AWS re:Invent

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COP318

Best practices for effective application management on AWS

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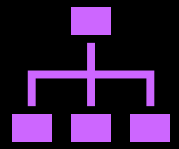
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Why do we need application management?

AWS WELL-ARCHITECTED, OPERATIONAL EXCELLENCE



Ensure security
The right access for the right people and resources at the right time



Manage complexity
Know what resources can impact or are impacted by your application

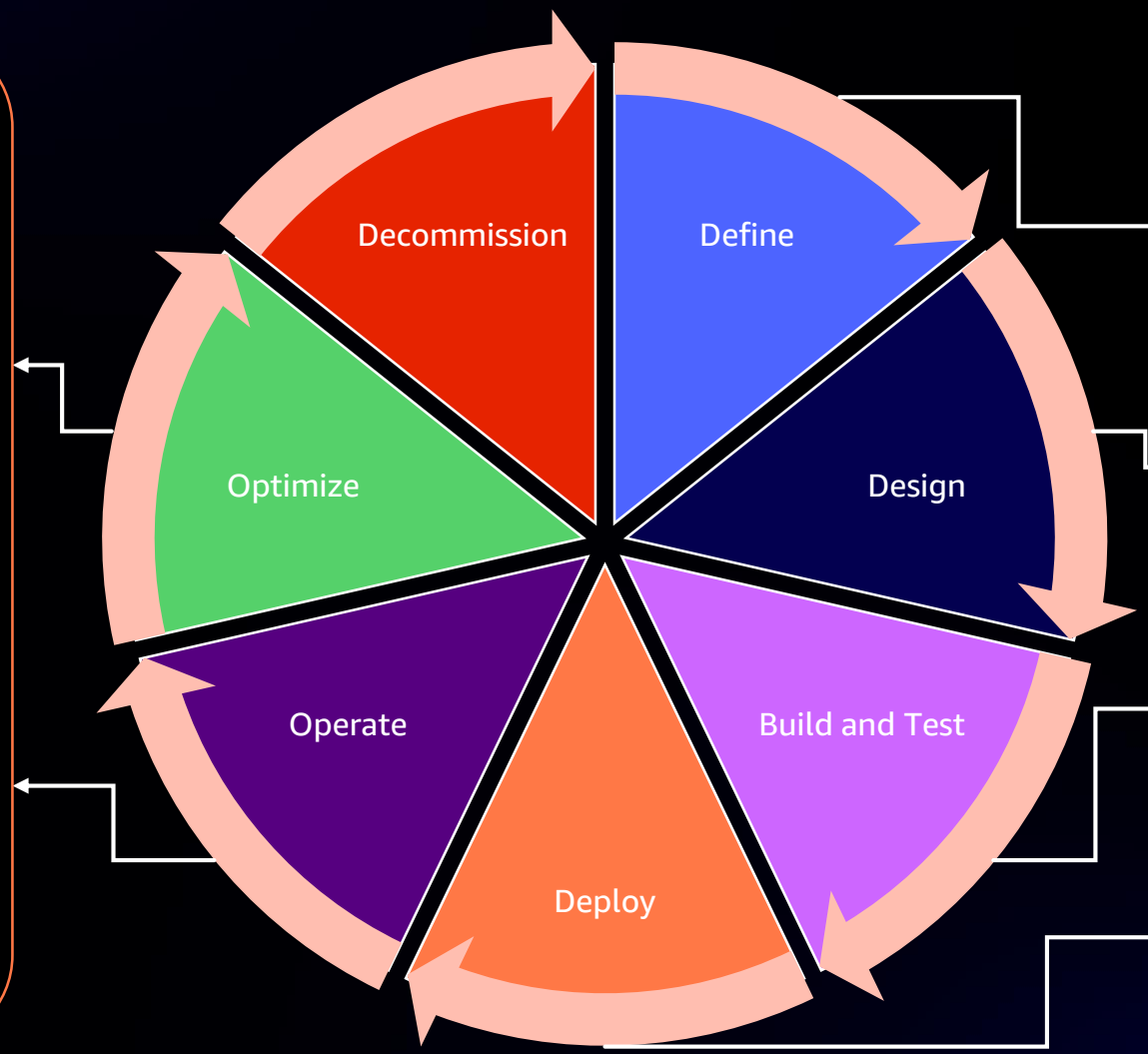


Establish limits
Be aware of and control resource utilization and cost

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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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AppRegistry- 30,000 feet view

CREATE REPOSITORIES AND MANAGE APPLICATION METADATA

Application

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

Resources

Application resource collections (e.g., an AWS CloudFormation Stack)



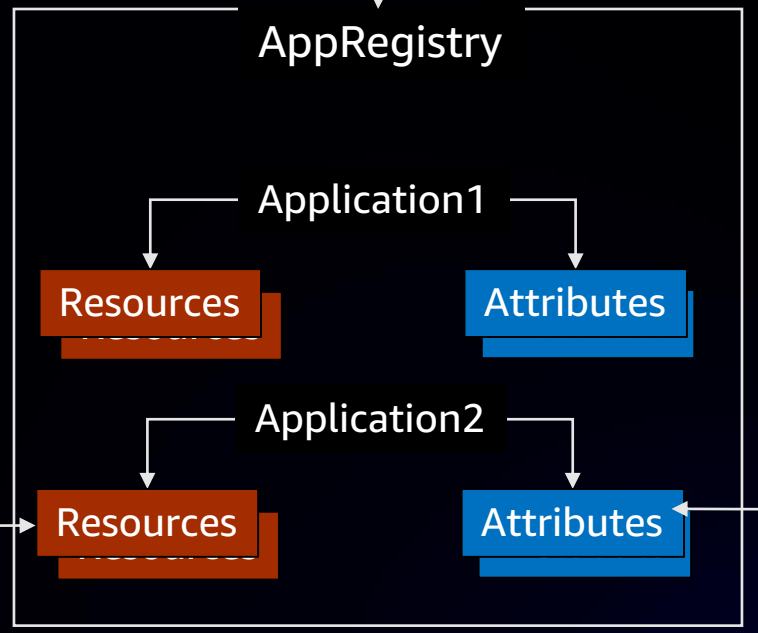
Stack(s)

Associate



AWS Service Catalog

Define your applications



Attribute groups

JSON file(s) containing application metadata

Associate

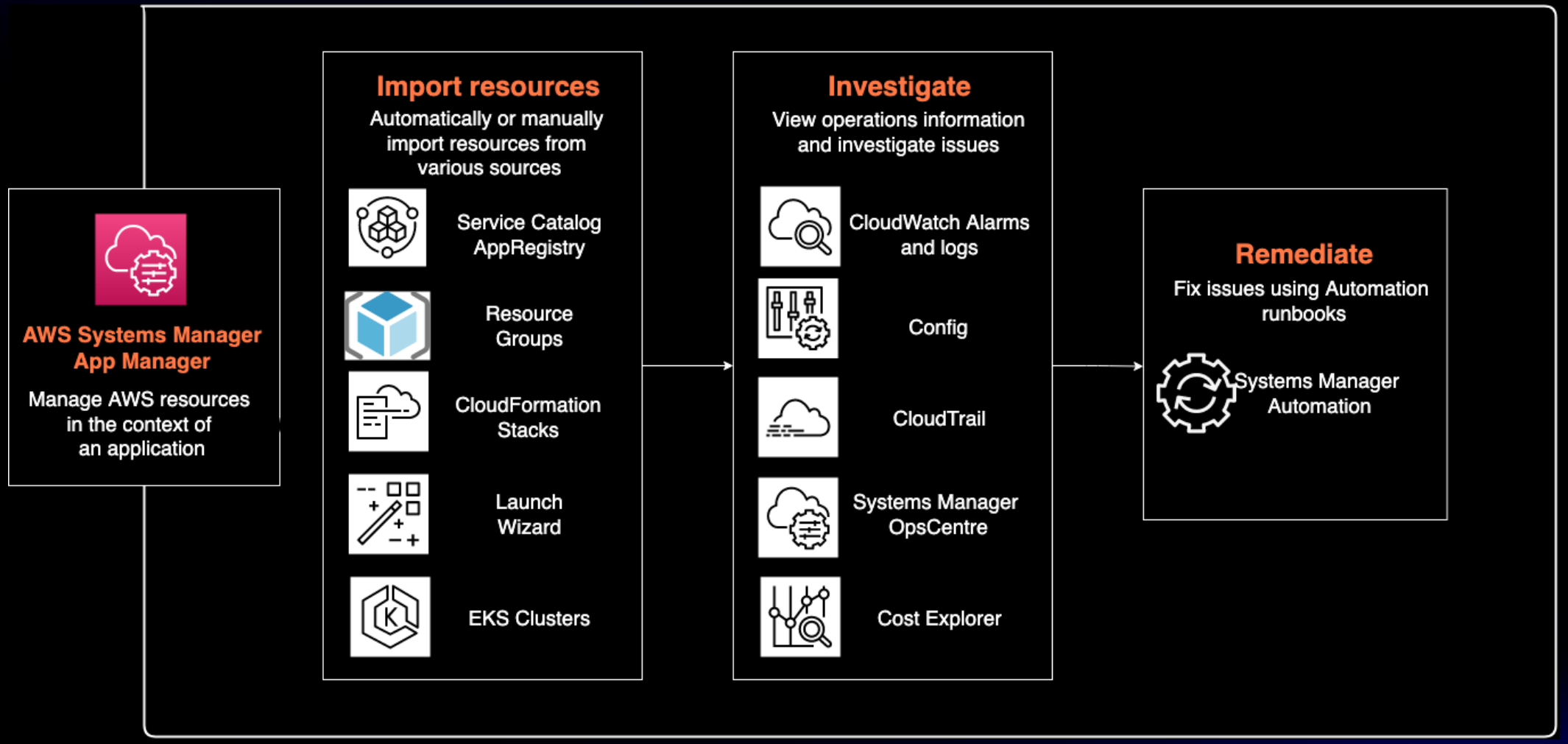


JSON file(s)

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Application Manager- 30,000 feet view

MANAGE APPLICATIONS, NOT INDIVIDUAL RESOURCES



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2 key take aways..



Use AppRegistry

To understand the context of your applications and resources across your environments



Use App Manager

To investigate and remediate issues with your AWS resources in the context of your applications

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Additional resources

- Demo: AWS Service Catalog AppRegistry
  https://bit.ly/3Dt2234
- Blog: Governing your applications with AWS Service Catalog
  https://go.aws/3co0I5I
- Tutorial on setting up application insights
  https://go.aws/30x4bw2
- Lab: Remediate application resources with Service Catalog AppRegistry and Systems Manager Application Manager
  https://bit.ly/3pxSLkT
- Blog: Visualize application costs using AWS Service Catalog AppRegistry and Amazon QuickSight
  https://go.aws/32nNGn9

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Related sessions

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COP206 – Observability the open-source way

COP302 – Best practices for centralized operations management on AWS

COP306 – Observability best practices on AWS

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