

Amazon SageMaker X

Amazon SageMaker Studio

Dashboard

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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

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](#)

How it works



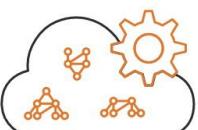
Label

Set up and manage labeling jobs for highly accurate training datasets



Build

Connect to other AWS services and transform data in Amazon SageMaker



Train

Use Amazon SageMaker's algorithms and frameworks or

Related services

[AWS Glue](#)



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Amazon SageMaker > Notebook instances

Notebook instances



Actions ▾

Create notebook instance

Search notebook instances

< 1 > ⚙

Name	Instance	Creation time	Status	Actions
hale-video-project	ml.m5.xlarge	May 06, 2021 20:20 UTC	InService	Open Jupyter Open JupyterLab

click hale-video-project





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Amazon SageMaker > Notebook instances > hale-video-project

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	hale-video-project	Status	Stopped	Notebook instance type	ml.m5.xlarge
ARN	arn:aws:sagemaker:us-east-1:889841998669:notebook-instance/hale-video-project	Creation time	May 06, 2021 20:20 UTC	Elastic Inference	-
Lifecycle configuration	-	Last updated	May 06, 2021 20:26 UTC	Volume Size	5GB EBS

Git repositories

Name	Repository URL	Type
------	----------------	------

There are currently no resources.

Amazon SageMaker JupyterLab

File Edit View Run Kernel Git Tabs Settings Help

+

Name Last Modified

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_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)

Console

in the future may also need pyspark or spark

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

click conda_python3 this is our preferred kernel

0 \$ 0 0 Git: idle

Launcher

Amazon SageMaker JupyterLab hale-video-project.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



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Amazon SageMaker > Notebook instances > hale-video-project

hale-video-project

Delete

Stop

Open Jupyter

Open JupyterLab

Notebook instance settings

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

Edit

Name	hale-video-project	Status	InService	Notebook instance type	ml.m5.xlarge
ARN	arn:aws:sagemaker:us-east-1:889841998669:notebook-instance/hale-video-project	Creation time	May 06, 2021 20:20 UTC	Elastic Inference	-
Lifecycle configuration	-	Last updated	May 06, 2021 20:22 UTC	Volume Size	5GB EBS

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



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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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jwang @ 8898-4199-8669 ▾ N. Virginia ▾ Support ▾

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"/>	NotebookCluster	j-2RD5U6EP9KVVM	Waiting Cluster ready!	2021-05-06 15:35 (UTC-4)	20 minutes	0
<input type="checkbox"/>	My cluster	j-A3JU9M2HO8UE	Terminated User request	2021-05-06 15:25 (UTC-4)	11 minutes	24
<input type="checkbox"/>	My cluster	j-5VOLCLVVOMON	Terminated User request	2021-05-06 15:22 (UTC-4)	49 seconds	0

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

Note: if you click into the NotebookCluster 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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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
	hale-video-project	Stopped	j-2RD5U6EP9KVVM	2021-05-06 15:48 (UTC-4)	5 minutes ago

click on hale-video-project



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Notebook: hale-video-project Stopped Workspace(notebook) is stopped.

Start

Change cluster

Delete

Notebook

click Start

Notebook ID: e-7V21JK9TLHLTJ5SEAKWE9YT8

Description: --

Last modified: 5 minutes ago

Last modified by: ...user/jwang

Created on: 2021-05-06 15:48 (UTC-4)

Created by: ...user/jwang

Service IAM role: [EMR Notebooks DefaultRole](#) Notebook tags: creatorUserId = AIDA46LVXNGU3AG6HWKK [View All / Edit](#)

Notebook location: s3://hale-video-project/

Cluster

Cluster: NotebookCluster

Cluster Id: [j-2RD5U6EP9KWM](#)

Cluster status: Waiting Cluster ready to run steps.

Cluster tags: creator = NOTEBOOK_CONSOLE [View All](#)

Step logs: s3://aws-logs-889841998669-us-east-1/elasticmapreduce/

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](#) [Link new repository](#)[Unlink repository](#)

Repository name	URL	Branch	Link status	Failure reason
-----------------	-----	--------	-------------	----------------

EMR – AWS Console

console.aws.amazon.com/elasticmapreduce/home?region=us-east-1#notebook-details:e-7V21JK9TLHLTLJ5SEAKWE9YT8

Services ▾

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Notebook: hale-video-project **Ready** make sure this says Ready
Workspace(notebook) is ready to run jobs on cluster j-2RD5U6EP9KVMM.

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

Notebook click on either of these, i like jupyterlab

Notebook ID: e-7V21JK9TLHLTLJ5SEAKWE9YT8

Description: --

Last modified: 8 seconds ago ⓘ

Last modified by: ...user/jwang ⓘ

Created on: 2021-05-06 15:48 (UTC-4)

Created by: ...user/jwang ⓘ

Service IAM role: [EMR_Notebooks_DefaultRole](#) ⓘ View this service IAM role's details.

Security groups for [sg-07a10369e804c25ce](#) ⓘ
master instance:

Security groups for [sg-06b64d5472ee685aa](#) ⓘ
notebook instance:

Notebook tags: creatorUserId = AIDA46LVXLNGU3AG6HWKK [View All / Edit](#)

Notebook location: s3://hale-video-project/

Cluster

Cluster: NotebookCluster

Cluster Id: [j-2RD5U6EP9KVMM](#)

Cluster status: **Waiting** Cluster ready to run steps.

Cluster tags: creator = NOTEBOOK_CONSOLE [View All](#)

Step logs: s3://aws-logs-889841998669-us-east-1/elasticmapreduce/

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

EMR – AWS Console JupyterLab e-7v21jk9tlhtlj5seakwe9yt8.emrnotebooks-prod.us-east-1.amazonaws.com/e-7V21JK9TLHTLJ5SEAKWE9YT8/lab

File Edit View Run Kernel Git Tabs Settings Help

+ /

Name Last Modified

hale-video-project.ipynb a minute ago

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



AWS Management Console

S3 tutorial

- we will store raw video files here

AWS services

▼ Recently visited services



click on S3



► All services

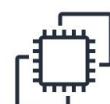
Build a solution

Get started with simple wizards and automated workflows.

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2-3 minutes



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Amazon 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](#).

[Provide feedback](#)

ⓘ How to optimize your costs on S3.

[Learn more](#)



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

▼ Account snapshot

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

[View Storage Lens dashboard](#)

Total storage

4.7 GB

Object count

201

Avg. object size

24.1 MB

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

Buckets (4)



[Copy ARN](#)

[Empty](#)

[Delete](#)

[Create bucket](#)



Find buckets by name

Name	AWS Region	Access	Creation date
aws-logs-889841998669-us-east-1	US East (N. Virginia) us-east-1	Objects can be public	May 6, 2021, 13:25:13 (UTC-04:00)
hale-video-project	US East (N. Virginia) us-east-1	Bucket and objects not public	April 22, 2021, 18:02:16 (UTC-04:00)
halelife-files	US East (N. Virginia) us-east-1	⚠️ Public	June 6, 2019, 17:58:15 (UTC-04:00)
textract-console-us-east-1-d4e7d6c0-5b56-4cbe-ba44-e01053950268	US East (N. Virginia) us-east-1	Objects can be public	February 11, 2021, 18:01:12 (UTC-05:00)

click on hale-video-project

← → ⌂ 🔒 s3.console.aws.amazon.com/s3/buckets/hale-video-project?region=us-east-1&tab=objects

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Amazon S3 X Provide feedback

Buckets Learn more X

- 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

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

Amazon S3 > hale-video-project

hale-video-project

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"/>	_metadata	-	May 6, 2021, 15:56:23 (UTC-04:00)	0 B	Standard
<input type="checkbox"/>	e-7V21JK9TLHLTLJ5SEAKWE9YT8/	Folder	-	-	-

create a folder and upload videos to your folder

this folder here contains our EMR notebooks

EMR – AWS Console × S3 Management Console × +

s3.console.aws.amazon.com/s3/buckets/hale-video-project?region=us-east-1&prefix=e-7V21JK9TLHLTLJ5SEAKWE9YT8/&showversions=false

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Buckets Learn more

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Amazon S3 > hale-video-project > e-7V21JK9TLHLTLJ5SEAKWE9YT8/

e-7V21JK9TLHLTLJ5SEAKWE9YT8/

Copy S3 URI

Objects Properties

Objects (3)

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

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	.aws-editors-workspace-metadata/	Folder	-	-	-
<input type="checkbox"/>	.ipynb_checkpoints/	Folder	-	-	-
<input type="checkbox"/>	hale-video-project.ipynb	ipynb	May 6, 2021, 15:49:06 (UTC-04:00)	72.0 B	Standard

this is the one i created earlier