

## ATO on AWS: Compliance as code

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### ATO on AWS

ACCELERATING SECURITY AND COMPLIANCE WORKLOADS

Technology partners Systems integrators Consulting partners	IRAP	FISMA	HITRUST	Dod SRG	PCI-DSS	
	HIPAA	CJIS	ISO 27X	FedRAMP	CMMC	



### What is ATO on AWS?



#### Goal

Help customers, partners, independent solution vendors (ISVs)

#### **Outcomes**

**Accelerates** security and compliance authorization process

Reduces cost and time (average 18-24 months)—FedRAMP

**Provides** reusable artifacts including guidance, templates, tools, and pre-built templates from AWS Solutions

**Builds and optimizes** DevOps, SecOps, Continuous Integration/Continuous Delivery (CI/CD), Continuous Risk Treatment (CRT) strategies

**Develops** proven techniques using the Security Orchestration, Automation and Response (SOAR) methodology

## ATO on AWS program

## **Guiding tenets for ATO on AWS**



Automation leverages Infrastructure as Code concepts

**Certification** optimizes security processes

Validation enables continual tests and monitoring of security configurations

**Empowerment** emboldens informed decision-making and drives change

## **AWS Partner-driven process**

#### **Breaking it down**



- ✓ Training
- ✓ Tools
- ✓ Pre-built, automated deployment capabilities
- ✓ Control implementation details
- ✓ Pre-built artifacts
- ✓ Direct engagement
- ✓ Qualified system integrators
- ✓ Visibility and marketing

## Implement security and compliant architectures



#### Goal

Verifiable compliance control solution for regulated workloads

#### **Outcomes**

**Accelerated** path to production

Improved compliance and security posture

**Reduction** in noncompliant findings and rework

**Demonstrable** controls to support the assessment process

## Visibility and marketing for ISVs

## ATO on AWS designation



- ✓ FedRAMP on AWS
- ✓ DoD SRG on AWS
- ✓ CJIS on AWS
- ✓ PCI on AWS
- ✓ HITRUST on AWS
- ✓ IRS-1075 on AWS

ISV ATOs for solutions published and marketed on the ATO on AWS landing page, with the option of a written or video case study

ATO on AWS APN designations for solutions that can be used by ISVs in their marketing artifacts and materials

#### **Real-world examples:**

#### **Smartsheet**

- Leveraged tools and partners available through the ATO on AWS program
- Accelerated from no presence in AWS GovCloud (US) to FedRAMP compliant in less than 90 days

#### **Innovest Systems and Coalfire**

- Innovest Systems turned to ATO on AWS Partner Coalfire for advisory services to build a FedRAMP-compliant platform
- Platform was built in <u>less than six months</u>, and they were able to attract a new government customer and reduce costs

### **Benefits**

#### ATO on AWS?



Reduce effort to deploy security configurations and collect audit data required to meet compliance requirements for solutions on AWS

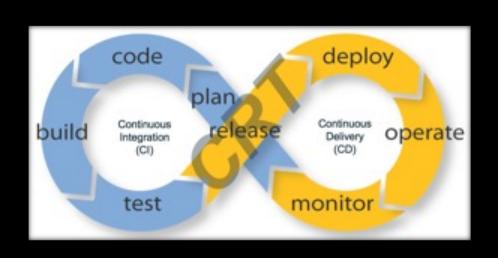
Build an end-to-end automation capability to streamline regulated workload deployments

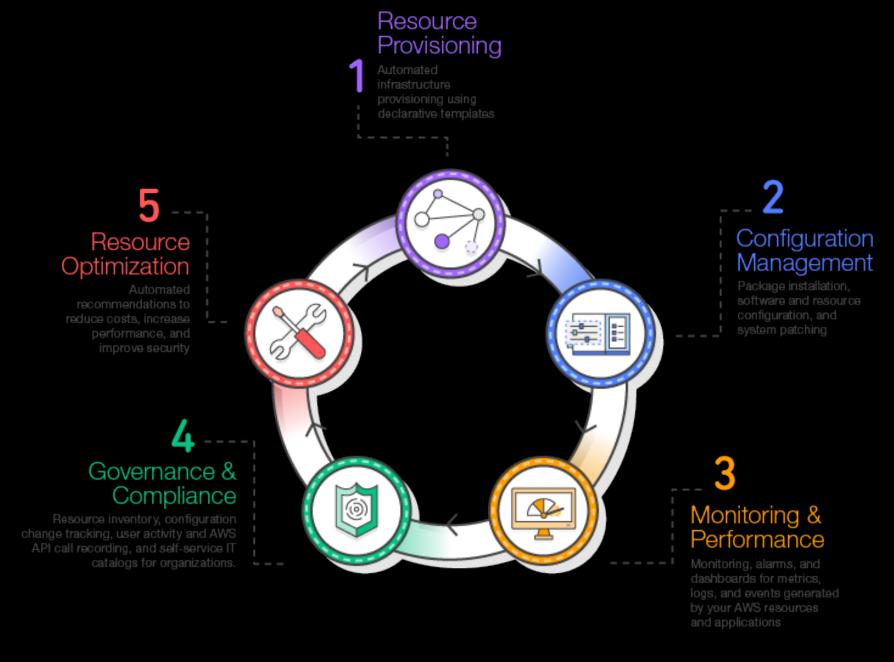
Collaborate in joint partner programs supported by AWS to develop and deliver unique capabilities and solutions

#### Works with qualified system integrators:

- ✓ To build and support environments that meet compliance standards and requirements
- ✓ To minimize and simplify ISV's area of responsibility by offloading hosting and compliance management

## Optimized cloud risk management



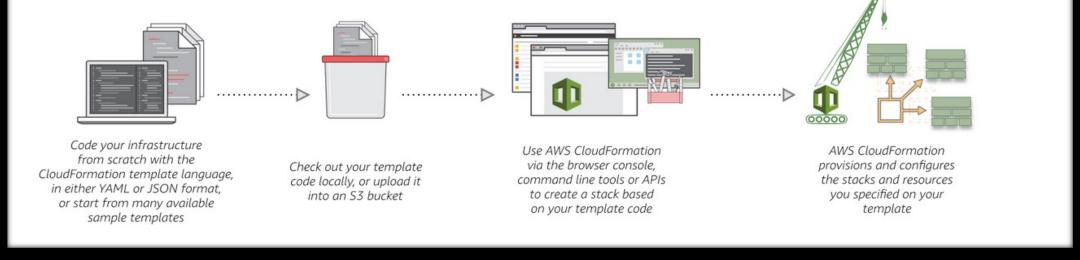


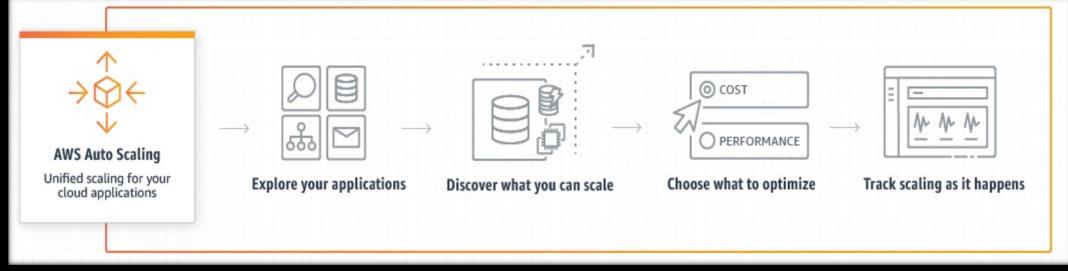
## Resource provisioning

#### **Automate and deploy**

AWS CloudFormation provisions your resources in a safe, repeatable manner, allowing you to build and rebuild your infrastructure and applications without having to perform manual actions or write custom scripts



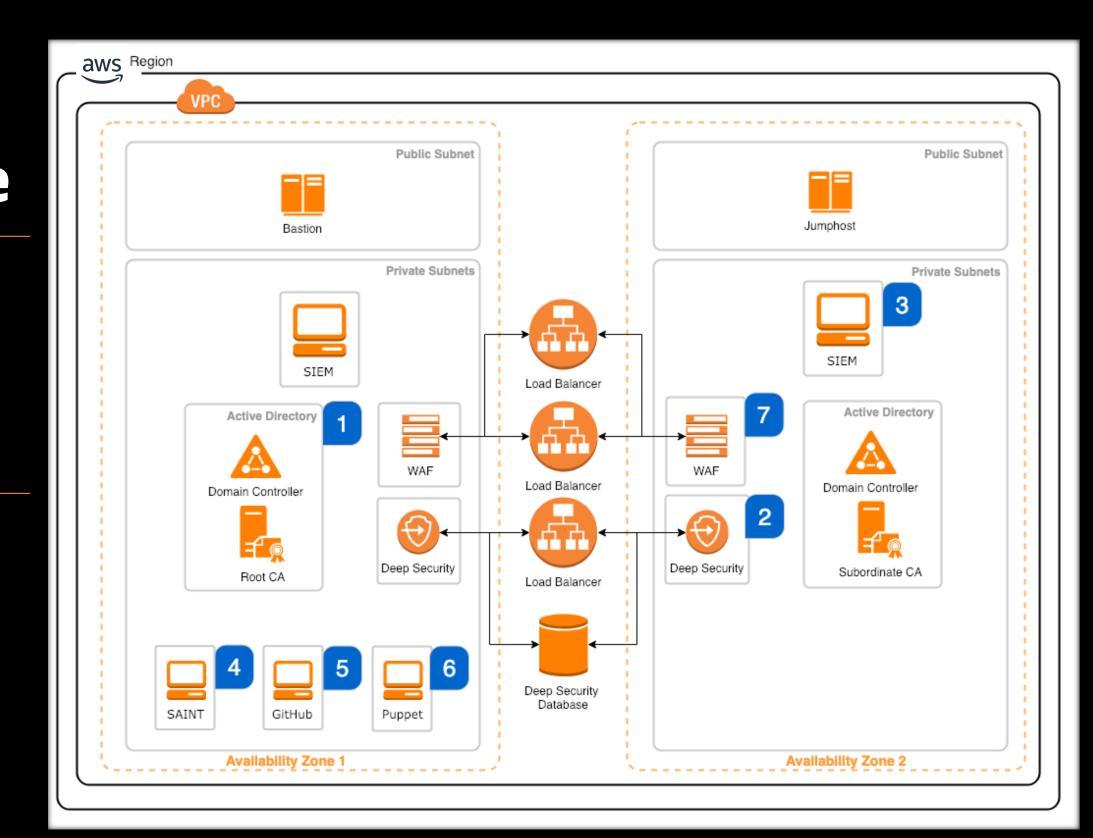




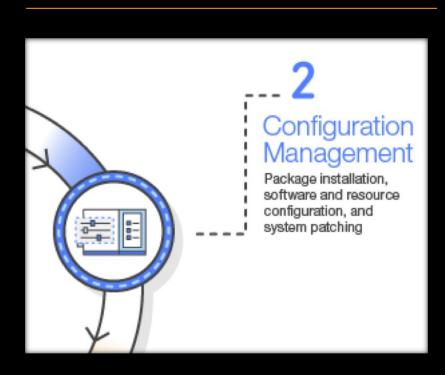
## **Automated** architecture

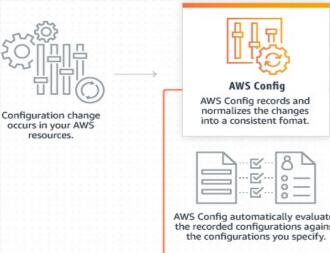


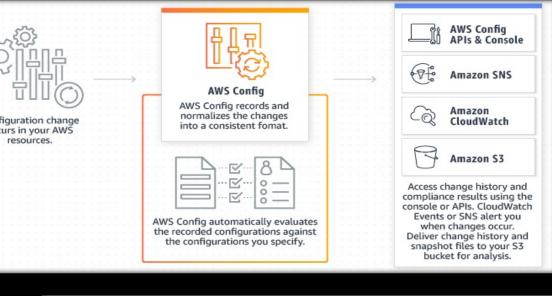
Templated infrastructure provisioning

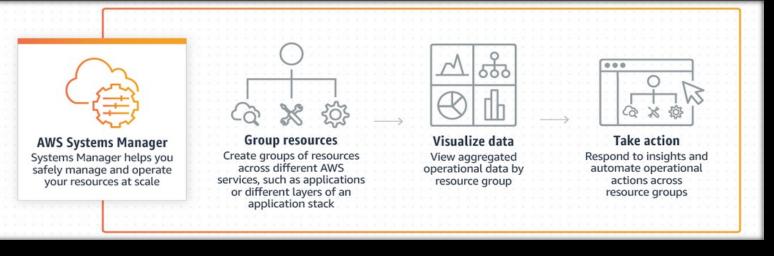


## Configuration management













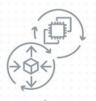
Detailed and custom metrics (error rates, CPU utilization, memory, etc.) and logs to monitor EC2 and provision capacity through Auto Scaling



alert Set threshold on metrics and create high-resolution Alarms with Amazon CloudWatch alarms



**Automated action** CloudWatch Alarms dynamically provision or remove Auto Scaling groups

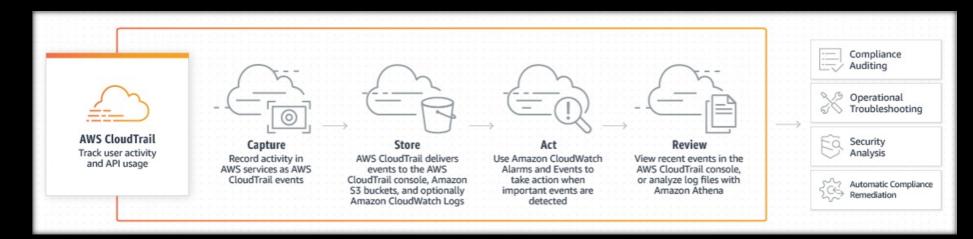


Resource and cost optimization Capacity and resource planning through Auto

Scaling

## **Monitoring and** performance







applications

applications, and services

that run on AWS and

on-premises servers











**Understand root** 

Critical event alert

Create high-resolution alarms with Amazon CloudWatch alarms and set threshold on metrics

**Unified operational** view Create re-usable graphs and visualize metrics and logs side by side to

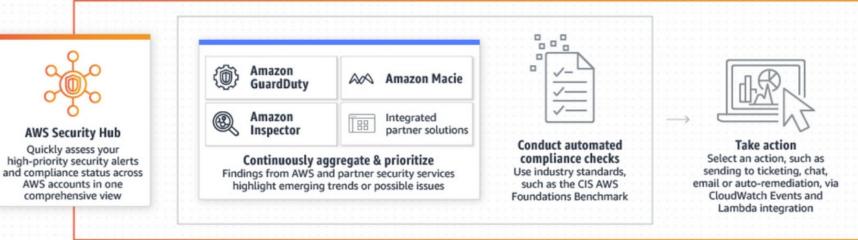
troubleshoot

cause Correlate metrics and logs together to diagnose

Optimize operational health Resolve performance

# Governance and compliance







Systems Manager helps you safely manage and operate your resources at scale Create groups of resources across different AWS services, such as applications or different layers of an application stack



Visualize data
View aggregated
operational data by
resource group

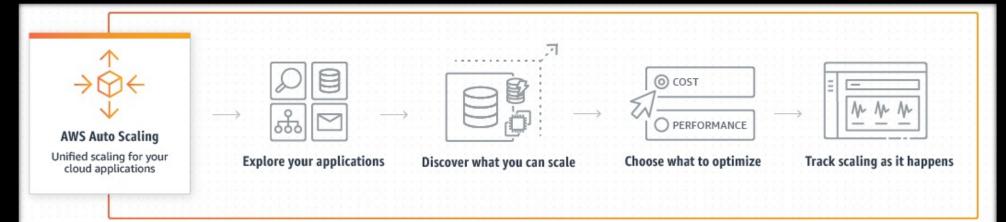


Take action
Respond to insights and automate operational

actions across resource groups

# Resource optimization







## Accelerating security and compliance workloads



PCI-DSS
DoD SRG
FedRAMP HIPAA
HITRUST
CMMC ISO
CJIS IRAP



## Thank You!

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