

Getting started with Amazon Aurora Serverless v2

ANUM JANG SHER

Senior Product Manager AWS RDS

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Agenda

Aurora Serverless v2 overview

Key concepts

Demo



Amazon Aurora

MYSQL- AND POSTGRESQL-COMPATIBLE RELATIONAL DATABASE BUILT FOR THE CLOUD



The fastest growing service in the history of AWS



Database capacity: Cost vs. management





Amazon Aurora Serverless v2



On-demand and autoscaling configuration

Simple pay-per-use pricing per second

Scales instantly and in finer increments

Supports even the most demanding applications

Supports the full breadth of Aurora features

Worry-free database capacity management



Architecture



Purpose-built, log-structured, distributed storage designed for cloud databases

- Separation of storage and compute
- Storage grows or shrinks based on data size
- 6 copies across 3 AZs for high availability, durability, and performance
- Compute scales independently
- 15 low-latency readers to scale reads

Database capacity



- Database scales in-place within the min/max range based on the application workload
- Capacity is measured in Aurora Capacity Unit (ACU)
- 1 ACU comes with 2 GiB of memory; CPU and networking similar to provisioned Aurora instances
- Fine-grained non-disruptively scaling with as little as 0.5 ACU (1 GiB) increments





utilization

Memory utilization Network throughput

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Predictable scaling rate

Bigger the instance, faster the scaling rate

aws

Demo: Aurora Serverless v2



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🔋 RDS Management Console 🛛 🗙 🕂			V - 0	3
← → C 🔒 us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#			🖻 🛧 🗖 🇯 🖬 🌘	8
aws Services Q Search	[Alt+S]		> 🗘 ? Oregon ▼ Admin/anujangs-Isengard @ 3927-3072-989	894 🔻
Resource Groups & Tag Editor				
Amazon RDS \times	Try the new Amazon RDS Multi-AZ deployment	option for MySQL and PostgreSQL	X]
Dashboard	instances by deploying the Multi-AZ DB cluster Le	arn more	r failover typically less than 55 seconds and, get read scalability with two readable standby DB	
Databases	Create database			
Query Editor	Or, Restore Multi-AZ DB Cluster from Snapshot			
Performance insights	5			
Snapshots				
Exports in Amazon S3	Resources		Refresh Recommended for you	
Automated backups				
Reserved instances	You are using the following Amazon RDS resources in the US West (Oregon) region (used/quota)		Implementing Cross-Region DR	
Proxies	DB Instances (0/40)	Parameter groups (0)	Learn how to set up Cross-Region disaster recovery (DR) for Aurora PostgreSQL using an Aurora global database spanning multiple Regions.	
	Allocated storage (0 TB/100 TB)	Default (0)	Learn more	
Subnet groups	Increase DB instances limit	Custom (0/100)	Amazon PDS Packup and Postore using AWS Packup	
Parameter groups	Reserved instances (0/40)	Default (0)	Learn how to backup and restore Amazon RDS databases using AWS	
Option groups	Snapshots (0)	Custom (0/20)	Backup in just 10 minutes. Learn more	
Custom engine versions	Manual	Subnet groups (0/50)	Tast Your DD Strategy in Minutes	
	DB Cluster (0/100)	Supported platforms VPC	Amazon Aurora Global Database now supports planned managed	
Events	DB Instance (0/100)	Default network vpc-00fe7dd7e1976287e	failover, making disaster recovery drills a breeze. Learn more	
Event subscriptions	DB Cluster (0)		Minute SCRC to DDC for COL Comme	
event subscriptions	DB Instance (0)		Learn how you can migrate existing SSRS content to an Amazon RDS for	
	Recent events (0)		SQL Server instance using a PowerShell module. Learn more	
Recommendations 0	Event subscriptions (0/20)			_
Certificate update				
	Create database		Additional information	
			Getting started with RDS	
	Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database in the cloud.		Overview and features	
	Restore from S3 Create database		Documentation Articles and tutorials	
	Note: your DB instances will launch in the US West (Oreg	on) region	Articles and cutonais	



Thank you!

Anum Jang Sher @anumjangsher

