# re:Invent

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# AWS Well-Architected for success: Maximize benefits from a review

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# Agenda

Introduction to the AWS Well-Architected Framework

Value proposition

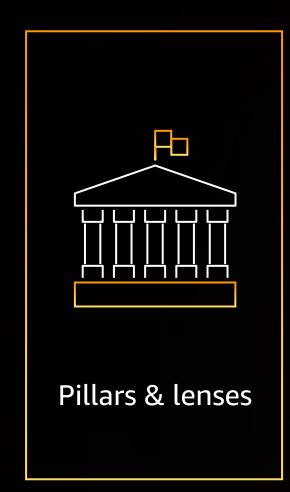
Review process

Demos!

Next steps



#### What is the AWS Well-Architected Framework?









#### Pillars of AWS Well-Architected Framework





#### **AWS Well-Architected lenses**





#### Intent of review

Not an audit



Working together to improve

Not architecture astronauts



Pragmatic, proven advice

Not a one-time check



Ongoing throughout lifecycle of workload



## Requirements for success

High-level business sponsorship

Get the right people in the room

Collaborative process for resolving identified issues

Preparation and data gathering before review

Read the whitepapers







# Review process





# AWS tools to help with data gathering



### Operational Excellence

**AWS Well-Architected Tool** 

**AWS Trusted Advisor** 

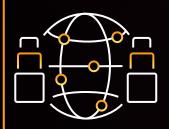
AWS Systems Manager OpsCenter

AWS Systems Manager Incident Manager



#### Security

Amazon GuardDuty
AWS Security Hub
AWS Config
AWS CloudTrail Insights
Amazon Detective
Amazon Macie
AWS IAM Access Analyzer
IAM credential report
IAM access advisor
Amazon VPC Network Access
Analyzer



#### Reliability

Amazon CloudWatch

AWS X-Ray

Service Quotas

Amazon Managed Grafana

Amazon Managed Service for Prometheus

**AWS Resilience Hub** 

AWS Health Dashboard

AWS Backup Audit Manager



#### Performance Efficiency

Amazon DevOps Guru

Amazon Code Guru

AWS X-Ray

**RDS Performance Insights** 

Amazon CloudWatch metrics

Amazon CloudWatch RUM

Amazon CloudWatch Evidently

Amazon CloudFront metrics



#### Cost Optimization

**AWS Compute Optimizer** 

AWS Cost Explorer Resource Optimization

AWS Cost Anomaly
Detection

Instance Scheduler on AWS

**Operations Conductor** 

Amazon S3 analytics



#### Sustainability

AWS customer carbon footprint tool

AWS Data Exchange solutions for Sustainability & ESG

**OS-Climate Data Commons** 



# Learnings

Pre-launch only?



Earlier is better

Make bad decisions?



Not considered decisions

Findings?



Most workloads can be improved



# Thank you!

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