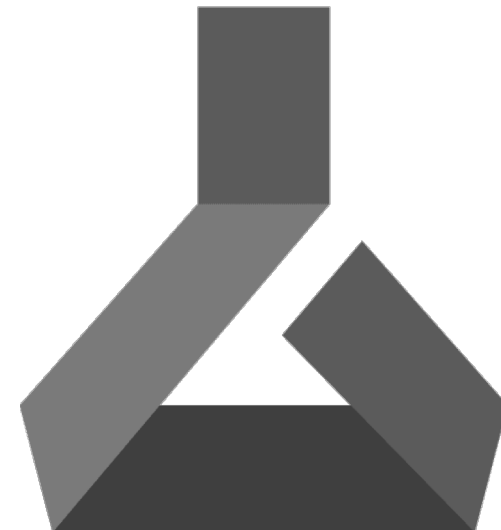




Machine Intelligence
Modern Infrastructure

<http://mi2.live>

Build Your First ML Model with Azure Machine Learning Service



What is MI2?

MI2 Webinars focus on the convergence of **machine intelligence** and **modern infrastructure** and. Every alternate week, I deliver informative and insightful sessions covering cutting-edge technologies. Each webinar is complemented by a tutorial, code snippets, and a video.

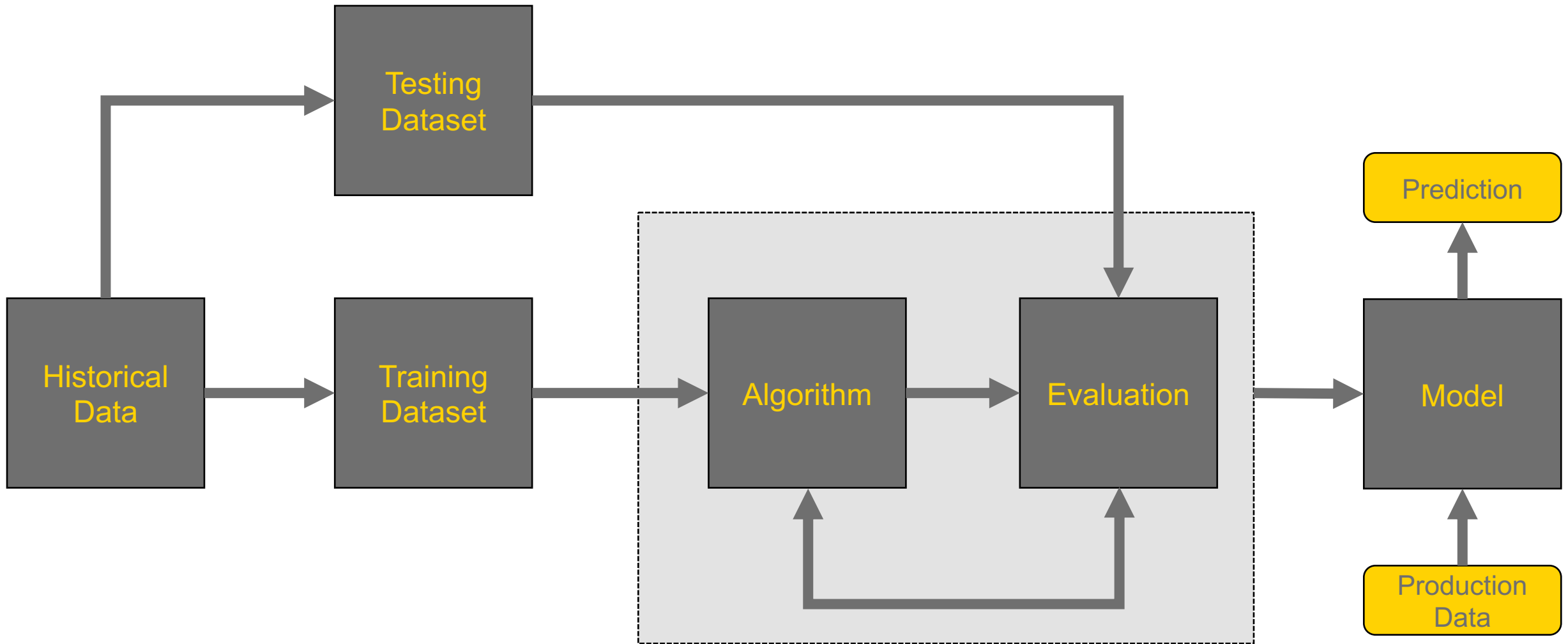
MI2 strives to be an independent and neutral platform for exploring emerging technologies.

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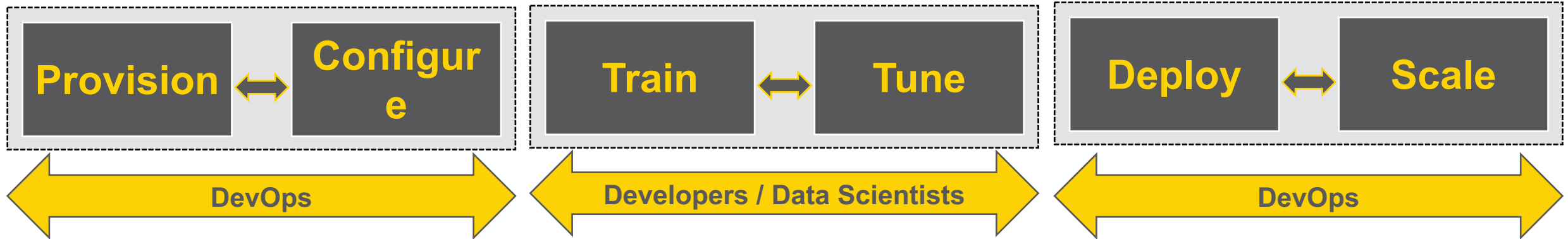
Objectives

- The lifecycle of a machine learning model
- Overview of Azure Machine Learning service
- Building blocks of Azure ML service
- Demo
- Summary

Lifecycle of an ML model



Lifecycle of ML Model



ML PaaS – Simplifying ML Model Management

Dashboard

CLI

SDK

Machine Learning PaaS

Provision



Configure

Train



Tune

Deploy



Scale

DevOps

Developers / Data Scientists

DevOps

ML Model Management with Azure ML Service

Portal

CLI

Python SDK



Azure Machine Learning Service

Provision



Configure

Train



Tune

Deploy



Scale

DevOps

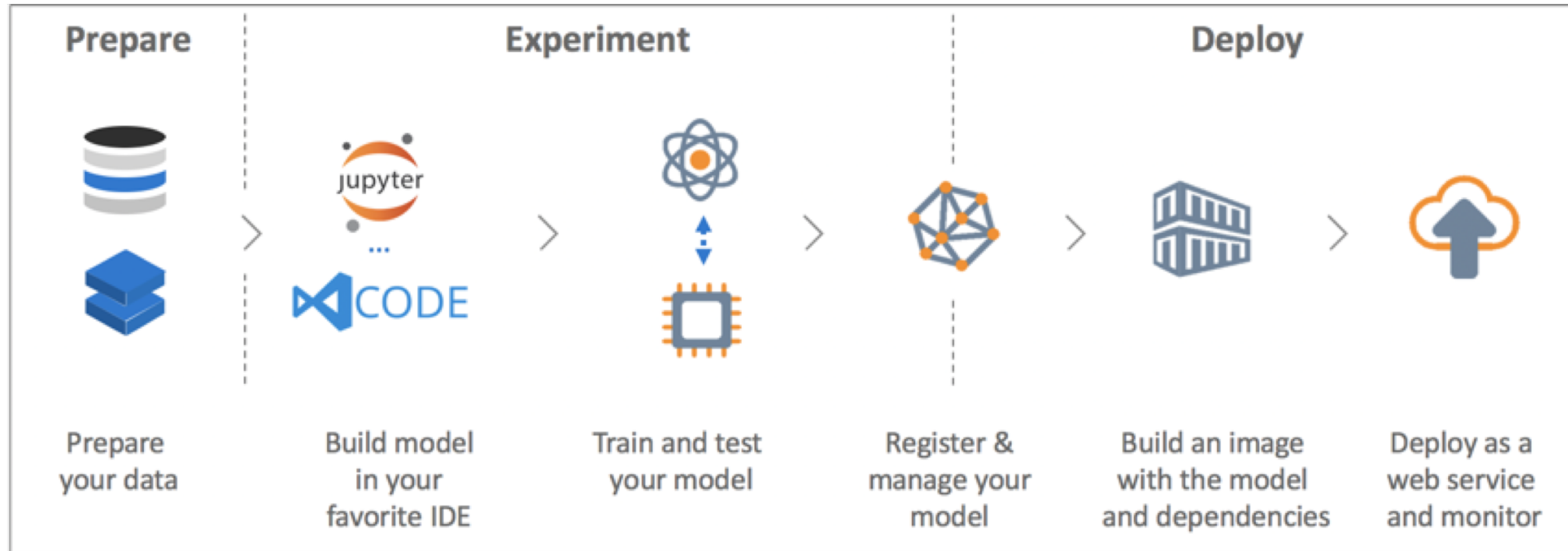
Developers / Data Scientists

DevOps

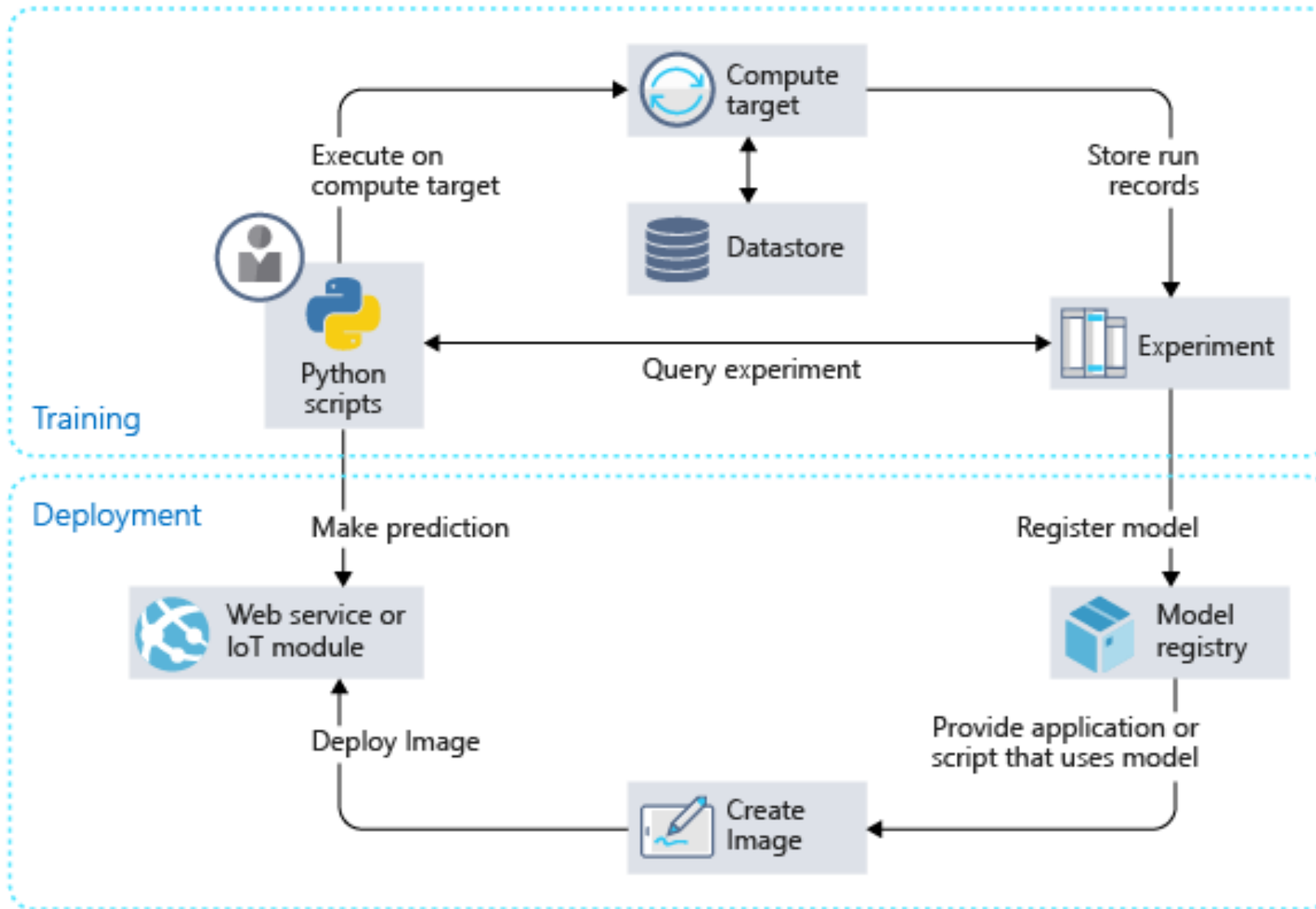
What is Azure Machine Learning Service?

- Managed service to build, train and deploy ML models
- Integrates with Python environments, frameworks, and tools
- Python APIs for end-to-end lifecycle management of models
- Mix and match on-premises, cloud, and edge environments
- Tightly integrated with Azure security, compliance, and virtual network support
- AutoML for classic machine learning and deep learning
- Includes experiment tracking, model management and monitoring, integrated CI/CD and machine learning pipelines

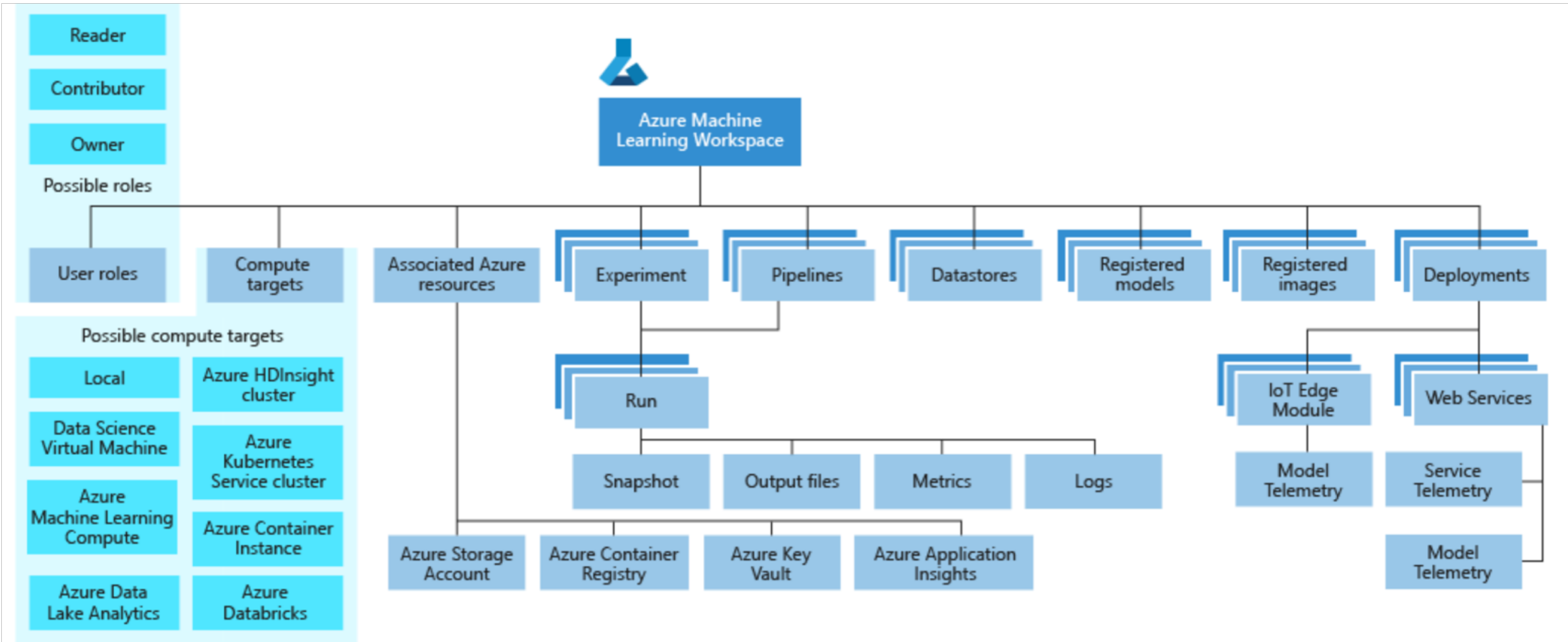
What is Azure Machine Learning Service?



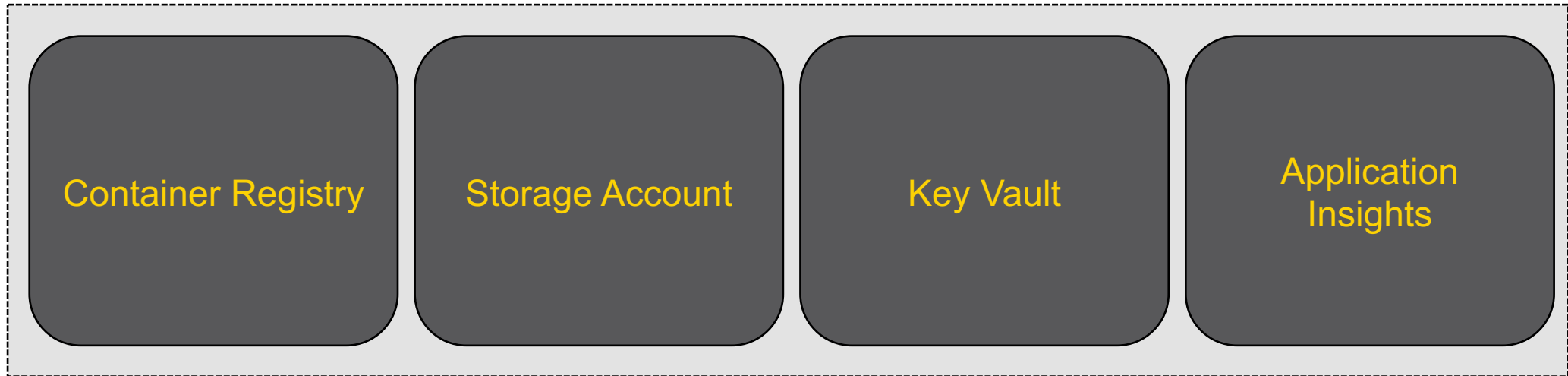
What is Azure Machine Learning Service?



The Big Picture of Azure ML Service



A Closer Look at Azure ML Workspace



What are we building?

- An ML model based on Scikit-learn
- Train the model locally
- Use Azure ML Experiment to log metrics
- Register fully trained model with Azure ML
- Create a container image for the latest version of ML model
- Launch the image as an Azure Container Instance for serving

DEM

Building and deploying the machine learning model

O

<https://github.com/janakiramm/azureml-tutorial>

Summary

- Azure ML service is a PaaS for machine learning
- Empowers developers and data scientists to programmable lifecycle management of models
- Workspace is the logical boundary for ML projects
- Wide range of compute choices for model training
- Comprehensive model management and experimentation
- Container-based deployment as a web service or an edge module



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Getting Started with AWS App Mesh

AWS App Mesh makes it easy to run microservices by providing consistent visibility and network traffic controls for every microservice in an application. Attend this session to get a thorough overview of the AWS App Mesh. I will walk you through and end-to-end demo that leverages AWS App Mesh.

Thursday, January 31st, 2019
9:00 AM PST / 10:30 PM IST

Register at <http://mi2.live>