

Practical 10- Labelling Jobs

Step 1- Go to Amazon AWS and under that go to AWS S3 Buckets.

[Amazon S3](#) > [Buckets](#) > images1

images1 [Info](#)

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (2) [Info](#)

Copy S3 URI

Copy URL

Download

Open

Delete

A

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 t

☒ Show versions

<input type="checkbox"/>	Name	Type	Last modified	Size
<input type="checkbox"/>	flowers.jpg	jpg	April 22, 2024, 09:44:41 (UTC+05:30)	
<input type="checkbox"/>	forest.jpg	jpg	April 22, 2024, 09:44:42 (UTC+05:30)	

Go to aws sagemaker

Create a role

And give policy of full access

[Files and folders](#) | [Configuration](#)

Files and folders (2 Total, 308.3 KB)

Name	Folder	Type	Size	Status	Error
flowers.jpg	-	image/jpeg	100.6 KB	✔ Succeeded	-
forest.jpg	-	image/jpeg	207.7 KB	✔ Succeeded	-

Policies (1 policy selected) [Info](#)

Q

Search policies

<

1

...

22

23

24

25

26

27

...

>

<div><div></div></div>	Name	ARN
<input type="checkbox"/>	AmazonSSMFullAccess	arn:aws:iam::aws:policy/AmazonSSMFullAccess
<input type="checkbox"/>	AmazonSSMMaintenanceWindowRole	arn:aws:iam::aws:policy/service-role/AmazonSSMMaintenanceWindowRole
<input type="checkbox"/>	AmazonSSMReadOnlyAccess	arn:aws:iam::aws:policy/AmazonSSMReadOnlyAccess
<input type="checkbox"/>	AmazonSSMServiceRolePolicy	arn:aws:iam::aws:policy/aws-service-role/AmazonSSMServiceRolePolicy
<input type="checkbox"/>	AmazonSageMaker-ExecutionPolicy-20240403T203951	arn:aws:iam::796329916611:policy/service-role/AmazonSageMaker-ExecutionPolicy-20240403T203951
<input type="checkbox"/>	AmazonSageMaker-ExecutionPolicy-20240417T200089	arn:aws:iam::796329916611:policy/service-role/AmazonSageMaker-ExecutionPolicy-20240417T200089
<input type="checkbox"/>	AmazonSageMaker-ExecutionPolicy-20240417T200210	arn:aws:iam::796329916611:policy/service-role/AmazonSageMaker-ExecutionPolicy-20240417T200210
<input type="checkbox"/>	AmazonSageMaker-ExecutionPolicy-20240417T200291	arn:aws:iam::796329916611:policy/service-role/AmazonSageMaker-ExecutionPolicy-20240417T200291
<input type="checkbox"/>	AmazonSageMaker-ExecutionPolicy-20240417T200390	arn:aws:iam::796329916611:policy/service-role/AmazonSageMaker-ExecutionPolicy-20240417T200390
<input checked="" type="checkbox"/>	AmazonSageMakerFullAccess	arn:aws:iam::aws:policy/AmazonSageMakerFullAccess

Step 1

Enter role information

Step 2

Configure ML activities

Step 3

Add additional policies & tags

Step 4

Review role

Review role [Info](#)

Step 1: Enter role information

Edit

Role details

Set up SageMaker persona

Role name

SageMaker-imagerole

Persona template

Data Scientist

Network setup

VPC subnet(s)

-

Security group(s)

-

Encryption setup

Data encryption key(s)

-

Volume encryption key(s)

-

Step 2: Configure ML activities

Edit

ML activities

Selected ML activities

Run Studio Applications

Manage Models

Search and visualize experiments

Manage ML Jobs

Manage Experiments

S3 Bucket Access

Step 3: Add additional policies and tags

Edit

Add additional policies to this role

AmazonSageMakerFullAccess

Role created

AmazonSageMaker-ExecutionRole-20240403T203951 [Info](#)


Delete


Amazon SageMaker execution role created from the SageMaker AWS Management Console.

Summary

Edit

Creation date
April 03, 2024, 20:39 (UTC+05:30)

Last activity
 11 minutes ago

ARN
 arn:aws:iam::796329916611:role/service-role/AmazonSageMaker-ExecutionRole-20240403T203951

Maximum session duration
1 hour

[Amazon SageMaker](#) > [Labeling jobs](#) > Create labeling job

Step 1
Specify job details

Specify job details

All fields are required unless otherwise specified

Step 2
Select workers and
configure tool

Job overview

Job name

Maximum of 63 alphanumeric characters. Can include hyphens (-), but not spaces. Must be unique within your account.

☐ I want to specify a label attribute name different from the labeling job name.

Label attribute name is the key where your labels are stored in the augmented manifest. Ground Truth uses the label attribute name.

Job name

myjob

Maximum of 63 alphanumeric characters. Can include hyphens (-), but not spaces. Must be unique within your account in an AWS Region.

☐ I want to specify a label attribute name different from the labeling job name.

Label attribute name is the key where your labels are stored in the augmented manifest. Ground Truth uses the labeling job name as the default label attribute name.

Input data setup [Info](#)

Use the automated setup to have Ground Truth automatically identify your dataset in S3. Use the manual setup if you have an input manifest file.

☒ **Automated data setup**

Provide the S3 location of the dataset you want labeled and let Ground Truth automatically connect to and use this dataset for your job.

☐ **Manual data setup**

Provide the S3 location of a file (an input manifest file) that identifies the data objects you want labeled

Data setup

S3 location for input datasets [Info](#)

This is the location in S3 where your dataset objects are stored. Ground Truth will use all data objects in this location for your labeling job.

 s3://input-dataset-bucket/optional-prefix

[View](#) 

[Browse S3](#)

S3 location for output datasets [Info](#)

This is the location in S3 where your labeling job output data is stored.

☒ Same location as input dataset

☐ Specify a new location

Data type

Data setup

S3 location for input datasets [Info](#)

This is the location in S3 where your dataset objects are stored. Ground Truth will use all data objects in this location for your labeling job.

 s3://images1 

[View](#) 

[Browse S3](#)

S3 location for output datasets [Info](#)

This is the location in S3 where your labeling job output data is stored.

☐ Same location as input dataset

☒ Specify a new location

 https://images1.s3.us-west-2.amazonaws 

[View](#) 

[Browse S3](#)

Data type

Image

Supported formats are .jpg, .jpeg, and .png.

IAM Role [Info](#)

Provide the ID or ARN for your own AWS KMS encryption key for Amazon SageMaker to access your S3 bucket. Choose a role or let us create a role with the [AmazonSageMakerFullAccess](#)  IAM policy attached.

AmazonSageMaker-ExecutionRole-20240417T200390

Use this button to process and complete your input data setup.

Task type [Info](#)

Task category

Select the type of data being labeled to view available task templates for it or select 'Custom' to create your own.

Image ▼

Task selection

Select the task that a human worker will perform to label objects in your dataset.

☐ Image Classification (Single Label)

Get workers to categorize images into individual classes. [Info](#)



☐ Image Classification (Multi-label)

Get workers to categorize images into one or more classes. [Info](#)



☒ Bounding box

Get workers to draw bounding boxes around specified objects in your images. [Info](#)



☐ Semantic segmentation

Get workers to draw pixel level labels around specific objects and segments in your images. [Info](#)



Click create

SELECT WORKERS

Workers [Info](#)

Worker types

☐ Amazon Mechanical Turk

An on-demand 24/7 workforce of over 500,000 independent contractors worldwide powered by Amazon Mechanical Turk.

☒ Private

A team of workers that you have sourced yourself, including your own employees or contractors for handling data that needs to stay within your organization.

☐ Vendor managed

A curated list of third party vendors that specialize in providing data labeling services, available via the AWS Marketplace.

Team name

Maximum of 63 alphanumeric characters. Can include hyphens, but not spaces. Must be unique within your account in an AWS Region. The name can't be changed later.

Invite private annotators

Enter email addresses of workers that will work on this job.

heetoxgags1729@gmail.com, narsinghanitinajgd@gmail.com,
arisha09akhtar@gmail.com, roshnipanda26@gmail.com, roshni.panda@somaiya.edu, roshnipanda25@gmail.com, shafq11in@yahoo.co.in, breemajelly@gmail.com

Enter up to 20 addresses and use a comma between each one.

Organization

We use this information to customize the worker invitation.

NMIMS WORK

Contact email



Workers can use this to report issues related to the job.

shaikhsharmin857@gmail.com


Enter one email address only.

☐ Enable automated data labeling [Info](#)


Amazon SageMaker will automatically label a portion of your dataset. It will train a model in your AWS account using Built-in Algorithm and dataset. When you enable this, training jobs use new computing resources on your behalf. For cost information, See SageMaker [pricing](#) [↗](#)

H1 H2 B I A  

Good example
Draw the box around the object with a small border.



Add image here

Bad example
Don't make the bounding box too large or cut into the object.


Add image here

Enter a brief description of the task

Draw a box around any flowers in image



PREV NEXT

Labels
Add up to 50 labels
flowers
Add new label
You can add 49 more labels.

CREATE THE JOB



NEXT STEP

Monitoring Your Labeling Job

✔ Labeling job myjob was successfully created.

[Amazon SageMaker](#) > Labeling jobs

Labeling jobs [Info](#)

	Name	Status	Task type	Labeled objects
	myjob	 In progress	Bounding box	-

JOB SUMMARY IS VISIBLE IN THE JOBS SECTION

myjob

Actions

Labeling job summary

View labeling tool

Status In progress	Input dataset location s3://images1/dataset-20240422T100581.manifest	ARN arn:aws:sagemaker:us-west-2:796329916611:labeling-job/myjob
Task type Bounding box	Output dataset location s3://images1/myjob/	Worker type Private
Creation time Apr 22, 2024, 4:56 AM UTC	Labeled / total dataset objects 0 / 2	Workteam ARN arn:aws:sagemaker:us-west-2:796329916611:workteam/private-crowd/AWS

Output

Tags

Output


Tags

Labeled dataset objects (2)


Query output

< 1 ... > ⚙

flowers.jpg



forest.jpg



PERFORM ACTIONS ON THE JOB

- CLONE
- CHAIN
- STOP

Amazon SageMaker > Labeling jobs > Create labeling job

Step 1
Specify job details

Step 2
Select workers and configure tool

Specify job details

All fields are required unless otherwise specified

Job overview

Job name

myjob-clone

Maximum of 63 alphanumeric characters. Can include hyphens (-), but not spaces. Must be unique within your account in an AWS Region.

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☒ Manual data setup
Provide the S3 location of a file (an input manifest file) that identifies the data objects you want labeled

Input dataset location [Info](#)

myjob-clone

Actions ▾

Labeling job summary

View labeling tool [↗](#)

Status 🔄 In progress	Input dataset location s3://images1/dataset-20240422T100581.manifest ↗	ARN arn:aws:sagemaker:us-west-2:796329916611:labeling-job/myjob-clone
Task type Bounding box	Output dataset location s3://images1/myjob-clone/ ↗	Worker type Private
Creation time Apr 22, 2024, 5:05 AM UTC		Workteam ARN arn:aws:sagemaker:us-west-2:796329916611:workteam/private-crowd/AWS

Output

Tags

STOP THE JOB

Stop job myjob

This labeling job was created on Apr 22, 2024, 4:56 AM UTC

If you stop this labeling job, you will not be able to start it again. Do you want to continue?

Cancel

Stop job