

Hawai'i Cloud Innovation Summit 2023

Accelerate Security and Compliance in the Cloud

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Agenda

- Foundational Items
- Shared Responsibility Model
- How AWS can help
 - AWS Self Service Resources
 - AWS Services
 - Global Security and Compliance Acceleration Program (GSCA)

Unique risks and challenges

In its shift to the cloud, all industries are confronting a range of familiar and emerging issues



Constantly evolving regulatory requirements



Requirements that vary significantly across regions



Highly dynamic security threat landscape



Stringent board reporting and documentation requirements



Limited cloud security & compliance specialists

AWS offers customers tools and guidance to enable compliance

Terms & Conditions



Agreements and third-party audit reports to support financial services compliance objectives

Transparency



Compliance, Security Tools & Services



Services and assets to automate controls, collect evidence and manage audits demands

Industry Frameworks and Assets



Deep Industry Expertise

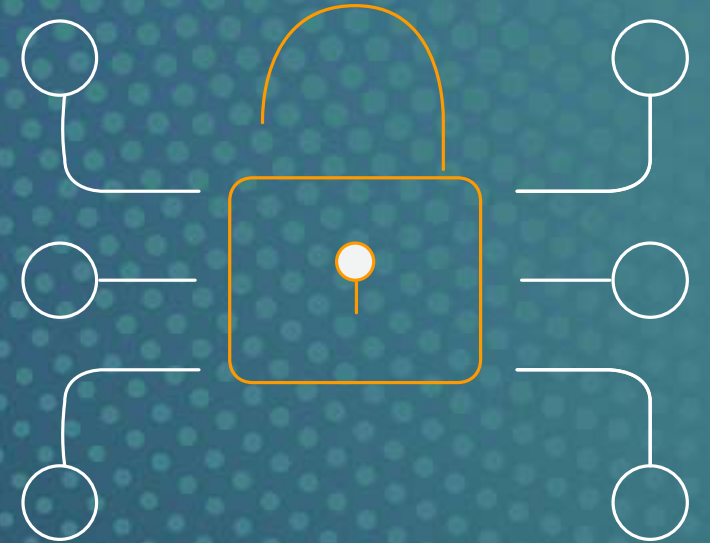


Mechanisms to advocate for and share best practices with customers

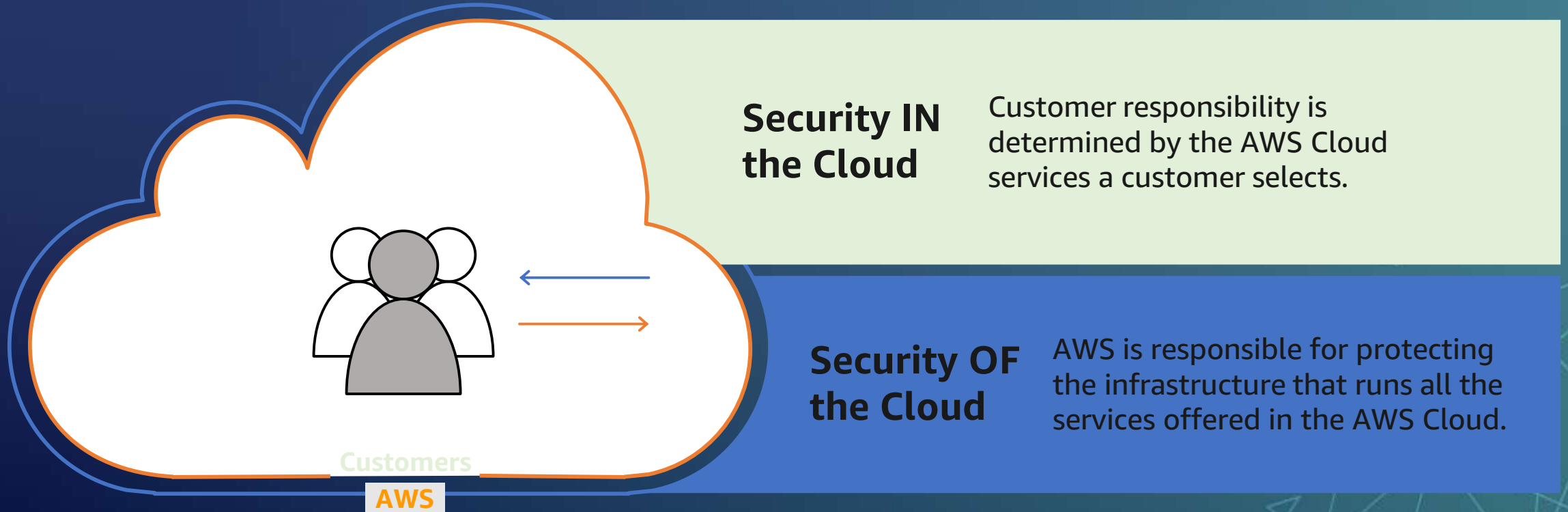
Regulatory Engagement



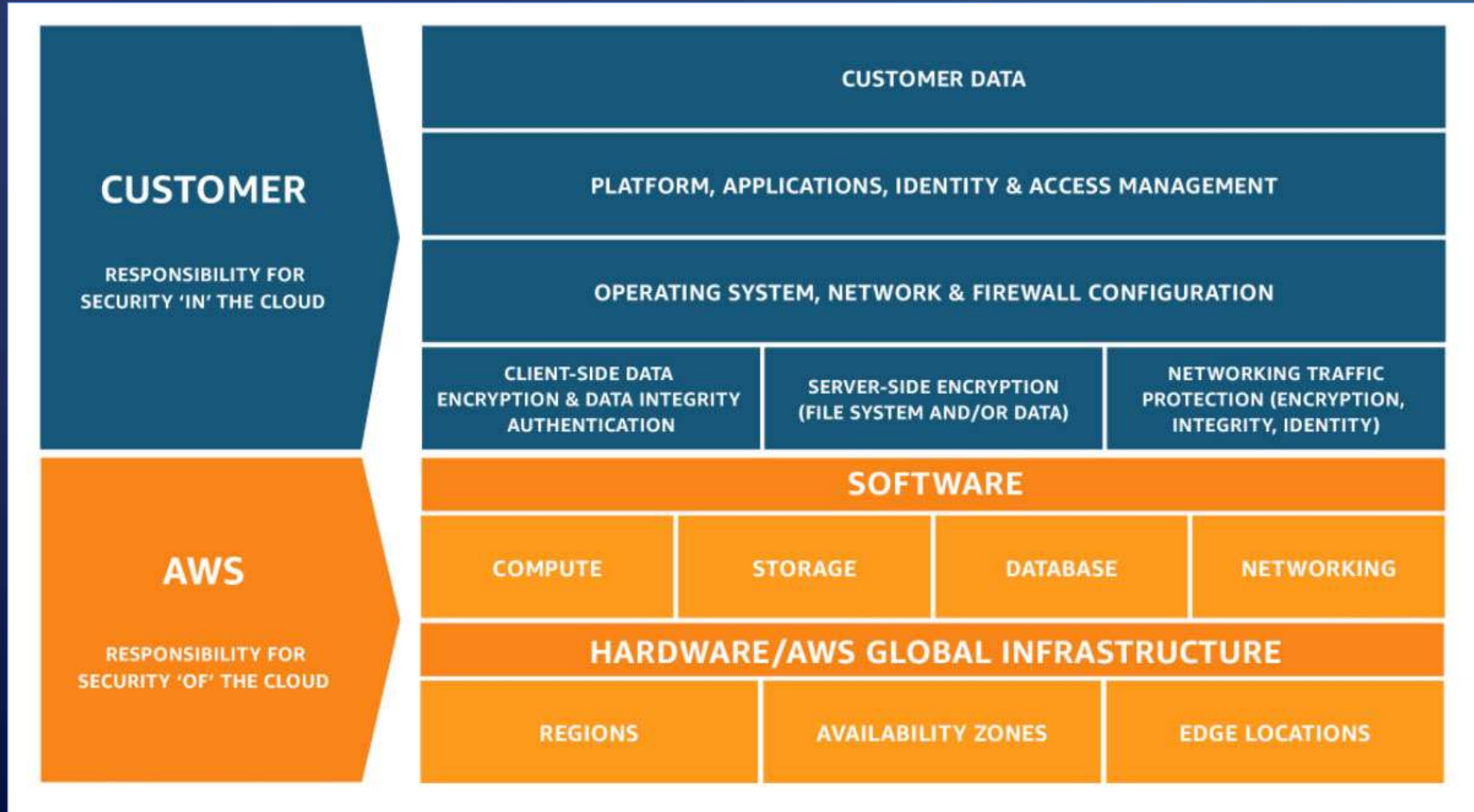
At AWS, security is the top priority!



Shared responsibility model



Security & Compliance is a Shared Responsibility



Customers are responsible for their security and compliance IN the Cloud

AWS is responsible for the security OF the Cloud

<https://aws.amazon.com/compliance/shared-responsibility-model/>



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The Line *Varies* ...



Amazon EC2



Amazon RDS



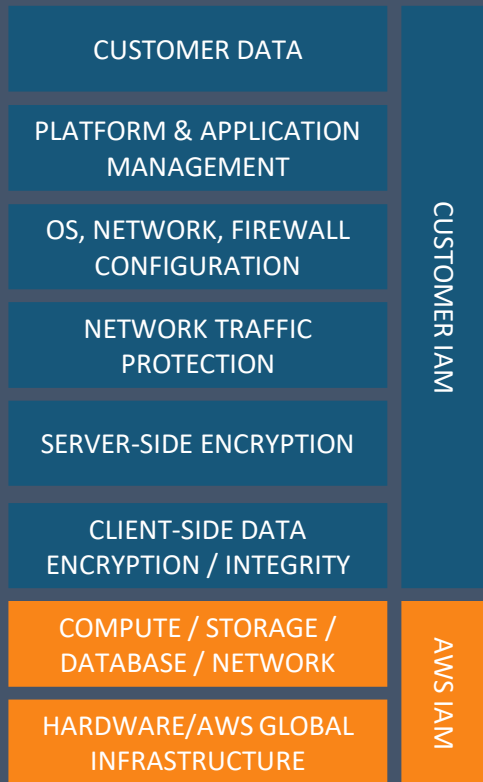
AWS S3



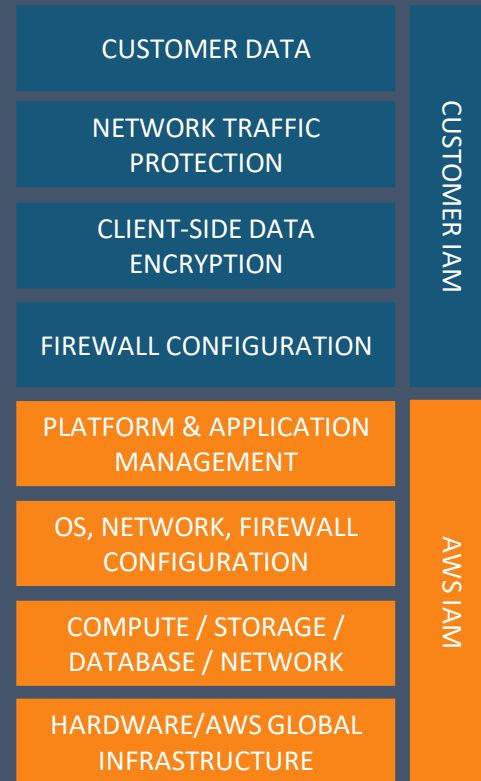
AWS KMS



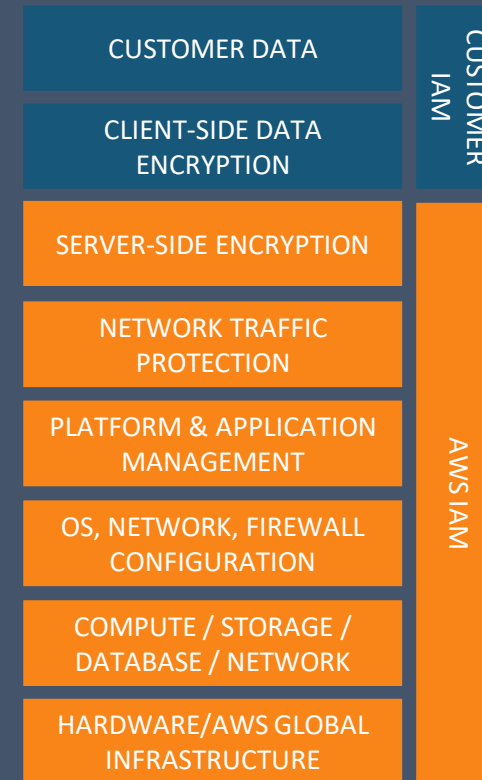
DynamoDB



Infrastructure Services



Container Services



Abstracted Services

More Customizable
+
More Customer Responsibility

Less Customizable
+
Less Customer Responsibility
+
More Best Practices built-in

The Goal: Reaching Compliance



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Inherit global security and compliance controls



Customer applications & Compliance

Customer Applications

Your own
accreditation

Your own
certifications

Your own
external audits

Applications built on top of AWS services, **are not implicitly compliant** to security controls (that AWS services are compliant with).

Customers need to **certify applications separately** by engaging with external auditors.

AWS Services



Highest standards for privacy and data security



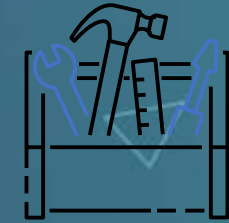
Meet data residency requirements
Choose an AWS Region, and AWS will not replicate it elsewhere unless you choose to do so



Encryption at scale
with keys managed by AWS Key Management Service or manage your own encryption keys with AWS CloudHSM using FIPS 140-2 Level 3 validated HSMs



Comply with local data privacy laws
by controlling who can access content, its lifecycle, and its disposal



Access services and tools that enable you to **build compliant infrastructure** on top of AWS

AWS Self Service Resources

AWS Artifact – Access Security and Compliance Reports

AWS Artifact

Access AWS and ISV security and compliance reports

Get started with AWS Artifact

Save time with on-demand access to AWS and Independent Software Vendor (ISV) compliance reports in a self-service portal.

On-demand accept, terminate, and download compliance agreements with AWS.

Improve your workload deploying confidence by understanding the compliance and security posture of AWS.



Customer Compliance Guides

AWS Compliance Solutions Guide

Repository of frequently used resources and processes needed to perform compliance responsibilities on AWS.

[Move Regulated Workloads to the Cloud »](#)

More AWS Compliance Resources



The [Services in Scope Page](#) will detail which services are currently in scope, and which are in progress. You can also contact your AWS Sales Account Manager and SA about any specific needs for a certain service.



The [AWS Security Blog](#) is a great way to keep track of all the newest updates to the AWS security programs.



For information on some of AWS current customer experiences please visit our customer testimonial page which lists [case studies](#) from our customers across all industries.



If you need more information on a specific compliance regime, please refer to the following pages for FAQs:

- [PCI](#)
- [HIPAA](#)
- [SOC](#)
- [FedRAMP](#)



The [AWS Auditor Learning Path](#) is a resource designed specifically for those in auditor, compliance, and legal roles who want to learn how their internal operations can demonstrate compliance using AWS' platform.

AWS Services

AWS security, identity, and compliance solutions



Identity and access management

AWS Identity and Access Management (IAM)

AWS IAM Identity Center

AWS Organizations

AWS Directory Service

Amazon Cognito

AWS Resource Access Manager

Amazon Verified Permissions

Detective controls

AWS Security Hub

Amazon GuardDuty

Amazon Security Lake

Amazon Inspector

Amazon CloudWatch

AWS Config

AWS CloudTrail

VPC Flow Logs

AWS IoT Device Defender

Infrastructure protection

AWS Firewall Manager

AWS Network Firewall

AWS Shield

AWS WAF

Amazon VPC

AWS PrivateLink

AWS Systems Manager

AWS Verified Access

Data protection

Amazon Macie

AWS Key Management Service (KMS)

AWS CloudHSM

AWS Certificate Manager

AWS Private CA

AWS Secrets Manager

AWS VPN

Server-Side Encryption

Incident response

Amazon Detective

Amazon EventBridge

AWS Backup

AWS Security Hub

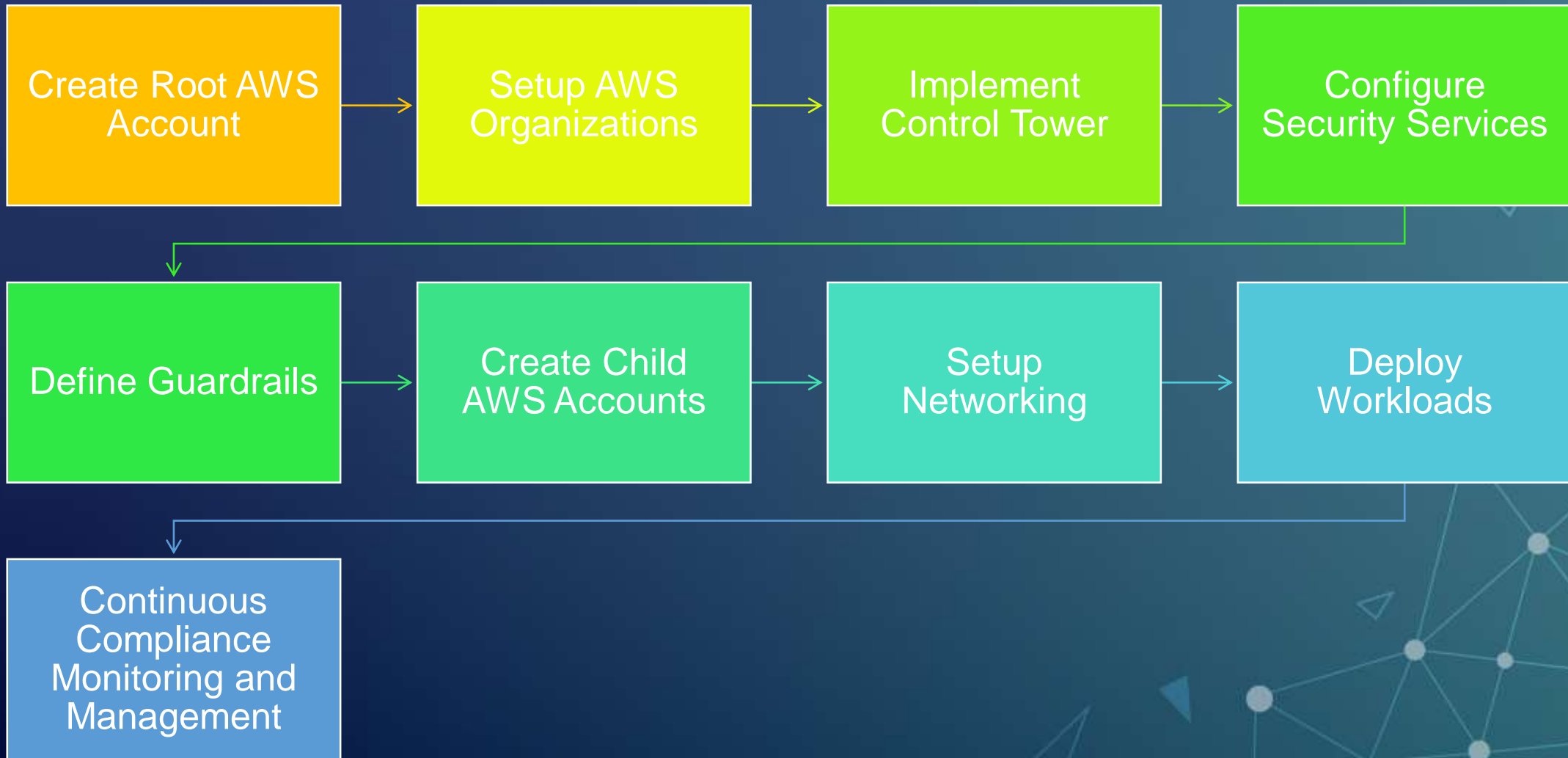
AWS Elastic Disaster Recovery

Compliance

AWS Artifact

AWS Audit Manager

Compliance in AWS – Customer Journey



AWS Audit Manager

Continuously audit your AWS usage to simplify how you assess risk and compliance



Enables internal audit & governance, risk, and compliance (GRC) teams

Offers pre-built, customizable frameworks to map usage to controls

Automates collection & organization of evidence across accounts

Enables control status updates and notifications to help collaborate across teams delegation, comments,

Produces assessment reports with evidence integrity checks

What is AWS Cloud Audit Academy?

The **Cloud Audit Academy** educates customers on cloud-specific verification techniques in the cloud through interactive learning

Courses:

1. Foundational
2. AWS Specific Course
3. Industry Specific Auditing
 - PCI DSS
 - NIST SP 800/CMMC



Global Security and Compliance Acceleration Program



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GSCA Program

- **AWS Partner Program**
- **Support, enhance and accelerate customer and partner journey to meet differing regulatory, security and compliance requirements globally**
- **Partner with country and regional partners to provide localized customer support and engagement**

GSCA Partners and Team

GSCA Program Partners

- **Independent Software Vendors (ISV)**
 - SaaS Providers
 - 3rd Party Software Vendors
- **Systems Integrators (SI)**
 - Automated Security Solutions
 - Managed Security Service Providers (MSSP)
- **Consultants/3rd Party Assessment Organizations (3PAO)**
 - Advisors
 - Consultants

GSCA Security & Compliance Team

- **Provides Informal Advisory**
 - Security Partner Strategists
 - Security/Compliance Solutions Architects
- **Compliance and architecture workshops**
 - Half-day sessions with customers
 - Review architectures, data flows, services, etc.
- **Partner engagement**
 - Partners vetted by AWS security and compliance SME prior to joining program
 - Trusted advisors and technical resources
 - Partners to scale and support our customers

Helping Customers and Partners by:

- **Accelerating** security and compliance authorization processes
- **Reducing** cost, time and effort to achieve certifications/authorizations
- **Providing** reusable artifacts including guidance, templates, tools, and pre-built templates from AWS and AWS Partner Solutions
- **Collaborating in Joint Partner Programs** supported by AWS to develop and deliver unique capabilities and solutions
- **Working with Qualified Partners** to support the security & compliance journey

GSCA frameworks covered



Links and Resources



Please submit your feedback. Thank you!



<https://www.pulse.aws/survey/HW4QRQ8C>

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Thank you!

