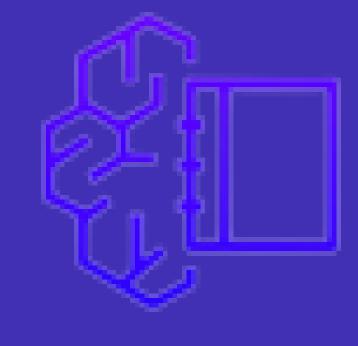
MLOPS WITH AWS SAGEMAKER

Session 2



Agenda

- Sagemaker Studio Overview
- Sagemaker Studio Architecture
- Demo: Sagemaker Projects and MLOPS Template

RECAP

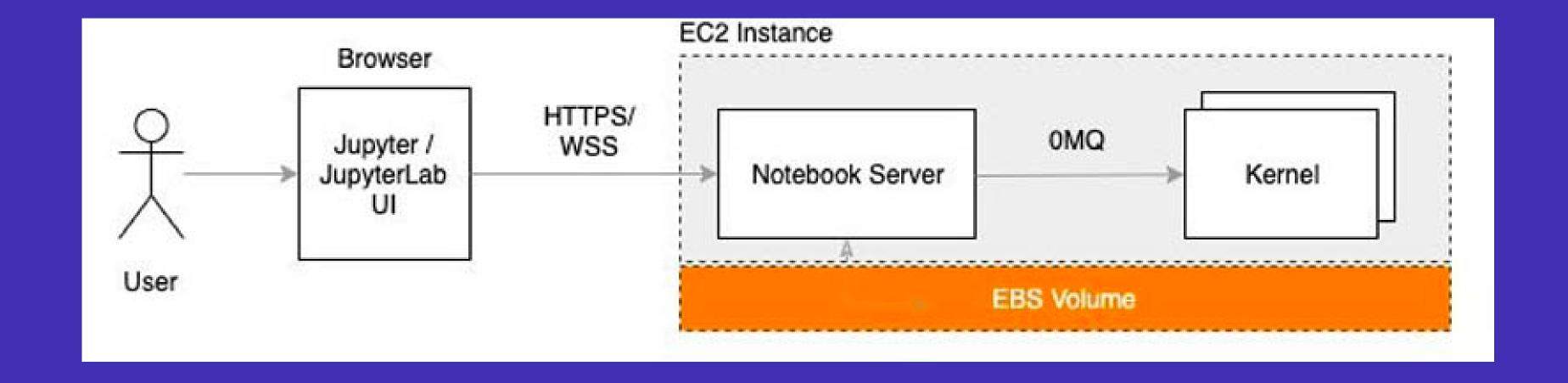
- In previous session, We discuss about what is MLOps, MLOps Challenges, MLOps Benefits.
- HighLevel Overview of AWS Sagemaker.
- Demo -Use the terraform code to Deploy the Sagemaker Studio with User profiles and Spaces.

* You can find the All Session Presentation and Recordings in GitHub https://github.com/aws-data-usergroup-bangalore/sagemaker-mlops/tree/main

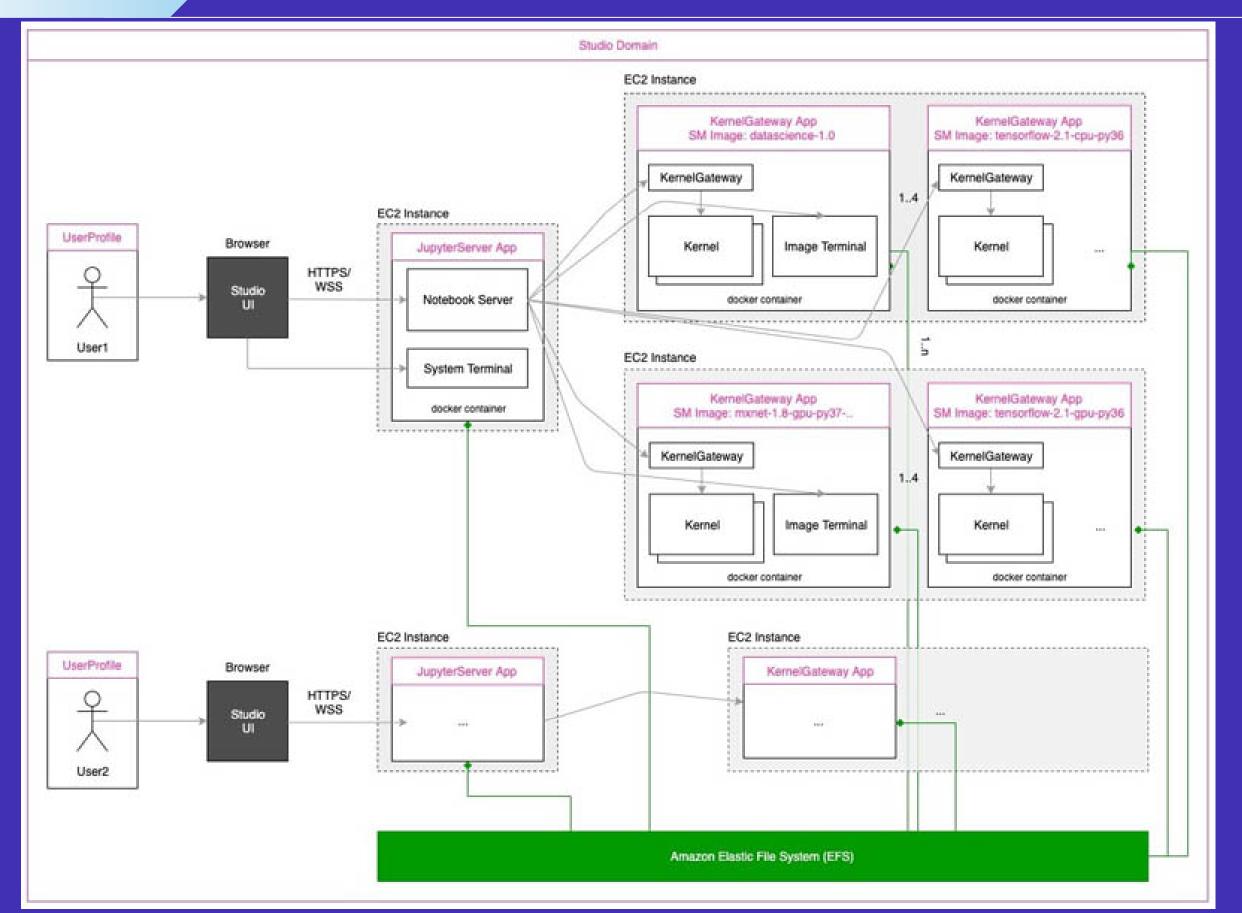
SAGEMAKER STUDIO OVERVIEW

- It is like "One ring to rule them all". It facilitate MLOps lifecycle from Data to Deployment. This improve productivity of Data Scientist.
- Amazon SageMaker Studio is the first fully integrated development environment (IDE) for machine learning (ML). It provides a single, web-based visual interface where you can perform all ML development steps, including preparing data and building, training, and deploying models.
- You can simply migrate your notebook running in JupyterLab environment to Studio.
- Quickly move between steps of the ML lifecycle to fine-tune your models. Replay training experiments, tune model features and other inputs, and compare results, without leaving SageMaker Studio.
- You can do single click deployment of Model from Sagemaker Studio Jumpstart / Foundation Model

SAGEMAKER NOTEBOOK



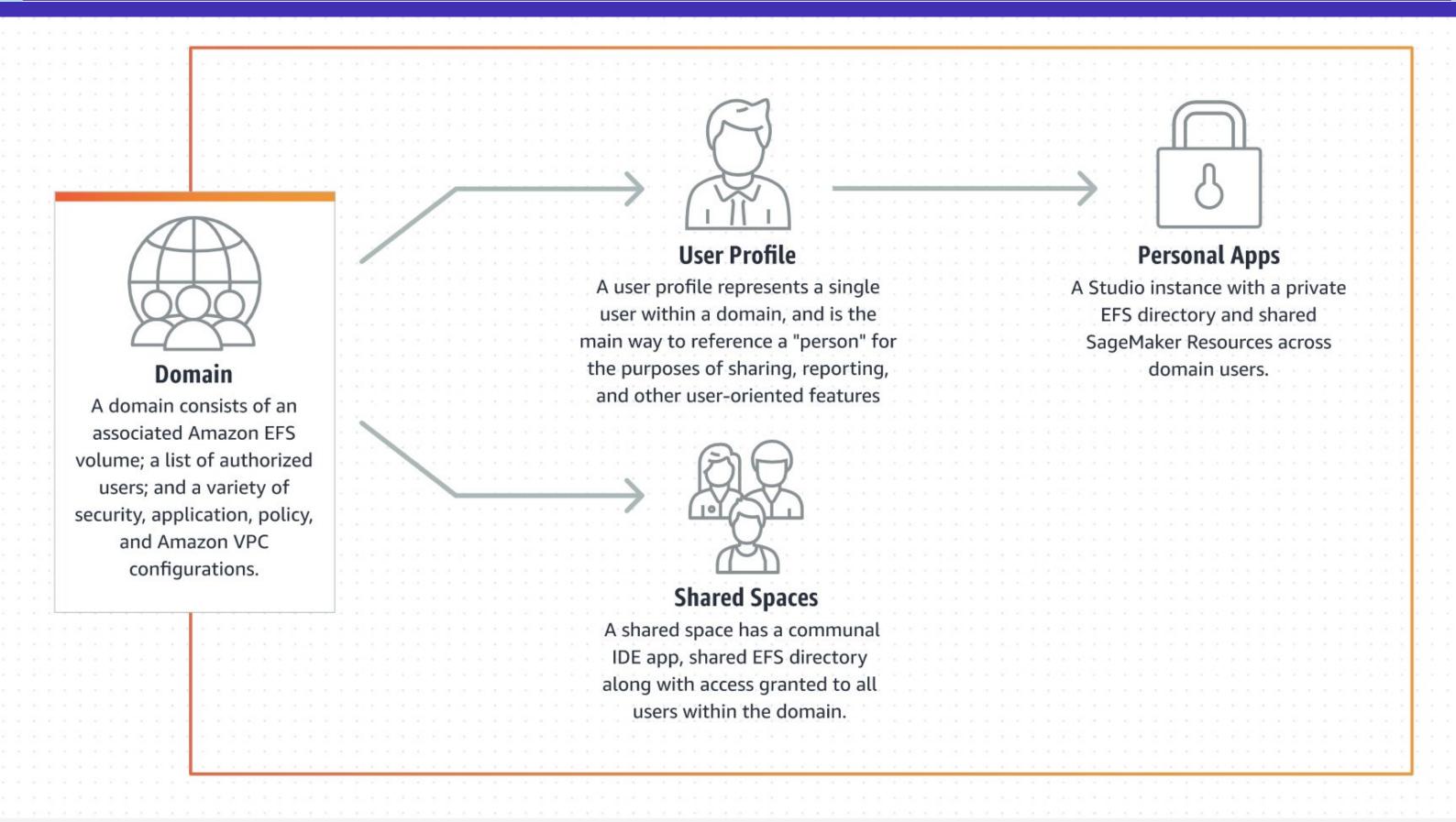
SAGEMAKER STUDIO ARCHITECTURE



Let us Understand -

- Domain
- User Profile
- Spaces
- IAM and VPC Integration
- Apps-Jupyter and Kernel Gateway

SAGEMAKER STUDIO - SPACES



SAGEMAKER STUDIO - PROJECTS

- SageMaker Projects help organizations set up and standardize developer environments for data scientists and CI/CD systems for MLOps engineers. Projects also help organizations set up dependency management, code repository management, build reproducibility, and artifact sharing.
- SageMaker Projects provides a set of templates for organizations that want to quickly get started with ML workflows and CI/CD. The templates include projects that use AWS-native services for CI/CD, such as AWS CodeBuild, AWS CodePipeline, and AWS CodeCommit.

Demo - Sagemaker

MLOps Template