



Deliver Application Resilience with AWS

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Agenda

- **Application resilience**
- **Overview of AWS resilience services**
- **AWS Resilience Hub**
- **AWS Elastic Disaster Recovery**
- **Getting started**

What is application resilience?

The resilience of an application refers to its ability to maintain availability and recover from software and operational disruption within a specified target measured in terms of Recovery Time Objective (RTO) and Recovery Point Objective (RPO).

The reality

- Threats to **data availability and reliability** are constant.
- Threats are more intense due to **malware and ransomware**.
- **Strong IT resilience plans** minimize disruption and protect against data loss.

The statistics

90%

Organizations reporting
malware attack

87%

Reported attacks that
were successful

33%

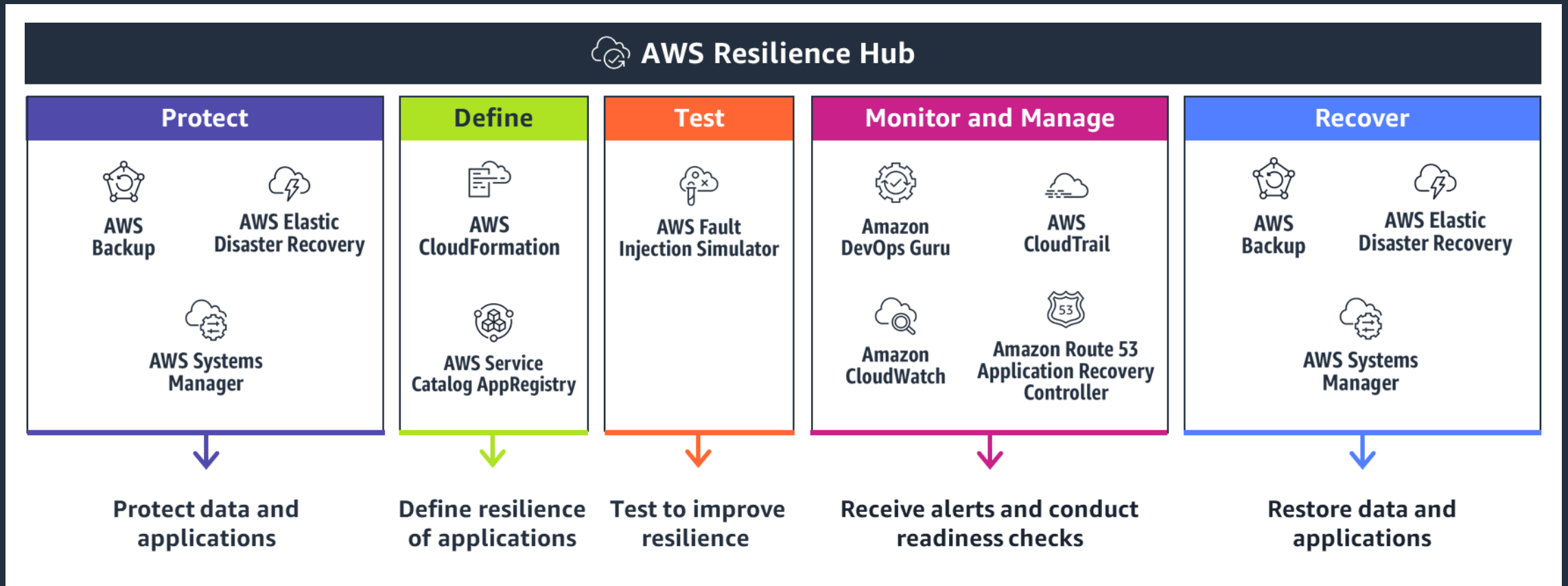
Lost access to systems
or data

<32%

Could recover without
paying ransom

Sources: IDC Technology Spotlight, June 2022

AWS resilience services



AWS Elastic Disaster Recovery and AWS Resilience Hub



Elastic Disaster Recovery

- Gets applications back up and running
- Provides replication and recovery
- Supports on-premises and cloud-based applications



Resilience Hub

- Offers proactive testing
- Detects weaknesses
- Reduces the risk of an outage
- Recommends when to use various resilience services (Elastic DR, FIS, Route 53 ARC...)

AWS Elastic Disaster Recovery benefits

Flexible



Replicate from any source



Supports a wide range of OS, applications, and databases



Remove idle recovery site resources and pay only for what you need

Reliable



Robust, non-disruptive continuous replication



RPO: Seconds
RTO: Minutes



Recover from ransomware, corruptions, and human errors

Highly Automated



Minimal skill set required to operate



Easy, non-disruptive drills

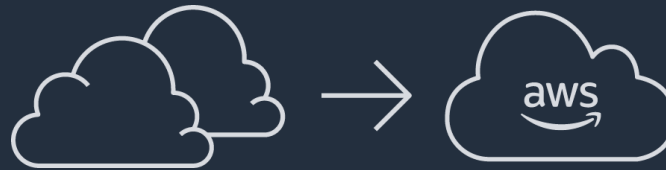


Unified process to test, recover, and fail back

AWS Elastic Disaster Recovery use cases



On-premises to AWS



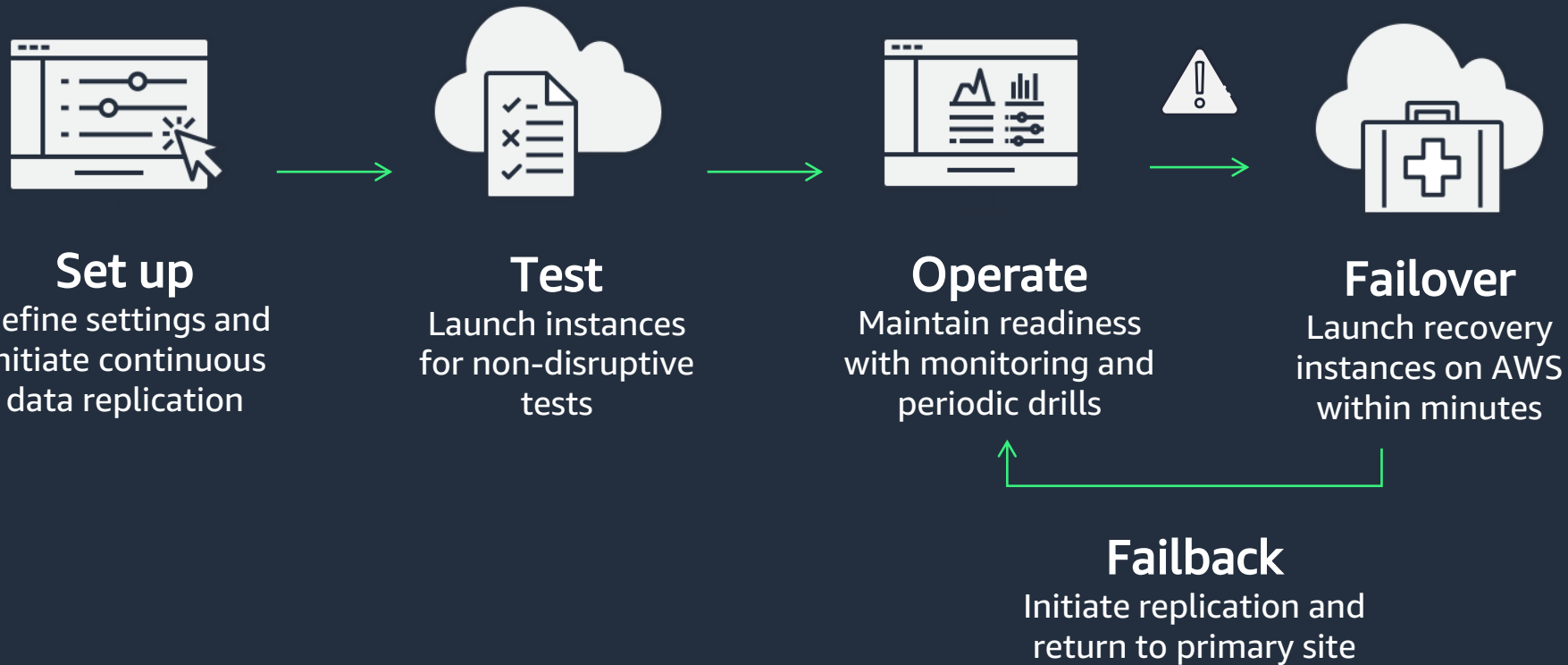
Cloud to AWS



AWS Region to
AWS Region

AWS Elastic Disaster Recovery lifecycle

Use a single process to recover servers across all supported infrastructure and OS



Success story: Thomson Reuters

- Used AWS Elastic Disaster Recovery to set up recovery site on AWS
- Replicated 300 servers (120 TB) in 10 months
- Eliminated manual DR process
- Reduced RTO and RPO
- Enhanced security and compliance
- Accelerated migration of on-premises data center to AWS



THOMSON REUTERS

“Using AWS Elastic Disaster Recovery has made our DR process more redundant and reliable. We know that everything is ready to go.”

- Anna Rushing, Senior Project Manager at Thomson Reuters

How to get started

STEP 1



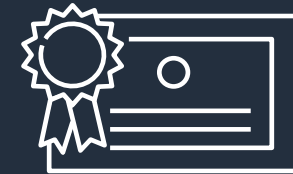
Visit the
AWS Console
to start setup and
begin using Resilience
Hub and DRS

STEP 2



Contact AWS account
team, APN Consulting
Partner, or AWS
Professional Services

STEP 3



Take the free online
trainings on
[AWS Skill Builder](#)

AWS Resilience Hub capabilities

- Define application RTO and RPO in a **resilience policy**
- Assessment to uncover **resilience weaknesses**
- Recommendations on **SOPs and alarms**
- **Resilience testing** and verification
- Dashboard to view application portfolio **resilience posture**
- **CI/CD** integrations
- Resilience Score indicates likelihood of **meeting RTO and RPO**
- **Audit trail** for compliance

AWS Resilience Hub benefits



Continuously validate
and track application
resilience



Consistently meet
resilience targets (RTO
and RPO)



Identify and resolve
resilience-related issues
before they occur in
production



Reduce application-
related outages

AWS Resilience Hub use cases



Protect mission-critical applications

Fault-injection simulations of real-world failures help validate the effectiveness of recovery standard operating procedures (SOP) and alarms



Reduce Costs

Uses the cost effectiveness of the AWS cloud to help optimize business continuity while reducing recovery costs



Help meet contractual and regulatory requirements

Keeps an audit trail of events during planned and unplanned outages, helping meet compliance and regulatory requirements



Thank you!

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