## aws re: Invent

#### DAT401-R

# Running on-premises and cloud databases with Amazon RDS on VMware

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## Agenda

Introduction: What is Amazon Relational Database Service (Amazon RDS) on VMware?

Getting started – Using the installer

Creating your first database

Demo

Q&A

## Introduction





# Customers want the same experience across on-premises and the cloud











Managed, available, reliable, secure, and highperformance databases Same operational consistency

Same services and APIs

Same tools for automation, deployments, and monitoring

Same pace of innovation as in the cloud

## Why Amazon RDS on-premises?



Databases that are managed, monitored, and operated by AWS.

Reduce operational cost and improve DBA efficiency



Single pane of management using the same APIs, automation, and tools on premises and in AWS Regions



Easily manage a hybridcloud database fleet and future-proof your database investment

### Amazon RDS on VMware

#### Deploy managed databases in on-premises environments

#### **Easy to administer**

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

#### Performant & scalable

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

#### Available & durable

Health monitoring detects and recovers unhealthy instances; automated backup, snapshots, and failover

## Leverages existing infrastructure

Uses familiar VMware infrastructure and operations tooling

## Database engine versions supported

Available in us-east-1 (N. Virginia) Region

MySQL 5.7

PostgreSQL 10.9

Microsoft SQL Server 2016 SP2 Enterprise Edition (On-premises customer provided media and license)

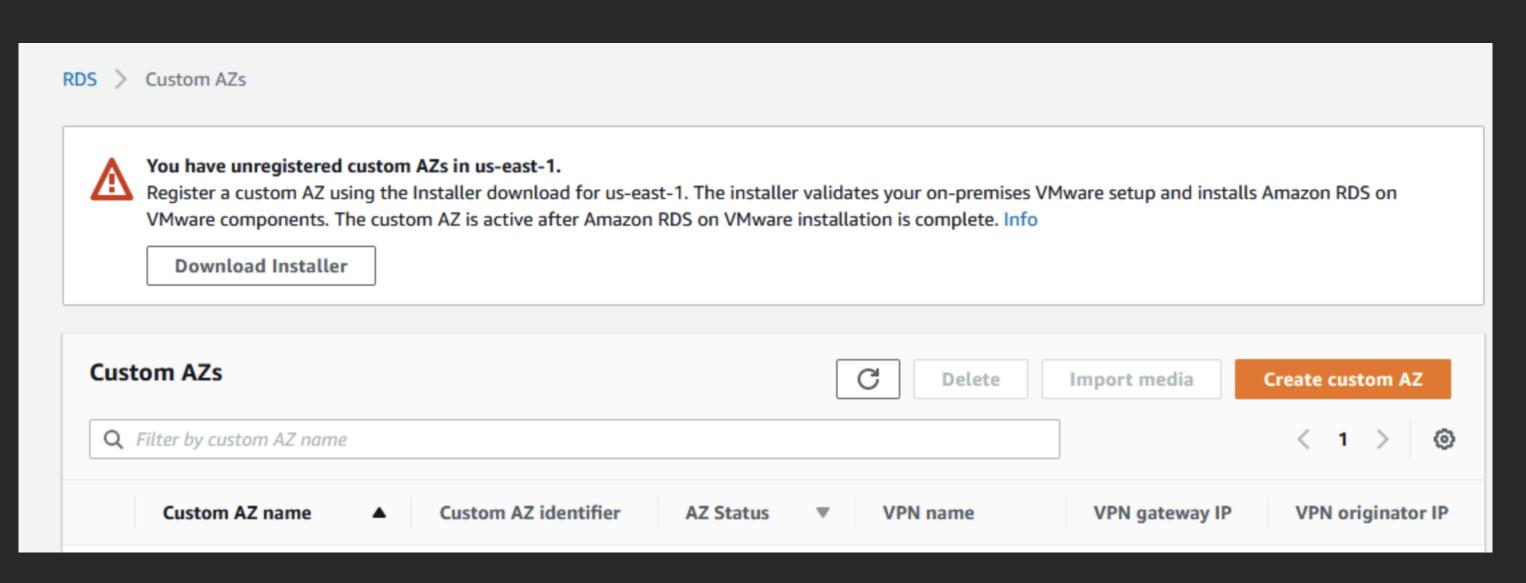
# Getting started





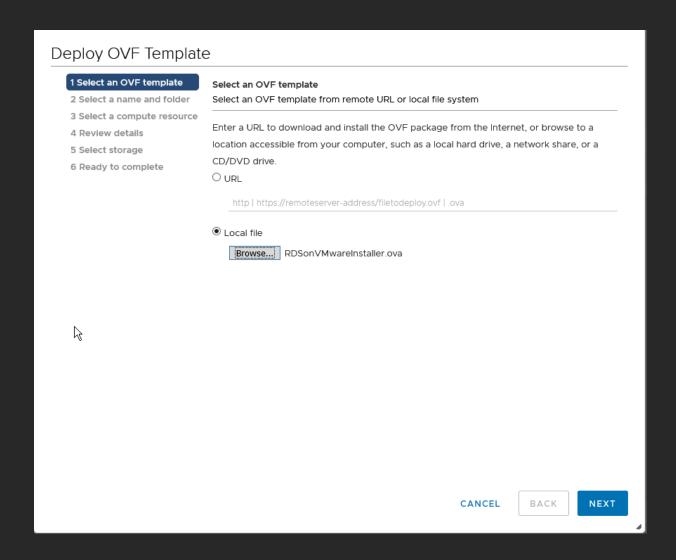
## Getting started to use the service

Create Custom AZ and download Installer to onboard on-premises vSphere cluster



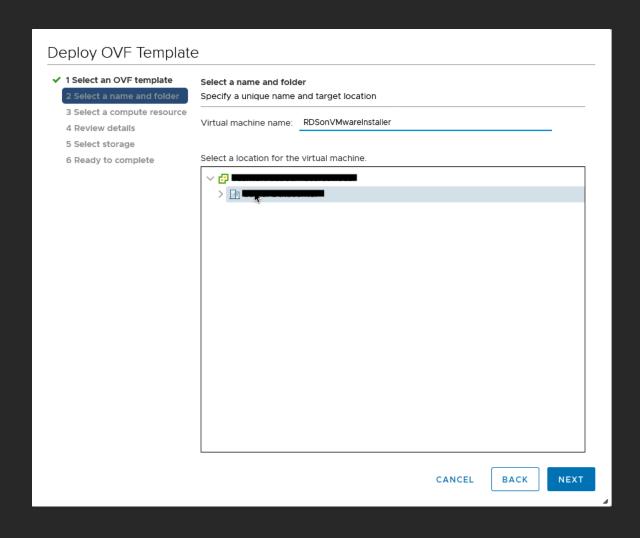
## Getting started – Using the installer

Deploy installer VM in on-premises vCenter

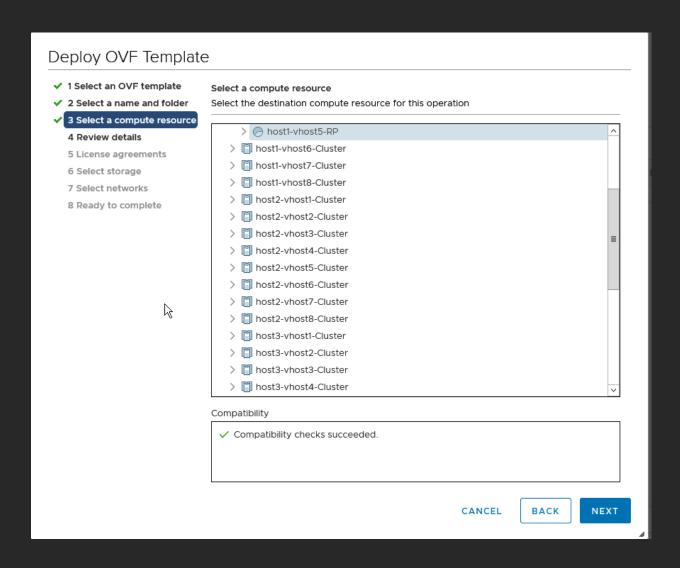


## Getting started to use the service - continued

Select the data center

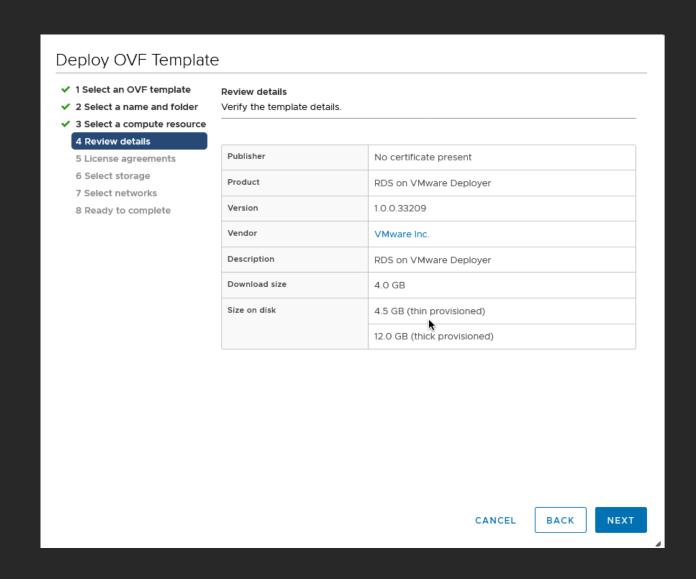


# Getting started to use the service - continued Select the cluster



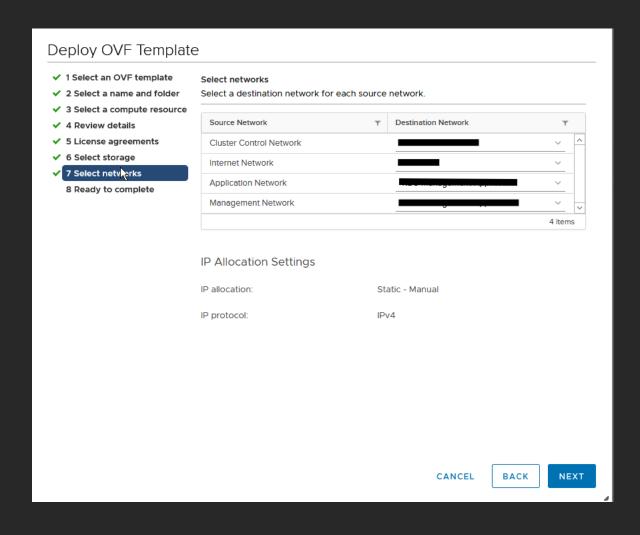
## Getting started to use the service - continued

Review details

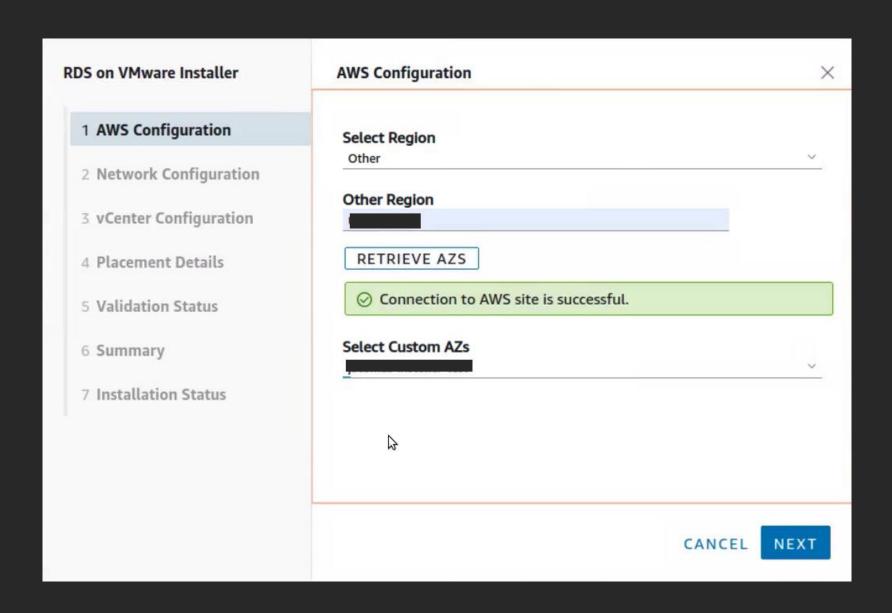


## Getting started to use the service - continued

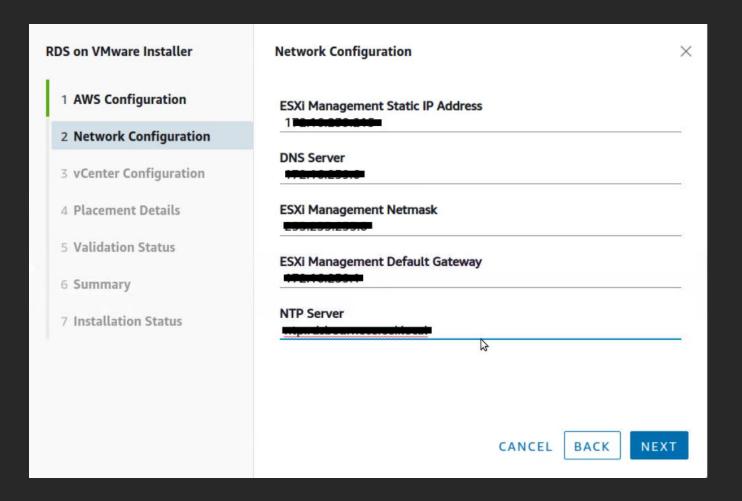
Select the networks



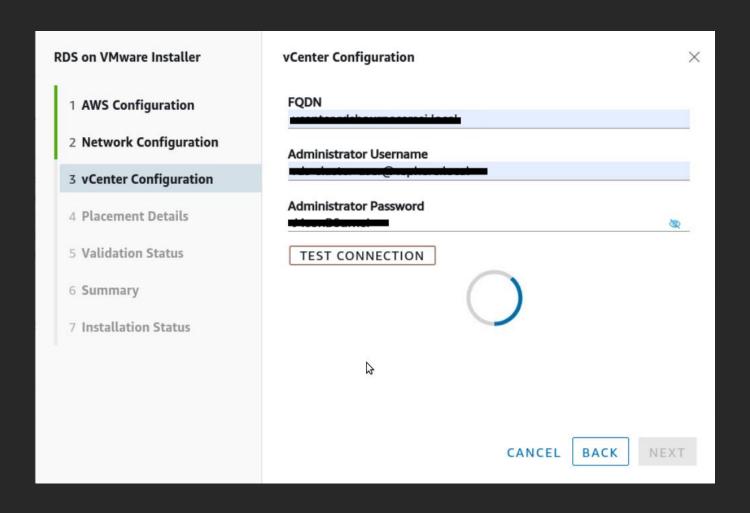
### Enter AWS configuration



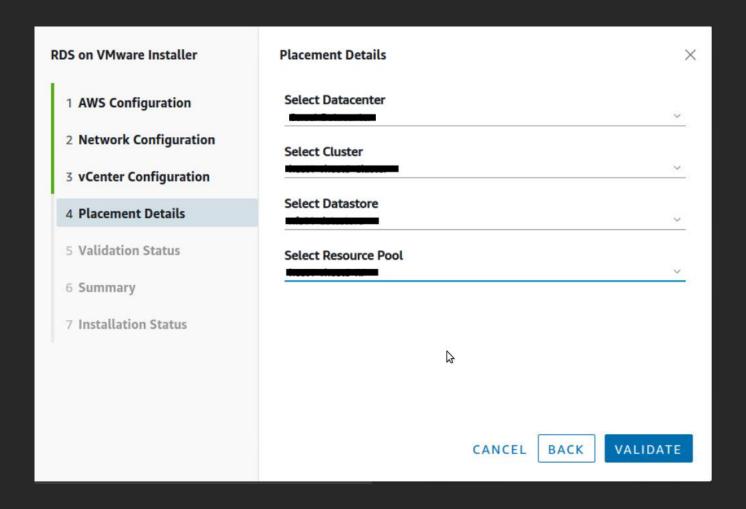
#### Enter network configuration



### Enter vCenter configuration

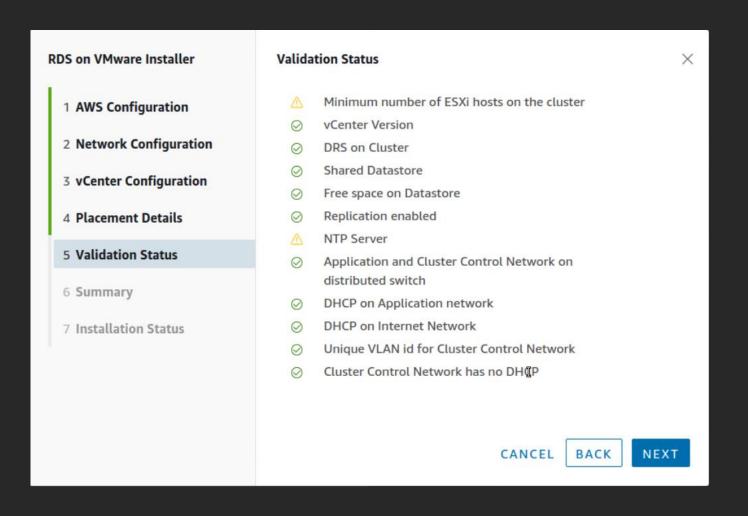


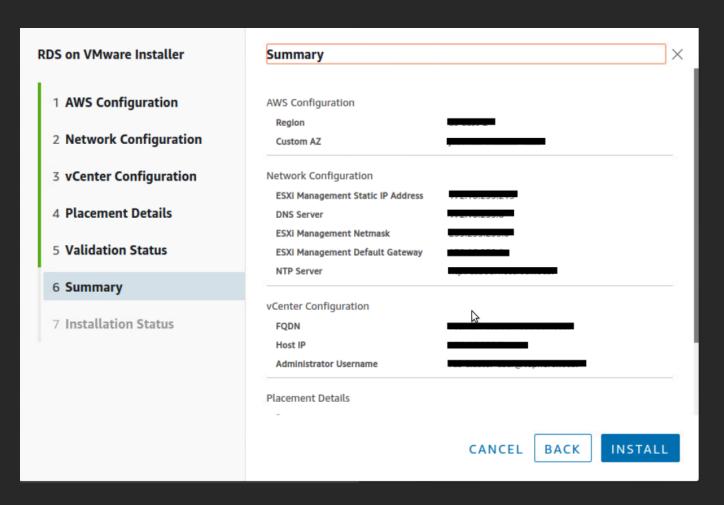
#### Enter placement details



# See installer setting up onboarding environment for you

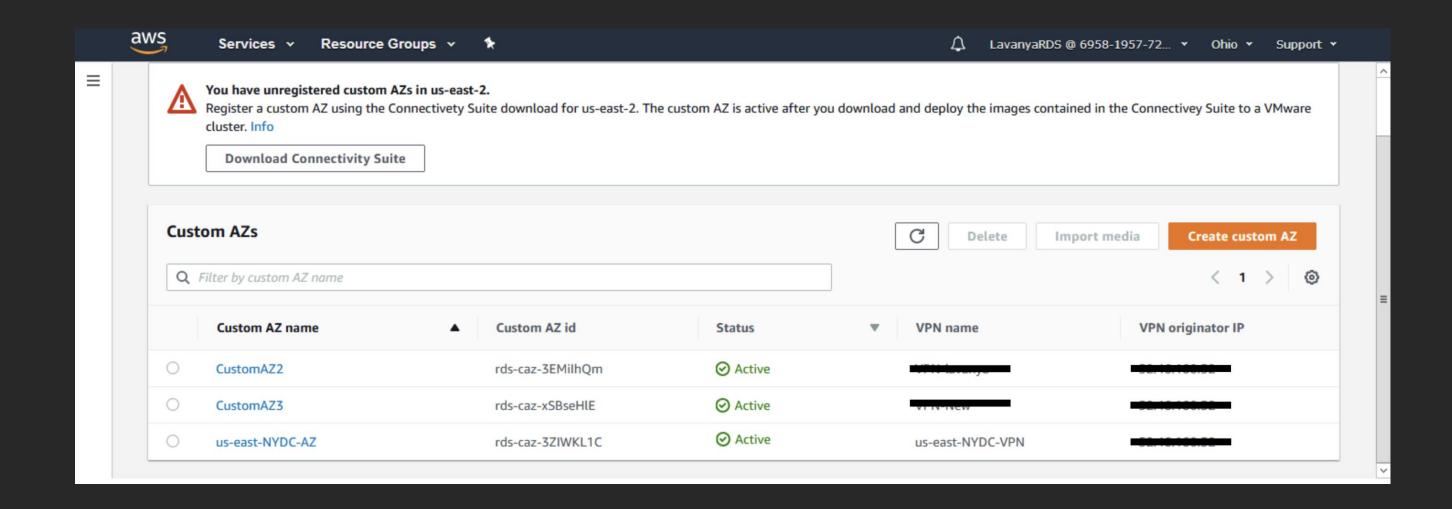
#### Validate your settings





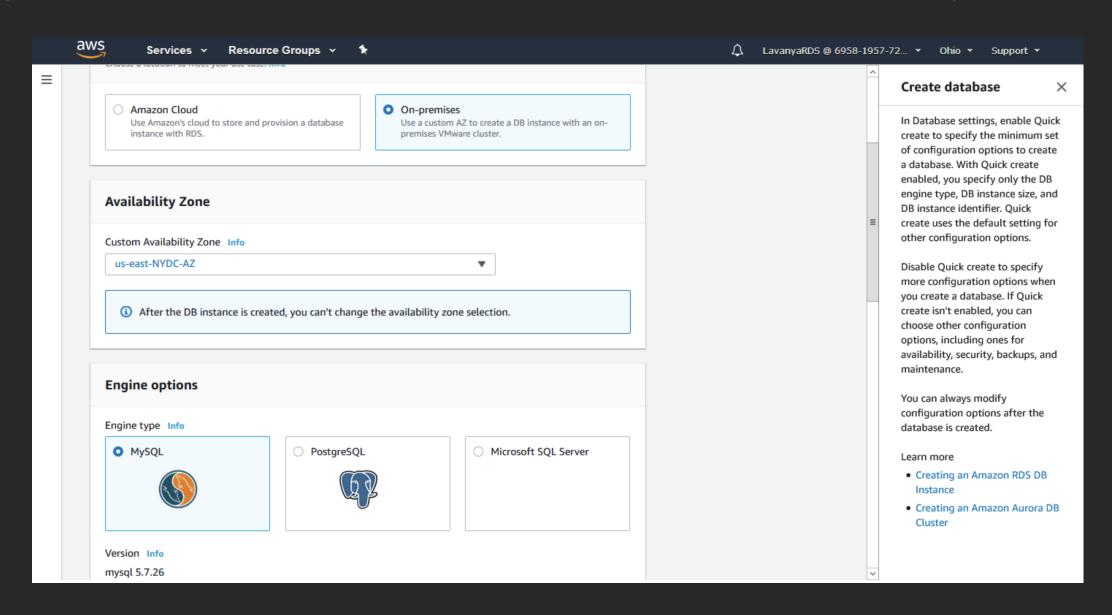
### Custom AZ is active

#### Installer will bring the custom AZ active



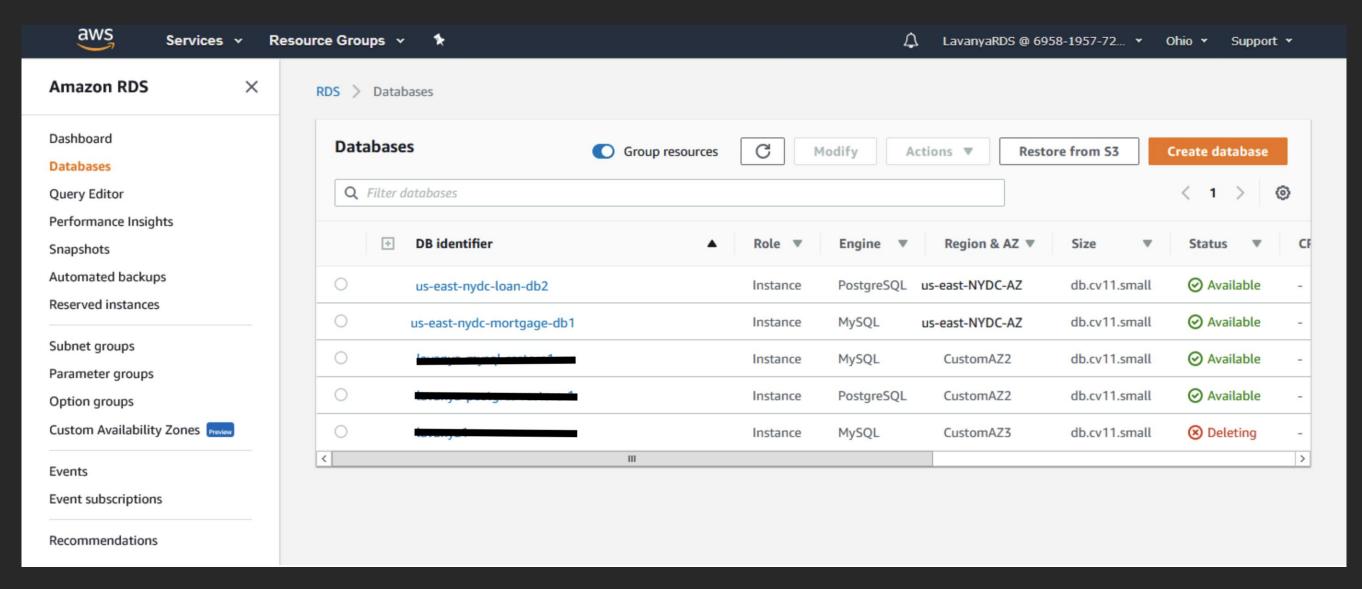
## Create on-premises database

#### Select your active custom AZ and choose the database type



### Database is active

#### After a few minutes, database is active



## Other features once the database is active

Take snapshot

Take point-in-time recovery

See Amazon CloudWatch metrics for your on-premises database

Reboot, rename your database

## Demo





# Questions?





## Related breakouts

[DAT401-R1 - [Running on-premises databases with Amazon RDS on VMware] 12-4-2019, 3:15 PM, Mirage, Antigua B

Feel free to reach out at rds-hybrid@amazon.com

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# Thank you!

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