aws summit

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BMARC007

Empowering Mahindra Auto dealers using next-gen dealer management system

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Principal Solutions Architect
AWS India



Agenda

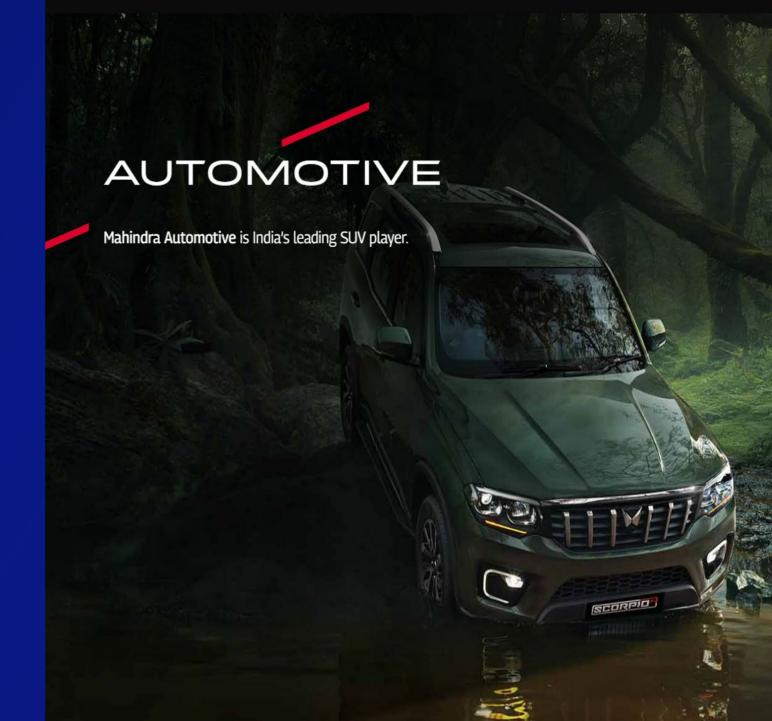
- About Mahindra & Mahindra Automotive Division
- Dealer management system
- ✓ Overview
- ✓ Challenges
- ✓ Build or buy?
- ✓ Key tenets
- Solution architecture Deep dive



About us

- M&M Automotive Division
 - Part of Mahindra Group
 - 58K plus vehicles sold in Feb'23

- M&M Automotive Digital Center
 - Digital arm of Mahindra Auto
 - Team of 100+ professional





Dealer management system - Overview

Used by M&M's Automotive Dealers across the country.

Handles sales, service, spare-parts & financial accounting.

~2,000 Dealer locations

~30,000 Active Users ~40,000 Auto Sales pm

~25,000 Services pd ~3,000
Peak
Concurrent
Sessions





Current challenges

- On-prem, monolithic system
- Bandwidth dependency
- Performance, downtime concerns
- Long turn-around time
- Limited capabilities



Build or buy?

- Unique processes mastered over the time
- High customization (\$\$)
- Limited & Expensive Support
- Intellectual Property Protection
- Inflexible release timelines



Key tenets

- Accelerate Go-To-Market
- Secure & Scalable
- Reliability & Resilience
- Observability & Monitoring
- Analytics & Al
- Optimized TCO
- Best practices from global teams



Solution architecture - Deep-dive

Landing Zone

DevOps

Authentication

Integration

Data Migration

Solution Architecture

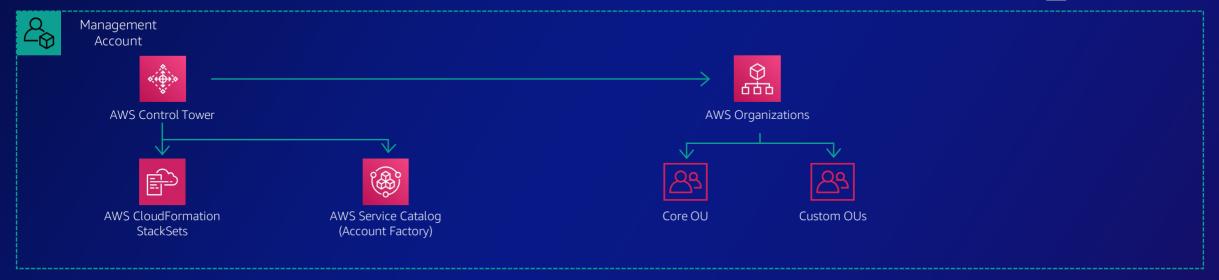


DMS landing zone with AWS control tower



DMS landing zone with AWS control tower







DMS landing zone with AWS control tower AWS Control Tower AWS CloudFormation AWS Service Catalog AWS StackSets AWS Cloud Formation AWS Service Catalog ACCOUNT Factory)



DMS landing zone with AWS control tower Management Account кŤъ AWS Organizations AWS Control Tower **AWS Identity Center** AWS CloudFormation AWS Service Catalog Custom OUs StackSets (Account Factory) Log Archive Account Audit Account GE: Security Cross-Account Account Baseline Baseline account roles Centralized AWS CloudTrail and Security AWS Config logs Notifications Config Aggregator

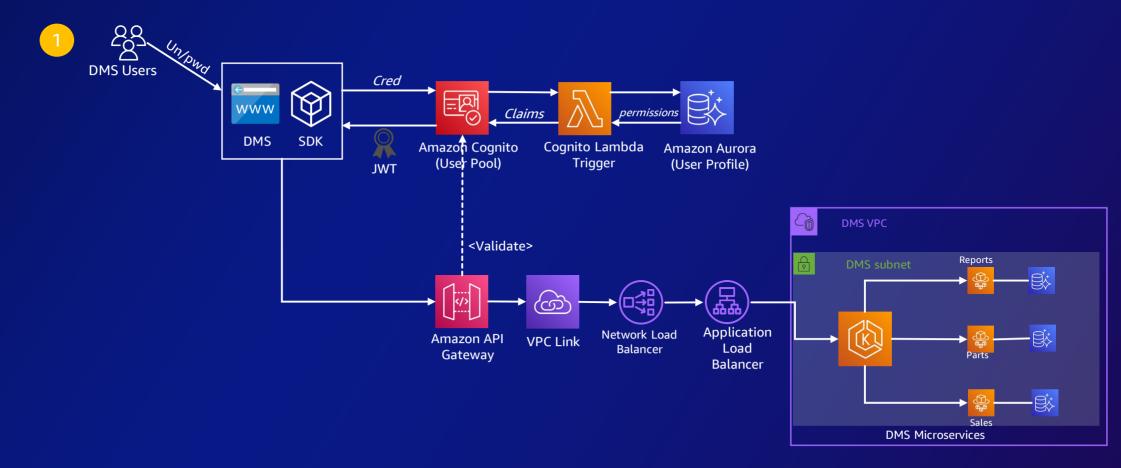
DMS landing zone with AWS control tower Users Management Account तर्तेत AWS Control Tower AWS Organizations **AWS Identity Center** AWS CloudFormation AWS Service Catalog Core OU Custom OUs StackSets (Account Factory) Log Archive Account Audit Account Provisioned accounts Dev/OA accounts UAT account Prod account GE: Security Cross-Account Account Account Account Account Account Baseline Baseline Baseline account roles Baseline **Baseline Baseline** Centralized AWS CloudTrail and Security Network Network Network Network AWS Config logs Notifications Config Aggregator Baseline Baseline Baseline Baseline Persistent Clusters Ephemeral clusters Ephemeral +Persistent

Authentication scenarios

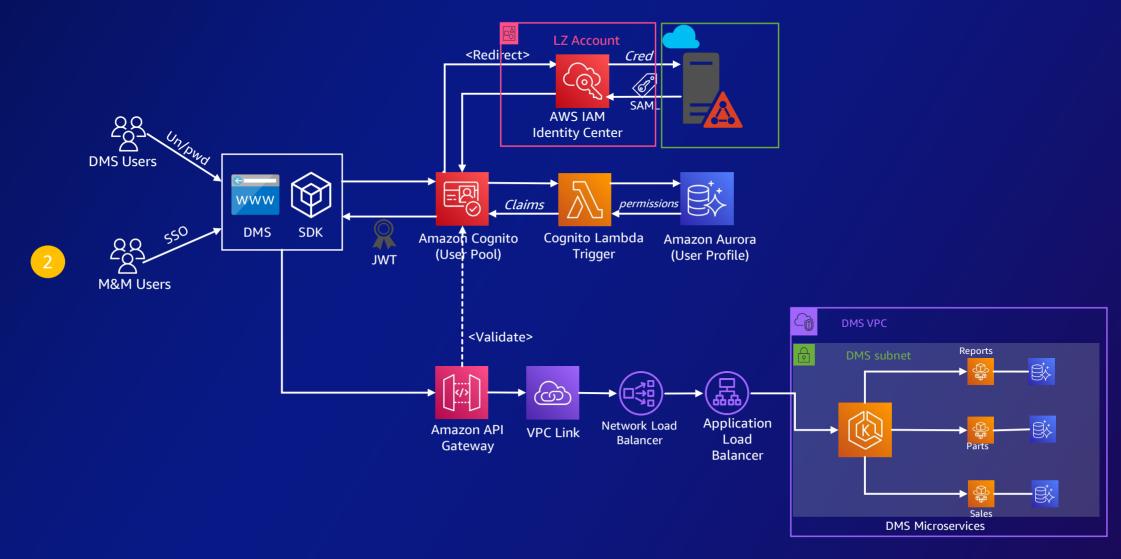
1 Dealership User

2 Corporate User 3
3rd Party Systems

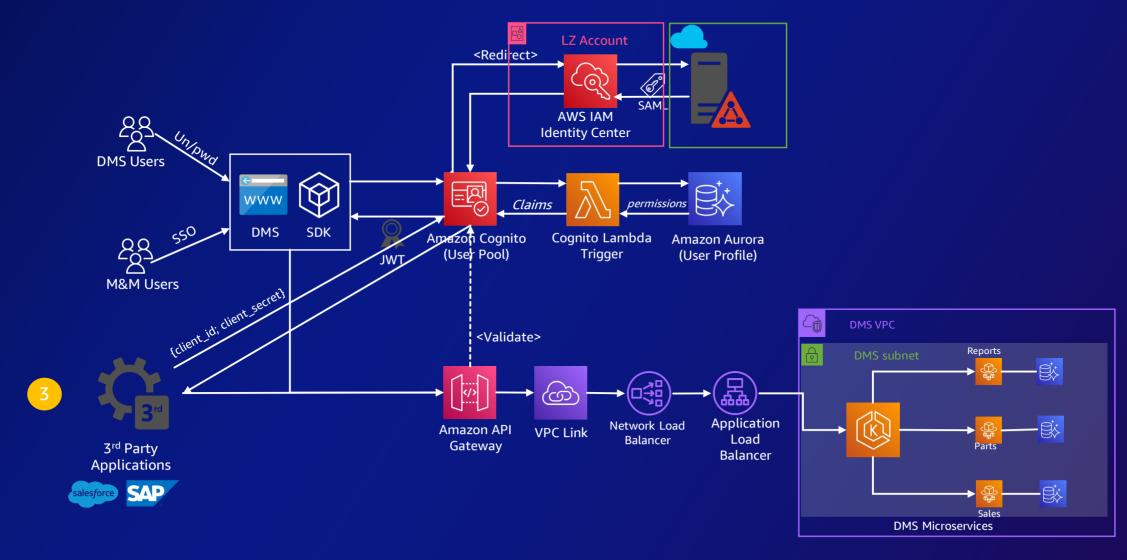
4 Microservices 5 PowerBl



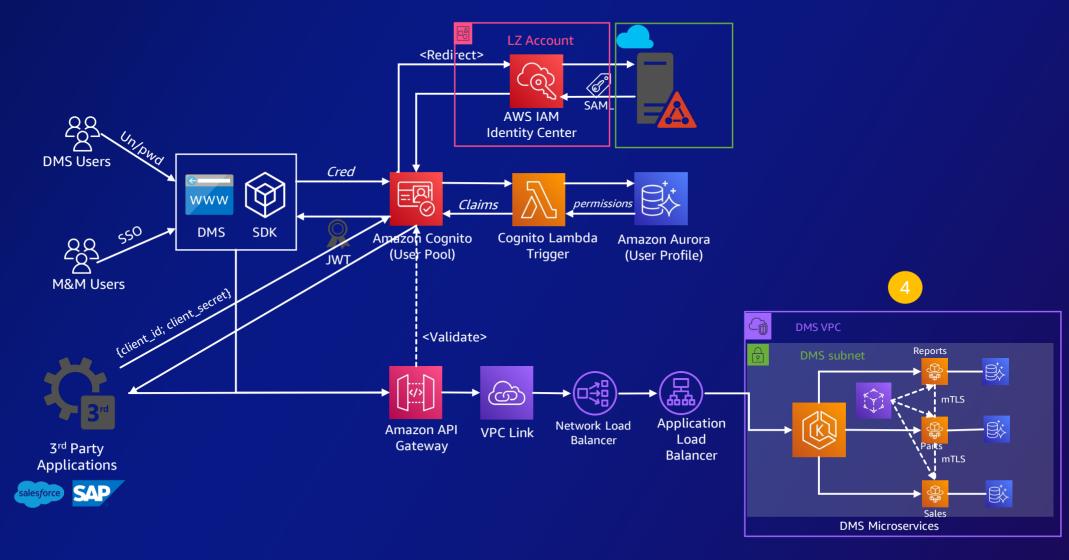




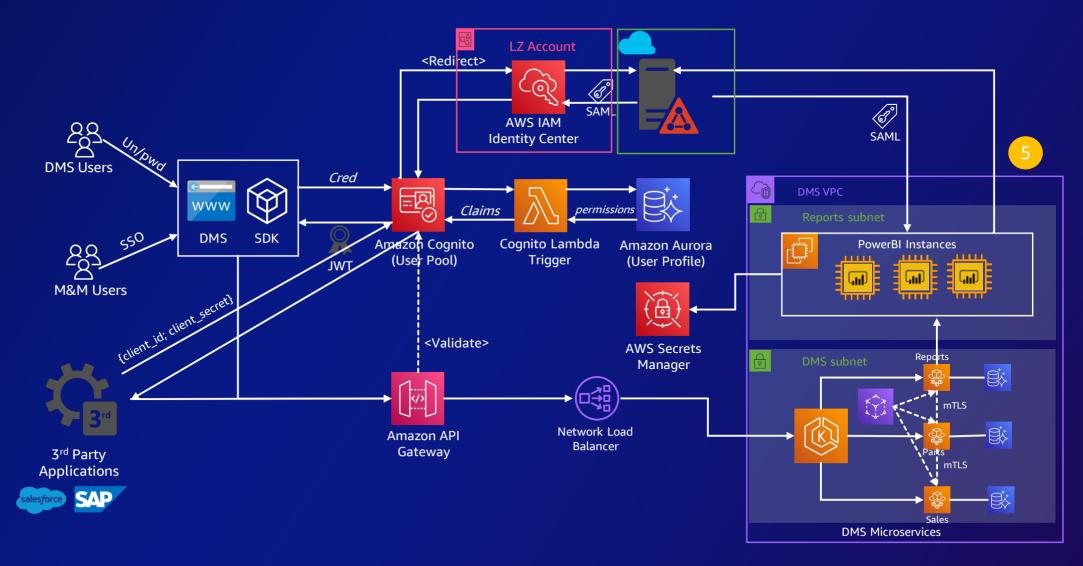












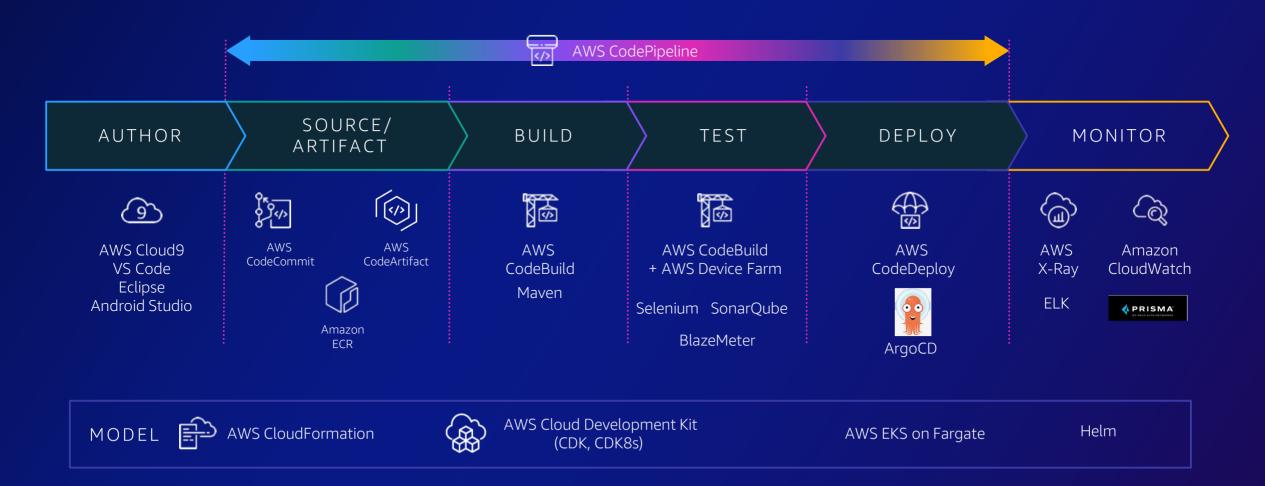


DevOps - Motivation





DevOps

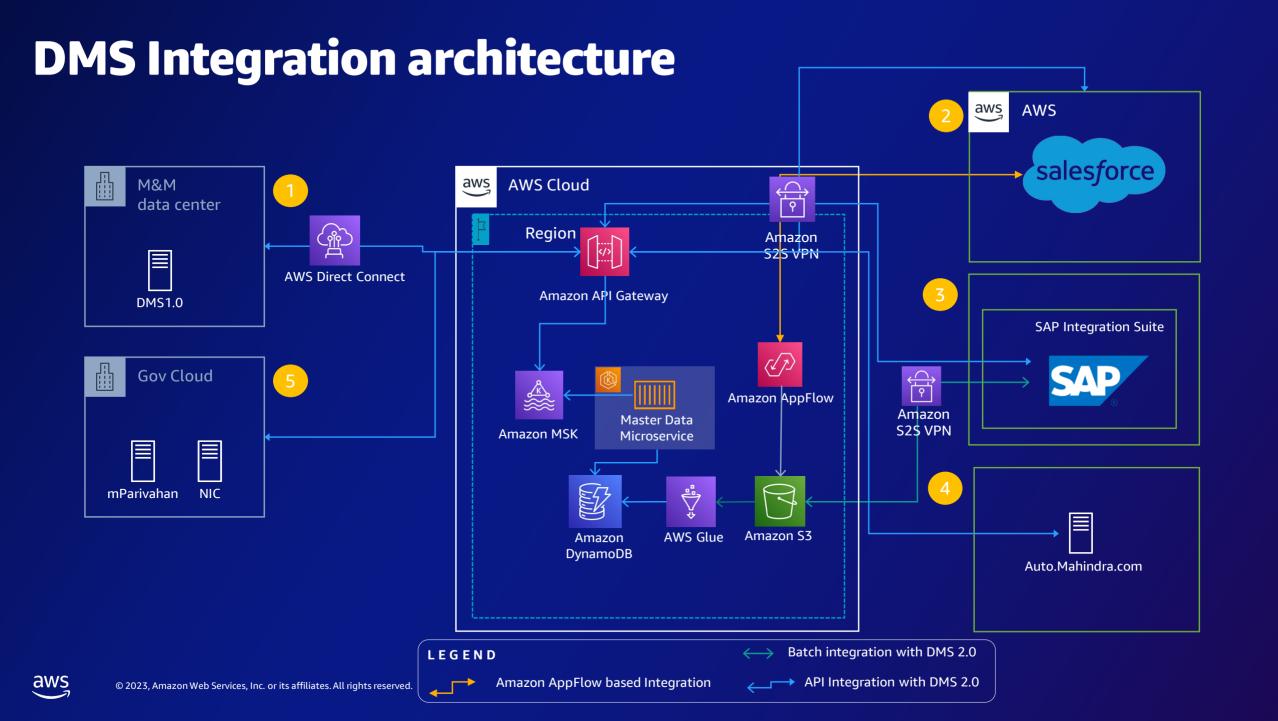


Integration scenarios

1 2 3 DMS 1.0 Sales Force SAP







Data migration architecture







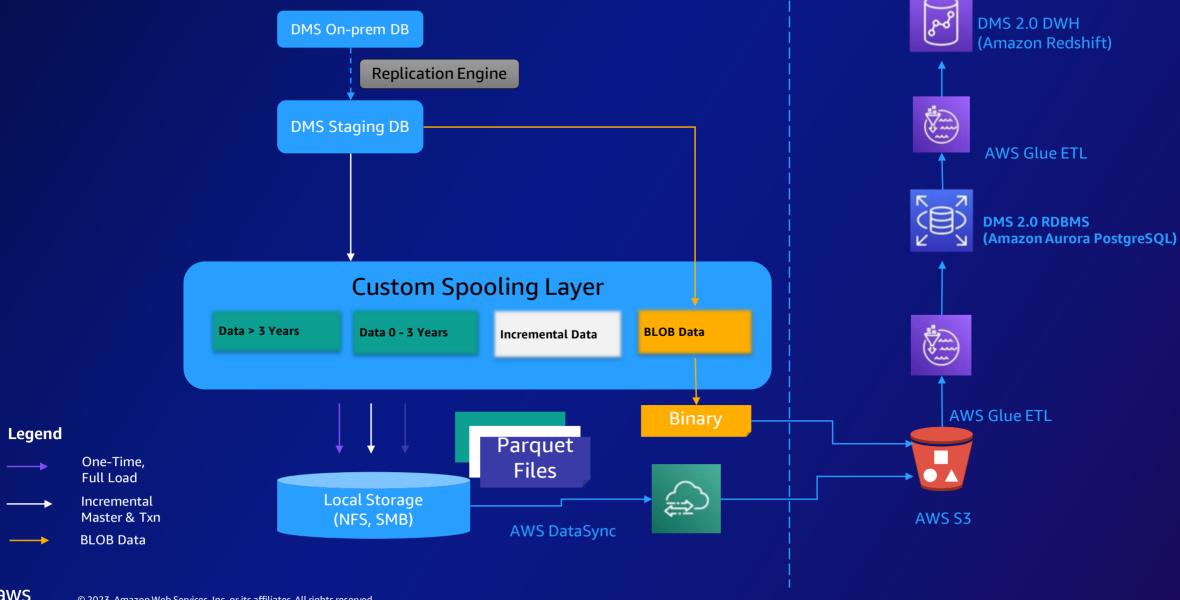








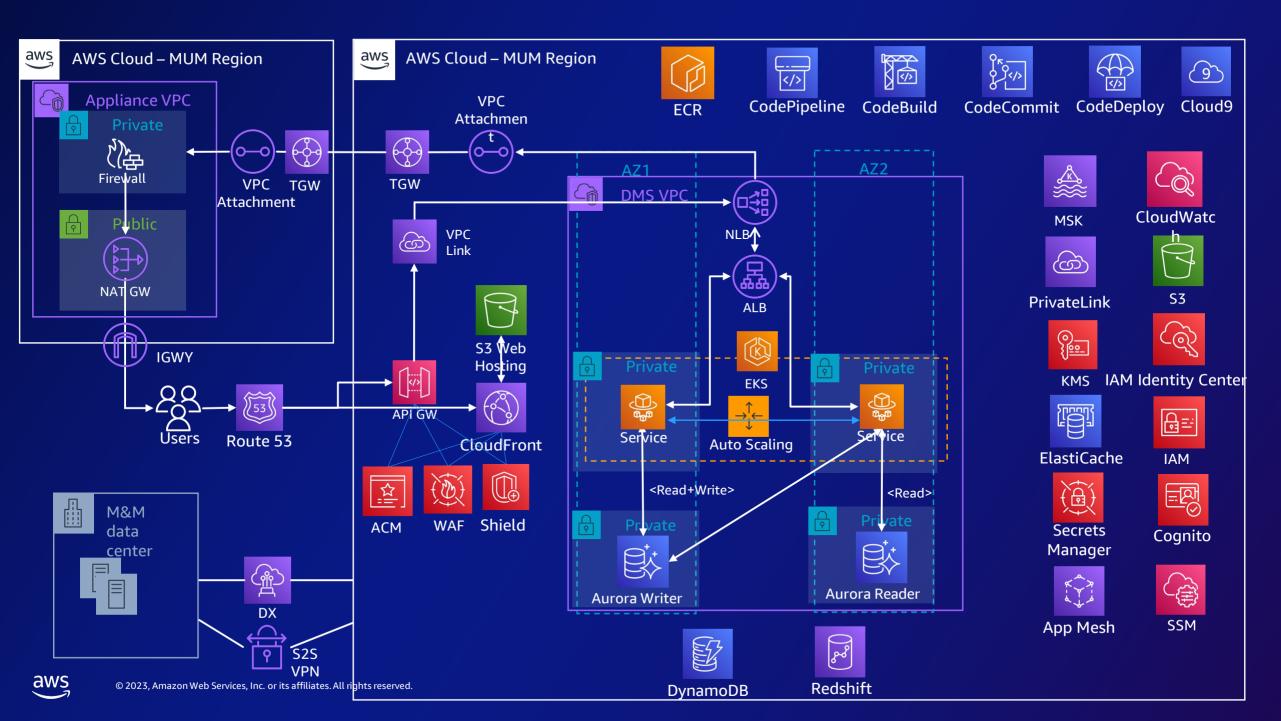
Data migration architecture





Solution architecture - Putting it together





Conclusion

- Motivation
- Expected challenges





Your time is now

Build in-demand cloud skills your way



Thank you!



Please complete the session survey

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