

Challenge AI 2024

Short how-to
AWS SageMaker

Login

<https://console.aws.amazon.com/>

Account ID,
IAM username and
Password

are sent to you by Challenge
organizers



Sign in as IAM user

Account ID (12 digits) or account alias

IAM user name

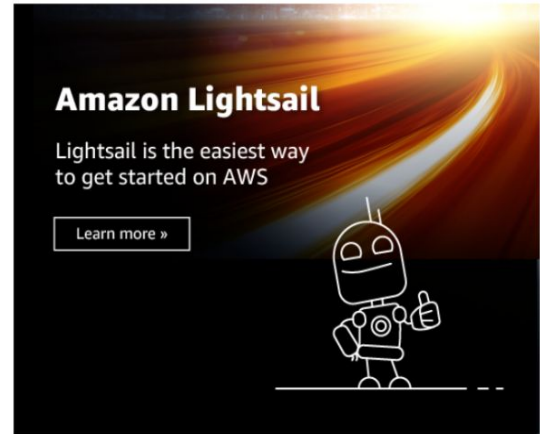
Password

☐ Remember this account

Sign in

[Sign in using root user email](#)

[Forgot password?](#)



English ▼

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SageMaker Service

Search the word “sagemaker” in search toolbar and select the service listed

SageMaker setup require a Domain and a UserProfile that can mange the servicein the Domain.

The Domain name is

QuickSetupDomain-YYYYMMDDTHMMSS (the capital digits are the timestamp).

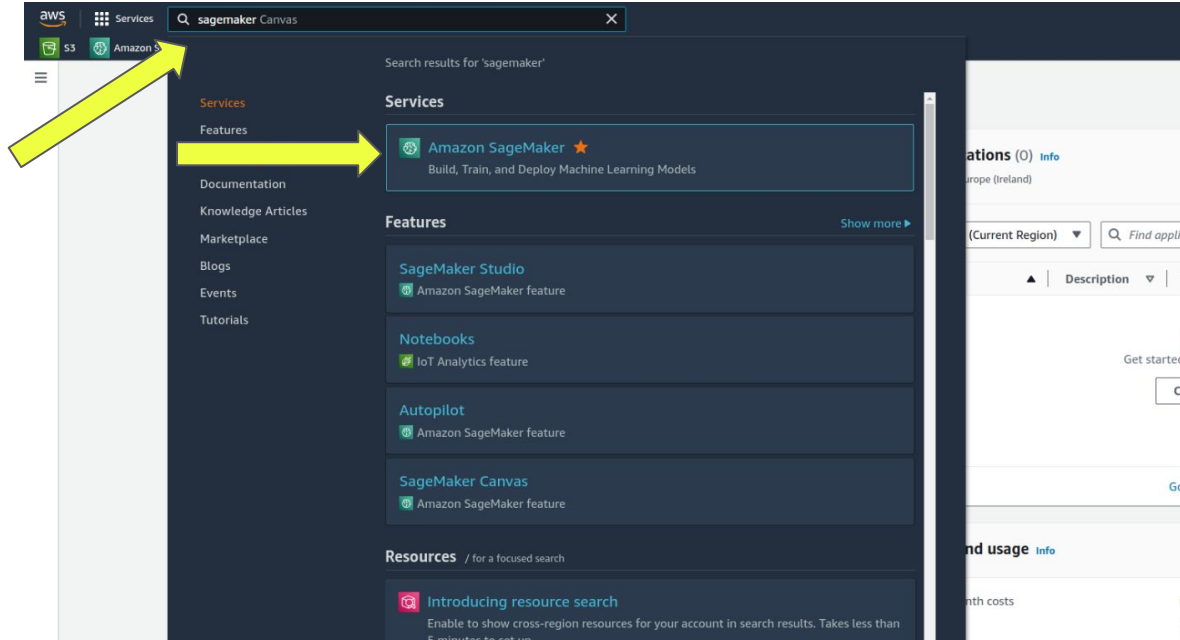
The UserProfile name is

default-YYYYMMDDTHMMSS (the capital digits are the timestamp).

A Domain and a UserProfile with right privileges have already been **created** and are available.

Documentation

<https://docs.aws.amazon.com/sagemaker/>

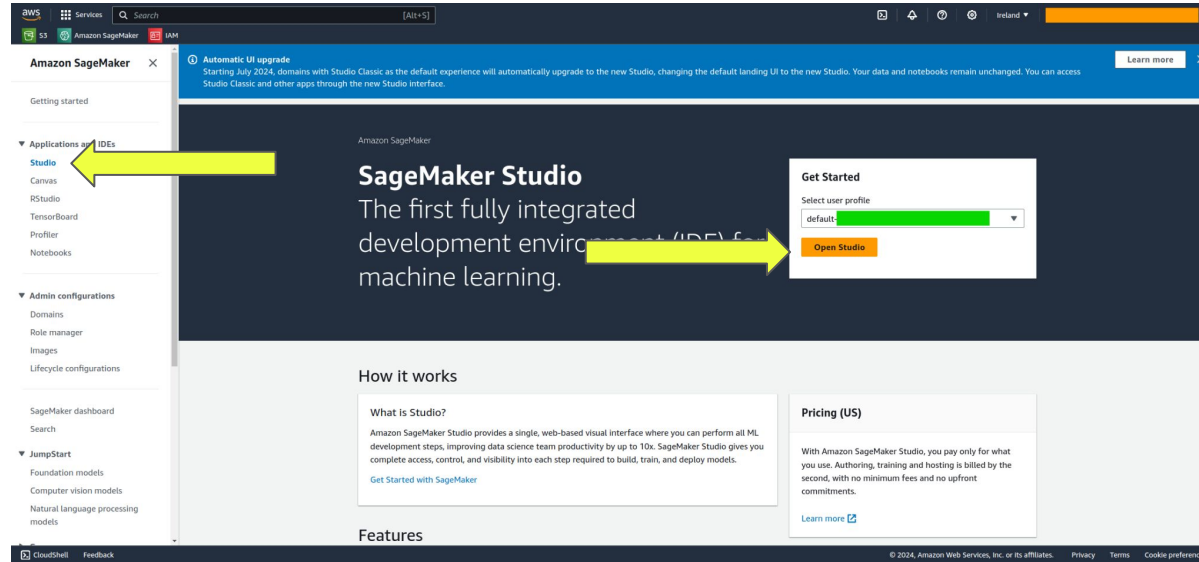


Application Studio

Select [Studio] from left menu

Select [Open studio] (right side of page). The selected profile user is the only one available and has the right privileges.

Check the region: all SageMaker services can be used in **eu-west-1 (Ireland)** Region only.

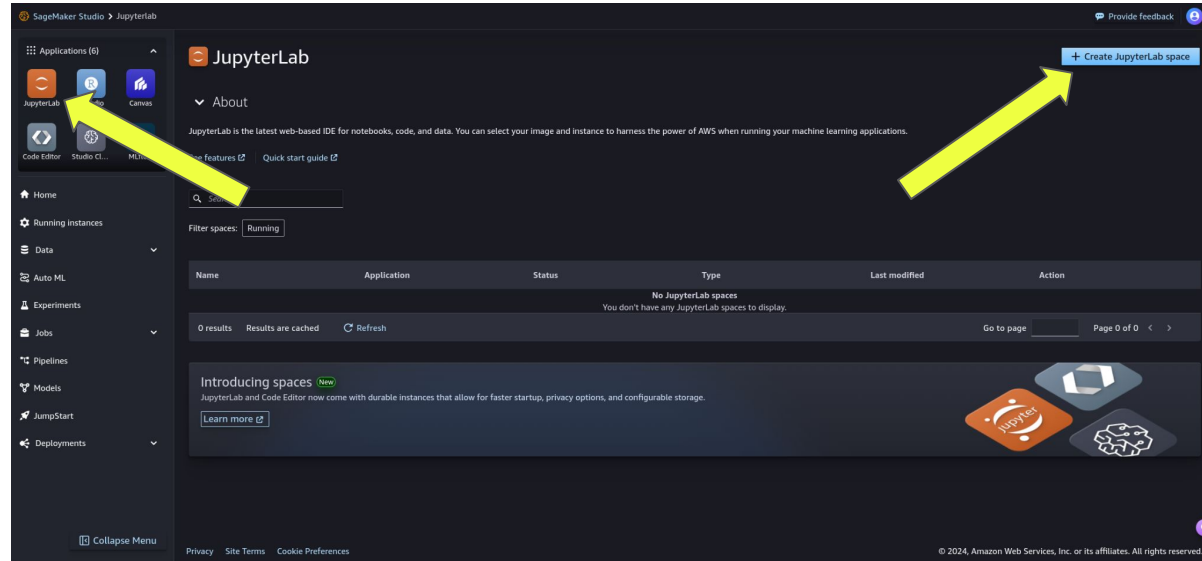


JupyterLab

JupyterLab

Select the JupyterLab service from left side.

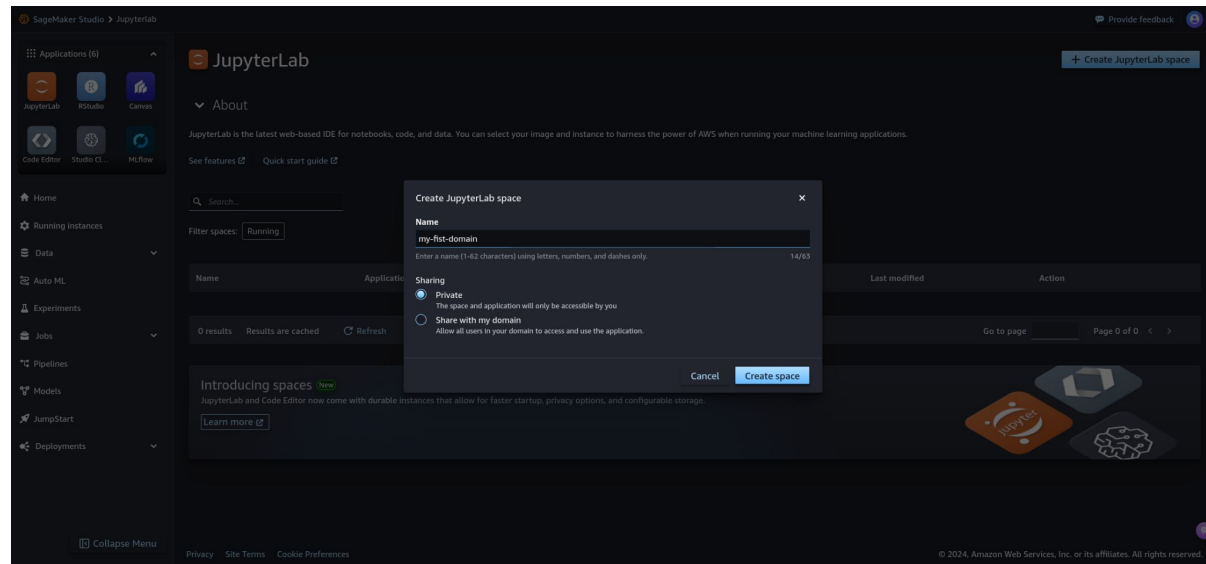
Create a space



The screenshot shows the SageMaker Studio JupyterLab interface. On the left sidebar, under 'Applications (6)', the JupyterLab icon is highlighted with a yellow arrow. In the top right corner, there is a button labeled '+ Create JupyterLab space', also highlighted with a yellow arrow. The main content area displays the JupyterLab title and an 'About' section. Below this, there is a table with columns: Name, Application, Status, Type, Last modified, and Action. The table is currently empty, showing 'No JupyterLab spaces' and '0 results'. At the bottom of the interface, there is a footer with copyright information: '© 2024, Amazon Web Services, Inc. or its affiliates. All rights reserved.'

JupyterLab

Set the name of the space



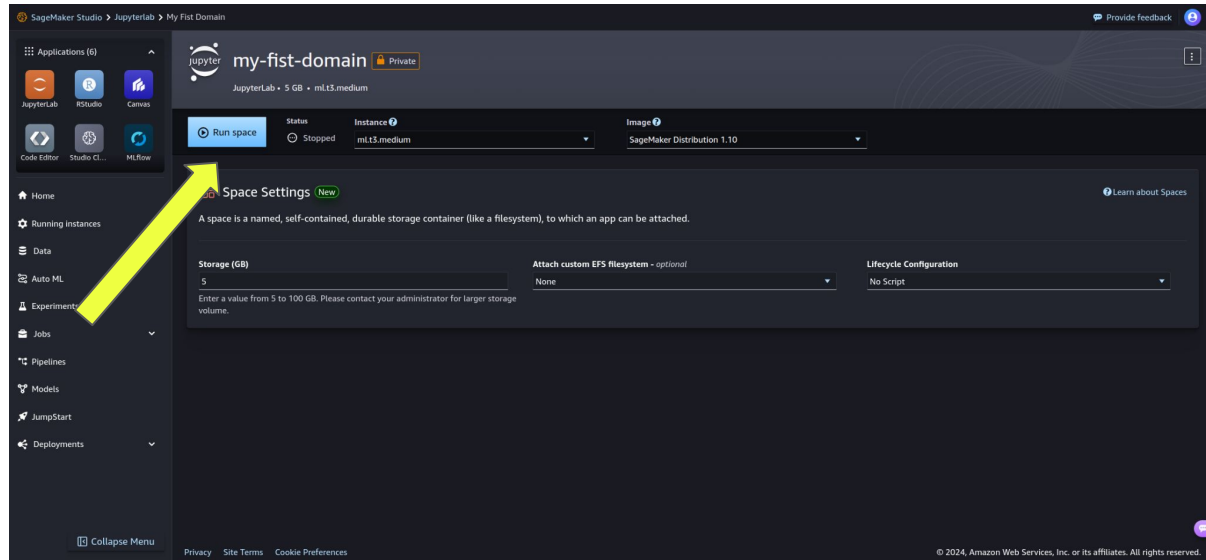
JupyterLab

Select the attribute of the space.

Select [Run space] to start it

Please note that the list of instance type reports all supported ones, but you are allowed to select only **some** instance type. The list of eligible is reported at the end of this document.

The creation process can take some time.



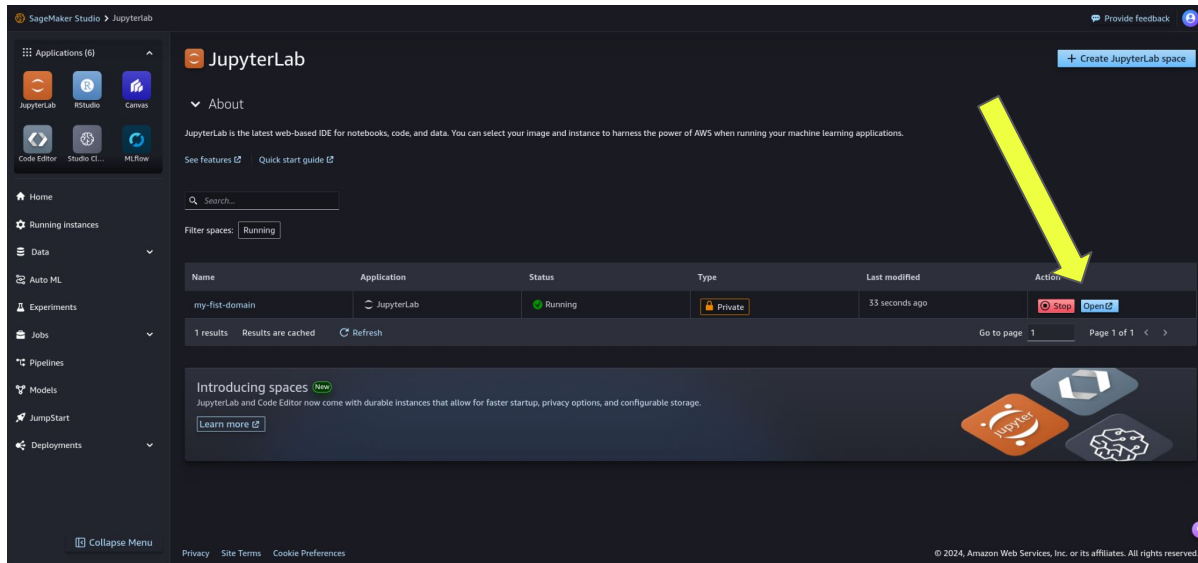
JupyterLab

To run JupyterLab, select [Open].

A new window with JupyterLab is opened

To stop the space, select [Stop].

A stopped space consumes less (budget) than a running space, but it is not zero cost.



The screenshot shows the SageMaker Studio JupyterLab interface. On the left is a sidebar with navigation options: Applications (6), Home, Running Instances, Data, Auto ML, Experiments, Jobs, Pipelines, Models, JumpStart, and Deployments. The main panel displays the JupyterLab application. At the top right, there is a '+ Create JupyterLab space' button. Below this, there is an 'About' section and a search bar. A table lists the running JupyterLab spaces. A yellow arrow points to the 'Stop' button in the 'Action' column for the 'my-first-domain' space.

Name	Application	Status	Type	Last modified	Action
my-first-domain	JupyterLab	Running	Private	33 seconds ago	Stop Open

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

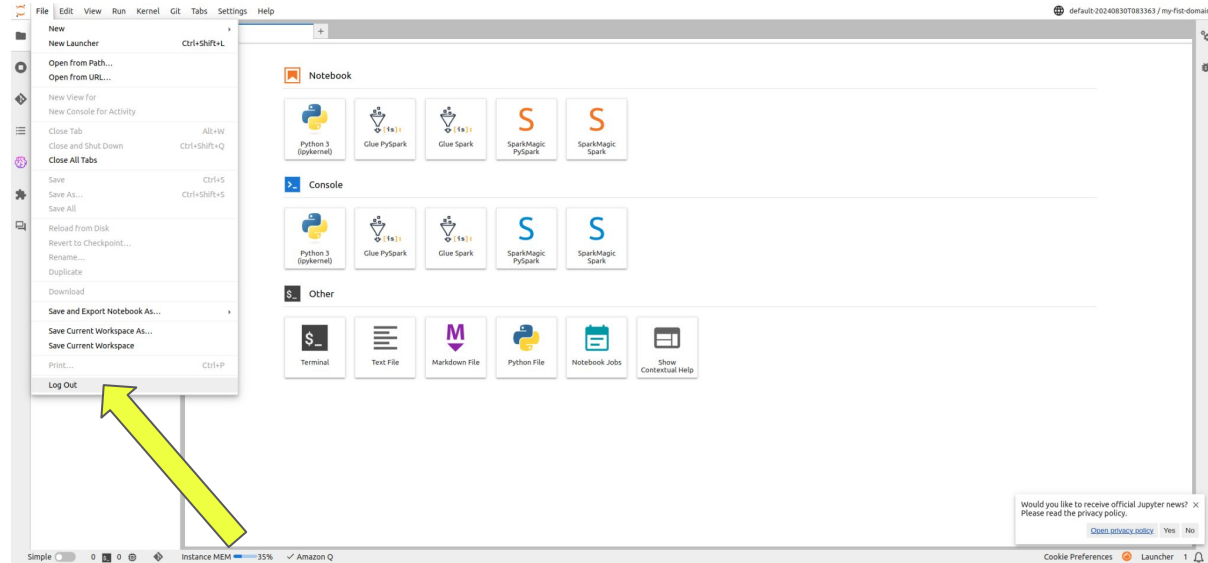
Introducing spaces New
JupyterLab and Code Editor now come with durable instances that allow for faster startup, privacy options, and configurable storage.
[Learn more](#)

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JupyterLab

Logout JupyterLab

The Logout closes the instance of JupyterLab. The space is still running.



JupyterLab

Delete JupyterLab Space / 1

Delete action is irreversible and all the data saved in the space are destroyed.

Select [Stop] to stop the Space

Select the Space

The screenshot shows the SageMaker Studio JupyterLab interface. On the left is a sidebar with navigation options: Home, Running Instances, Data, Auto ML, Experiments, Jobs, Pipelines, Models, JumpStart, and Deployments. The main panel displays the 'JupyterLab' section with an 'About' sub-header. Below this is a search bar and a 'Filter spaces: Running' dropdown. A table lists the running spaces:

Name	Application	Status	Type	Last modified	Action
my-first-domain	JupyterLab	Running	Private	33 seconds ago	Stop Open

Below the table, there is a '1 results' summary and a 'Refresh' button. At the bottom of the main panel, there is a section titled 'Introducing space' with a 'Learn more' link. Two yellow arrows are overlaid on the image: one points to the 'my-first-domain' space in the table, and the other points to the 'Stop' button in the 'Action' column.

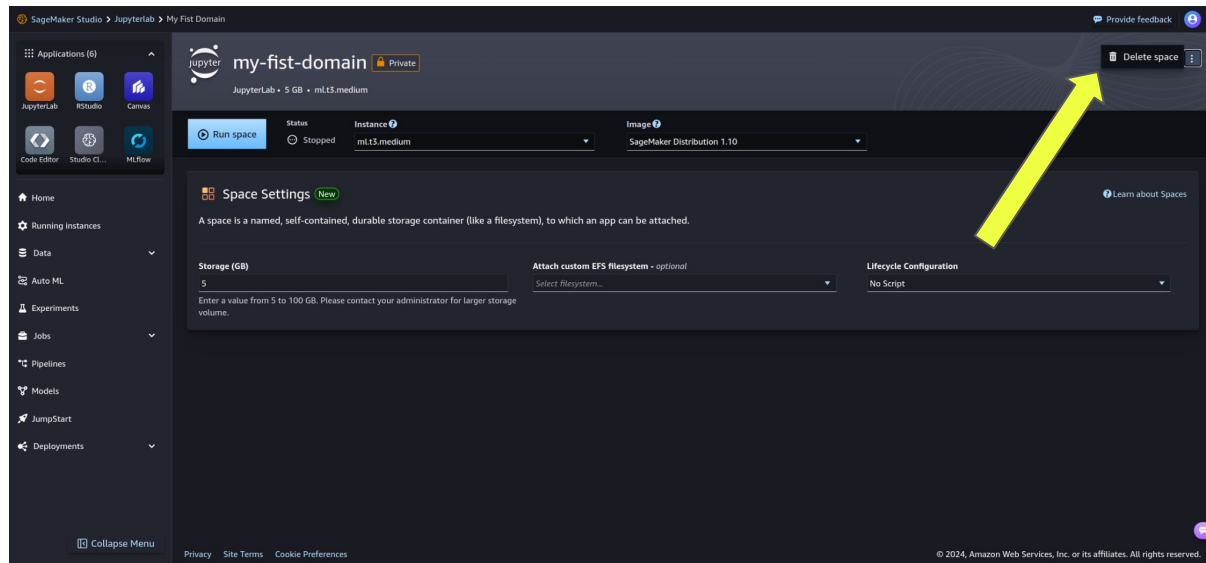
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JupyterLab

Delete JupyterLab Space / 2

Select [Delete space]

Delete action is irreversible and all the data saved in the space are destroyed.

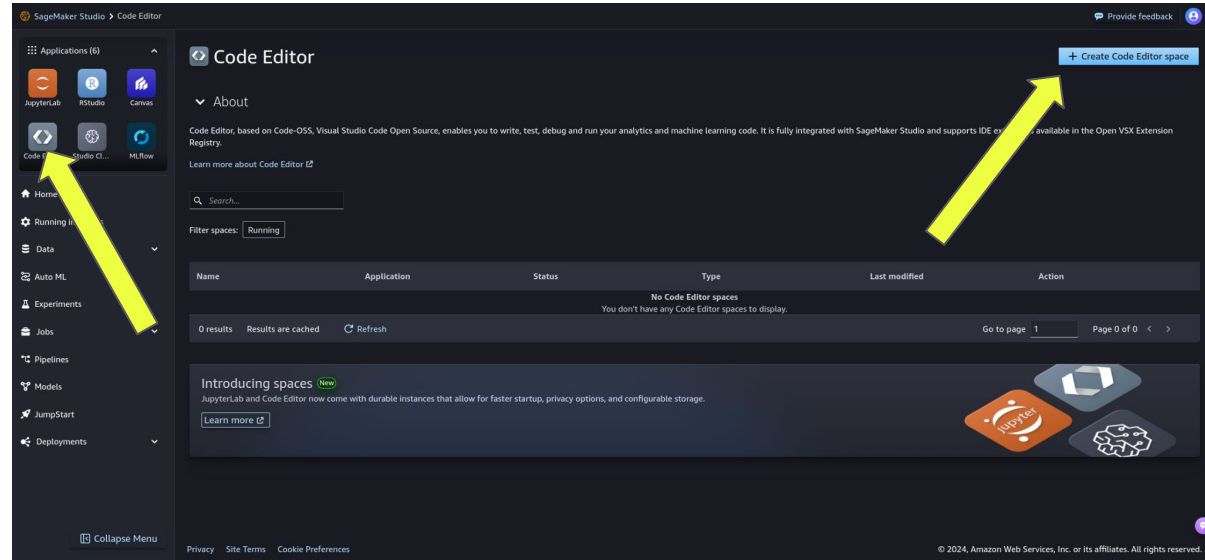


CodeEditor

CodeEditor

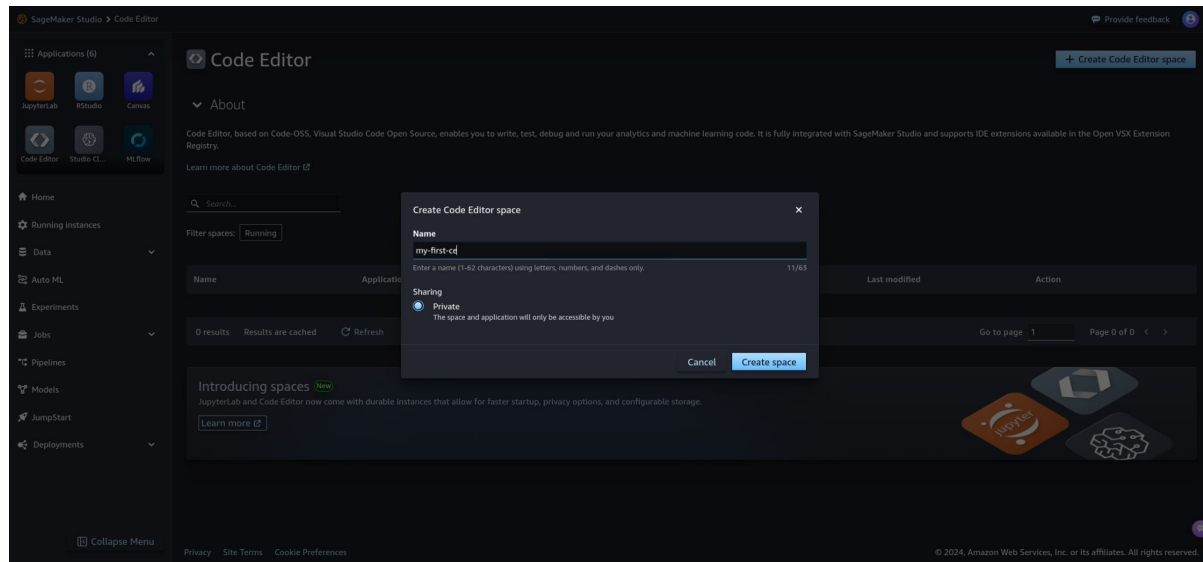
Select the CodeEditor service from left side.

Select [Create Code Editor space] to create a new space.



CodeEditor

Set the name of the space



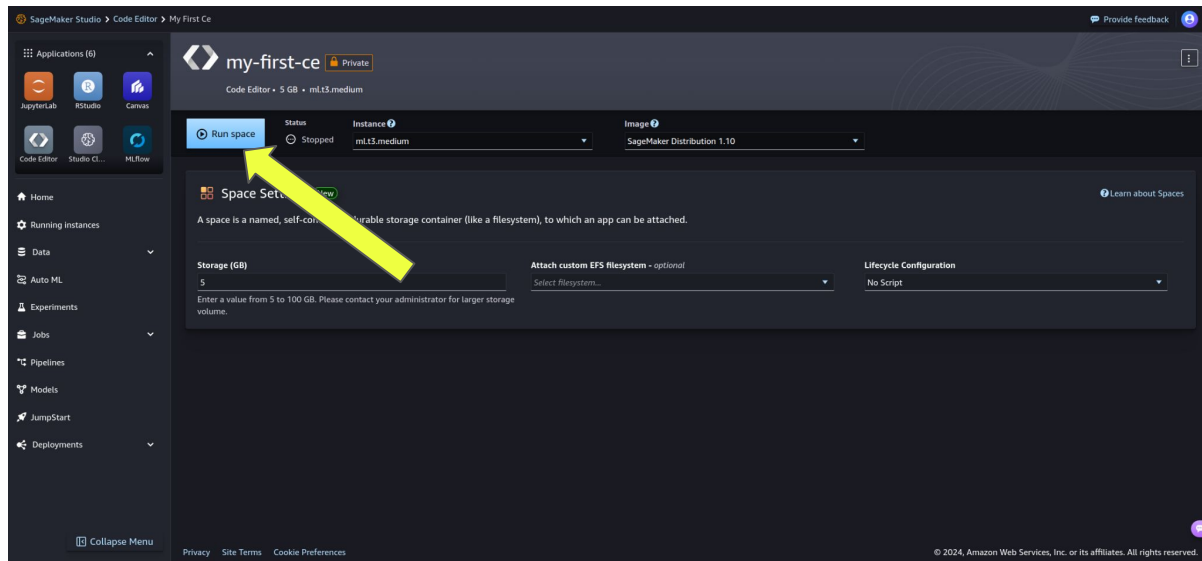
CodeEditor

Select the attribute of the space.

Select [Run space] to start it

Please note that the list of instance type reports all supported ones, but you are allowed to select only **some** instance type. The list of eligible is reported at the end of this document.

The creation process can take some time.



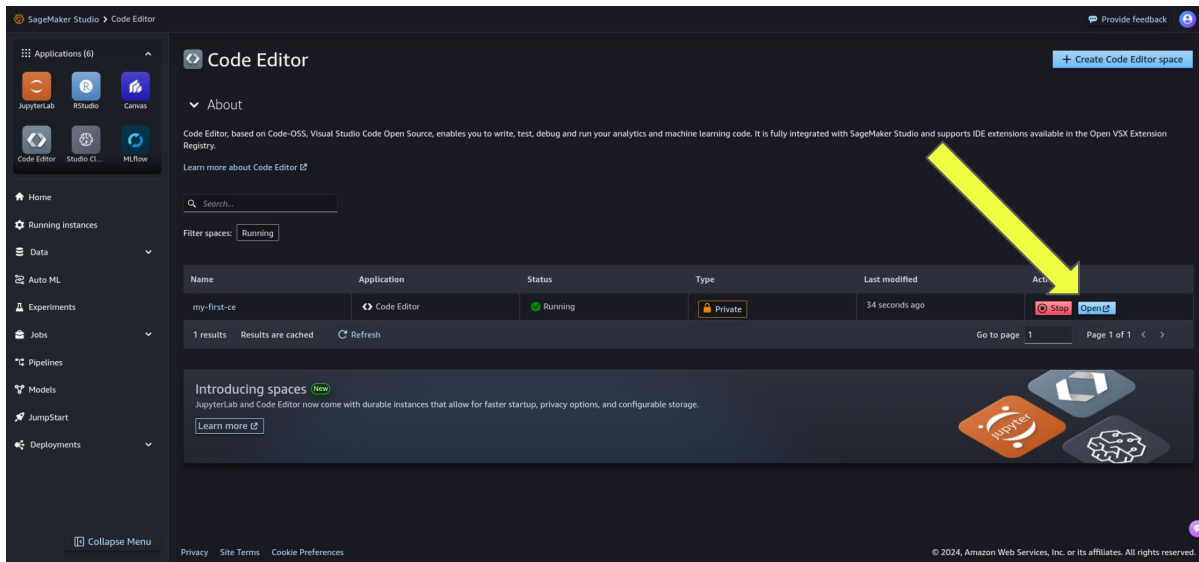
CodeEditor

To run JupyterLab, select [Open].

A new window with JupyterLab is opened

To stop, select [Stop]

A stopped space consumes less (budget) than a running space, but it is not zero cost.



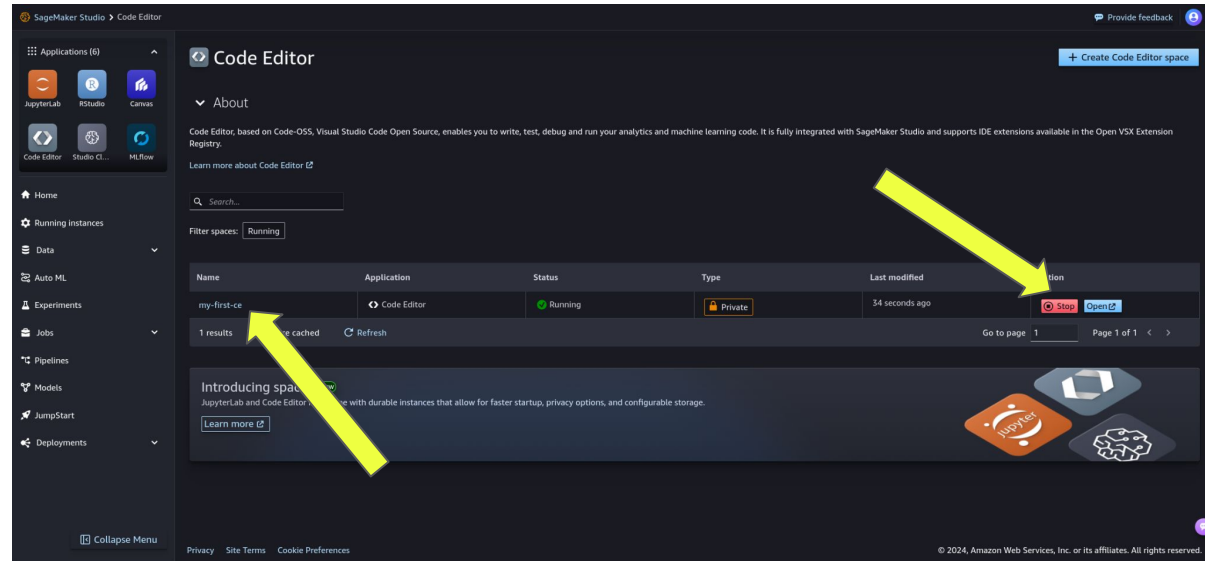
CodeEditor

Delete CodeEditor Space / 1

Delete action is irreversible and all the data saved in the space are destroyed.

Select [Stop] to stop the Space

Select the Space

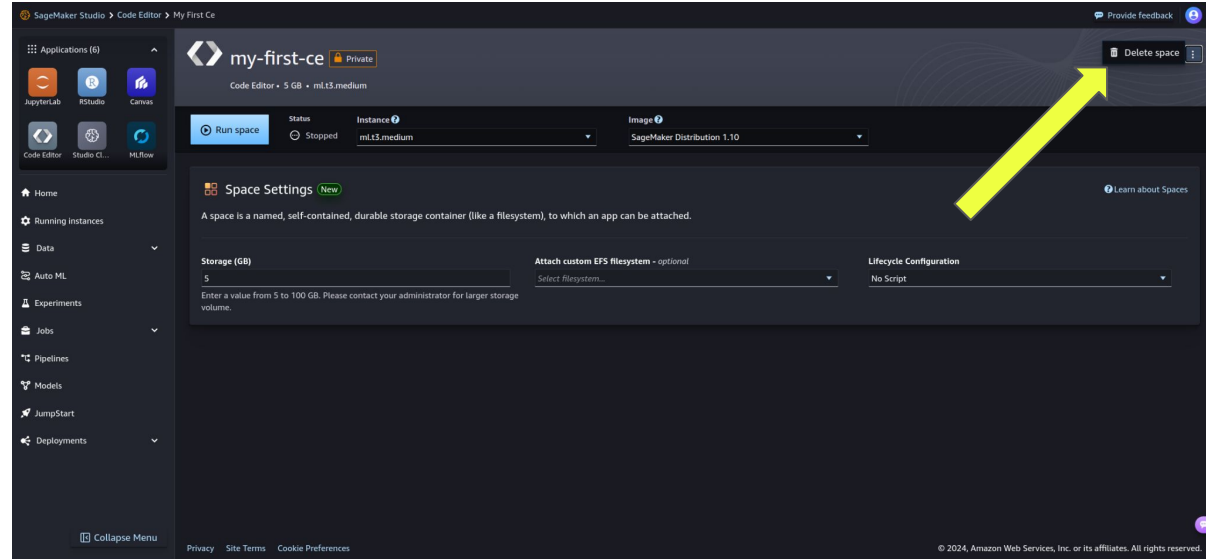


CodeEditor

Delete CodeEditor Space / 2

Select [Delete space]

Delete action is irreversible and all the data saved in the space are destroyed.

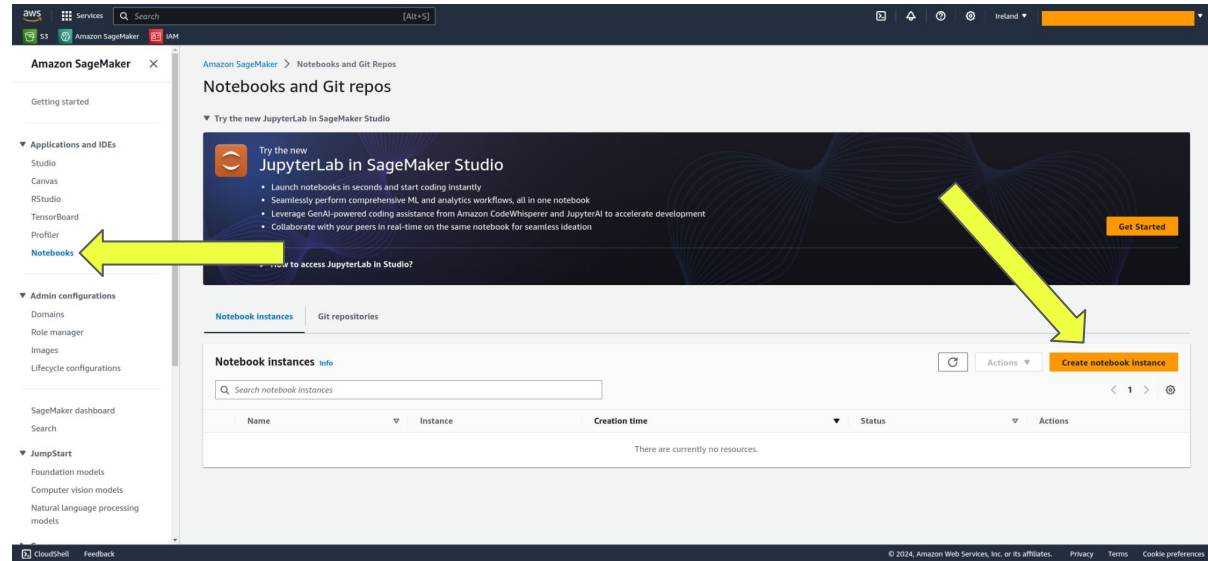


Notebook

Notebook

Select [Notebook] from left menu

Create a new Notebook instance



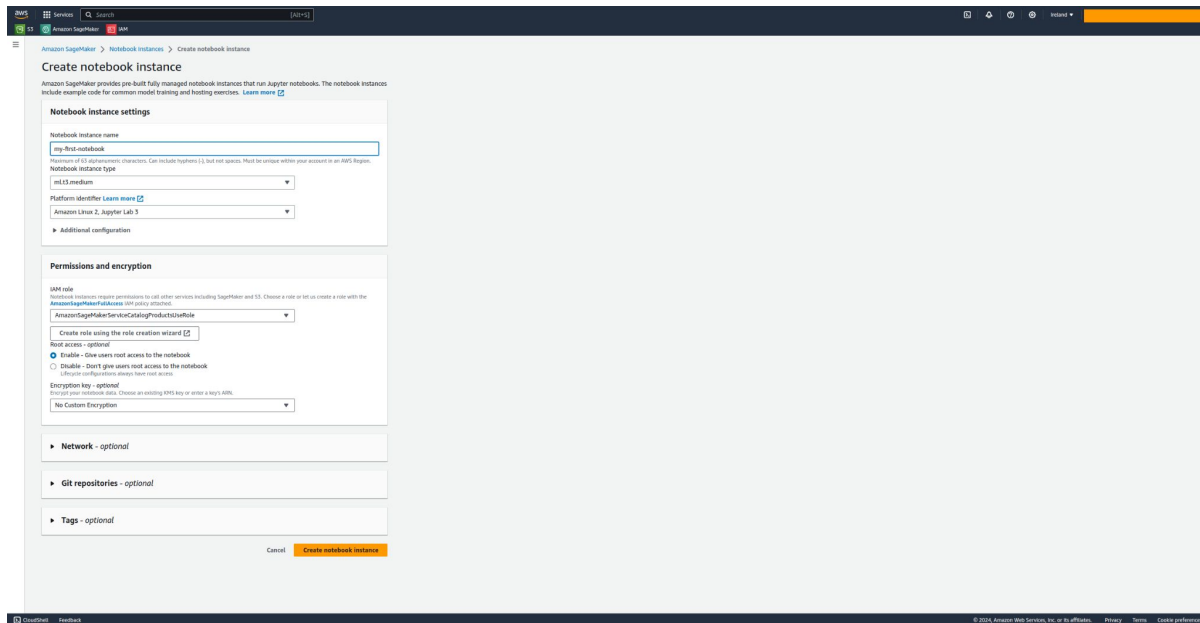
Notebook

Set a name.

Set the parameters.

Please note that the list of instance type reports all supported ones, but you are allowed to select only some instance type. The list of eligible is reported at the end of this document.

The creation process takes some time.



The screenshot shows the 'Create notebook instance' page in the Amazon SageMaker console. The page is titled 'Create notebook instance' and includes a brief description of SageMaker notebooks. The main section is 'Notebook instance settings', which contains the following fields:

- Notebook instance name:** A text input field with the value 'my-first-notebook'.
- Notebook instance type:** A dropdown menu with the value 'ml.t3.medium'.
- Platform identifier:** A dropdown menu with the value 'Amazon Linux 2, Jupyter Lab 3'.
- Additional configuration:** A link to expand more settings.

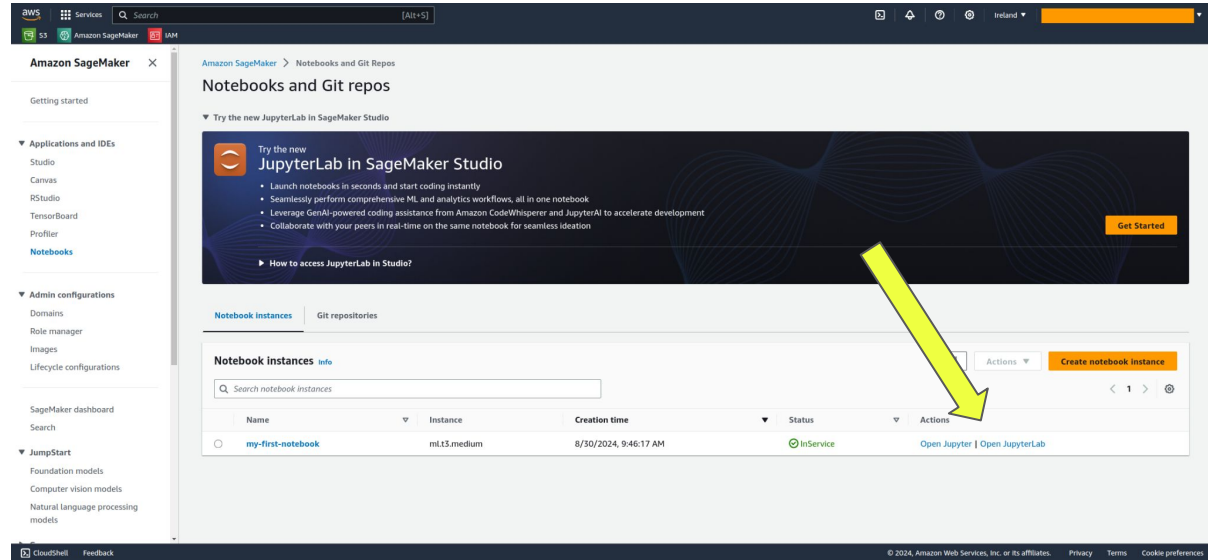
Below the settings section is the 'Permissions and encryption' section, which includes:

- IAM role:** A dropdown menu with the value 'AmazonSageMakerFullAccess'.
- Create role using the role creation wizard:** A link to expand more settings.
- Access:** A radio button selection with 'Enable' selected, indicating that users will have root access to the notebook.
- Encryption key - optional:** A dropdown menu with the value 'No Custom Encryption'.

At the bottom of the page, there are three expandable sections: 'Network - optional', 'Git repositories - optional', and 'Tags - optional'. The 'Create notebook instance' button is located at the bottom right of the page.

Notebook

When the notebook is ready, you can run a Jupyter or JupyterLab.



The screenshot displays the Amazon SageMaker console interface. On the left, a navigation sidebar lists various services and configurations. The main content area is titled 'Notebooks and Git repos'. A prominent banner for 'JupyterLab in SageMaker Studio' is visible, featuring a 'Get Started' button. Below this, the 'Notebook Instances' tab is active, showing a table with one instance named 'my-first-notebook'. A yellow arrow points to the 'Open Jupyter' link in the 'Actions' column of this instance.

Amazon SageMaker ×

Getting started

▼ Applications and IDEs

- Studio
- Canvas
- RStudio
- TensorBoard
- Profiler
- Notebooks**

▼ Admin configurations

- Domains
- Role manager
- Images
- Lifecycle configurations

SageMaker dashboard

Search


▼ JumpStart

- Foundation models
- Computer vision models
- Natural language processing models

Amazon SageMaker > Notebooks and Git repos

Notebooks and Git repos

▼ Try the new JupyterLab in SageMaker Studio

 Try the new JupyterLab in SageMaker Studio

- Launch notebooks in seconds and start coding instantly
- Seamlessly perform comprehensive ML and analytics workflows, all in one notebook
- Leverage GenAI-powered coding assistance from Amazon CodeWhisperer and JupyterAI to accelerate development
- Collaborate with your peers in real-time on the same notebook for seamless ideation

[Get Started](#)

► How to access JupyterLab in Studio?

[Notebook Instances](#) [Git repositories](#)

Notebook instances [info](#)

Q Search notebook instances

	Name	Instance	Creation time	Status	Actions
<input type="radio"/>	my-first-notebook	ml.t3.medium	8/30/2024, 9:46:17 AM	InService	Open Jupyter Open JupyterLab

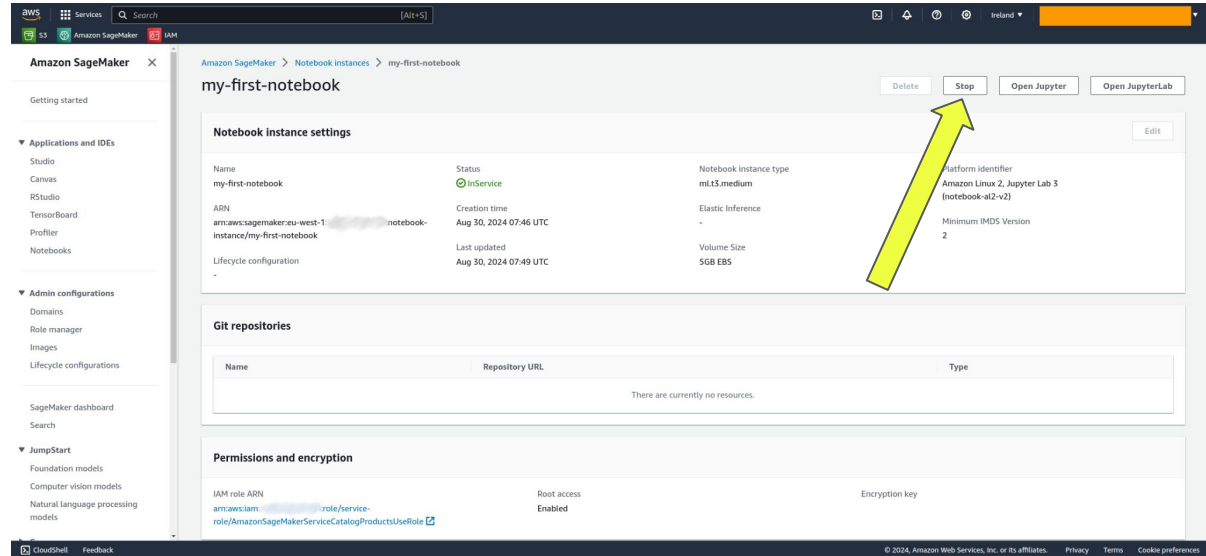
[Create notebook instance](#)

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Notebook

From the list of Notebooks available, select the Notebook.

Select [Stop] to stop the instance.



The screenshot displays the Amazon SageMaker console interface. The left sidebar contains navigation links for 'Getting started', 'Applications and IDEs' (Studio, Canvas, RStudio, TensorBoard, Profiler, Notebooks), 'Admin configurations' (Domains, Role manager, Images, Lifecycle configurations), 'SageMaker dashboard', 'Search', and 'JumpStart' (Foundation models, Computer vision models, Natural language processing models). The main content area shows the 'my-first-notebook' instance details. At the top right, there are buttons for 'Delete', 'Stop', 'Open Jupyter', and 'Open JupyterLab'. A yellow arrow points to the 'Stop' button. Below these buttons is the 'Notebook instance settings' section, which includes a table with the following data:

Name	Status	Notebook instance type	Platform identifier
my-first-notebook	InService	ml.t3.medium	Amazon Linux 2, Jupyter Lab 3 (notebook-ai2-v2)

Additional settings include: ARN (arn:aws:sagemaker:eu-west-1:instance/my-first-notebook), Creation time (Aug 30, 2024 07:46 UTC), Elastic Inference (-), Volume Size (5GB EBS), Last updated (Aug 30, 2024 07:49 UTC), and Lifecycle configuration (-). Below this is the 'Git repositories' section, which is currently empty. The 'Permissions and encryption' section shows the IAM role ARN (arn:aws:iam::role/service-role/AmazonSageMakerServiceCatalogProductsUseRole) and the Root access (Enabled). The footer of the console shows the CloudShell icon, a Feedback link, and the copyright notice: © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences.

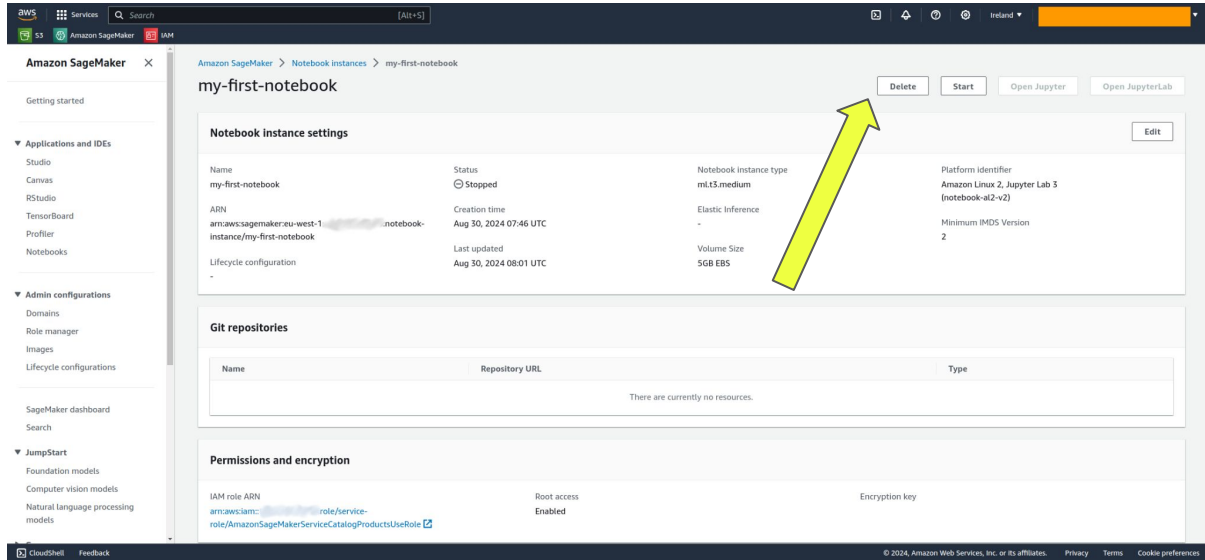
Notebook

From the list of Notebooks available, select the Notebook.

Select [Delete] to destroy the instance.

You can delete a Notebook instance only if it is already stopped.

Delete action is irreversible and all the data saved in the space are destroyed.



The screenshot shows the Amazon SageMaker console interface. On the left is a navigation sidebar with categories like 'Applications and IDEs', 'Admin configurations', and 'JumpStart'. The main content area displays the details for a notebook instance named 'my-first-notebook'. The instance is currently 'Stopped'. A table lists the instance settings, including its name, ARN, creation time, and instance type. A yellow arrow points to the 'Delete' button in the top right corner of the instance settings section. Below the settings table, there are sections for 'Git repositories' (currently empty) and 'Permissions and encryption'.

Name	Status	Notebook instance type	Platform identifier
my-first-notebook	Stopped	ml.t5.medium	Amazon Linux 2, Jupyter Lab 3 (notebook-ai2-v2)
ARN	Creation time	Elastic Inference	Minimum IMDS Version
arn:aws:sagemaker:eu-west-1:instance/my-first-notebook	Aug 30, 2024 07:46 UTC	-	2
Lifecycle configuration	Last updated	Volume Size	
-	Aug 30, 2024 08:01 UTC	5GB EBS	

Allowed Instance type

List of allowed instance types

- ml.t3.medium
- ml.t3.large
- ml.t3.xlarge
- ml.t3.2xlarge
- ml.m5.large
- ml.m5.xlarge
- ml.m5.2xlarge
- ml.m5.4xlarge
- ml.m5d.large
- ml.m5d.xlarge
- ml.m5d.2xlarge
- ml.c5.large
- ml.c5.xlarge
- ml.c5.2xlarge
- ml.c5.4xlarge
- ml.r5.large
- ml.r5.xlarge
- ml.r5.2xlarge
- ml.g4dn.xlarge
- ml.g4dn.2xlarge

This is a white-list for the services mentioned in this document and for the others AWS services (eg EC2, ...).

SageMaker can be used in **eu-west-1** (Ireland) Region only.

Other services can be used in EU regions

- eu-central-1
- eu-north-1
- eu-west-1
- eu-west-2
- eu-west-3