

# AWS re:Invent

NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

ARC212

# Speed deployment of machine learning models using AWS solutions

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# Agenda

Introduction to AWS solutions

Case study: Cognizant, AWS Partner

Introduction to the MLOps Workload Orchestrator

Deep-dive demo

# What are AWS solutions?

The AWS Solutions Library provides vetted reference architectures for self-deployment and partner-delivered professional services

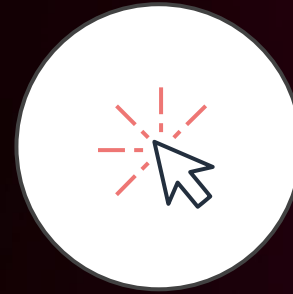
<https://aws.amazon.com/solutions/>



Detailed  
architecture diagram



Full deployment  
guide



One-click and manual  
deployment options



Customizable  
source code

**“ To build a comprehensive solution on your own could take years and millions of dollars . . . . Once our MLOps Model Lifecycle Orchestrator solution was in place, we could reduce the timeline for deploying every new ML model from weeks to hours. ”**

**Ajay Charma**

Chief Architect, Cognizant



Global systems integrator Cognizant transformed its clients' business, operating, and technology models for the digital era. Its data and analytics team helps enterprise organizations accelerate business growth using ML and artificial intelligence.

## Challenges

Because the data used in ML models can change rapidly, Cognizant needed an infrastructure for its ML operations solution that could adapt quickly and be used at scale

## Solutions

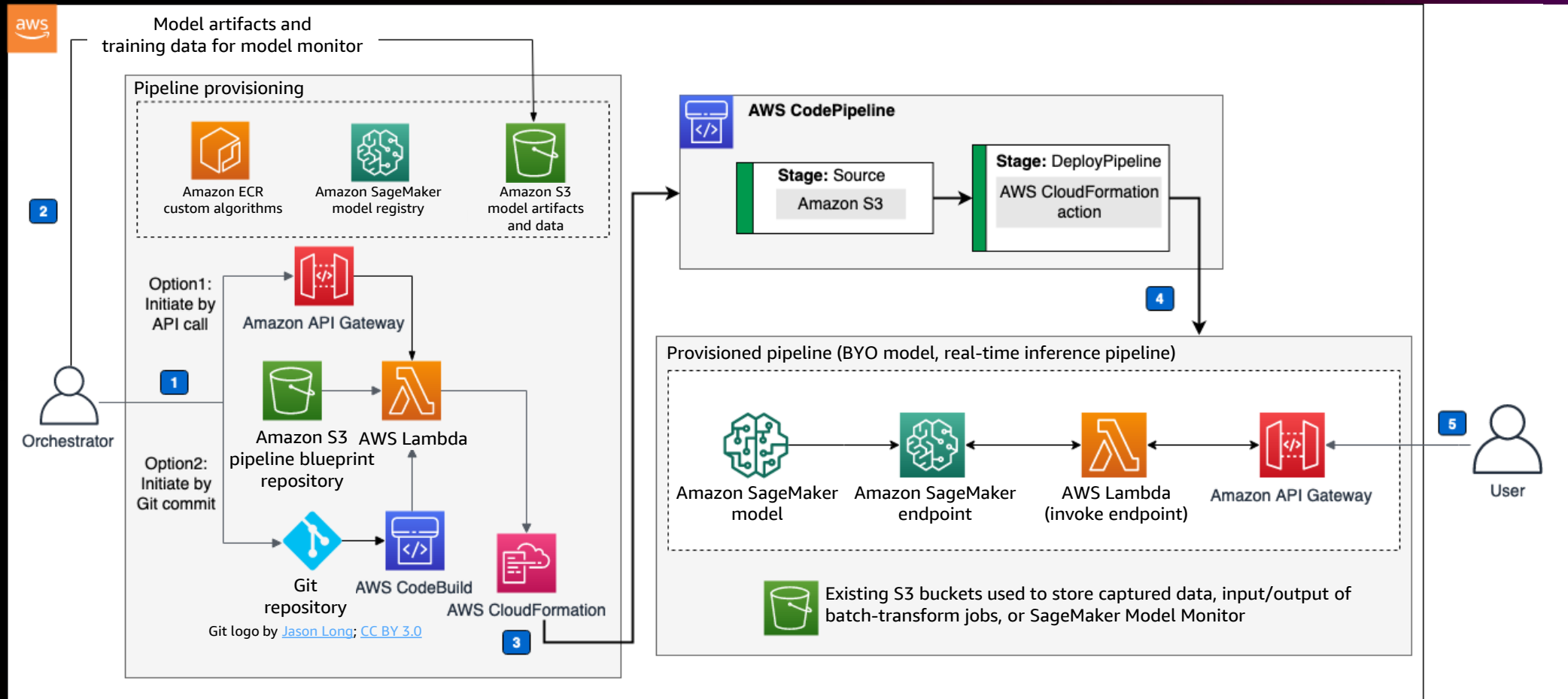
Using the MLOps Workload Orchestrator from the AWS Solutions Library, Cognizant built a solution that helps its clients automate and reduce the time and effort needed to deploy and maintain ML models

## Results

- Reduced deployment time of ML models from weeks to hours
- Achieved 80% cost savings due to standardized processes and automation
- Improved model runtime by 50%

# Benefits of the MLOps Workload Orchestrator

This solution offers an extendable framework that provides a standard interface for managing ML pipelines for AWS and third-party ML services



# Additional resources

## [Solutions for AI/ML](#)

Browse curated solutions for common ML use cases

## [Case study: Cognizant](#)

Cognizant MLOps Model Lifecycle Orchestrator speeds deployment of ML models from weeks to hours using AWS solutions

## [AWS Solutions Library](#)

Vetted solutions and guidance for business and technical use cases

## [Implementation guide: MLOps Workload Orchestrator](#)

Overview of the solution, its reference architecture and components, considerations for planning deployment, and configuration steps





# Thank you!

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