aws re: Invent

DAT337

Running and tuning SQL Server on Amazon RDS

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Agenda

- Introduction
- Event engine setup
- Migration
- Tuning Amazon RDS Performance Insights
- Security SQL Server Audit
- High availability Multi-AZ

Related breakouts

DAT364-R1 – Deep Dive on new features in Amazon RDS for SQL Server

DAT367 Running SQL Server on Amazon RDS and migrating to Aurora MySQL

Get started!

Directions for the lab: https://tinyurl.com/ujaghwq

We will wait 10 minutes while you launch this (until step #12), then start the presentation

Introduction





Amazon Relational Database Service (Amazon RDS)



Managed relational database service with a choice of popular database engines























Easy to administer

Easily deploy and maintain hardware, OS and DB software; built-in monitoring

Performant & scalable

Scale compute and storage with a few clicks; minimal downtime for your application

Available & durable

Automatic Multi-AZ data replication; automated backup, snapshots, and failover

Secure & compliant

Data encryption at rest and in transit; industry compliance and assurance programs

Introduction: Managed service



What does Amazon RDS manage?

- Provisioning
- Installation and patching
- Automated backups
- Restores: Snapshot and point-in-time
- High availability
- Monitoring

Introduction: Configuration



What can you configure?

- Hardware
- Engine version/edition
- Network connectivity
- > Time zone
- Backup retention

- Encryption
- Collation
- High availability
- Monitoring

Deep dive on best practices: https://www.youtube.com/watch?v=4JYS1J5PyHw

Migration





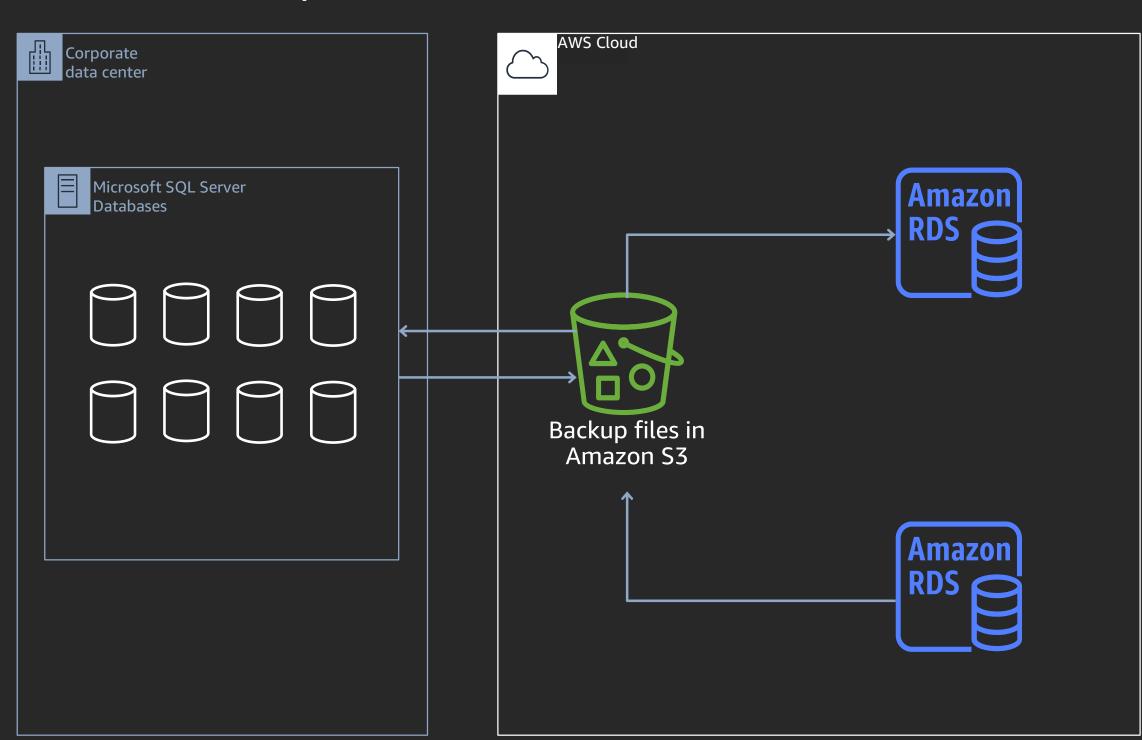
Migration: Native backups/restores

Backup types

- > Full
- Differential

Restore types

- > Full
- Differential
- Log



Monitoring





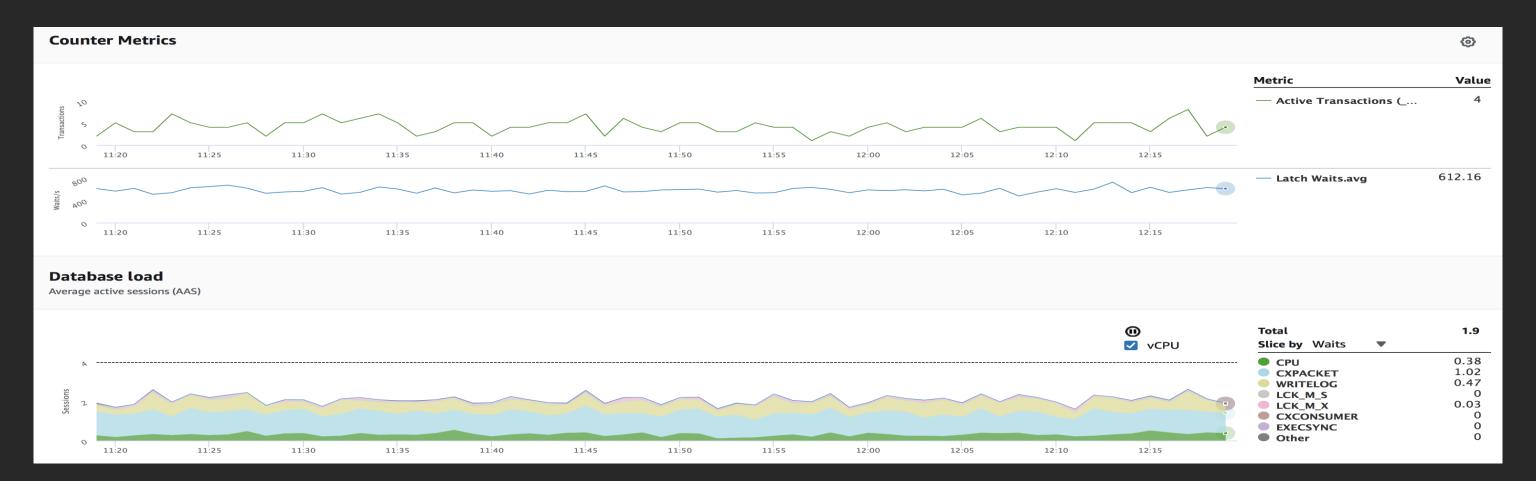
Monitoring: Performance insights

Easy-to-understand dashboard
Session and system-level monitoring
Wait event information

Free tier

Configurable retention

'0x' + SQL ID = SQL handle



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Thank you!

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