

AWS
re:Invent

W P S 3 1 1

How public sector organizations enforce governance & compliance

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Agenda

- Introduction & scenario (Phase 1) – 10 mins
- Workshop (Phase 1) – 50 mins
- Break – 5 mins
- Scenario (Phase 2) – 10 mins
- Workshop (Phase 2) – 50 mins
- Summary/Q&A – 10 mins

Introduction



Infrastructure provisioning

AWS CloudFormation

AWS CDK

Terraform



Configuration management

AWS Systems Manager

- Session Manager

- Patch Manager

- Automation

AWS Config

AWS Lambda

PowerShell

Ansible

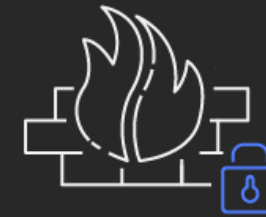


Monitoring & performance

AWS CloudTrail

Amazon CloudWatch

CloudWatch
Application Insights
for .NET and SQL
Server



Security

AWS Identity and
Access Management
(IAM)

Amazon GuardDuty

AWS Security Hub

InSpec

Cloud Custodian



Governance & compliance

Amazon Inspector

Amazon EventBridge

AWS License Manager

AWS Config rules

Systems Manager

- Insights Dashboard

- State manager

- Inventory

Scenario—Phase 1

The development team within your large public sector organization has recently been provided with a new AWS account to build and deploy a new application. You have been tasked by your IT risk and compliance team to ensure that the new AWS platform conforms with the following internal security and governance policies:

- Must be continuously monitored for malicious activity and unauthorized behavior
- Logs all account activity
- Complies and provides a status of compliance to the CIS Benchmarks standards
- All access required to manage resources must be secure
- Prevents unauthorized exposure of company data

Workshop—Phase 1

Scenario—Phase 2

After successfully implementing Phase 1, the security team has requested some additional controls:

- Where applicable, AWS resources should have a default tag of the resource creator
- The ability to report on applications installed across the estate
- Continuously evaluate AWS resources for security compliance
- The ability to report and enforce software licensing

Workshop—Phase 2

Summary/Q&A

Thank you!



Please complete the session survey in the mobile app.