Objectives:

* Understand the purpose and structure of a SageMaker Domain.
* Learn how to set up a user profile within the domain.
* Explore the SageMaker Studio interface and its core functionalities.

Steps:

* Domain Creation
  + Navigate to the [Amazon SageMaker Console](https://console.aws.amazon.com/sagemaker/).
  + In the left navigation pane, select **"Domains"** under **"Admin configurations"**
  + Click on **"Create domain"**
  + Select **"Set up for single user (Quick setup)"**. This option automatically configures default settings, including the domain and user profile.
  + Click **"Next"**, review the configurations, and then click **"Create domain"**
  + The domain creation process may take a few minutes. Once completed, the status will change to **"InService"**.​
* User Profile Creation
  + In the SageMaker Console, under **"Domains"**, click on the name of the domain you just created.
  + Under the **"User profiles"** section, click **"Add user"**
  + Enter a unique user name
  + Assign appropriate permissions by selecting an IAM role. You can use the default role created during the domain setup.​
  + Once the user profile is created, click **"Open Studio"** to launch the SageMaker Studio interface
* Create a JupyterLab Space
  + Set default settings. Once created open JupyterLab
  + Create notebook and use
  + Stop Jupyterlab Space once done.
  + Delete Space from top right corner.
* Click JumpStart
  + Select a provider and model
    - For example Hugging Face and Falcon 1 B
    - See notebook code
* Deletions:
  + Jupyterlab Space
  + Endpoints, if created
  + Instances.
  + Users, Domain