



# Designing a DR strategy on Amazon RDS for SQL Server

Make your RDS SQL Server more scalable and resilient

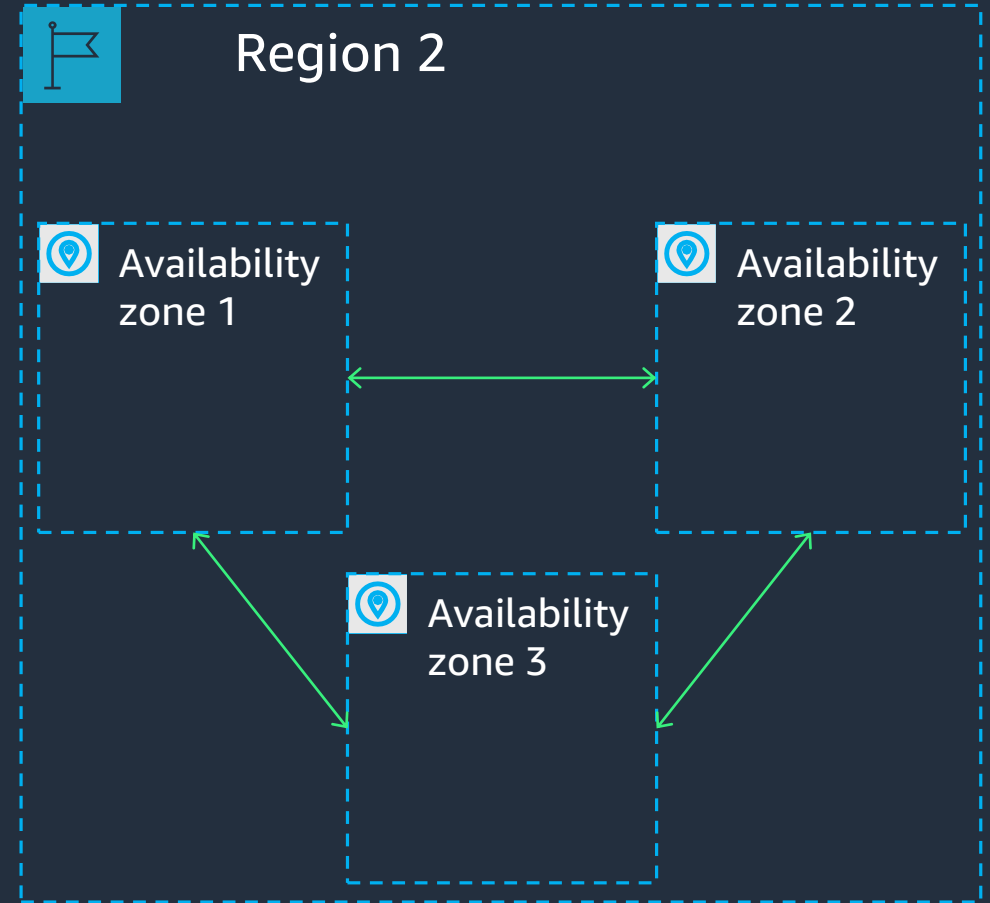
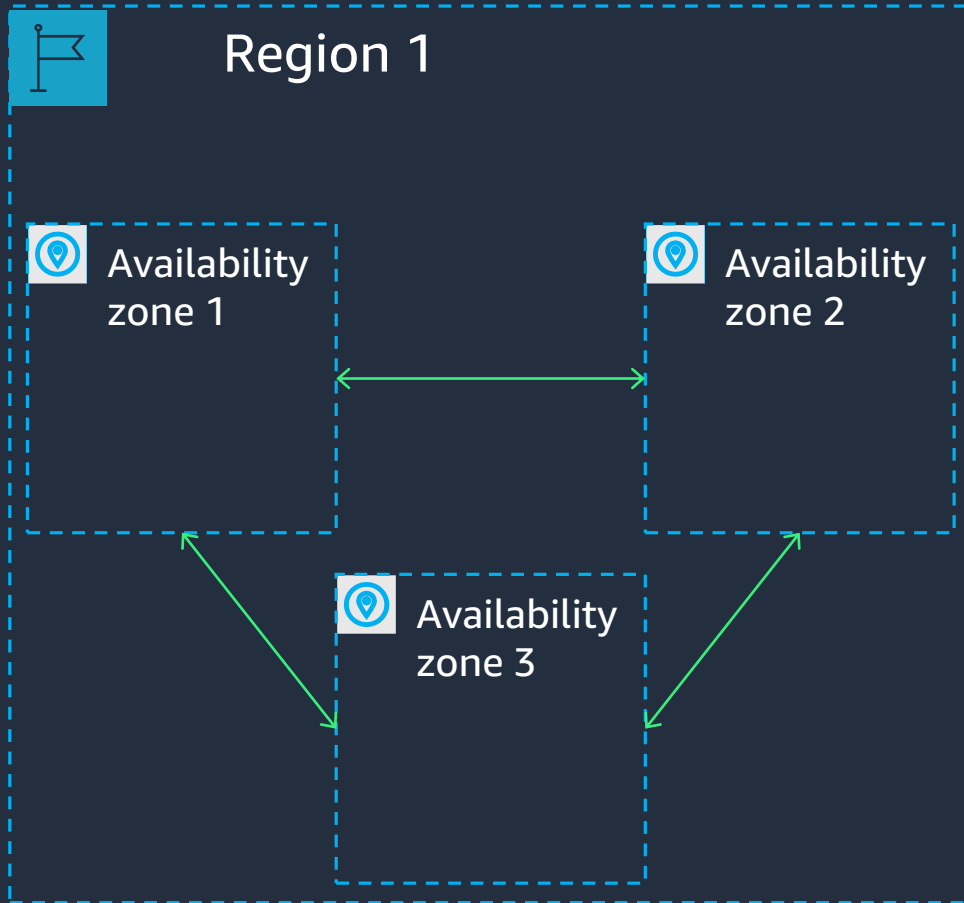
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# Agenda

- Disaster Recovery considerations – RPO and RTO
- What is cross-Region read replica?
- Demo – Managing and monitoring cross-Region read replica

# AWS Regions and Availability Zones (AZs)



# Disaster Recovery Options - Considerations

DR Options	RPO	RTO	Automatic Failover	Readable Secondaries	Failback	Ease of Access	Endpoint Change in Failover**	Resource
Warm/Hot Standby DR - using replication solution								
AWS DMS Cross-Region read replicas	Seconds / Minutes	Minutes	No	Yes	Reconfigure	All SQL Editions	Yes	Table level
	Minutes	Minutes	No	Yes	Manual	Enterprise edition	Yes	Database level
Cold DR - Replicate Database backups between two AWS regions								
Native backups	Hours	Hours / Days	No (Restore on target SQL Server)	No	Reconfigure	All SQL Editions	Yes	Database level
Replicate Automated backups ( PITR)	Minutes	Minutes / Hours	No	No	No	All SQL Editions	Yes	Instance level
Manual Snapshot	Hours	Minutes / Hours	No	No	No	All SQL Editions	Yes	Instance level

# Cross-Region Read Replica

## USE CASES

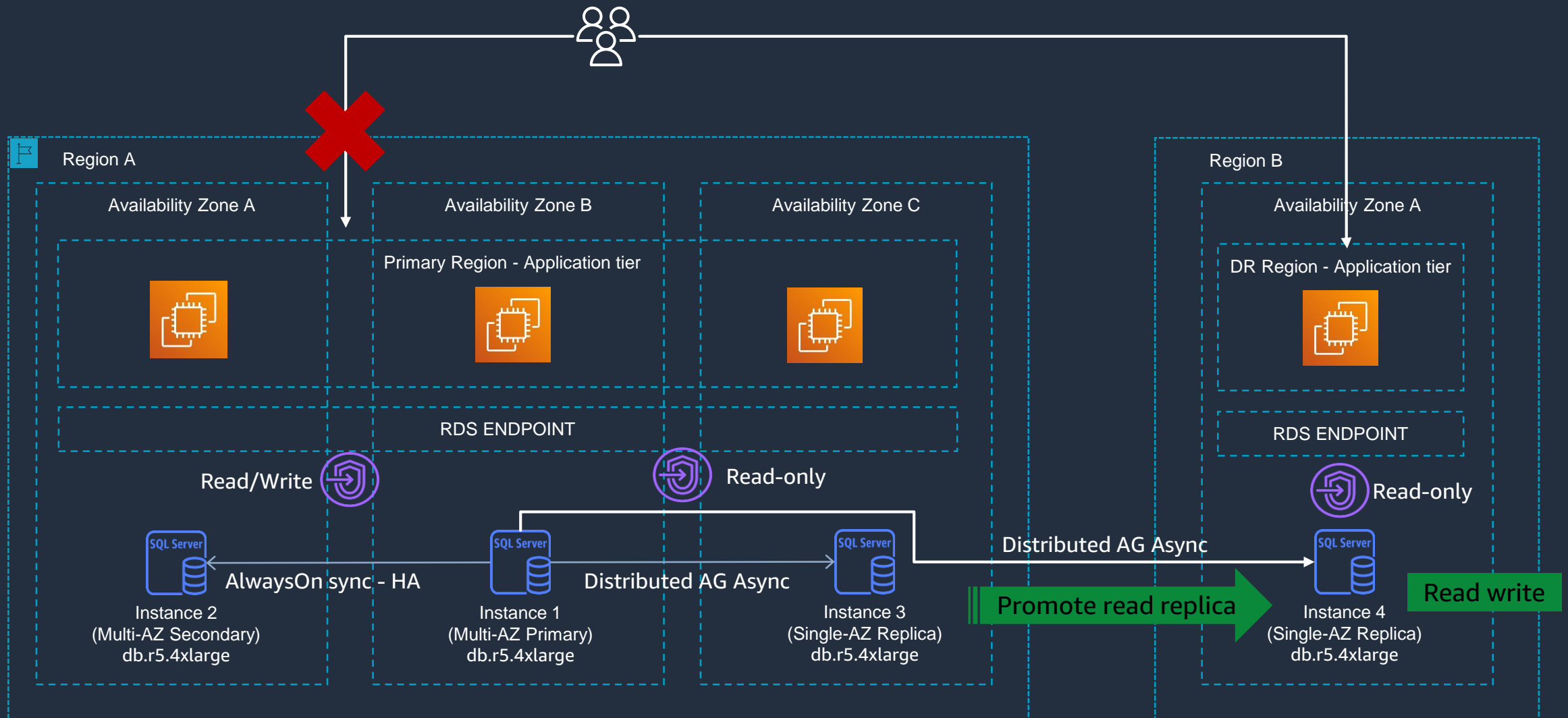


Global (Multi-Region)  
Scaling application



Business Continuity  
(Disaster Recovery  
across Regions)

# What is Cross-Region Read Replica?



# Demo



# Additional resources



[Working with read replicas for Microsoft SQL Server in Amazon RDS](#)



[Use cross-Region read replicas with Amazon Relational Database Service for SQL Server](#)