AWS re:Invent

NOV. 29 – DEC. 3, 2021 | LAS VEGAS, NV

PNU304

AWS Quick Start: Meter reads to insights in minutes

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Solutions Architect - Power & Utilities
Amazon Web Services

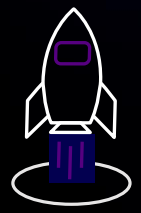
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Content

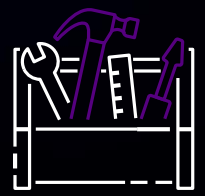
- Meter Data Analytics Quick Start
- Architecture overview
- Workshop sessions (5 hands-on labs)

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AWS Quick Starts



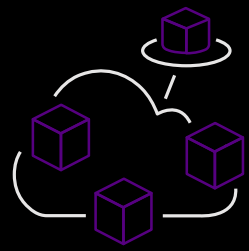
Automated, gold-standard deployments



Built by AWS solutions architects and partners



These accelerators reduce hundreds of manual procedures into just a few steps



Each Quick Start includes AWS CloudFormation templates that automate the deployment

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Meter Data Analytics Quick Start



Meter

Collector

CIS

GIS



Head end

Traditional MDM

Billing determinants

Always supported

aws

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Meter Data Analytics Quick Start



Meter

Collector

CIS

GIS



Head end

Traditional MDM

Distribution marketplace

Enable supplier switching

Never done before

Rate and pricing optimization

DER planning and simulation

Volt/VAR optimization

Predictive outage planning

Almost never supported today

Load forecasting

Customer outage reporting

Energy usage alerts

Sometimes supported

Billing determinants

Always supported

aws

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Meter Data Analytics Quick Start



Meter

Collector

Head end



CIS

GIS

Traditional MDM

AWS data lake

AWS Meter Data Analytics

- Distribution marketplace
- Enable supplier switching

Never done before

- Rate and pricing optimization
- DER planning and simulation
- Volt/VAR optimization
- Predictive outage planning

Almost never supported today

- Load forecasting
- Customer outage reporting
- Energy usage alerts

Sometimes supported

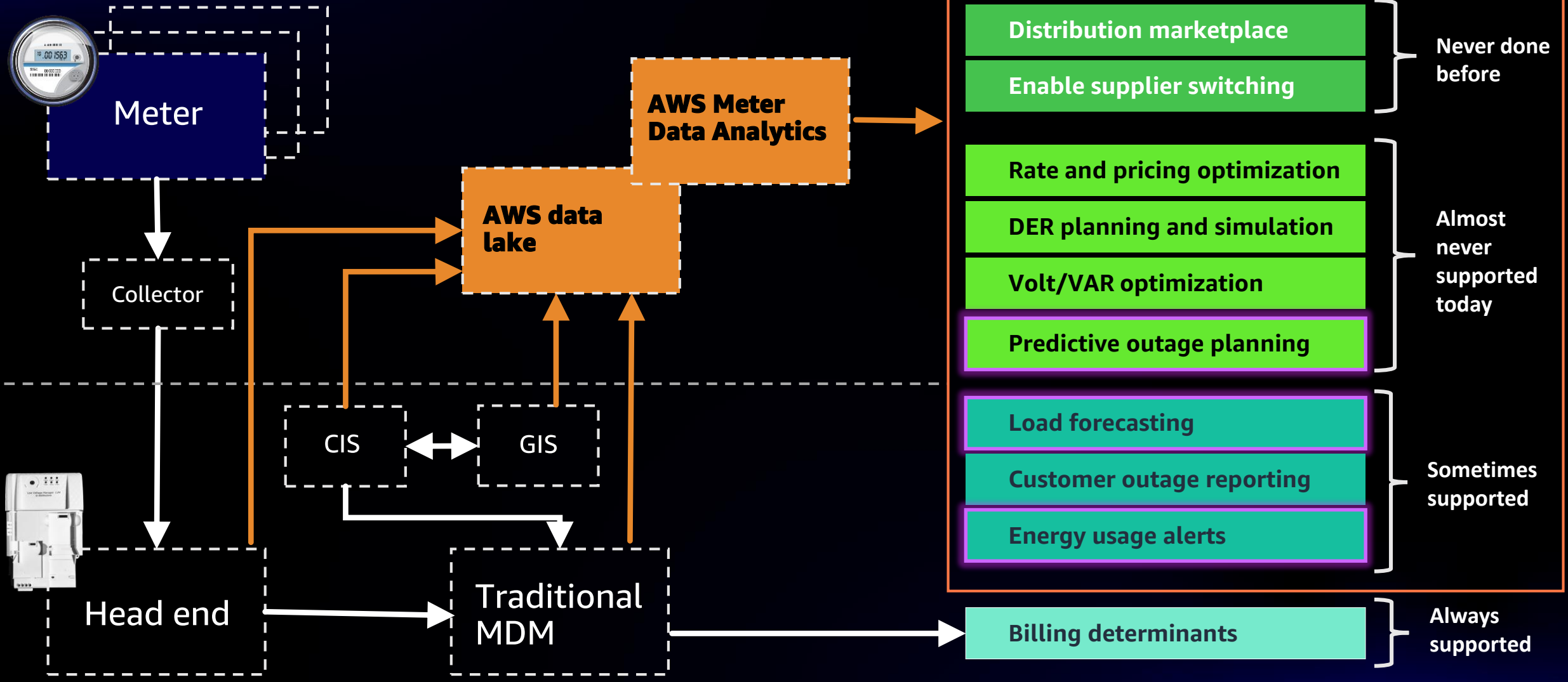
- Billing determinants

Always supported

aws

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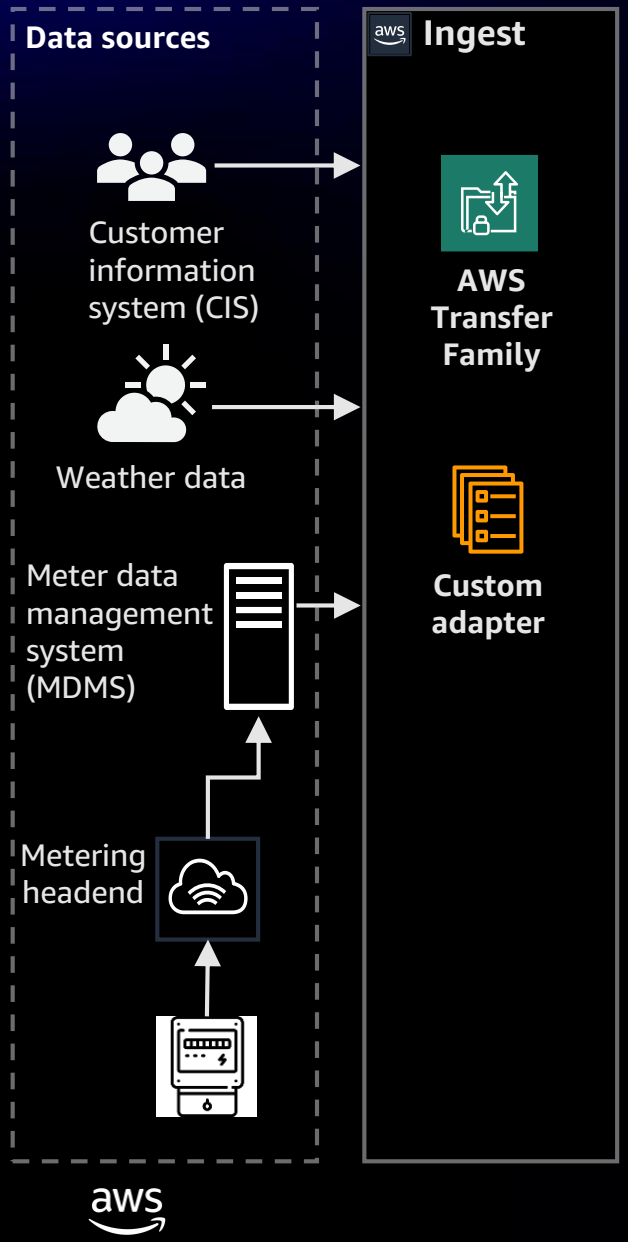
Meter Data Analytics Quick Start



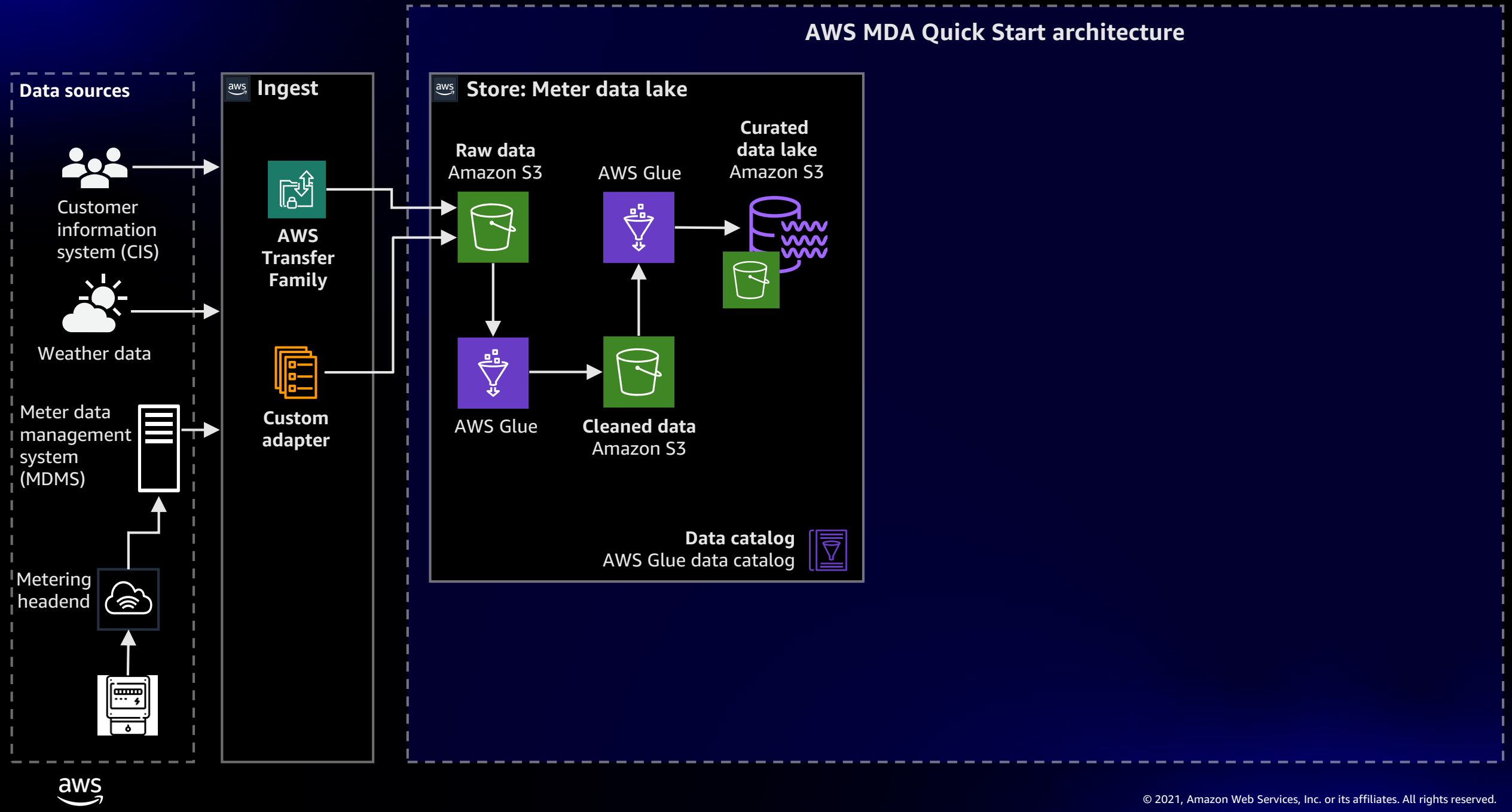
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Meter Data Analytics architecture

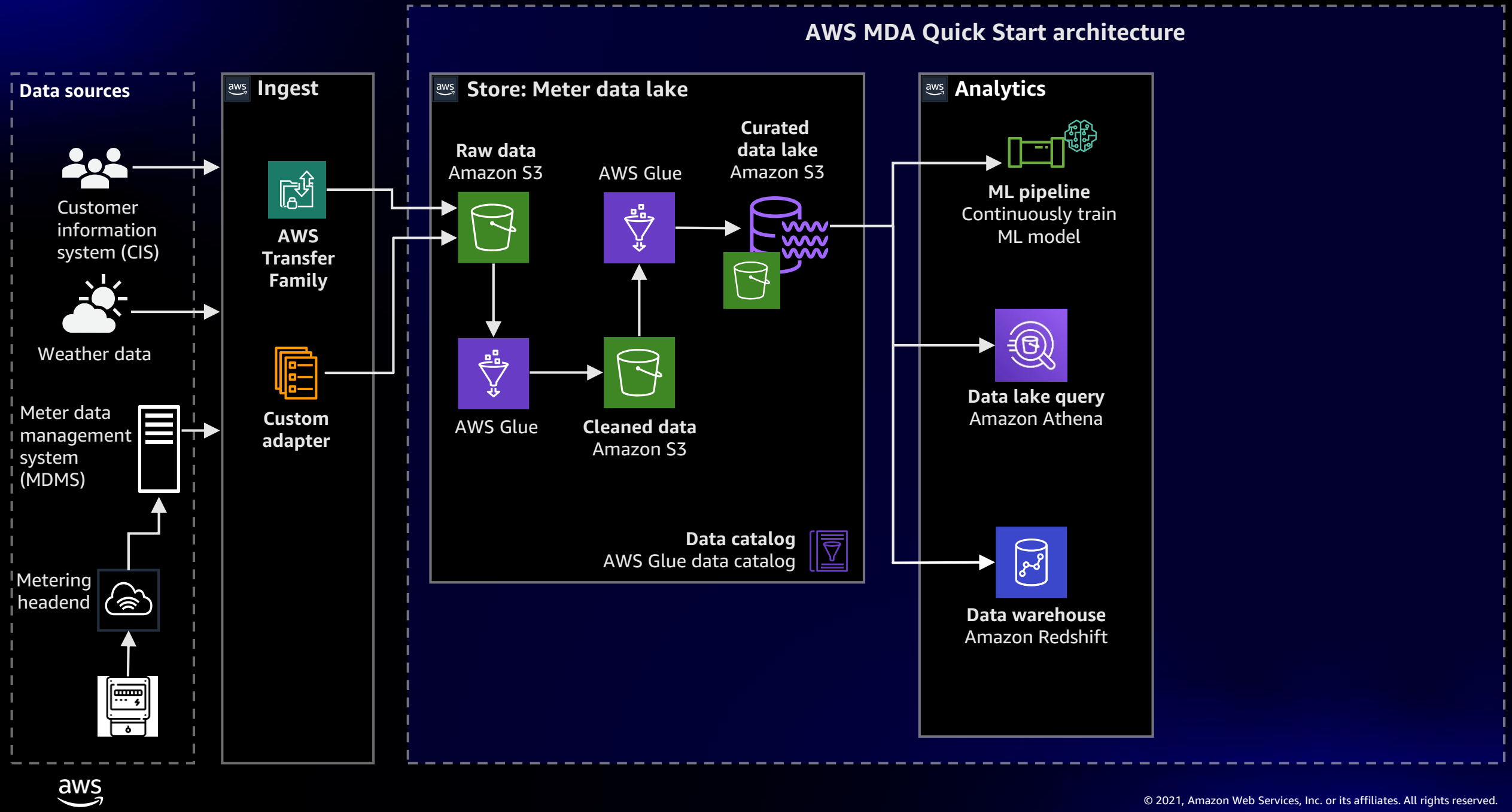
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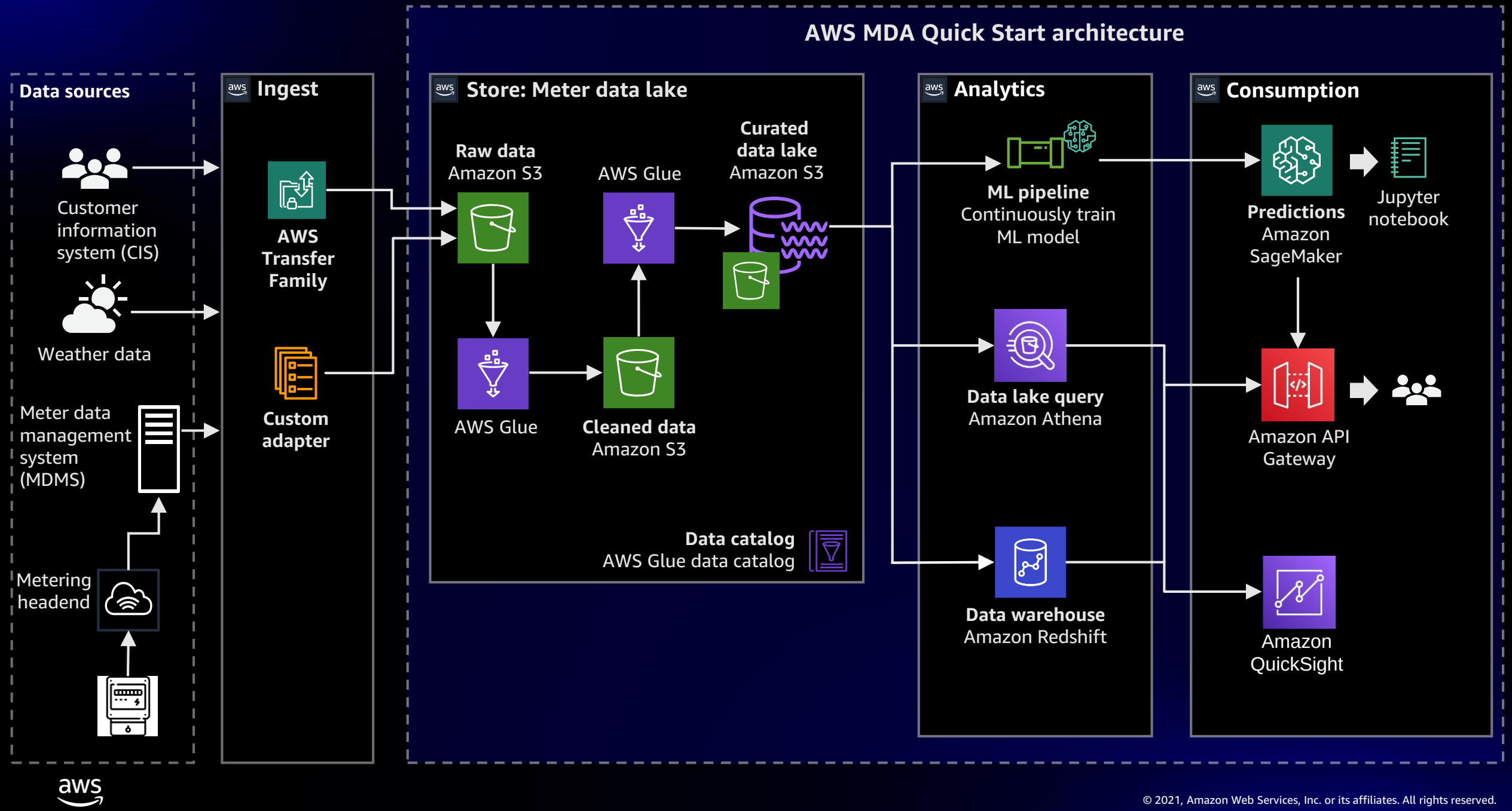
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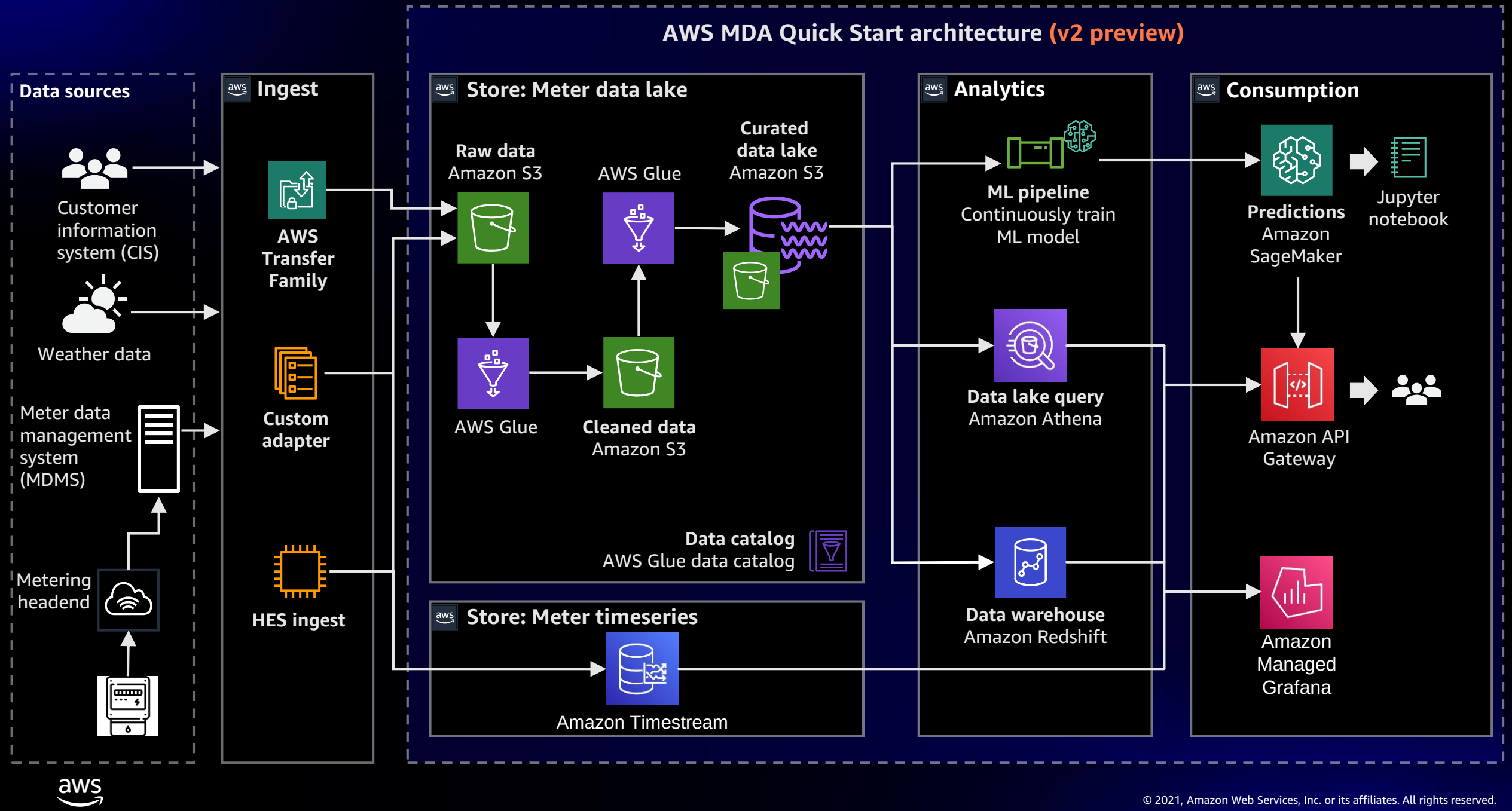
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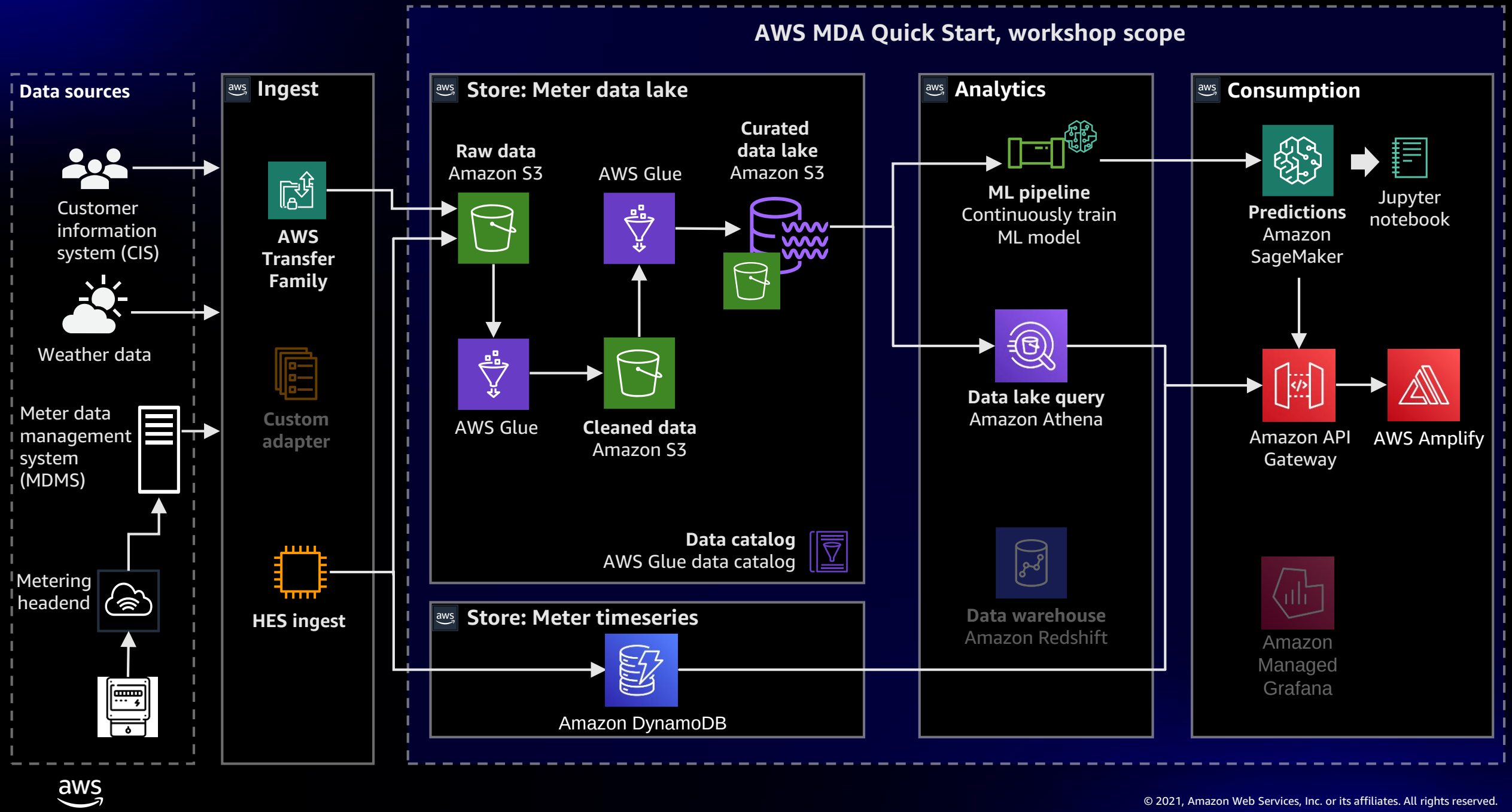


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Workshop



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What you will learn?

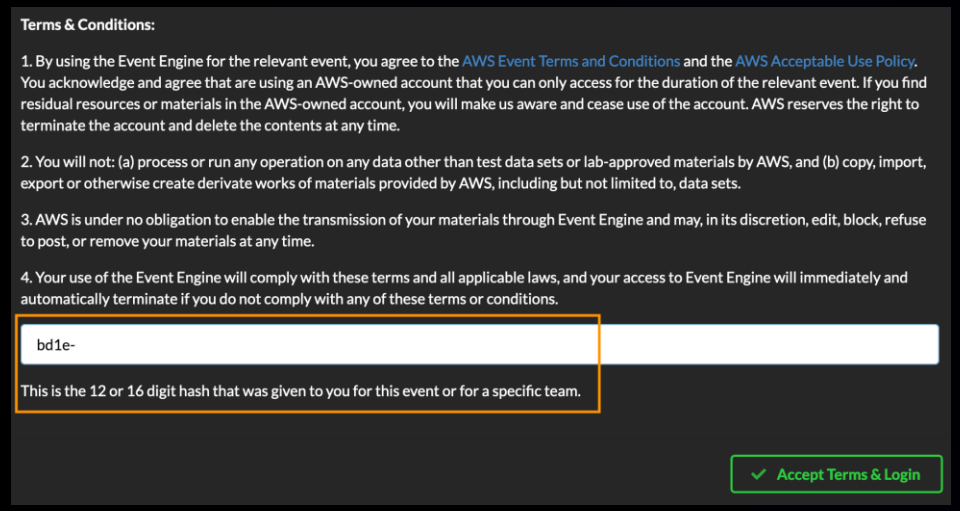
Lab 1	MDMS data ingestion
Lab 2	External data sources
Lab 3	Data visualization
Lab 4	EV charging detection
Lab 5	HES integration

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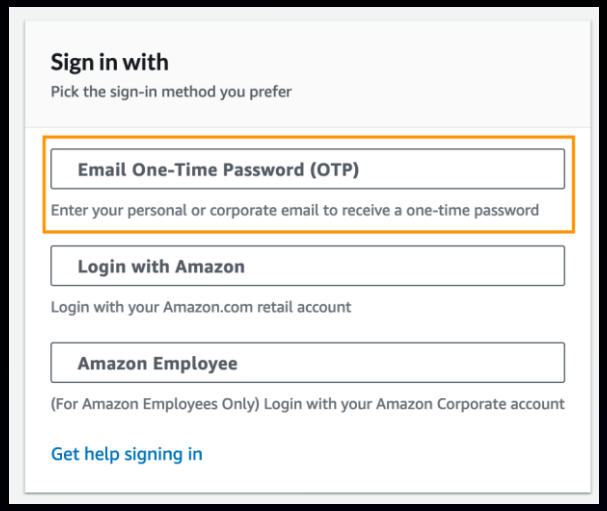
How to get started

Event Engine Link: https://dashboard.eventengine.run

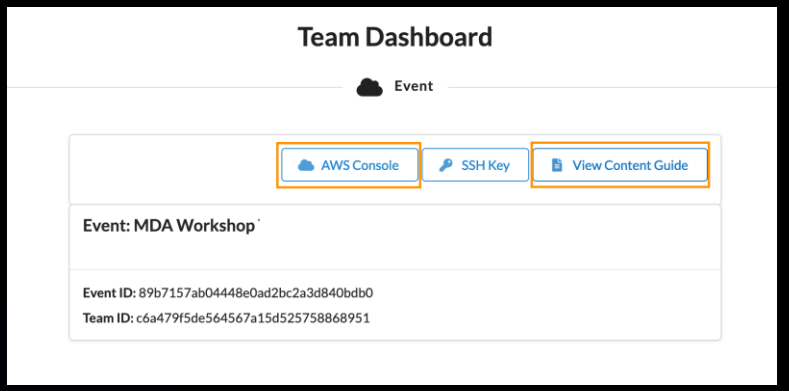
1



2



3



Workshop Link: https://tinyurl.com/awsmda

Event Hash: **0dd7-1e93de4e94-da**

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Resources

Published MDA Reference Architecture (v2)

MDA Reference Architecture
(https://d1.awsstatic.com/architecture-diagrams/ArchitectureDiagrams/meter-data-analytics-platform-ra.pdf)

Documentation to quickly get started with the MDA

MDA Quick Start Documentation
(https://aws-quickstart.github.io/quickstart-aws-utility-meter-data-analytics-platform/)

Quick Start GitHub repository

MDA Quick Start
(https://github.com/aws-quickstart/quickstart-aws-utility-meter-data-analytics-platform)

AWS Power & Utilities industry page

AWS Power & Utilities
(https://aws.amazon.com/power-and-utilities/)

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Thank you!

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