

Two Ways of Deploying PostgreSQL to AWS

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- Why AWS?
- Better together!
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- Second way to deploy - Aurora for PostgreSQL
- QA session
- Networking

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- ❖ Graduated Polytechnic University, BS and MS
- ❖ Cloud and DevOps: 7+ years
- ❖ IT experience: 26+ years
- ❖ I love reading, traveling, and spending time with my family ==>



Why PostgreSQL?

- PostgreSQL is the most respected name in the open source database space
- Project development started in 1986
- PostgreSQL is one of the most popular open source DBMS
- PostgreSQL is better suited for enterprise-level applications with frequent write operations and complex queries

Why AWS?

- AWS was the first cloud provider - Amazon S3 and Amazon EC2 were launched in 2006
- Global reach - 37 Geographic Regions
- Scalability - Amazon EKS enables ultra scale AI/ML workloads with support for 100K nodes per cluster
- Security and high availability - Amazon's AWS Shield service mitigated the largest DDoS attack ever recorded at the time, a massive 2.3 Tbps (Terabits per second) in February 2020

Better together!

- AWS contributes to open source projects a lot and PostgreSQL is the one of them
- PostgreSQL released on Amazon on the same day as official releases
- There are 2 main ways to deploy PostgreSQL on AWS:
 - ❑ RDS
 - ❑ Aurora

First way to deploy - RDS

- Managed deployments - launch and connect to a production-ready PostgreSQL database in minutes
- Fast, predictable storage - Consistent performance of up to 40,000 IOs per second(Provisioned IOPS)
- High availability - Amazon RDS Multi-AZ
- High scalability - up to a maximum of 128 vCPUs and 4,096 GiB of RAM
- Backup and recovery - point in time within your specified retention period of up to 35 days

Second way to deploy - Aurora

Has all the features or RDS, plus:

- Full PostgreSQL compatibility - no code change
- High performance - 3x faster PostgreSQL with the same HW
- Global Scale - cross-Region replication and disaster recovery in less than 1 minute
- Cost effective - Aurora serverless can scale up and down to 0

Questions ?

Thank you!

Networking!

