AWS
re:Invent

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STG310-R

Using AWS Backup to protect your cloud resources & hybrid environments

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Agenda

Why is data protection relevant?

What is AWS Backup?

Let's dive deeper

"Everything fails,
all the time."

Dr. Werner Vogels

VP and CTO at Amazon.com

Data protection and resilience at exabyte scale

Data is growing
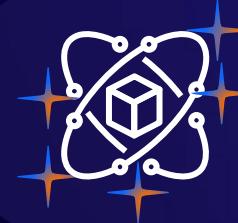
Data has value
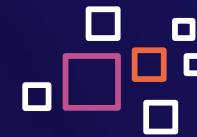
Data needs protection, resilience, and governance
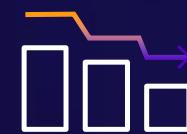
**Data protection needs to be performant, low cost, and easy to use**

Considerations for a data protection strategy

How much data can you afford to recreate or lose?

Recovery Point Objective (RPO)

How quickly must you recover? What is the cost of downtime?

Recovery Time Objective (RTO)

Disaster

Time

Data loss

Downtime

An AWS-native solution for centralized data protection

AWS Backup

On premises

Corporate data center
Traditional server
Storage array — Backup appliance

Hybrid

Corporate data center
Traditional server — AWS Backup for VMware
Storage array — AWS Storage Gateway

Cloud native

AWS Cloud

File
- Amazon EFS
- Amazon FSx

Virtual machine
- Amazon EC2
- Amazon EBS

Database
- Amazon RDS
- Amazon Aurora
- Amazon DynamoDB

Applications
Windows Server, SQL Server, Active Directory

Overview of AWS Backup

 AWS Backup | A fully managed, policy-based service that centralizes and automates data protection across multiple AWS services and hybrid workloads
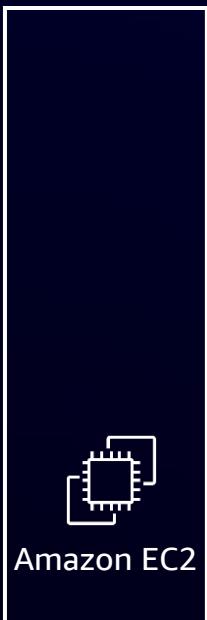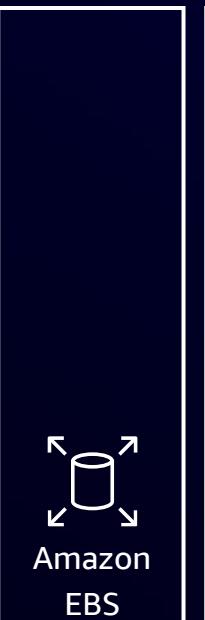
Compute	Block storage	File storage	Object storage	Data transfer	Databases	Application	Management	Hybrid
Amazon EC2	Amazon EBS	Amazon FSx for NetApp ONTAP / Amazon FSx for OpenZFS / Amazon EFS / Amazon FSx for Windows File Server / Amazon FSx for Lustre	Amazon S3	Storage Gateway	Amazon Redshift / Amazon Timestream / DynamoDB / Aurora / Amazon Neptune / Amazon RDS / Amazon DocumentDB	Windows VSS on EC2 / SAP HANA on EC2 / VMware Cloud on AWS	AWS CloudFormation	Storage Gateway + vmware / On premises / AWS Outposts

AWS Backup use cases

Cloud-native backups

Protect your critical data across AWS services

Compliance and governance

Simplify management and reporting of business and regulatory compliance

Disaster recovery

Reduce risk of downtime and build foundation for business continuity

Ransomware recovery

Protect and recover critical data from ransomware events and account compromise

Let's do some whiteboarding!

Scaling AWS Backup management
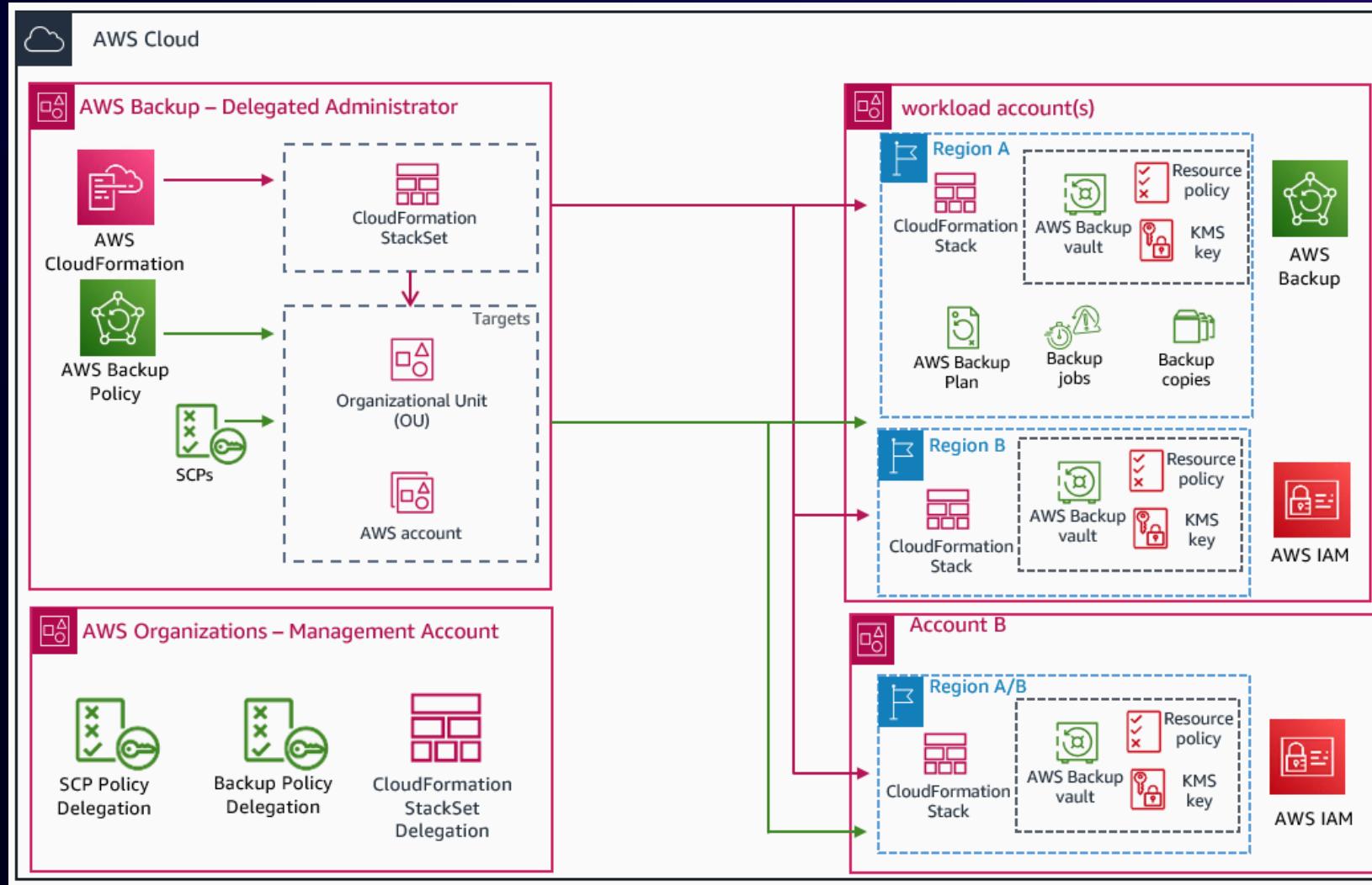
https://d1.awsstatic.com/architecture-diagrams/ArchitectureDiagrams/data-protection-with-aws-backup-ra.pdf?stod_bck4

Securing backups with central data bunker
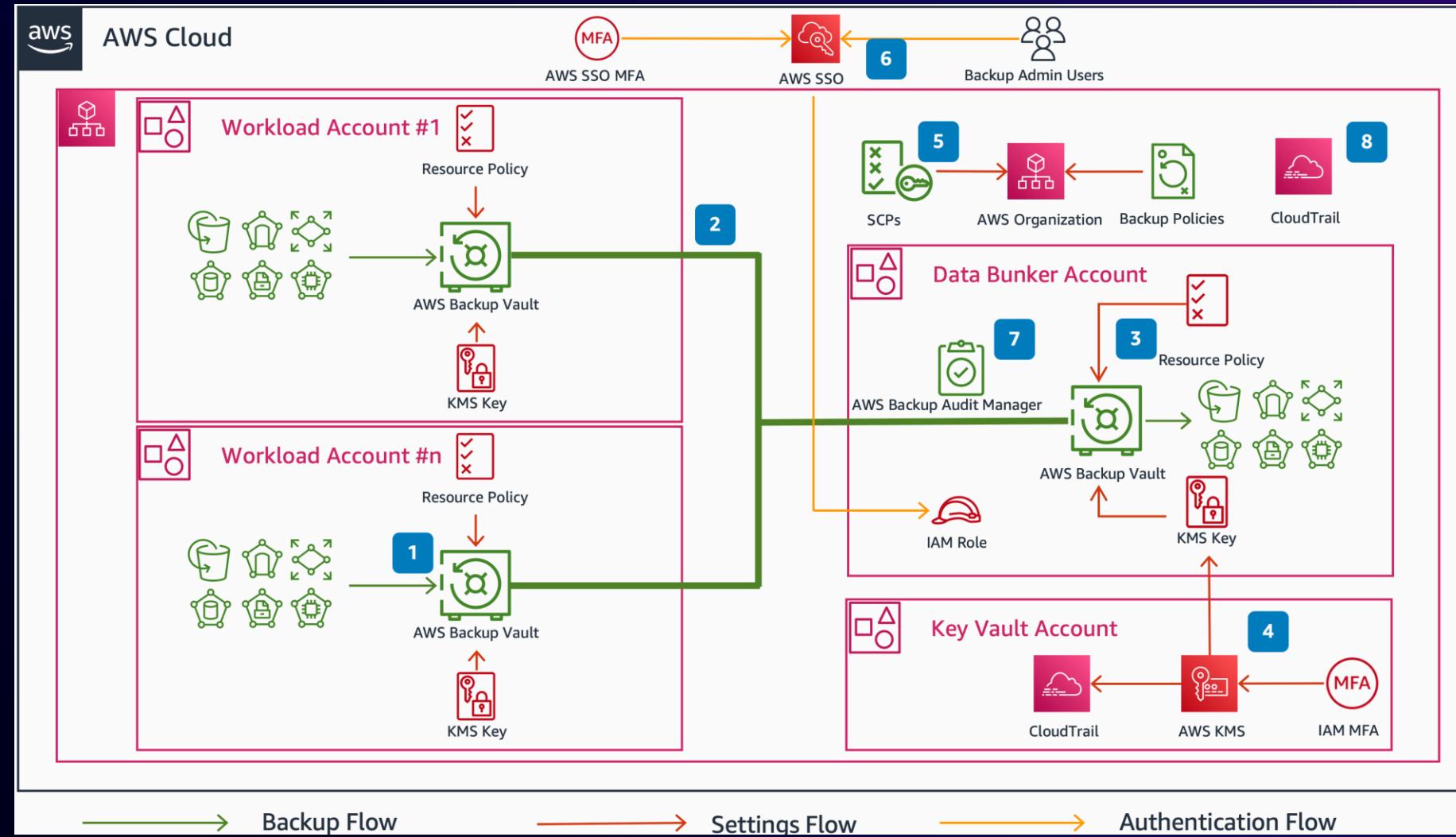
https://d1.awsstatic.com/architecture-diagrams/ArchitectureDiagrams/data-protection-with-aws-backup-ra.pdf?stod_bck4

Centralized monitoring/compliance auditing
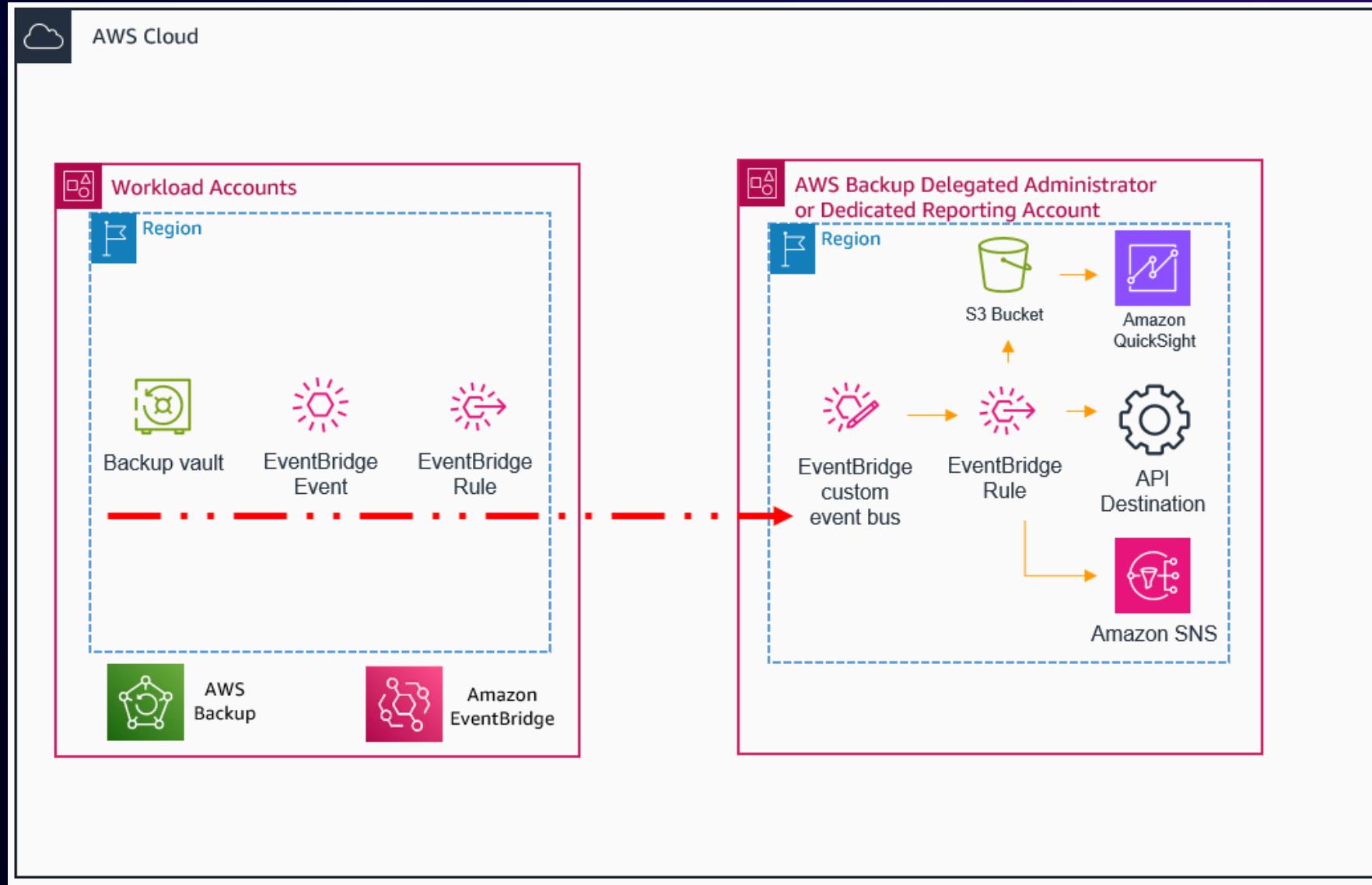
Ransomware detection and recovery
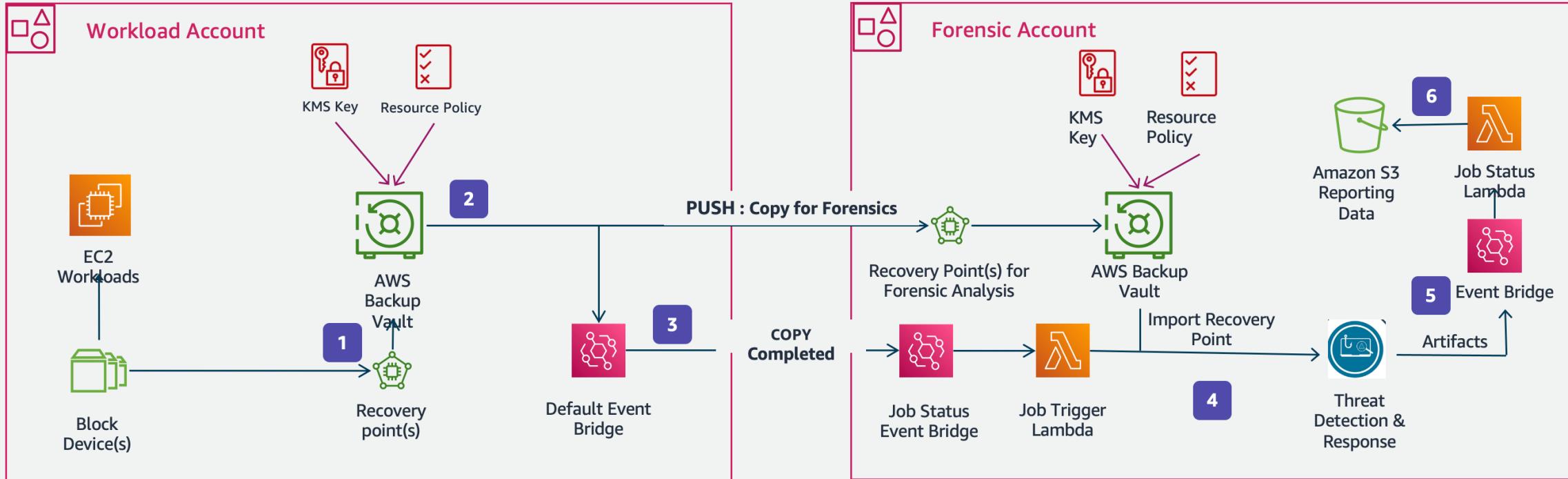
Continue your AWS Storage learning

Start a learning plan
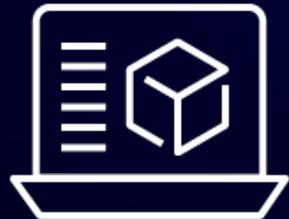
Set your AWS Storage learning plans via **AWS Skill Builder**

Increase your knowledge

Use our **Ramp-Up Guide** to build your storage knowledge

Earn AWS Storage badges

Demonstrate your knowledge by earning **digital badges**

aws.training/storage

Scan to go directly to the Storage Knowledge Badge Readiness Paths

AWS Backup sessions at re:Invent

Session	Type	Speakers
STG203 | What's new in AWS Backup	Breakout	Ken Hui Heather Munoz
STG215 | Data protection and resilience with AWS Storage	Breakout	Palak Desai Bisman Sethi
STG303 | Safeguard and audit data protection with AWS Backup	Workshop	Marcos Seoane Brian Benscoter
STG304-R | Build ransomware data recovery and response with AWS Backup	Workshop	Sabith Venkitachalapathy June Park
STG306-R | Protect AWS resources with AWS Backup	Builders'	Prachi Gupta Brian Benscoter Larry Babarinde Aaron Khoo Steve Devos
STG307-R | Data protection & application recovery strategies for ransomware	Chalk Talk	Fathima Kamal Vivek Mishra
STG310 | Using AWS Backup to protect your cloud resources & hybrid environments	Chalk Talk	Enrique Ramirez Ken Hui
STG333 | Automate your AWS Backup strategy	Code Talk	Marcos Seoane Khurram Nizami
STG339 | Best practices for cost optimization with AWS Backup	Chalk Talk	Enrique Ramirez Sabith Venkitachalapathy

Thank you!

Please complete the session survey in the mobile app

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