



AWS Services ▾ Search for services, features, marketplace products, and docs [Option+S] Ohio ▾ Support ▾

**Amazon SageMaker** X

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  - Notebook instances**
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  - Git repositories
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- ▶ Edge Manager
- ▶ Augmented AI
- ▶ AWS Marketplace

MACHINE LEARNING

# Amazon SageMaker

## Build, train, and deploy machine learning models at scale

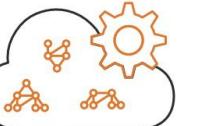
The quickest and easiest way to get ML models from idea to production.

**Get started**

Explore SageMaker Studio, a machine learning Integrated Development Environment (IDE) for building, training, and debugging models, tracking experiments, deploying models, and monitoring their performance.

**SageMaker Studio**

**How it works**

Label	Build	Train
		
Set up and manage labeling jobs for highly accurate training datasets	Connect to other AWS services and transform data in Amazon SageMaker	Use Amazon SageMaker's algorithms and frameworks or

**Pricing (US)**

With Amazon SageMaker, you pay only for what you use. Authoring, training and hosting is billed by the second, with no minimum fees and no upfront commitments.

[Learn more](#)

**Related services**

[AWS Glue](#)

under Notebook click Notebook instances



## Amazon SageMaker X

Amazon SageMaker Studio

Dashboard

Search

Images

▶ Ground Truth

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Amazon SageMaker &gt; Notebook instances

## Notebook instances



Actions ▾

Create notebook instance

Search notebook instances

&lt; 1 &gt; ⚙

Name

Instance

Creation time

Status

Actions



[redacted]

[redacted]

Open Jupyter | Open JupyterLab

click [redacted]





## Amazon SageMaker X

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Amazon SageMaker &gt; Notebook instances &gt; hale-video-project

Delete

Start

Open Jupyter

Open JupyterLab

Edit

click Start  
once it's ready the buttons  
on the right will be clickable

## Notebook instance settings

Name

Status

Notebook instance type

ARN

Creation time

Elastic Inference

Lifecycle configuration

Last updated

Volume Size

## Git repositories

Name

Repository URL

Type

There are currently no resources.



Amazon SageMaker JupyterLab .notebook.us-east-1.sagemaker.aws/lab

File Edit View Run Kernel Git Tabs Settings Help

+ / Name Last Modified

this button lets you upload local files. i suggest uploading notebooks and scripts as opposed to large data files

Launcher

Notebook

conda_amazon ei_mxnet_p27	conda_amazon ei_mxnet_p36	conda_amazon ei_pytorch_late	conda_amazon ei_tensorflow_p	conda_amazon ei_tensorflow_p	conda_amazon ei_tensorflow2_	conda_amazon ei_tensorflow2_
conda_chainer_ p27	conda_chainer_ p36	conda_mxnet_l atest_p37	conda_mxnet_p 27	conda_mxnet_p 36	conda_python2	conda_python3
conda_pytorch _latest_p36	conda_pytorch _p27	conda_pytorch _p36	conda_tensorfl ow_p27	conda_tensorfl ow_p36	conda_tensorfl ow2_p36	R
S	S	S				
Sparkmagic (PySpark)	Sparkmagic (Spark)	Sparkmagic (SparkR)				

Console

in the future may also need pyspark or spark

click conda\_python3 this is our preferred kernel

0 \$ 0 Git: idle Launcher

Amazon SageMaker JupyterLab .notebook.us-east-1.sagemaker.aws/lab

File Edit View Run Kernel Git Tabs Settings Help

Launcher

Console

conda\_amazon ei\_mxnet\_p27  
conda\_amazon ei\_mxnet\_p36  
conda\_amazon ei\_pytorch\_late  
conda\_amazon ei\_tensorflow\_p  
conda\_amazon ei\_tensorflow\_p  
conda\_amazon ei\_tensorflow2\_

conda\_chainer\_ p27  
conda\_chainer\_ p36  
conda\_mxnet\_l atest\_p37  
conda\_mxnet\_p 27  
conda\_mxnet\_p 36  
conda\_python2  
conda\_python3

conda\_pytorch \_latest\_p36  
conda\_pytorch \_p27  
conda\_pytorch \_p36  
conda\_tensorfl ow\_p27  
conda\_tensorfl ow\_p36  
conda\_tensorfl ow2\_p36  
R

S Sparkmagic (PySpark)  
S Sparkmagic (Spark)  
S Sparkmagic (SparkR)

if you scroll down you can also create scripts and markdowns

Terminal Text File Markdown File Show Contextual Help



## Amazon SageMaker X

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Amazon SageMaker &gt; Notebook instances &gt;

Delete

Stop

Open Jupyter

Open JupyterLab

## Notebook instance settings

**STOP YOUR INSTANCE AFTER EACH USE!!!!!!**

Edit

Name

Status

Notebook instance type

ARN

Creation time

Elastic Inference

Lifecycle configuration

Last updated

Volume Size

## Git repositories

Name

Repository URL

Type

There are currently no resources.



# AWS Management Console

## EMR tutorial

- we will most likely need EMR to store our files
- once you're comfortable with sagemaker notebooks i suggest using EMR notebooks

### AWS services

#### ▼ Recently visited services



click EMR



Billing



AWS Organizations



S3



Amazon SageMaker



IAM



AWS Cost Explorer

#### ► All services

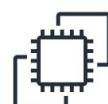
### Build a solution

Get started with simple wizards and automated workflows.

#### Launch a virtual machine

With EC2

2-3 minutes



#### Build a web app

With Elastic Beanstalk

6 minutes



#### Build using virtual servers

With Lightsail

1-2 minutes



### Stay connected to your AWS resources on-the-go



AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)

### Explore AWS

#### AWS Certification

Discover the top 7 reasons to get AWS Certified. [Learn more](#)

#### Modernize Your APIs with GraphQL

AWS AppSync is a fully-managed GraphQL service that improves app performance and developer productivity. [Learn more](#)

#### Reduce Amazon EFS Costs by 47%

Simple, serverless, set-and-forget One Zone storage classes. [Learn more](#)

EMR – AWS Console

console.aws.amazon.com/elasticmapreduce/home?region=us-east-1

Services ▾

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Create cluster View details Clone Terminate

Filter: All clusters Filter clusters ... 3 clusters (all loaded) C

	Name	ID	Status	Creation time (UTC-4)	Elapsed time	Normalized instance hours
<input type="checkbox"/>	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
<input type="checkbox"/>	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
<input type="checkbox"/>	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Amazon EMR

EMR Studio

EMR on EC2

Clusters

**Notebooks** click on Notebooks

Git repositories

Security configurations

Block public access

VPC subnets

Events

EMR on EKS

Virtual clusters

Help

What's new

**Create cluster** View details Clone Terminate

Filter: All clusters Filter clusters ... 3 clusters (all loaded) C

Name ID Status Creation time (UTC-4) Elapsed time Normalized instance hours

[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

if you click into the [redacted] up top it'll give you an option to "terminate." please do not terminate it as that will make us lose everything!!

Feedback English (US) ▾

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## Amazon EMR

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What's new

## Notebooks

Use EMR notebooks based on Jupyter to analyze data interactively with live code, narrative text, visualizations, and more. Create and attach notebooks to Amazon EMR clusters running Hadoop, Spark, and Livy. Notebooks run free of charge and are saved in Amazon S3 independently of clusters. Standard billing for clusters and Amazon S3 apply. [Learn more](#)

[Create notebook](#)[View details](#)[Open in JupyterLab](#)[Open in Jupyter](#)[Start](#)[Stop](#)[Delete](#)

Filter:

All notebooks ▾

[Filter notebooks ...](#)

1 notebook (all loaded)

	Name	Status	Cluster	Creation time (UTC-4)	Last modified
<input type="radio"/>	[redacted]				

click on [redacted]



EMR – AWS Console

console.aws.amazon.com/elasticmapreduce/home?region=us-east-1#notebook-details:

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Amazon EMR

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Help

What's new

Notebook: **Ready** make sure this says Ready  
Workspace(notebook) is ready to run jobs on cluster

**Open in JupyterLab** **Open in Jupyter** Stop Delete

**Notebook** click on either of these, i like jupyterlab

Notebook ID: Description: Last modified: Last modified by: Created on: Created by: Service IAM role: Security groups for master instance: Security groups for notebook instance: Notebook tags: Notebook location:

**Cluster**

Cluster: Cluster Id: Cluster status: Cluster tags: Step logs:

**Git repositories**

The repository can be linked to a notebook once the notebook is ready. Make sure your cluster, service role and security groups have the required settings. [Learn more](#)

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https://console.aws.amazon.com/iam/home?region=us-east-1#roles/EMR\_Noteb...

EMR – AWS Console JupyterLab .emrnotebooks-prod.us-east-1.amazonaws.com/ File Edit View Run Kernel Git Tabs Settings Help

+ / Name Last Modified

i already made a notebook here

Launcher

Notebook

Python 3 PySpark Spark SparkR

start with Python 3, in the future we may need pyspark or spark

Console

Python 3 PySpark Spark SparkR

Other

Terminal Text File Markdown File Show Contextual Help

0 0 Git: idle Launcher



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## Amazon EMR

EMR Studio

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Block public access

VPC subnets

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Virtual clusters

Help

What's new

Notebook:

Ready

Workspace(notebook) is ready to run jobs on cluster j-2RD5U6EP9KVVM.

Open in JupyterLab

Open in Jupyter

Stop

Delete

## Notebook

STOP YOUR INSTANCE AFTER YOU FINISH!!!!

Notebook ID:

Description:

Last modified:

Last modified by:

Created on:

Created by:

Service IAM role:

Security groups for master instance:

Security groups for notebook instance:

Notebook tags:

Notebook location:

## Cluster

Cluster:

Cluster Id:

Cluster status:

Cluster tags:

Step logs:

## Git repositories

The repository can be linked to a notebook once the notebook is ready. Make sure your cluster, service role and security groups have the required settings. [Learn more](#)



Services ▾

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# AWS Management Console

## S3 tutorial

- we will store raw video files here

### AWS services

#### ▼ Recently visited services



click on S3



#### ► All services

### Build a solution

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EMR – AWS Console × S3 Management Console × +

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

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Amazon S3 ×

Buckets

- Access Points
- Object Lambda Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

How to optimize your costs on S3. [Learn more](#)

▼ Account snapshot

Last updated: May 5, 2021 by Storage Lens. Metrics are generated every 24 hours. [Learn more](#)

[View Storage Lens dashboard](#)

Total storage	Object count	Avg. object size
[Redacted]	[Redacted]	[Redacted]

You can enable advanced metrics in the "default-account-dashboard" configuration.

Buckets

Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

Name	AWS Region	Access	Creation date
[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]

[Create bucket](#)

click on [redacted]

s3.console.aws.amazon.com/s3/buckets/

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Amazon S3 X

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.

How to optimize your costs on S3. Learn more X

Amazon S3 > [redacted]

Access Points Object Lambda Access Points Batch Operations Access analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards AWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

Buckets

Objects Properties Permissions Metrics Management Access Points

Objects (2)

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](#)

C Copy URL Open Download Delete Actions ▾ Create folder Upload

Find objects by prefix Show versions

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	[redacted]				
<input type="checkbox"/>	[redacted]				

create a folder and upload videos to your folder

this folder here contains our EMR notebooks

EMR – AWS Console X S3 Management Console X + [s3.console.aws.amazon.com/s3/buckets/](https://s3.console.aws.amazon.com/s3/buckets/) ...

Services ▾  [Option+S] ... Global ▾ Support ▾

**Amazon S3** X

**Buckets**

- Access Points
- Object Lambda Access Points
- Batch Operations
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Block Public Access settings for this account

▼ Storage Lens

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Feature spotlight 3

▶ AWS Marketplace for S3

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Amazon S3 >   [Copy S3 URI](#)

**Objects** Properties

Objects

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](#)

C Copy URL Open Download Delete Actions ▾ Create folder Upload

Find objects by prefix Show versions < 1 > ...

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		
<input type="checkbox"/>	<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		
<input type="checkbox"/>	<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		
<input type="checkbox"/>	<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		
<input type="checkbox"/>	<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		<span style="background-color: #ccc; display: inline-block; width: 150px; height: 20px; vertical-align: middle;"></span>		

**this is the one i created earlier**