amazon Bezos | AWS Clouds | general pgvector labs | Generative AI Q&A with |

us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2# Paused Finish update

File Edit Find View Go Run Tools Window Support Preview Run

W Share

>Welcome python3 - "ip-10-215-10-1" rag\_app.py psql - "ip-10-215-10-183.l

postgres=> \d+ langchain\_pg\_embedding;

Column	Type	Collation	Nullable	Default	Storage	Compression	Stats target	Description
id	character varying		not null		extended			
collection_id	uuid				plain			
embedding	vector				extended			
document	character varying				extended			
cmetadata	jsonb				extended			

Indexes:

- "langchain\_pg\_embedding\_pkey" PRIMARY KEY, btree (id)
- "ix\_cmetadata\_gin" gin (cmetadata jsonb\_path\_ops)
- "ix\_langchain\_pg\_embedding\_id" UNIQUE, btree (id)

Foreign-key constraints:

- "langchain\_pg\_embedding\_collection\_id\_fkey" FOREIGN KEY (collection\_id) REFERENCES langchain\_pg\_collection(uuid) ON DELETE CASCADE

Access method: heap

postgres=>

bash - "ip-10-215-10-183.l" Immediate

WSParticipantRole:~/environment \$

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/4-retrieval-augmented-generation/question-answe...      

## aws workshop studio

### Environment Setup

- Question Answering using Amazon Bedrock LLMs
  - Question Answering with RAG Chatbot Application
  - Run Streamlit Application**
- Question Answering using Open Source LLMs
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### AWS Documentation Homepage

### AWS account access

- Open AWS console (us-west-2) **
- Get AWS CLI credentials

 Event ends in 2 days 18 hours 32 minutes.

To see how the vector embeddings look like, run this command:

```
\x
select embedding from langchain_pg_embedding limit 1;
```

```
embedding | [-0.0061035156,-0.30664062,0.78515625,-0.3125,-0.16601562,0.10644531,0.014282227,0.00051116943,-0.6796875,0.06298828,0.51171875,0.123046875,0.22949219,-0.02331543,-0.059570312,-0.103515625,0.14746094,0.36328125,0.080566406,0.45703125,-0.08984375,-0.36132812,-0.07519531,0.061035156,-0.11816406,0.040771484,-0.171875,0.21679688,-0.19628906,0.068359375,-0.3203125,-0.33984375,-0.06982422,0.26367188,-0.140625,-0.22460938,-0.3515625,-0.01953125,0.2109375,-0.014587402,0.4269875,-0.5878125,0.3671875,-0.37695312,0.546875,-0.2734375,0.030761719,-0.09375,-0.75390625,0.00653807617,0.1640625,-0.398625,0.050878125,0.23632812,0.36132812,-0.1328125,-0.16015625,-0.16015625,-0.07128906,0.034179688,-0.044433594,-0.375,-0.29492188,-0.08154297,-0.21289062,0.36132812,0.40820312,0.41
```

us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2#

File Edit Find View Go Run Tools Window Support Preview Run Share Settings

Welcome python3 - "ip-10-215-10-1" rag\_app.py psql - "ip-10-215-10-183.l

```
postgres=> \x
Expanded display is on.
postgres=> select embedding from langchain_pg_embedding limit 1;
-[ RECORD 1 ]-----
```

aws

bash - "ip-10-215-10-183." Immediate

WSParticipantRole:~/environment \$



Welcome

python3 - "ip-10-215-10-11:~\$

rag\_app.py

psql - "ip-10-215-10-183:~\$



```
embedding | [-0.08236936,-0.051286582,0.027974498,-0.013210179,-0.019523868,-0.0380764,0.015735656,-0.057503134,-0.01029617,-0.03885347,-0.034968123,-0.008304929,0.02457482,-0.005050951,-0.04837257,-0.04157321,-0.04176748,0.048178304,0.021855077,0.018843932,-0.0475955,0.034191053,0.047206964,0.0029018684,-0.013501581,-0.0285573,-0.025060488,-0.005220935,-0.029722905,-0.043710154,-0.03302545,0.016609859,0.03011144,-0.047012698,0.022437878,0.007770694,0.016804125,0.0055366196,-0.020786606,0.016221324,0.07110185,0.02195221,-0.0012445252,0.046429895,0.0011716749,0.00012597024,0.0009652659,-0.0064593893,0.054783393,-0.010927538,0.034773856,0.06022288,-0.024866221,0.013210179,-0.015929922,0.03283118,0.026614627,0.027585963,-0.02933437,0.0073335925,0.05944581,0.074987195,0.0143757835,0.047012698,-0.013404447,-0.037105065,-0.0022219329,-0.009033431,-0.046429895,0.02379775,-0.0380764,-0.031859845,-0.006945058,-0.014764318,0.034191053,-0.018455397,-0.002634751,0.03302545,0.051675115,-0.033413984,-0.032636914,-0.018455397,0.052452184,0.009227699,0.045264293,-0.02457482,0.0095191,0.018163998,0.029917171,-0.052840717,-0.006556523,0.0025254756,-0.0004128181,-0.056726065,-0.008110662,-0.006799357,0.044292957,0.028363032,-0.012918779,0.052452184,-0.0067507904,0.04623563,-0.03438532,-0.07887255,0.036133725,0.07032478,0.024283418,-0.062942624,-0.009130565,0.01058757,0.00845063,-0.026808893,-0.0078192605,-0.007430726,0.012238843,-0.042156015,-0.045652825,0.034968123,0.028363032,-0.023894884,-0.03224838,-0.017775463,-0.087031774,0.04565285,-0.011607474,0.018066863,0.042933084,0.0043224483,0.005148085,-0.07304452,-0.013501581,-0.034579586,-0.024186285,0.03516239,0.04040761,0.0035210957,-0.021078007,0.011461774,0.021563675,0.011947442,-0.021563675,-0.01612419,-0.020203805,-0.06915917,0.013890116,-0.010927538,-0.012627378,-0.032442648,-0.034579586,-0.003545379,-0.014861452,0.011558907,-0.025060488,-0.045070026,0.00859633,0.02059234,-4.2116553e-05,0.023506349,0.036327995,0.031082775,-0.026420359,0.00191839,-0.036327995,-0.018163998,0.002379775,-0.0014448634,0.019718137,0.052063648,-0.024089152,-0.020203805,-0.012093143,-0.06954771,0.021272276,0.0012809504,-0.018746799,-0.014084383,0.00090455735,0.026808893,0.02933437,-0.045070026,0.009956202,0.0112675065,0.037493598,0.018066863,0.0039581973,0.03011144,-0.052452184,0.049538173,0.019912403,-0.057503134,-0.01170468,-0.031471312,0.023117814,-0.008353496,0.01981527,0.022923548,0.013695848,0.006847924,-0.0006010146,-0.051286582,0.06449676,-0.019912403,0.045652825,0.017484061,0.0042010313,-0.059834342,-0.033413984,0.07304452,-0.043710154,0.012918779,0.017289793,0.0066050896,-0.017386928,0.012384543,0.036910795,0.01719266,0.031859845,-0.01826113,0.034773856,0.022243612,-0.025060488,-0.02059234,-0.036133725,0.023894884,0.028751567,-0.0057794536,-0.0066050896,-0.020106671,0.009713368,0.009033431,-0.07382159,-0.02933437,-0.0128216455,0.07382159,0.00056458946,0.015249987,0.0014873594,-0.038464934,-0.002719743,-0.022243612,-0.027003162,0.005730887,0.046429895,-0.0061194217,-0.013695848,0.01534712,-0.026614627,0.0006374397,0.038464934,-0.10490437,0.054394856,-0.004783834,0.04623563,0.03885347,0.09014005,-0.0008377779,-0.0025983257,0.028945835,0.039581973,0.009956202,-0.050120976,0.022923548,-0.036910795,-0.003715363,0.014181516,0.044487223,0.027197428,-0.028751567,-0.031471312,-0.00
```

bash - "ip-10-215-10-183:~\$

Immediate



WSParticipantRole:~/environment \$

## aws workshop studio

Environment Setup

### ▼ Question Answering using Amazon Bedrock LLMs

Question Answering with RAG Chatbot Application

[Run Streamlit Application](#)

### ► Question Answering using Open Source LLMs

### ► Response Streaming

### ► Semantic Search & Sentiment Analysis

### ► Knowledge Bases for Amazon Bedrock with Aurora PostgreSQL

### ► Movie Recommendations using Aurora ML and Amazon Bedrock

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### ▼ AWS account access

[Open AWS console  
\(us-west-2\)](#)

[Get AWS CLI credentials](#)

Exit event

Event ends in 2 days 18 hours 30 minutes.

deactivate > /dev/null 2>&1

Copied!



Let's truncate the `langchain_pg_collection` and `langchain_pg_embedding` table to use for subsequent labs. Go back to Cloud9 terminal to run the following commands in psql:

psql

```
TRUNCATE TABLE langchain_pg_collection CASCADE;  
TRUNCATE TABLE langchain_pg_embedding CASCADE;  
\q
```



```
postgres=> truncate table langchain_pg_collection cascade;  
NOTICE: truncate cascades to table "langchain_pg_embedding"  
TRUNCATE TABLE
```

Congratulations!

You have successfully completed this lab

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us-west-2.console.aws.amazon.com/cloud9/ide/fa62ca4f9c914c31a517a94830ea1cc5?region=us-west-2#

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Welcome python3 - "ip-10-215-10-1" x rag\_app.py x psql - "ip-10-215-10-183" x

```
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```

(1 row)

```
postgres=> deactivate > /dev/null 2>&1
postgres=>
```

bash - "ip-10-215-10-183" x Immediate x

WSParticipantRole:~/environment \$

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/4-retrieval-augmented-generation/question-answe...      

aws workshop studio   cloudchef01 ▾

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WSParticipantRole:~/environment \$



# Thank you!

Michael Lin

[linmicht@amazon.com](mailto:linmicht@amazon.com)