AWS Elastic Disaster Recovery

Scalable, cost-effective application recovery to AWS

Twann Atkins

Sr. Solutions Architect
AWS

Agenda

Why use cloud-based disaster recovery?

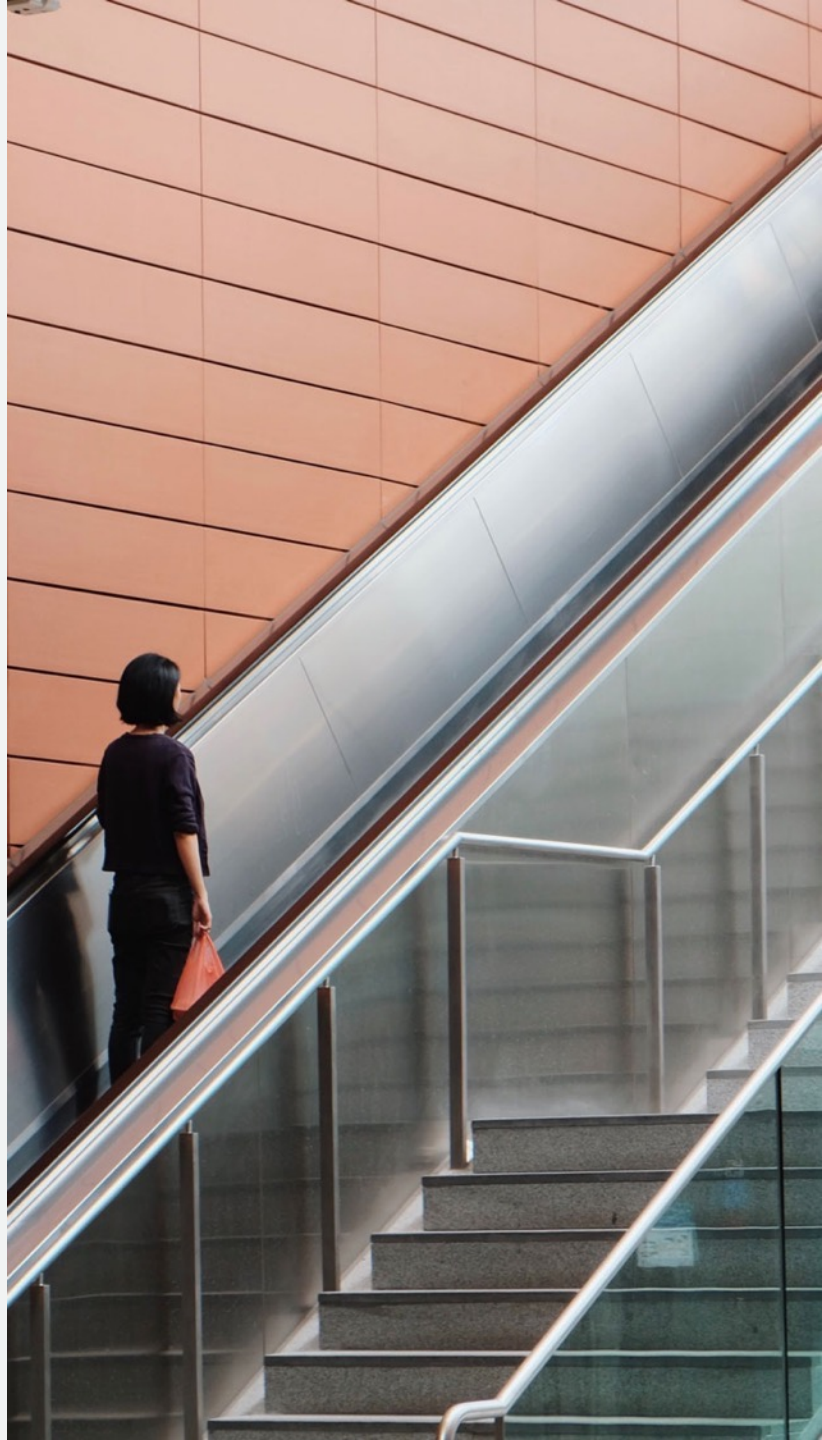
Common disaster recovery challenges

How AWS Elastic Disaster Recovery enables business continuity

Customer success stories

Getting started

Resources



"Public cloud adoption continues to increase significantly; Forrester estimates that spending on public cloud infrastructure services alone will grow to $122 billion by 2022. Crafting a strategy that fully understands and leverages the shift toward the cloud is becoming a vital aspect of modern DR."

The State Of Disaster Recovery Preparedness In 2020

Forrester, August 2020

Why use the cloud for disaster recovery?

Traditional disaster recovery

- Large upfront investment in hardware when production grows.
- New DR hardware requires time to purchase and set up.
- Can be difficult to test without business disruption.
- Management and infrastructure overhead for globally distributed businesses.

Cloud disaster recovery

- Quickly add or remove replicating servers as source environment changes.
- Pay for full DR site only when needed for drills or recovery.
- Easy and repeatable testing, without impacting production.
- Lower IT management overhead.
- Recovered systems up in minutes.

How is disaster recovery different from backup?

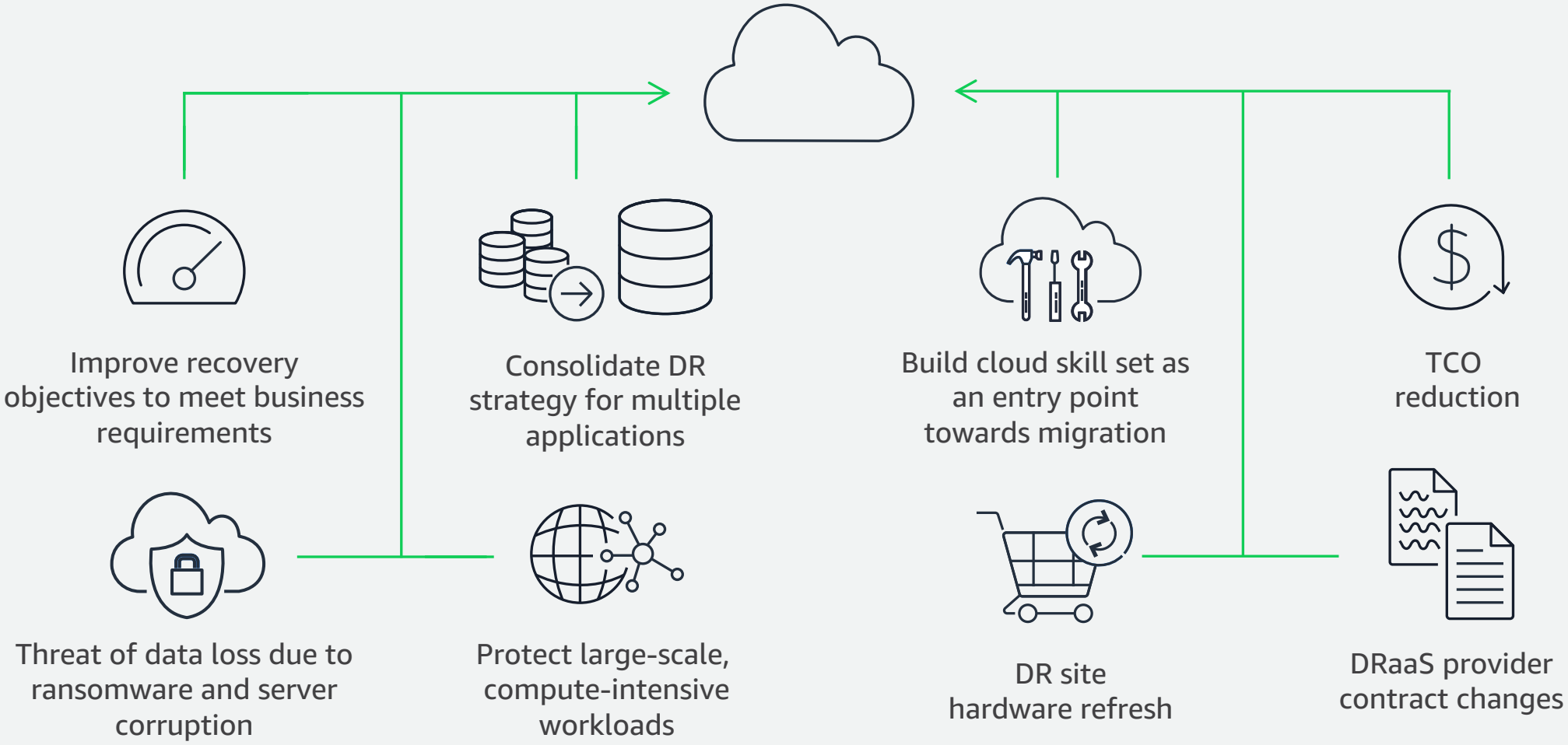
Backup

- Restores data and files
- Recovery objectives of hours or days
- Longer retention period

Disaster recovery

- Recovers entire application and system state
- RPO of seconds, RTO of minutes
- Change-based, continuous replication

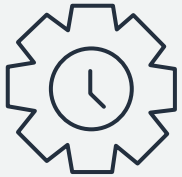
Cloud-based disaster recovery drivers



Business outcomes of cloud-based disaster recovery

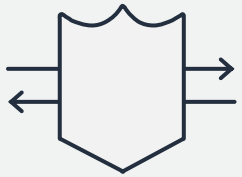
Robust Operations

Achieve steadfast reliability and availability based on top-tier recovery objectives



Operational Efficiency

Obtain substantial cost savings by reducing the need for duplicate infrastructure and licensing



Business Continuity Peace of Mind

Minimize downtime and data loss by frequently conducting easy-to-launch, non-disruptive disaster recovery drills

Common disaster recovery challenges

- High cost of idle duplicate resources
- Diverse infrastructure and OS types
- Server compatibility issues
- Inability to achieve recovery objectives (RPOs/RTOs)
- Replicating busy, continually changing workloads
- Tests and drills are expensive and disrupt operations
- Different DR tools or processes for different applications
- Scaling DR site when primary environment changes

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