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English ▼

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Lab 10a. SageMaker Role Manager

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Overview

[SageMaker Role Manager](#)  provides a baseline set of permissions for ML activities and personas through a catalog of prebuilt AWS Identity and Access Management (IAM) policies. It comes with a set of predefined policy templates for different personas and ML activities. Personas represent the different types of users that need permissions to perform ML activities in SageMaker, such as data scientists or MLOps engineers.

Personas

A persona is an entity that needs to perform a set of ML activities and uses a role to grant them permissions. SageMaker Role Manager provides you with a set of predefined persona templates for common use cases, or you can build your own custom persona. There are several personas currently supported, including:

- **Data scientist** : A persona that performs ML activities from within a SageMaker environment. They're permitted to process Amazon Simple Storage Service (Amazon S3) data, perform experiments, and produce models.
- **MLOps** : A persona that deals with operational activities from within a SageMaker environment. They're permitted to manage models, endpoints, and pipelines, and audit resources.
- **SageMaker compute role** : A persona used by SageMaker compute resources such as jobs and endpoints. They're permitted to access Amazon S3 resources, Amazon Elastic Container Registry (Amazon ECR) repositories, Amazon CloudWatch, and other services for ML computation.
- **Custom role settings** : This persona has no pre-selected settings or default options. It offers complete customization starting with empty settings.

ML activities

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ML activities are predefined sets of permissions tailored to common ML tasks. Personas are composed of one or more ML activities to grant permissions. For example, the data scientist persona uses the following ML activities:

- **Run Studio Applications** : Permissions to operate within a Studio environment. Required for domain and user-profile execution roles.
- **Manage Experiments** : Permissions to manage experiments and trials.
- **Manage ML Jobs** : Permissions to audit, query lineage, and visualize experiments.
- **Manage Models** : Permissions to manage SageMaker jobs across their lifecycles.
- **Manage Pipelines** : Permissions to manage SageMaker pipelines and pipeline executions.
- **S3 Bucket Access** : Permissions to perform operations on specified buckets.

In this lab, you will use SageMaker Role Manager setup SageMaker service role and onboard data scientists in SageMaker with custom permissions in place.

Prerequisite

You will use JumpStart from [Amazon SageMaker Studio](#), so please make sure that you've followed the instructions in the [Prerequisites](#) section and can access SageMaker Studio with proper IAM permissions.

Create a Role using Amazon SageMaker Role Manager

There are two ways to get to SageMaker Role Manager, either through Getting started in the SageMaker console or when you select Add user in the SageMaker Studio Domain control panel.

1. In the SageMaker console, choose *Get started*.



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2. Choose *Create a role*.

[Amazon SageMaker](#) > [Getting Started](#)

Getting Started

Amazon SageMaker provides machine learning (ML) capabilities that are purpose-built for data scientists and developers to prepare, build, train, and deploy high-quality ML models efficiently.

Configure role

Establish roles and quickly configure permission policies for your users.

Create a role

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3. Provide *Role name* and *Description*. Choose *Data Scientist* from *persona* drop down. Choose *Next*.

Step 1
Enter role information

Step 2
Configure ML activities

Step 3
Add additional policies & tags

Step 4
Review role

Enter role information

A role is an IAM identity that has permissions to perform actions with AWS services.

Set up SageMaker role [Info](#)

Role name suffix
Please enter a suffix to identify this role. The prefix 'SageMaker-' will be applied to the role name.

DataScientist-Role

Description
Describe any additional details that might be relevant to this role.

Service Role for data science team

Select a persona for this role's permissions

Data Scientist ▲

Custom role settings
No preselected settings or default options. Complete customization starting with empty settings.

Data Scientist
A persona that performs machine learning activities from within a sagemaker environment. Permitted to process S3 data, perform experiments and produce models.

MLOps
A persona that deals with operational activities from within a sagemaker environment. Permitted to manage models, endpoints and pipelines, and audit resources.

SageMaker Compute Role
A persona used by SageMaker compute resources such as jobs and endpoints. Permitted to access S3 resources, ECR repositories, Cloudwatch, and other services for ML computation.

Encryption conditions [Info](#)

Make encryption customization available to use data and volume encryption keys.

☐ Encryption customization unavailable

Cancel **Next**

You can also define the network and encryption settings in this step by selecting [Amazon Virtual Private Cloud](#) (Amazon VPC) subnets, security groups, and encryption keys.

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4. You can select what ML activities data scientists in your team need to perform.

Step 1
Enter role information

Step 2
Configure ML activities

Step 3
Add additional policies & tags

Step 4
Review role

Configure ML activities

Configure your role with the help of available ML activities.

Configure new role [Info](#)

Choose specific ML activities and enable customizations of the activity settings.

ML activities (6 activities selected)

	Name	Description
<input type="checkbox"/>	Access Required AWS Services	Permissions to access S3, ECR, Cloudwatch and EC2. Required for execution roles for jobs and endpoints.
<input checked="" type="checkbox"/>	Run Studio Applications	Permissions to operate within a Studio environment. Required for domain and user-profile execution roles.
<input checked="" type="checkbox"/>	Manage ML Jobs	Permissions to manage SageMaker jobs across their lifecycles.
<input checked="" type="checkbox"/>	Manage Models	Permissions to manage SageMaker models and Model Registry.
<input type="checkbox"/>	Manage Endpoints	Permissions to manage SageMaker Endpoint deployments and updates.
<input type="checkbox"/>	Manage Pipelines	Permissions to manage SageMaker Pipelines and pipeline executions.
<input checked="" type="checkbox"/>	Manage Experiments	Permissions to manage experiments and trials.
<input checked="" type="checkbox"/>	Search and visualize experiments	Permissions to audit, query lineage and visualize experiments.
<input type="checkbox"/>	Manage Model Monitoring	Permissions to manage monitoring schedules for SageMaker Model Monitor.
<input type="checkbox"/>	S3 Full Access	Permissions to perform all S3 operations
<input checked="" type="checkbox"/>	S3 Bucket Access	Permissions to perform operations on specified buckets.

In the Configure ML activities section, one or more ML activities are pre-selected based on your baseline persona template.

Certain ML activities require additional information to complete the role setup. For example, selecting the S3 Bucket Access ML activity requires you to specify a list of S3 buckets to grant access to. Other ML activities may require a *PassRoles* entry to allow this persona to pass its permissions to a service role to perform actions on behalf of the persona. In our example, the Manage ML Jobs ML activity requires a *PassRoles* entry.

For this lab, we use the existing role and S3 bucket.

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5. In a new window, go to SageMaker domain and note down *Execution role ARN* under *Domain settings*.

MyDomain

Domain details

Configure and manage the domain.

User profiles

Space management

Environment

Domain settings

General settings [Info](#)

Name
MyDomain

Status
✓ Ready

Created
Sat Apr 15 2023 12:23:32 GMT+0530 (India Standard Time)

Last modified
Sat Apr 15 2023 12:28:14 GMT+0530 (India Standard Time)

Authentication method
AWS Identity and Access Management (IAM)

Execution role
arn:aws:iam:██████████:role/mod-██████████
SageMakerExecutionRole-10XMM6BBYPTAQ

6. Go to Amazon S3 console and note the bucket name starts with *sagemaker--*.

Amazon S3 > Buckets

► Account snapshot

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

Buckets (2) [Info](#)

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

Find buckets by name

	Name	AWS Region
<input type="radio"/>	sagemaker-studio-1985eba0	US East (N. Virginia) us-east-1
<input type="radio"/>	sagemaker-us-east-1-██████████	US East (N. Virginia) us-east-1

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7. Provide Execution role ARN for *Manage ML Jobs PassRoles*, *Manage Models PassRoles* and S3 bucket name. Choose *Next*.

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▼ Manage ML Jobs

PassRoles

Specify one or more IAM Role ARNs (ex:- 'arn:aws:iam::112233445566:role/myRole'). This ML activity requires a role to be passed to a SageMaker service, to be assumed on the user's behalf.

arn:aws:iam:role/mod-6297809195fe4845-SageM

Remove



akadam ▼

▼ Manage Models

PassRoles

Specify one or more IAM Role ARNs (ex:- 'arn:aws:iam::112233445566:role/myRole'). This ML activity requires a role to be passed to a SageMaker service, to be assumed on the user's behalf.

arn:aws:iam:role/mod-6297809195fe4845-SageM

Remove

Add

▼ S3 Bucket Access

bucket

Specify one or more S3 buckets (ex:- 'my-bucket'). This ML activity requires read and write permissions to S3 buckets.

sagemaker-us-east-1-

Remove

Add

Cancel

Back

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8. You can attach additional IAM policies and add tags to the role if needed. Tags help you identify and organize your AWS resources. You can use tags to add attributes such as project name, cost center, or location information to a role. Choose *Next*.

Step 1
Enter role
information

Step 2
Configure

Add additional policies & tags

Attach existing IAM policies to this role. These policies will be included when IAM policies have been generated from this workflow.

Add additional IAM policies to this role [Info](#)

[Privacy policy](#) [Terms of use](#)

Step 3
**Add
additional
policies &
tags**

Step 4
Review role

Policies (0 policies selected) [Info](#)

Q Search policies

< 1 2 3 4 5 6 7 8 ... >

<input type="checkbox"/>	Name	ARN
<input type="checkbox"/>	0 [REDACTED]	arn:aws:iam::[REDACTED]:policy
<input type="checkbox"/>	[REDACTED]	arn:aws:iam::[REDACTED]:policy

Tags [Info](#)

No tags associated with the resource.

Add new tag

You can add up to 48 more tags.

Cancel

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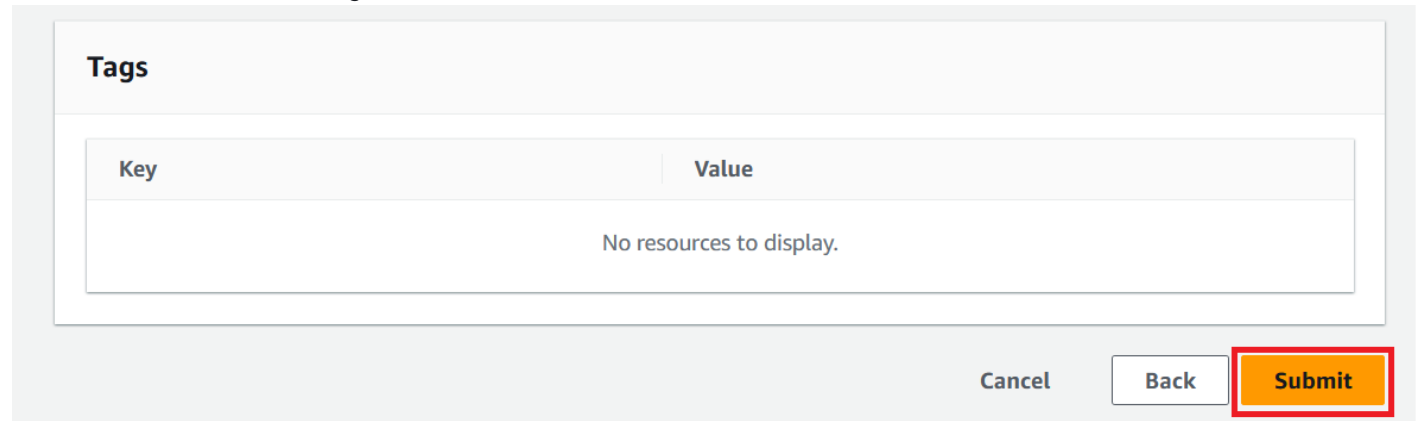
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9. After a final review of the settings select Submit, and the role is created.



Tags

Key	Value
No resources to display.	

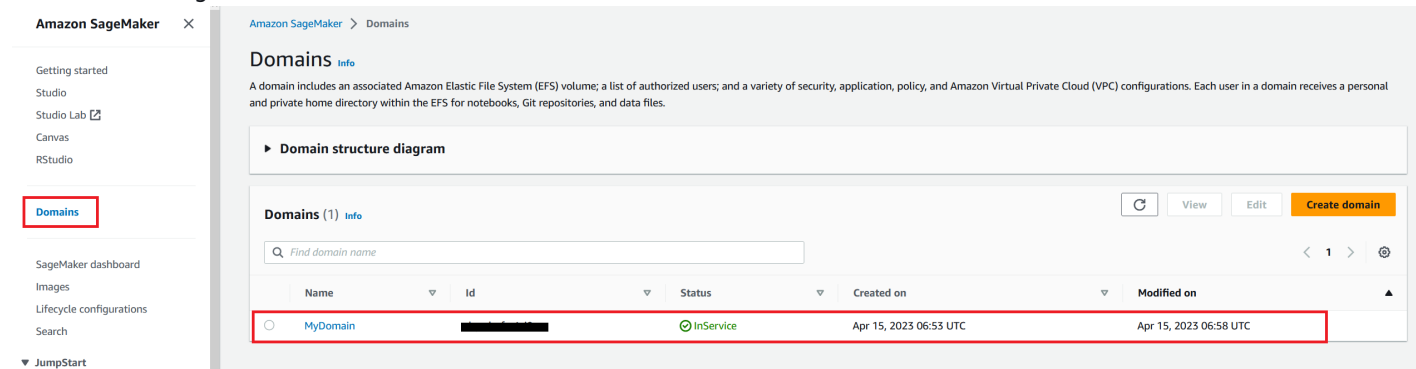
Cancel Back **Submit**

You have set up a SageMaker service role, and you are now ready to onboard data scientists in SageMaker with custom permissions in place.


Onboard User

Now you need user profile and you need the role to be associated to the user profile.

1. Go to Amazon Sagemaker and choose Domains.



Amazon SageMaker ×

Getting started
Studio
Studio Lab 
Canvas
RStudio

Domains

SageMaker dashboard
Images
Lifecycle configurations
Search

▼ JumpStart


Amazon SageMaker > Domains

Domains [Info](#)

A domain includes an associated Amazon Elastic File System (EFS) volume; a list of authorized users; and a variety of security, application, policy, and Amazon Virtual Private Cloud (VPC) configurations. Each user in a domain receives a personal and private home directory within the EFS for notebooks, Git repositories, and data files.

► Domain structure diagram

Domains (1) [Info](#)

 [View](#) [Edit](#) [Create domain](#)

Name	Id	Status	Created on	Modified on
MyDomain	[REDACTED]	InService	Apr 15, 2023 06:53 UTC	Apr 15, 2023 06:58 UTC

2. For this lab, a SageMaker domain is already provisioned in the pre-requisite section. A Sagemaker domain can have multiple user profiles. So you click on *domain* and choose *Add user*.

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Amazon SageMaker > Domains > Domain: MyDomain

MyDomain

Domain details

Configure and manage the domain.

[User profiles](#) | [Space management](#) | [Environment](#) | [Domain settings](#)

User profiles Info

A user profile represents a single user within a domain. It is the main way to reference a user for the purposes of sharing, reporting, and other user-oriented features.

Name	Modified on	Created on
[REDACTED]	Apr 15, 2023 06:58 UTC	Apr 15, 2023 06:58 UTC

[Add user](#)

[Launch](#)

3. Provide a name to user profile and select the data scientist role you have created earlier. Choose *Next*.

Amazon SageMaker > Domains > Domain: MyDomain > Add user profile

Add user profile

Step 1
General settings

Step 2
Studio settings

Step 3
RStudio settings

Step 4
Canvas settings

General settings

User profile and details.

User profile

Name

The name can have up to 63 characters. Valid characters: A-Z, a-z, 0-9, and - (hyphen)

Execution role

The default execution role for both users and spaces in the domain. The execution role must have the [AmazonSageMakerFullAccess](#) policy attached.

[Create role using the role creation wizard](#)

Tags - optional

[Add tag](#)

You can attach up to 50 tags

[Cancel](#) [Next](#)

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4. Choose *jupyter Lab* version from drop down. Choose *Next*.

Amazon SageMaker > Domains > Domain: MyDomain > Add user profile

Add user profile

Step 1
General settings

Step 2
Studio settings

Step 3
RStudio settings

Step 4
Canvas settings

Studio settings

Configure Studio IDE and Notebooks for your organization.

Jupyter Lab version [Info](#)

Default Jupyter Lab version

The Jupyter Server runs with the selected version by default for the user. Permissions to run Jupyter Lab versions are defined by an [IAM policy](#). You must restart the Jupyter Server app to make the version changes effective.

Jupyter Lab 3.0 ▼

SageMaker Projects and JumpStart - optional

SageMaker Projects and JumpStart [New](#)

Enable access and provisioning of AWS Service Catalog Portfolio of products in Amazon SageMaker Studio for Amazon SageMaker Projects and JumpStart. [Learn more](#)

☒ **Enable Amazon SageMaker project templates and Amazon SageMaker JumpStart for Studio users**

If enabled, this setting allows users who are currently using the domain execution role to create projects using templates and JumpStart solutions published by Amazon SageMaker in AWS Service Catalog. If there are individual users using custom execution roles in your organization, you need to enable them on the user profile page.

Cancel

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5. Choose *Submit*.

▼ Time series forecasting configuration

☒ **Enable time series forecasting**
Enable time series forecasting to allow users to use time series forecasting in Canvas.

Amazon Forecast role
Canvas needs permission to connect to Amazon Forecast on your behalf to enable time series forecasting in Canvas.

☒ **Create and use a new execution role**
☐ Use an existing execution role

New IAM role suffix
Your role will be prefixed with "AmazonSagemakerCanvasForecastRole-" and includes the policy named [AmazonSagemakerCanvasForecastRolePolicy](#)

The name can have up to 63 characters. Valid characters: A-Z, a-z, 0-9, and - (hyphen)

Cancel

Back

Submit

Now user can easily launch studio , open up a notebook and start doing data science work.

Amazon SageMaker > Domains > Domain: MyDomain

MyDomain

Domain details

Configure and manage the domain.

User profiles | Space management | Environment | Domain settings

User profiles info

↻

Add user

A user profile represents a single user within a domain. It is the main way to reference a user for the purposes of sharing, reporting, and other user-oriented features.

< 1 > ⚙

Name	Modified on	Created on
dhiraj	Apr 15, 2023 15:12 UTC	Apr 15, 2023 15:12 UTC
<div></div>	Apr 15, 2023 06:58 UTC	Apr 15, 2023 06:58 UTC

Launch ▲

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