

Azure Machine Learning Lab 01

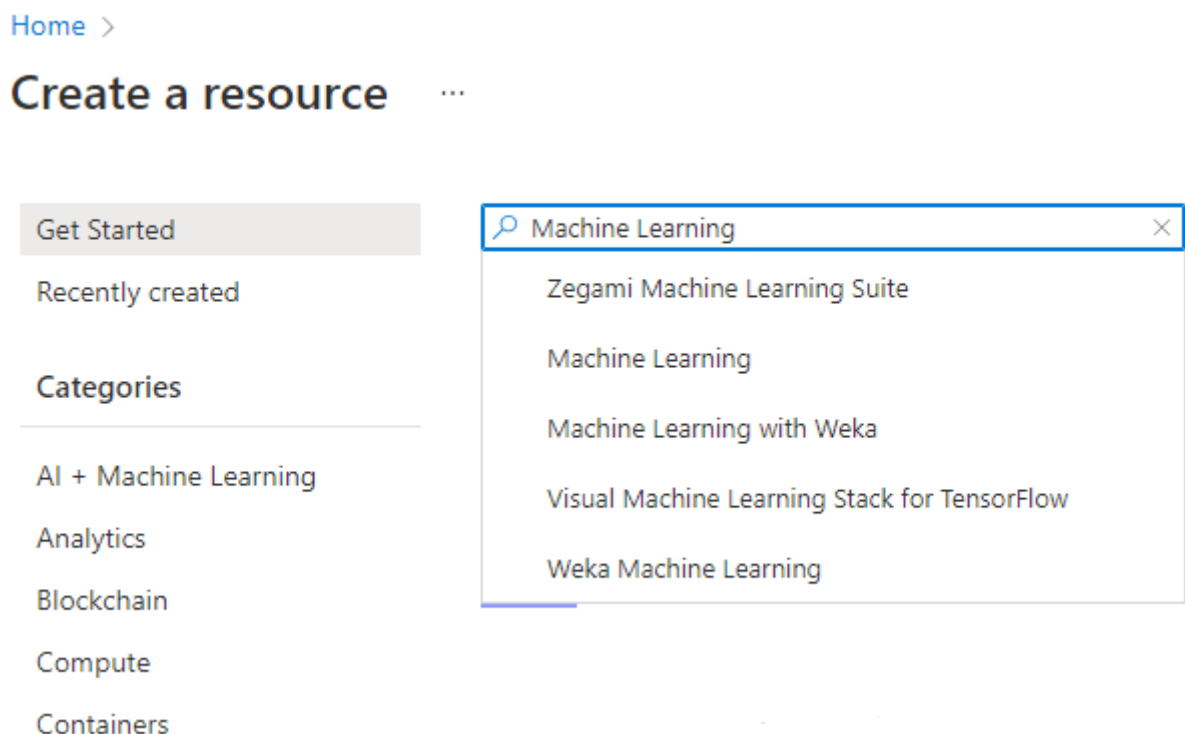
Create your AML Workspace

This exercise shows how to create an Azure ML studio workspace.

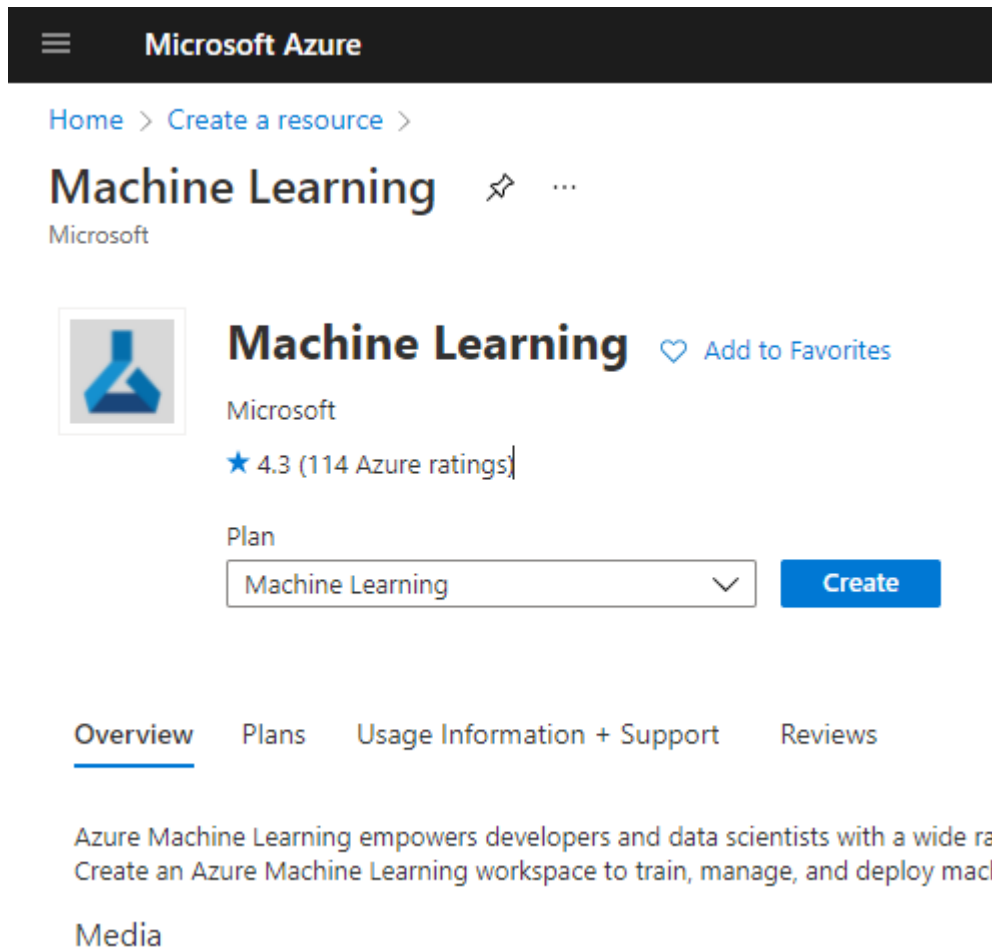
We will use Azure portal to create workspace in this lab since the portal is the easiest way to get started with workspaces but as your needs change or requirements for automation increase you can also create and delete workspaces using the CLI, with Python code or via the VS Code extension.

Tasks

1. Sign in to the Azure Portal by using the credentials for your Azure Subscription
2. In the search box, type **Machine Learning** and select the matching item



3. Then click create




Microsoft Azure

Home > Create a resource >

Machine Learning

Microsoft



Machine Learning

Microsoft

★ 4.3 (114 Azure ratings)

Plan

Machine Learning

Create

Overview Plans Usage Information + Support Reviews

Azure Machine Learning empowers developers and data scientists with a wide range of tools and services. Create an Azure Machine Learning workspace to train, manage, and deploy machine learning models.

Media

4. Provide the following information to configure your workspace

1. Subscription: Select the Azure subscription that you want to use.
2. Resource group: Use an existing one in your subscription or enter a name to create a new one. In this example, we create a new one called **rg-aml-essentials-ws**.
3. Workspace name: Enter a unique name across the resource group. It is recommended to use a name which is easy to recall and differentiate from workspaces create by others. The name is case-insensitive. In this example we use **aml-essentials-ws**
4. Region: Select the location closest to your users and data resources.
5. Leave default values **Storage account**, **Key vault**, **Applications insights**, **Container registry**

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Machine learning

Create a machine learning workspace

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Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	<div>Azure Pass - Sponsorship</div>
Resource group *	<div>(New) rg-aml-essentials-ws</div> <div>Create new</div>

Workspace details

Specify the name and region for the workspace.

Workspace name *	<div>aml-essentials-ws</div>
Region *	<div>West Europe</div>
Storage account *	<div>(new) amlessentials4496076097</div> <div>Create new</div>
Key vault *	<div>(new) amlessentials5641019302</div> <div>Create new</div>
Application insights *	<div>(new) amlessentials8584647345</div> <div>Create new</div>
Container registry *	<div>None</div> <div>Create new</div>

[Review + create](#)[< Previous](#)[Next : Networking](#)


5. Click **Review + Create**

6. In the *Validation page* click on **Create**

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Machine learning ...

Create a machine learning workspace

 Validation passed

- Basics
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Basics

Subscription	Azure Pass - Sponsorship
Resource group	(New) rg-aml-essentials-ws
Region	West Europe
Workspace name	aml-essentials-ws
Storage account	(new) amlessentialsw4496076097
Key vault	(new) amlessentialsw5641019302
Application insights	(new) amlessentialsw8584647345
Container registry	None

Networking

Connectivity method	Public endpoint (all networks)
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Advanced

Identity type	System assigned
Encryption type	Microsoft-managed keys
Enable HBI Flag	Disabled

Create

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The deployment will start

The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar and navigation links. The main heading is "Microsoft.MachineLearningServices | Overview". Below this, there's a "Deployment" section with a search bar and buttons for "Delete", "Cancel", "Redeploy", and "Refresh". A sidebar on the left lists "Overview", "Inputs", "Outputs", and "Template". The main content area shows a status message: "We'd love your feedback!" followed by "Deployment is in progress". Below this, deployment details are listed: "Deployment name: Microsoft.MachineLearningServices", "Subscription: Azure Pass - Sponsorship", and "Resource group: rg-aml-essentials-ws". The start time is "3/26/2022, 12:43:07 PM" and the correlation ID is "91437172-ddf7-4715-aa03-43f25653a1a0". A "Deployment details (Download)" link is provided. At the bottom, a table with headers "Resource" and "Type" shows "No results."

7. When the deployment is terminated click on **Go to resource**

The screenshot shows the Microsoft Azure portal interface. The main heading is "Microsoft.MachineLearningServices | Overview". The "Deployment" section shows a status message: "Your deployment is complete". Below this, deployment details are listed: "Deployment name: Microsoft.MachineLearningServices", "Subscription: Azure Pass - Sponsorship", and "Resource group: rg-aml-essentials-ws". The start time is "3/26/2022, 12:43:07 PM" and the correlation ID is "91437172-ddf7-4715-aa03-43f25653a1a0". A "Deployment details (Download)" link is provided. Below this, a table with headers "Resource", "Type", "Status", and "Operation details" shows the following resources:

Resource	Type	Status	Operation details
aml-essentials-ws	Microsoft.MachineLearningServices/workspaces	OK	Operation details
amlessentialsw8584647345	Microsoft.Insights/components	OK	Operation details
amlessentialsw4496076097	Microsoft.Storage/storageAccounts	OK	Operation details
amlessentialsw5641019302	Microsoft.KeyVault/vaults	OK	Operation details

Below the table, there's a "Next steps" section with a "Go to resource" button.

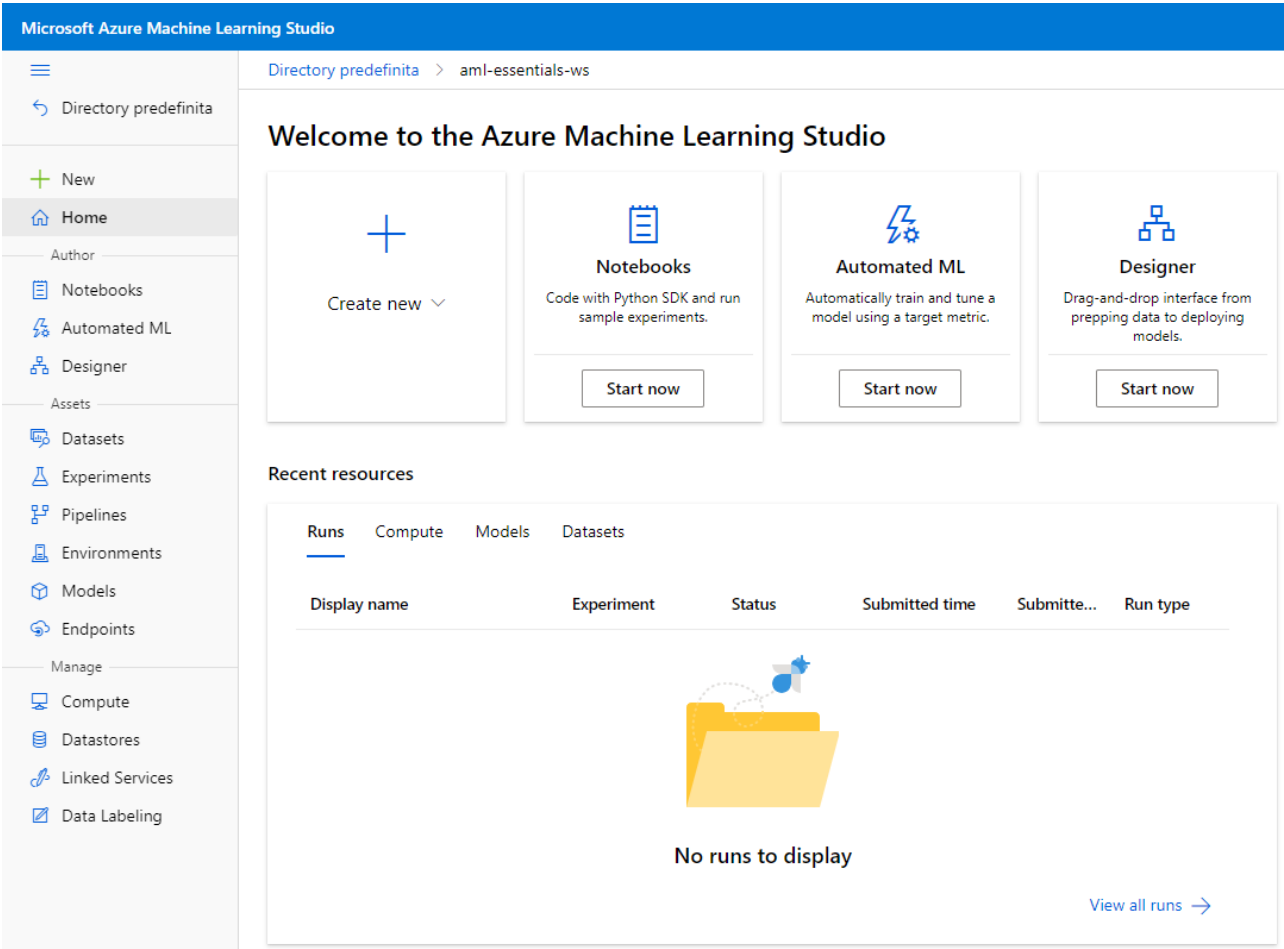
8. In the Azure Machine Learning resource page click on **Launch studio**

The screenshot shows the Azure Machine Learning resource page for "aml-essentials-ws". The page has a sidebar with navigation links: "Overview", "Activity log", "Access control (IAM)", "Tags", "Diagnose and solve problems", "Events", "Settings", "Networking", "Properties", "Locks", "Monitoring", "Alerts", and "Metrics". The main content area shows the "Essentials" section with a "JSON View" link. The "Essentials" section lists the following details:

- Resource group: [rg-aml-essentials-ws](#)
- Location: West Europe
- Subscription: [Azure Pass - Sponsorship](#)
- Subscription ID: 98030db7-5d13-49be-af82-d85082ec06c7
- Storage: [amlessentialsw4496076097](#)
- Studio web URL: <https://ml.azure.com/?tid=97985130-2e22-4efa-a558-...>
- Registry: [...](#)
- Key Vault: [amlessentialsw5641019302](#)
- Application Insights: [amlessentialsw8584647345](#)
- MLflow tracking URI: [azureml://westeurope.api.azureml.ms/mlflow/v1.0/sub...](#)

At the bottom, there's a section titled "Manage your machine learning lifecycle" with the text "Use the Azure Machine Learning studio to build, train, evaluate, and deploy machine learning models. [Learn more](#)". A "Launch studio" button is located at the bottom right.

Azure Machine Learning Studio home page will open in another tab of your browser



The Lab is complete!