

# AWS re:Invent

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COP320-R

# How to be an operational hero: Complete operations management on AWS

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If you care about  
**building** and **operating**  
**reliable** and **available**  
applications and  
infrastructure . . .

this talk is for **you**



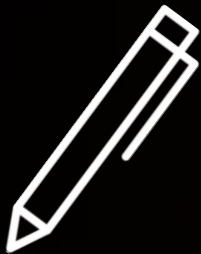
# Agenda

1. Operational culture
2. The operational stack
3. Whiteboarding!

# Your journey to operating at cloud scale

Get started with AWS Cloud Operations

Set up



Establish a secure foundation for governance and compliance



Build new applications and migrate existing applications to the cloud



Simplify ops management with an integrated experience to manage and monitor resources and applications to detect and remediate risks quickly

# Why AWS Cloud Operations?



## Return on investment (ROI)

**241% ROI**  
over 3 years\*



## Staff productivity

**62%** more  
efficient IT  
infrastructure  
staff



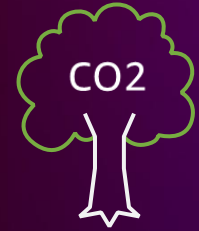
## Operational resilience

**57%** decrease  
in downtime



## Business agility

**37%** decrease  
in time  
to market



## Carbon savings

**88%** reduction  
in carbon  
footprint of  
IT operations

Based on independent research of 1,500 AWS enterprise customers

\*Source: "The Total Economic Impact of AWS Cloud Operations: Cost Savings And Business Benefits Enabled By Operation on AWS. May 2022. A commissioned study conducted by Forrester Consulting on behalf of Amazon Web Services."



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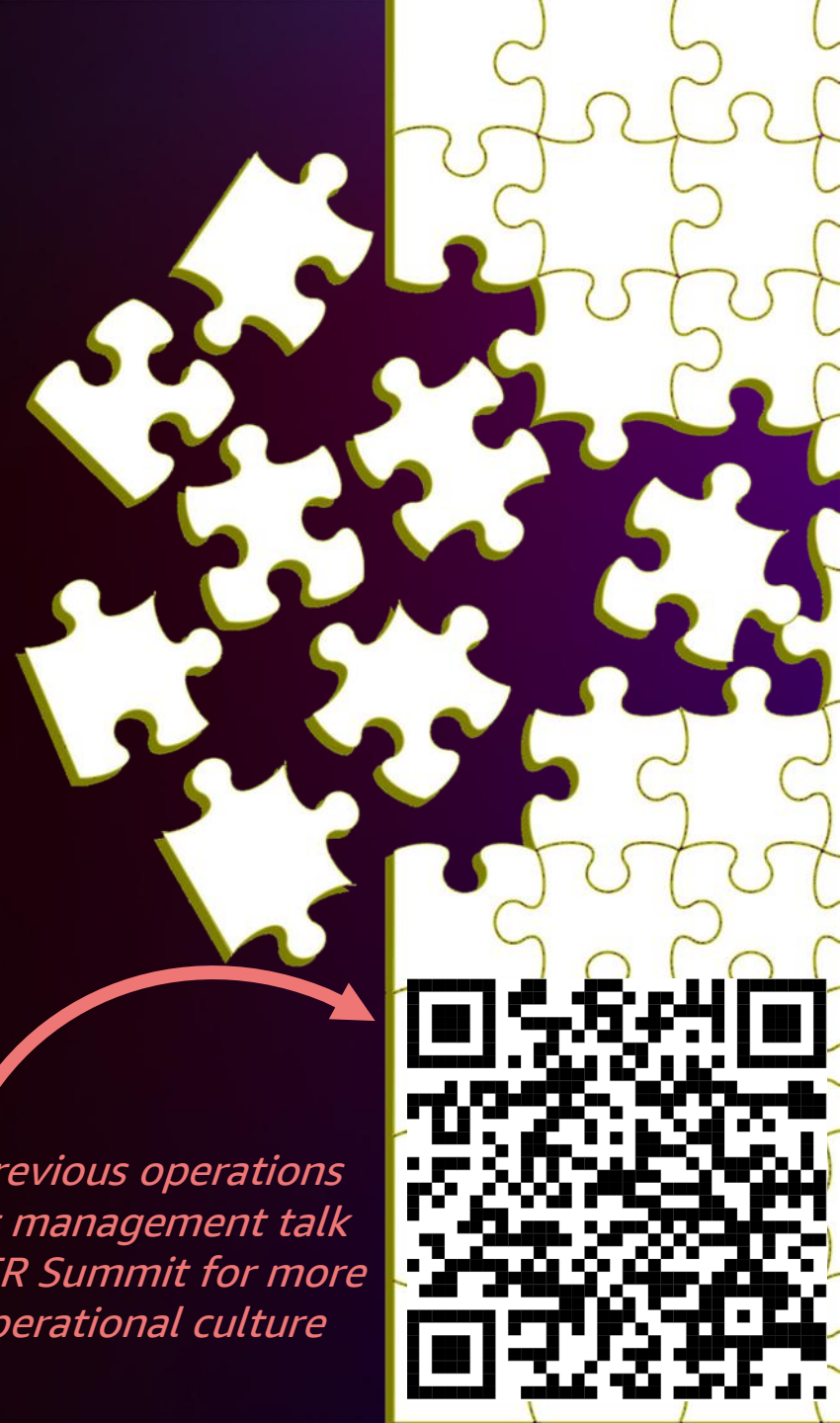
# Cohesive operational culture

Puzzle pieces for ops culture at AWS:

## 1. Leadership Principles (*use your equivalents!*)

1. Customer Obsession
2. Ownership
3. Bias for Action
4. Insist on the Highest Standards
5. Learn and Be Curious

## 2. Operations Management services



*Scan for a previous operations and incident management talk at AWS AMER Summit for more details on operational culture*



# Why does this matter?



Combine culture with AWS Operations Management services to **increase your uptime** and **reduce your outage** mean time to mitigation (MTTM) and resolution (MTTR)



# Operations stack

**④ Advanced tools**

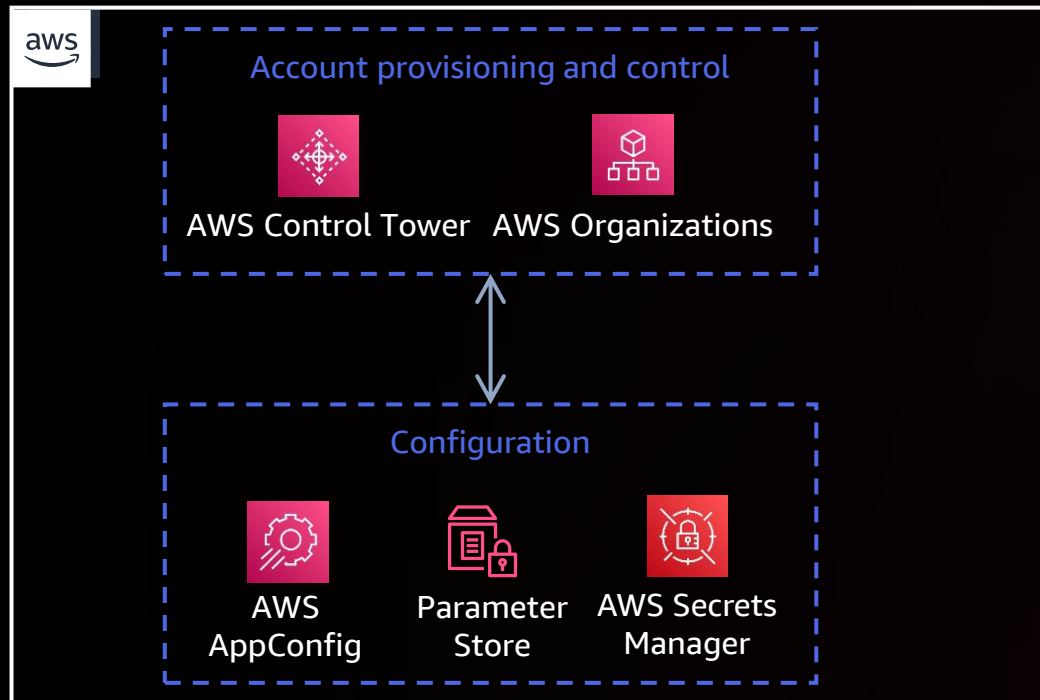
**③ Ops management**

**② Observability**

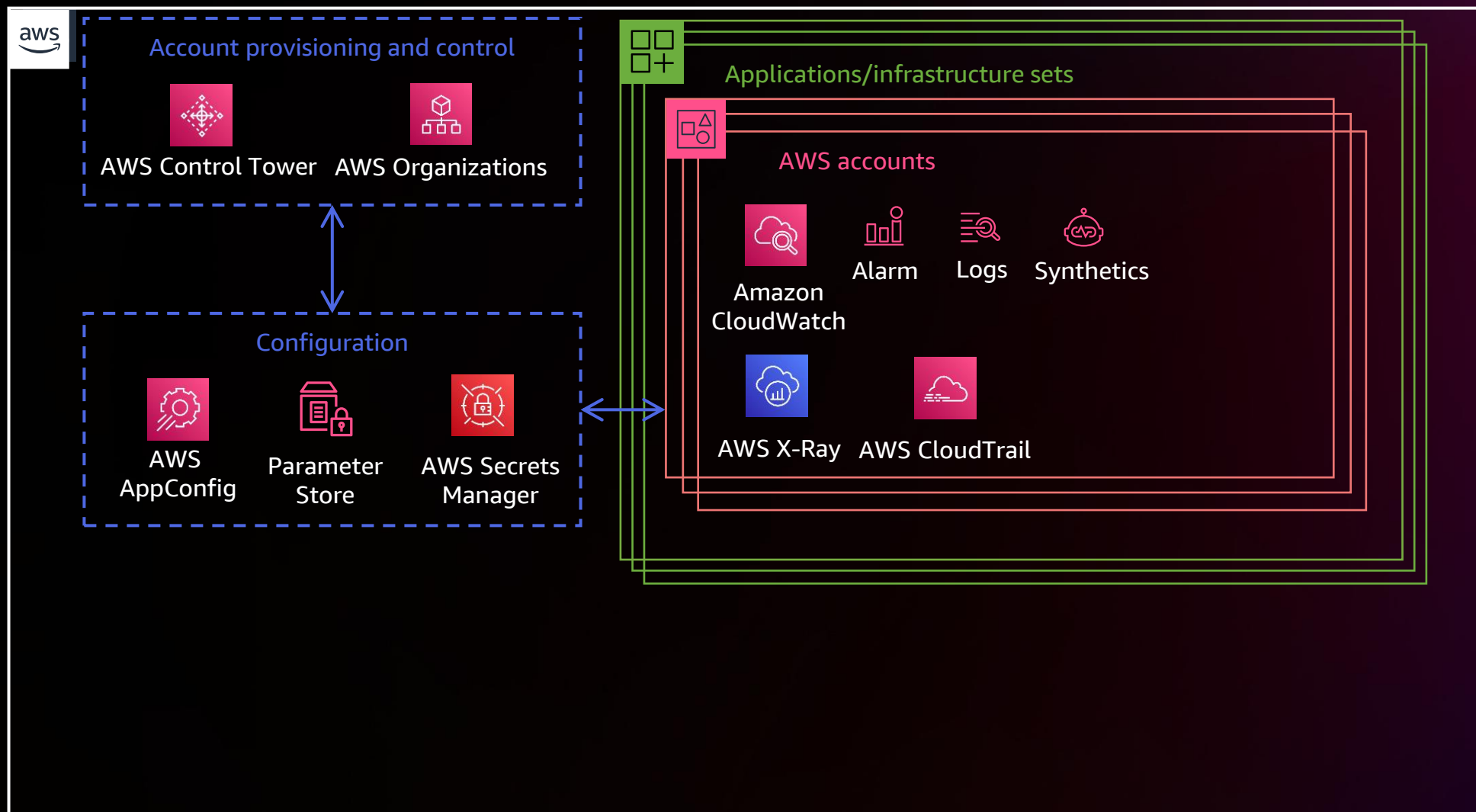
**① Setup and configuration**



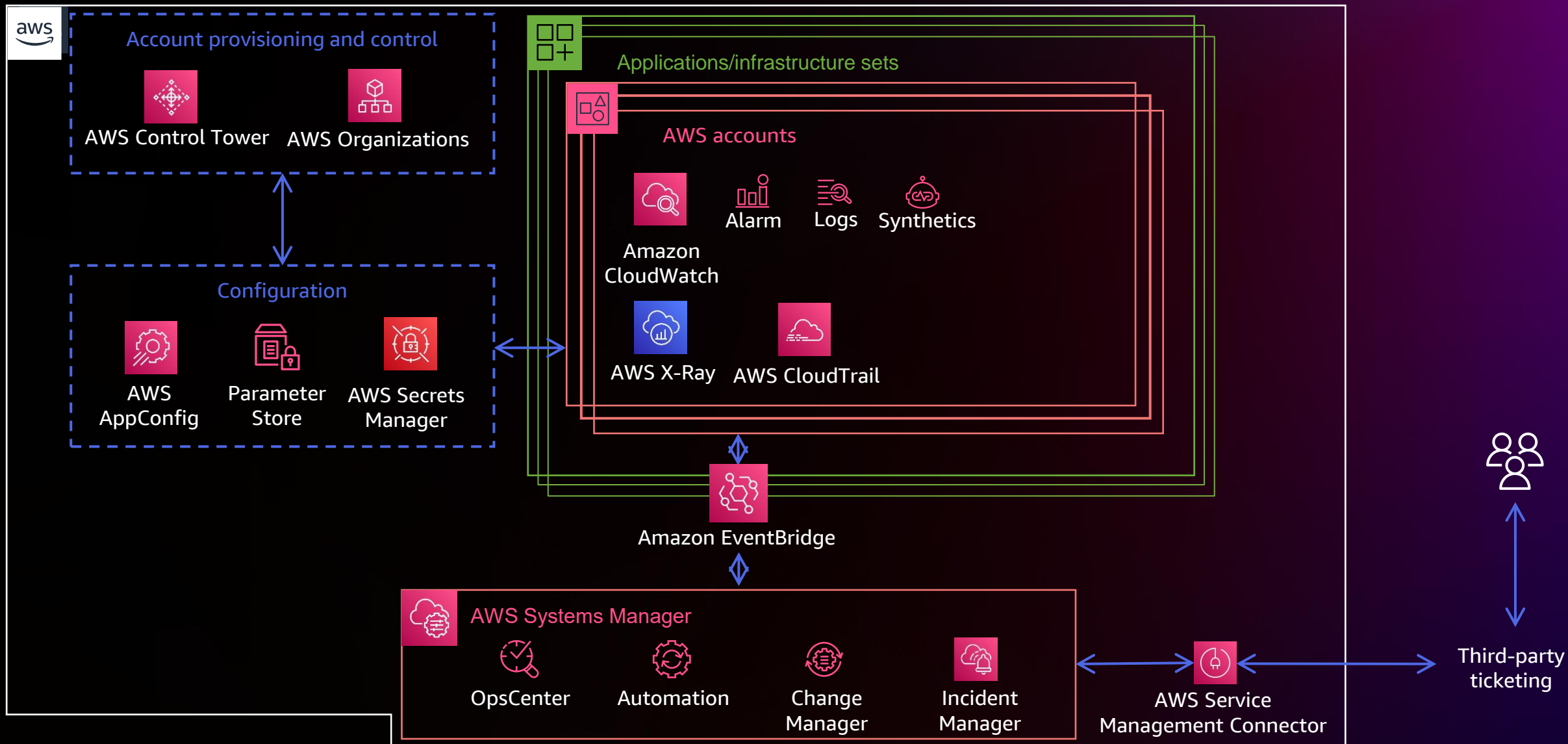
# 1 Setup and configuration



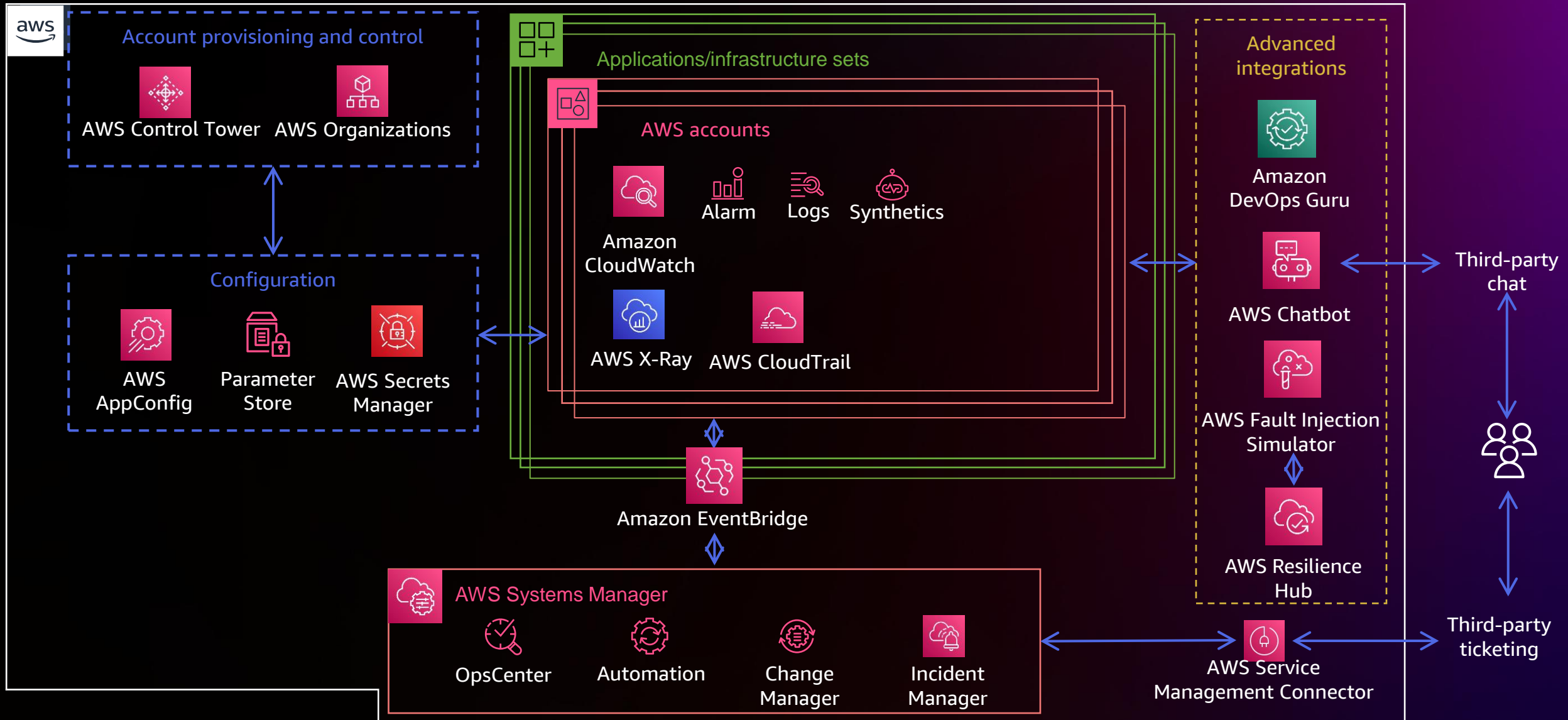
# 2 Observability



# 3 Ops management

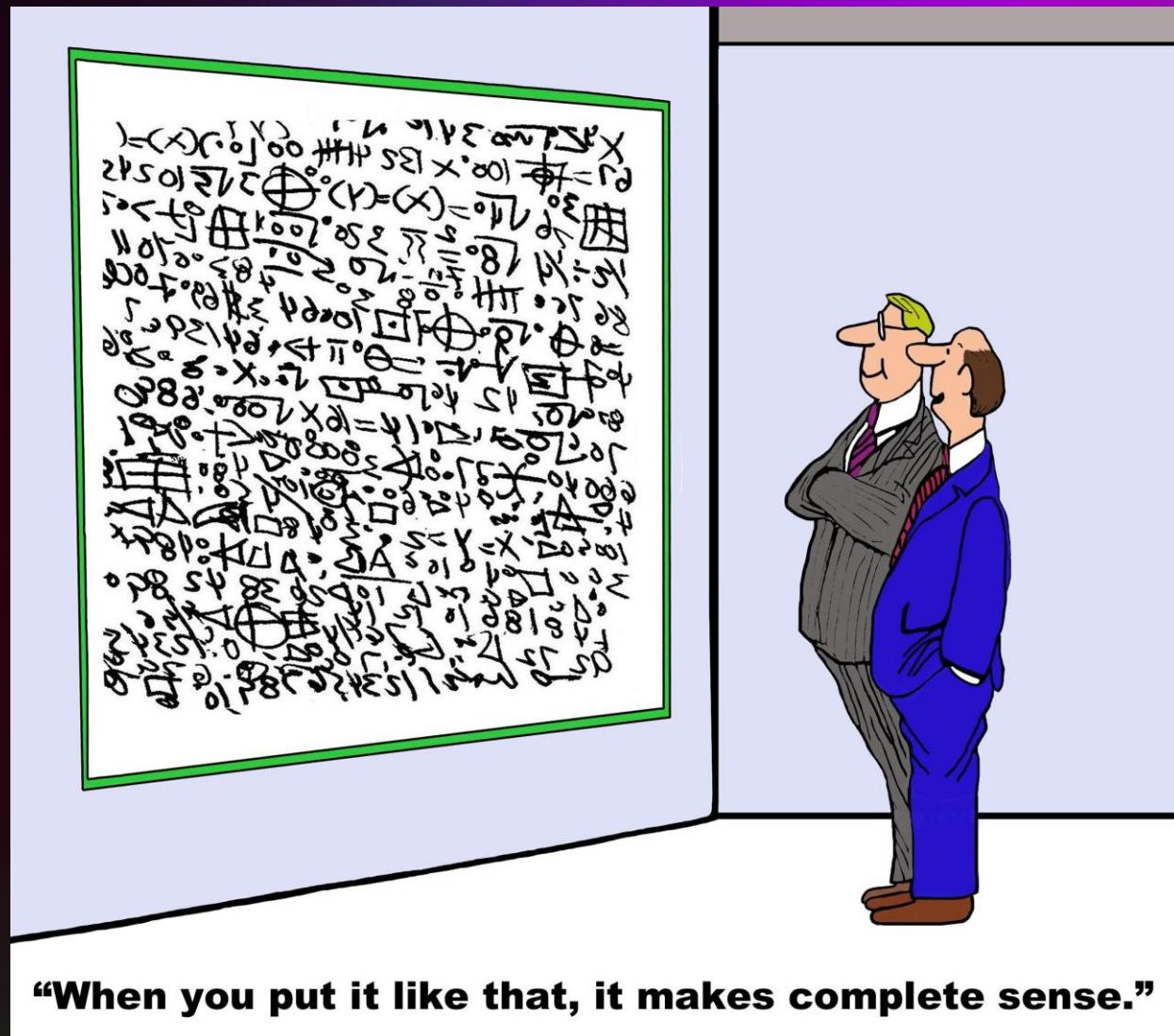


# 4 Advanced tools



# Whiteboarding

## Your questions answered





# Recap

1. Perfect ops is the perfect combination of culture and tools
2. There is no such thing as perfect – but you can get close
3. Choose your starting point and build to address pain points
4. AWS services are designed to work together to meet your need  
Plenty of options – choose those that fit and iterate



# Want to see more AWS Cloud Operations?

Please complete the  
session survey  
in the mobile app



Ask us anything at  
our kiosks in the  
AWS Village



# More questions?



Please complete the  
session survey  
in the mobile app



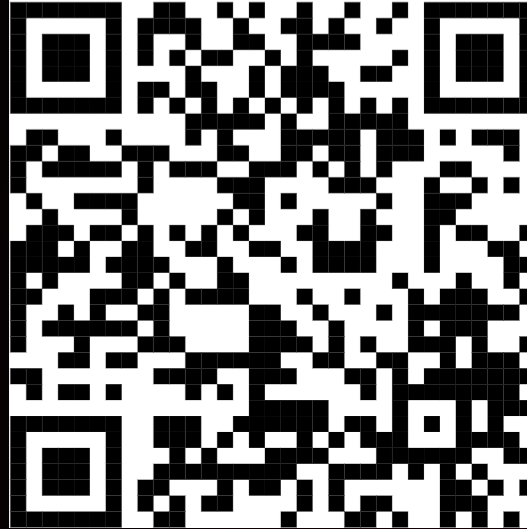
Find related sessions in  
our re:Invent blog



# Resources



Previous talk:  
"Preparing for downtime when  
all you want is uptime"



AWS Builders' Library



AWS Cloud Ops  
workshops

# Related sessions

## Chalk talks

- COP213: Migrate and operate like an expert
- COP215: Visualizing AWS Config and Amazon CloudWatch usage and costs
- COP220: Discover your resources to address challenges
- COP321: Best practices for operating in hybrid environments
- COP322: How to remediate and automate operational changes
- COP326: Build applications with ops in mind using ITSM and AWS

## Breakouts

- COP209: Automate everything: Options and best practices
- COP305: Best practices for organizing and operating on AWS
- COP314: How to manage resources and applications at scale on AWS

## Workshops


- COP310: Automate operations management on AWS

## Builders' sessions

- COP331: Automate incident response with AWS Systems Manager Incident Manager

# Thank you!

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