AWS re:Invent

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COP317

Governance and application management on AWS

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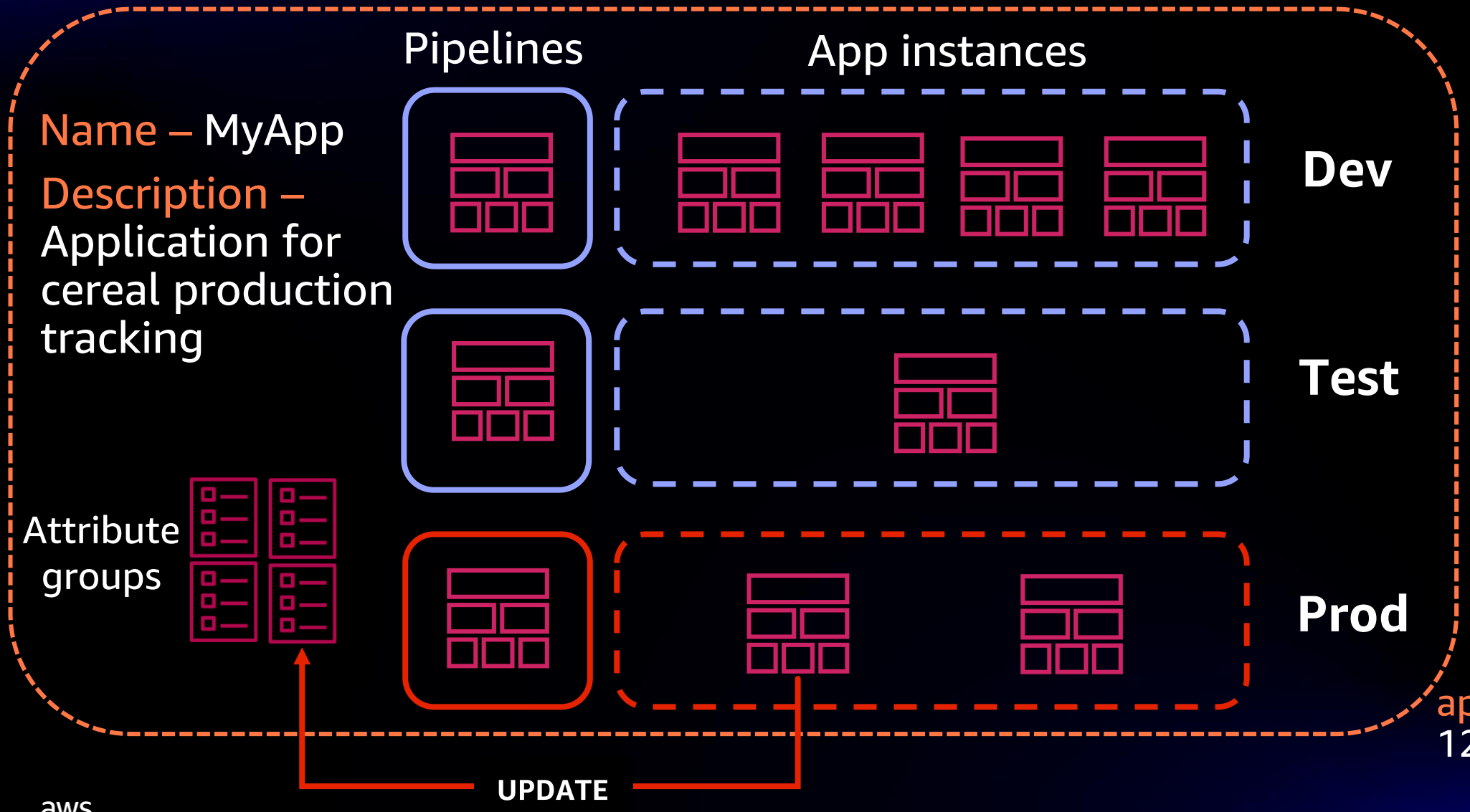
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Agenda

1. Application context
2. AWS Service Catalog AppRegistry
3. AWS Systems Manager Application Manager
4. Application awareness on AWS
5. Interactive questions and demo

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A sample application definition



1 application with 10 stacks and 4 attribute groups

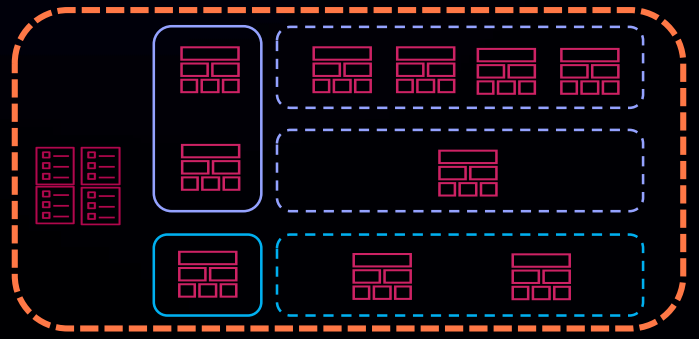
applicationtag 1234567

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Track your applications

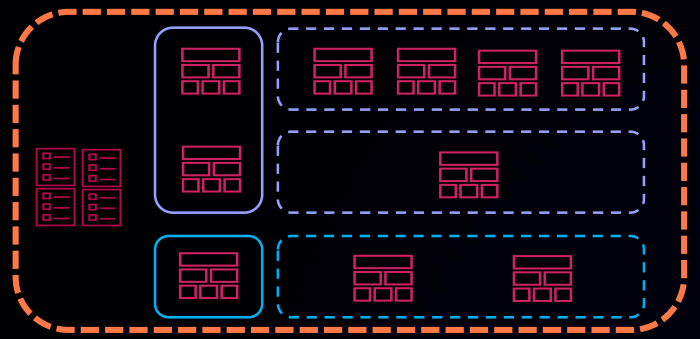
ISV software
cost monitoring,
cost analysis,
cost allocation

MyApp



applicationtag
1234567

MyOtherApp



applicationtag
7654321

AWS Service Catalog
Define your applications

AWS Budgets
Tag-based cost tracking

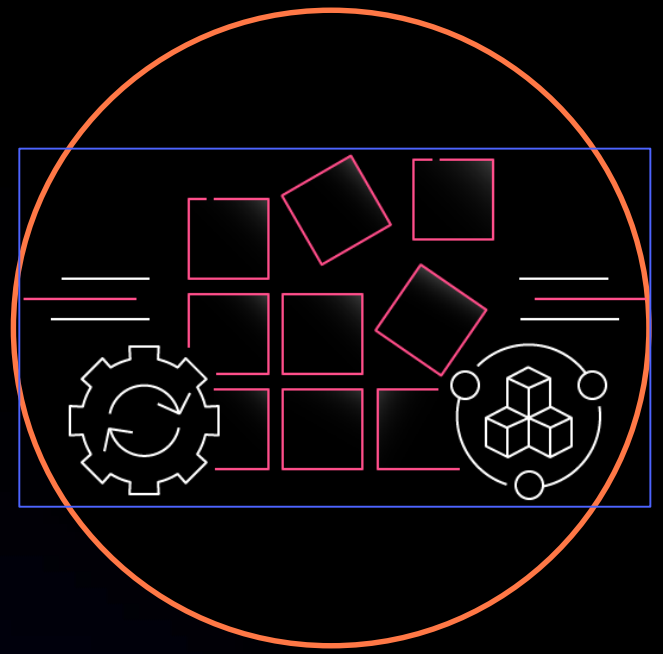
AWS Systems Manager
Manage your application resources

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Applications in AWS

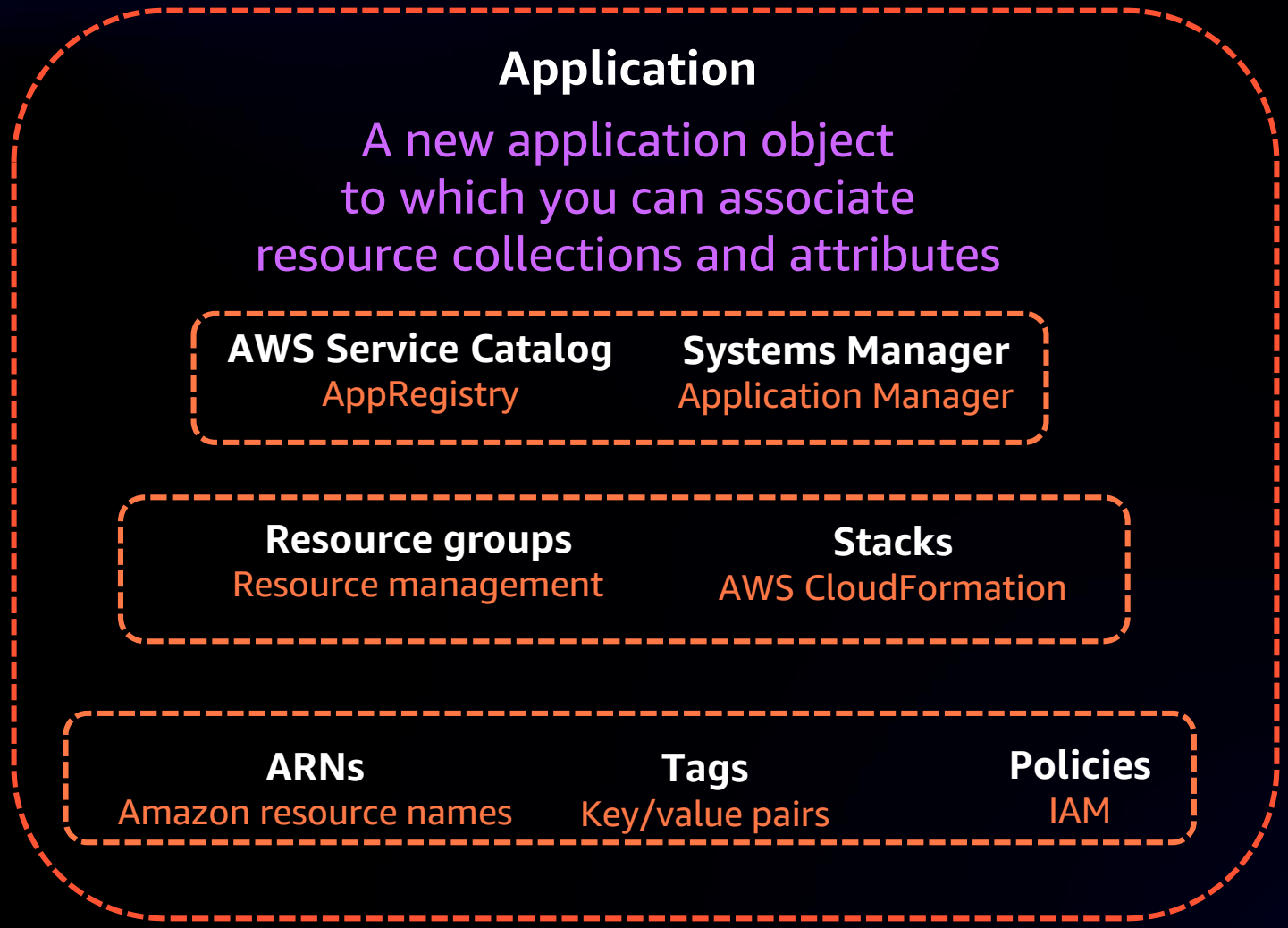
TECHNICAL SOLUTION TO SUPPORT A CONSISTENT CUSTOMER EXPERIENCE

- Applications: Recognizable across AWS services
- Visibility of changes for debugging, auditing, and governance assessment
- Context across AWS services, accounts, SDKs, AWS CLI, and consoles
- New application construct available to customers across the lifecycle



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How is AWS addressing this?



Collection of stacks

First wave of application aware features

AWS resource collections

AWS resource identifiers and controls

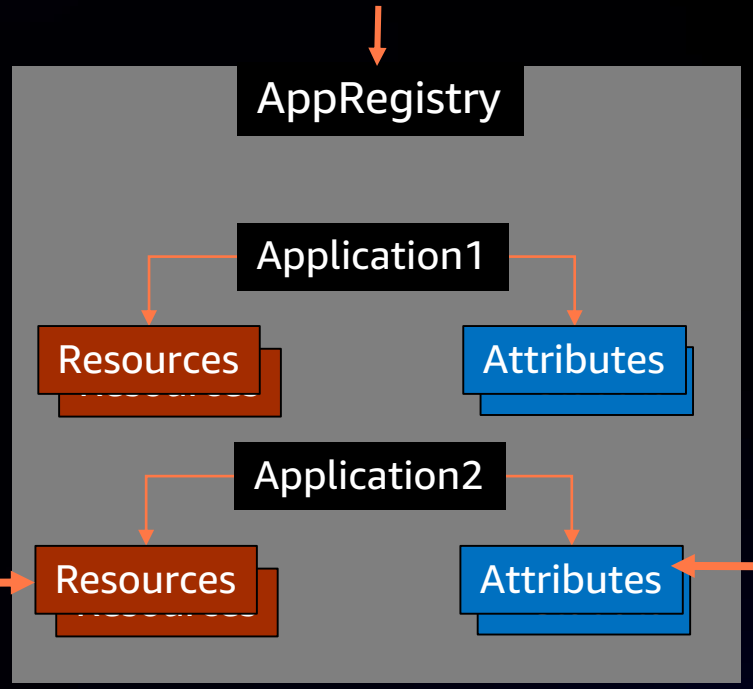
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Innovation with application-level visibility

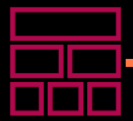
Application
A new application object to which you associate your application resources (AWS CloudFormation stacks)



AWS Service Catalog
Define your applications



Resources
Application resource collections (such as an AWS CloudFormation stack)



Stack(s)

Associate

Attribute groups
JSON file(s) containing application metadata



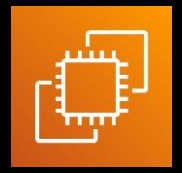
JSON file(s)

Associate

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Managing your application

ACROSS MANY AWS SERVICES AND CONSOLES



Amazon Elastic Compute Cloud (Amazon EC2)



Amazon EC2 Auto Scaling



Elastic Load Balancing (ELB)



Amazon CloudWatch



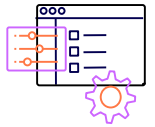
Systems Manager



AWS Config



AWS Cost Explorer

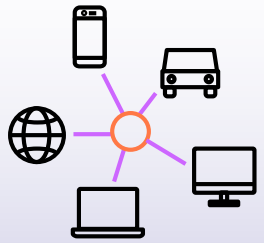


AWS Systems Manager Application Manager

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Application Manager

BENEFITS OF A HOLISTIC APPLICATION MANAGEMENT CONSOLE



Single view of all application resources



Improve visibility and control



Shorten the time to detect problems



Immediate remediations to increase efficiency

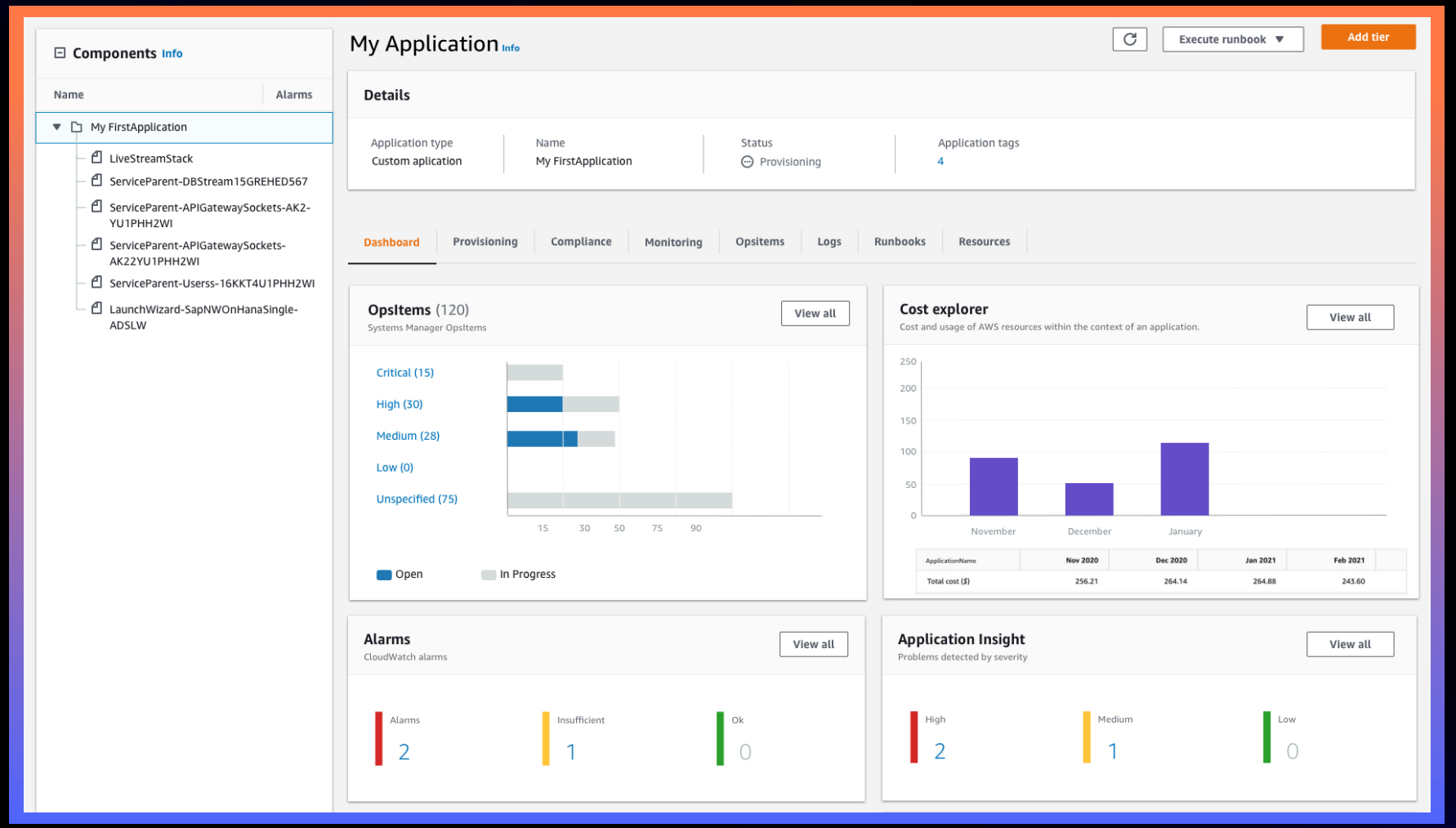


Ensure security and compliance

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Application Manager

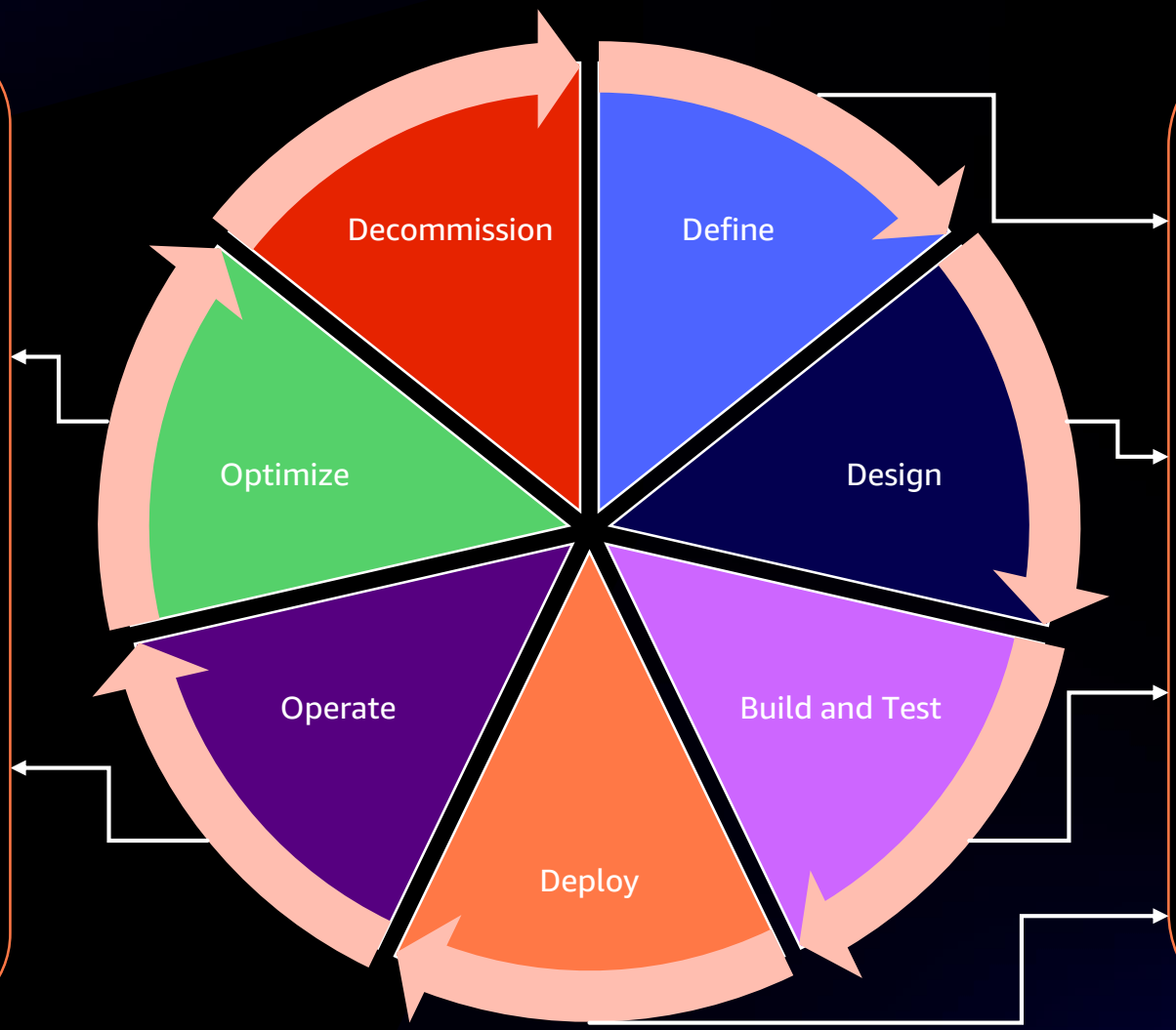
MANAGE APPLICATIONS, NOT INDIVIDUAL RESOURCES



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Application lifecycle

ENABLED BY AWS SERVICES



Monitor and Observe

- AWS Config
- Amazon CloudWatch
- AWS CloudTrail

Manage Operations

- AWS Systems Manager

Manage Cost

- AWS Budgets
- AWS Application Cost Profiler

Migrate

- AWS Migration Evaluator
- AWS Application Migration Service

Provision

- AWS CloudFormation
- AWS Cloud Development Kit (AWS CDK)

Organize Resources

- AWS Service Catalog AppRegistry
- Resource Groups
- Tagging

aws

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Common questions

- How can I maintain application context across AWS services?
- Can I do all this using tags and other AWS constructs?
- Do I need to use AWS Service Catalog to use AppRegistry?
- Can I use this with ServiceNow or other ITSM tools?



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Thank you!

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