AWS re:Invent

DAT383

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 high-performance 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 hybrid-cloud 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

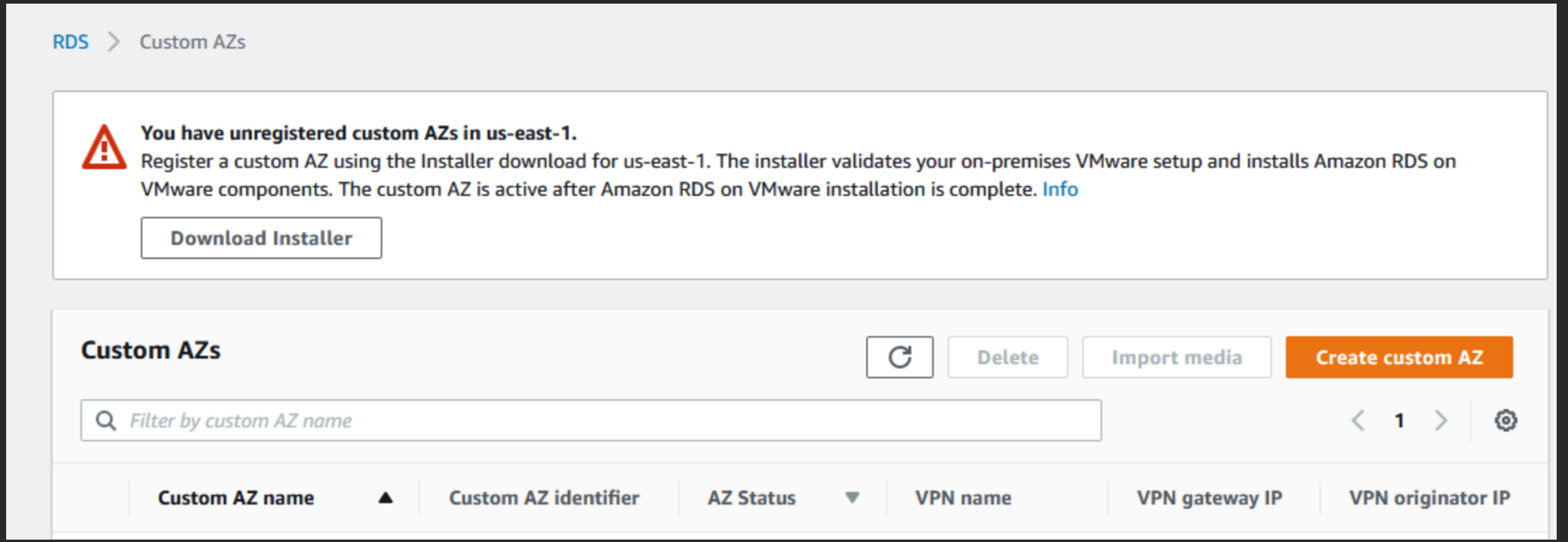
PostgreSQL 10.9

Microsoft SQL Server 2006 SP2 Enterprise Edition (On-premises customer provided media and license)

Getting started

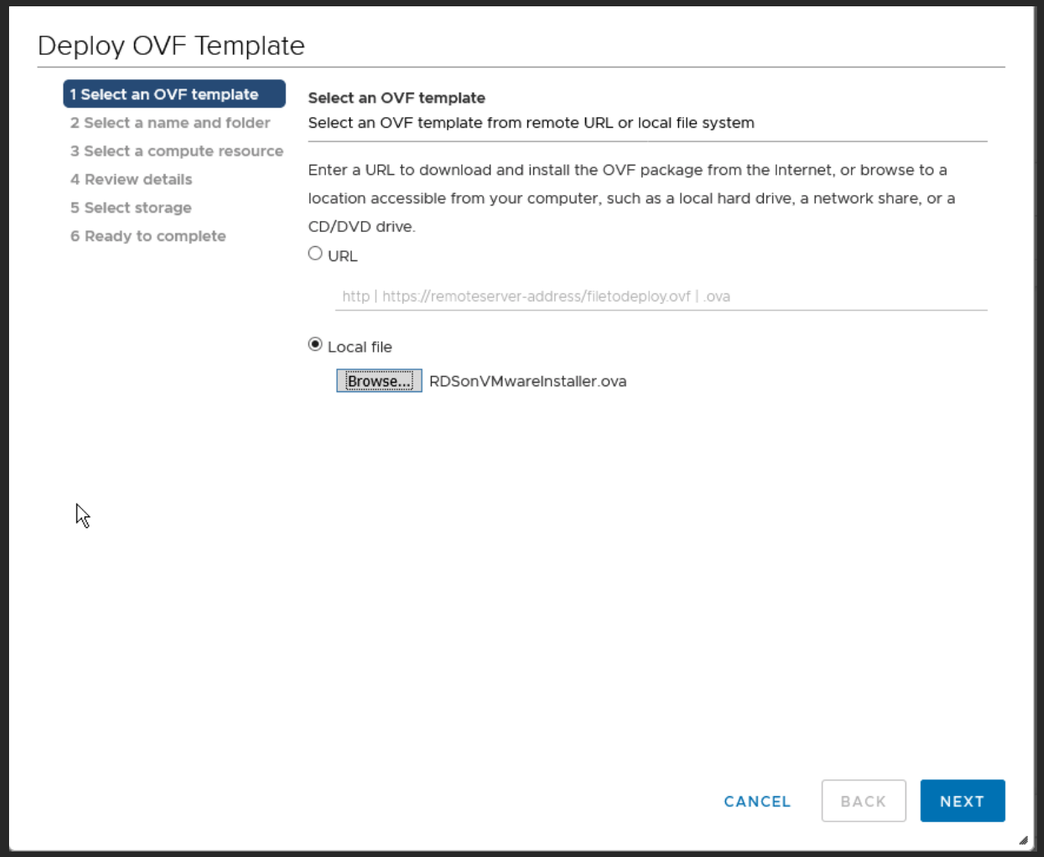
Getting started to use the service

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



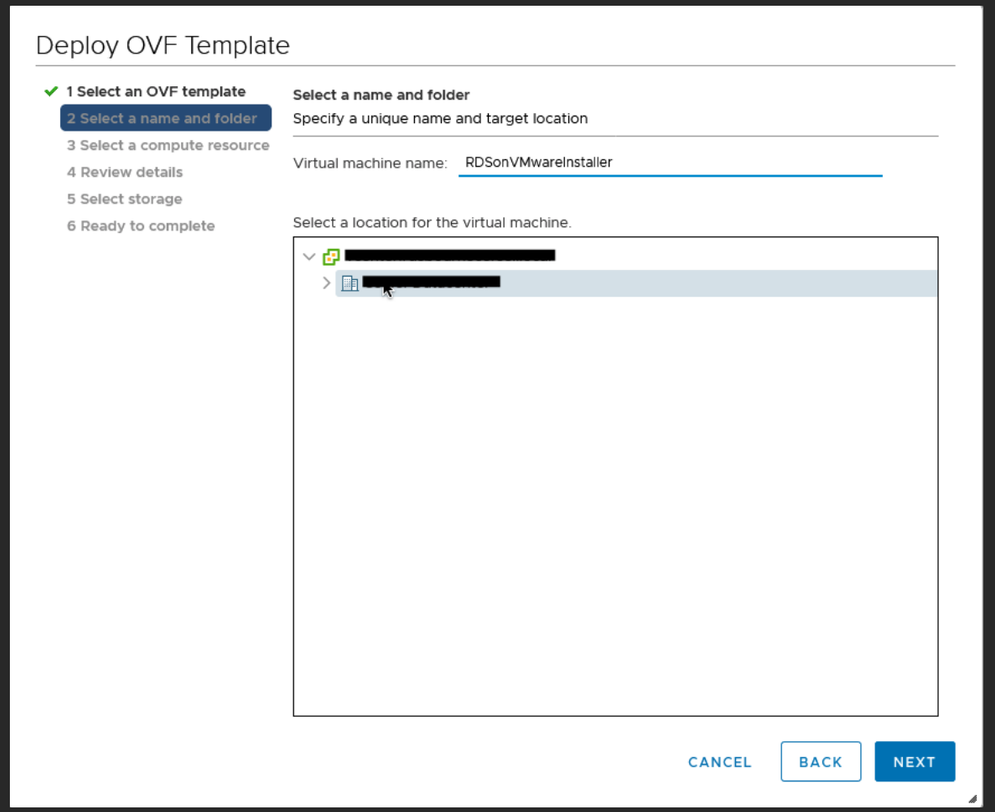
Getting started – Using the installer

Deploy installer VM in on-premises vCenter



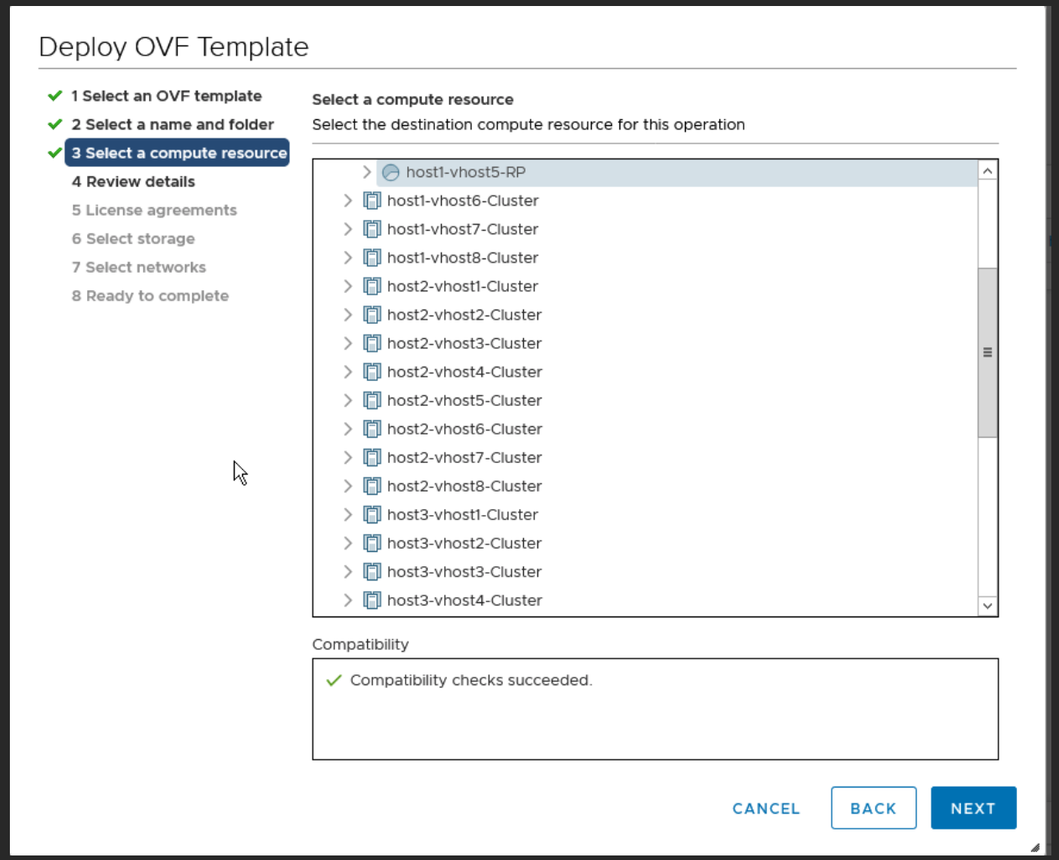
Getting started to use the service - continued

Select the data center



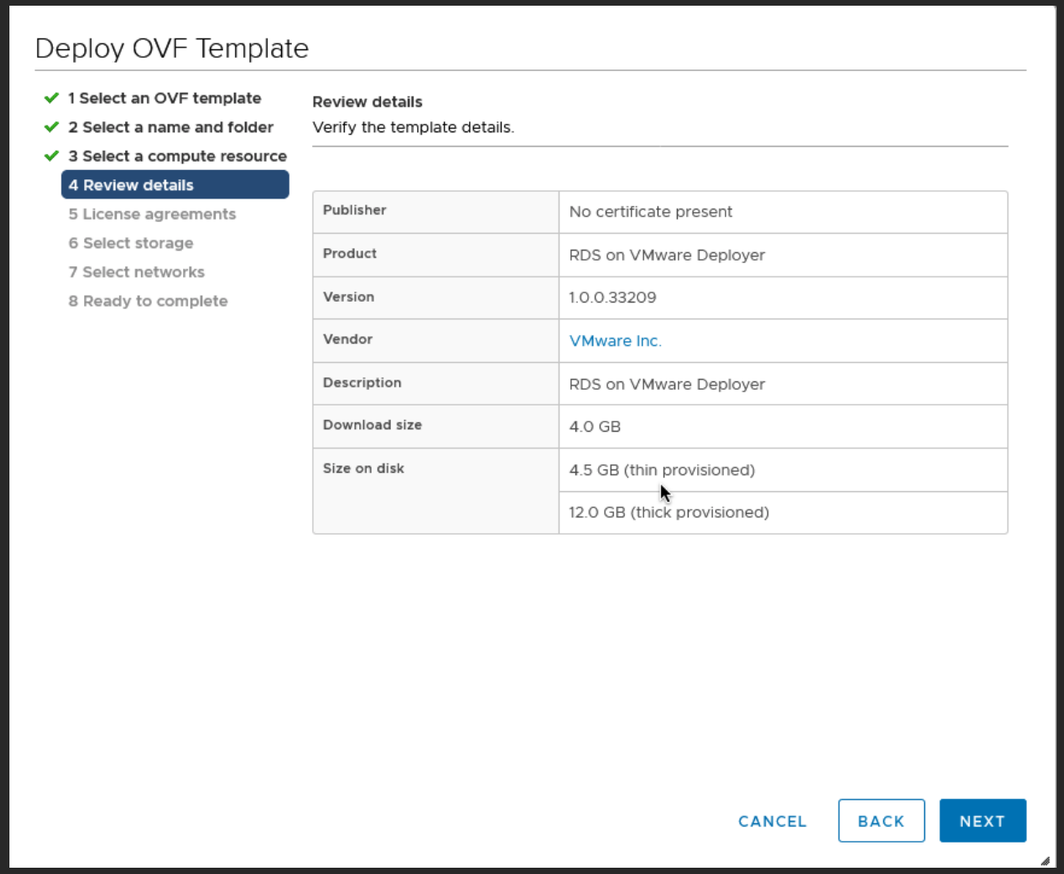
Getting started to use the service - continued

Select the cluster



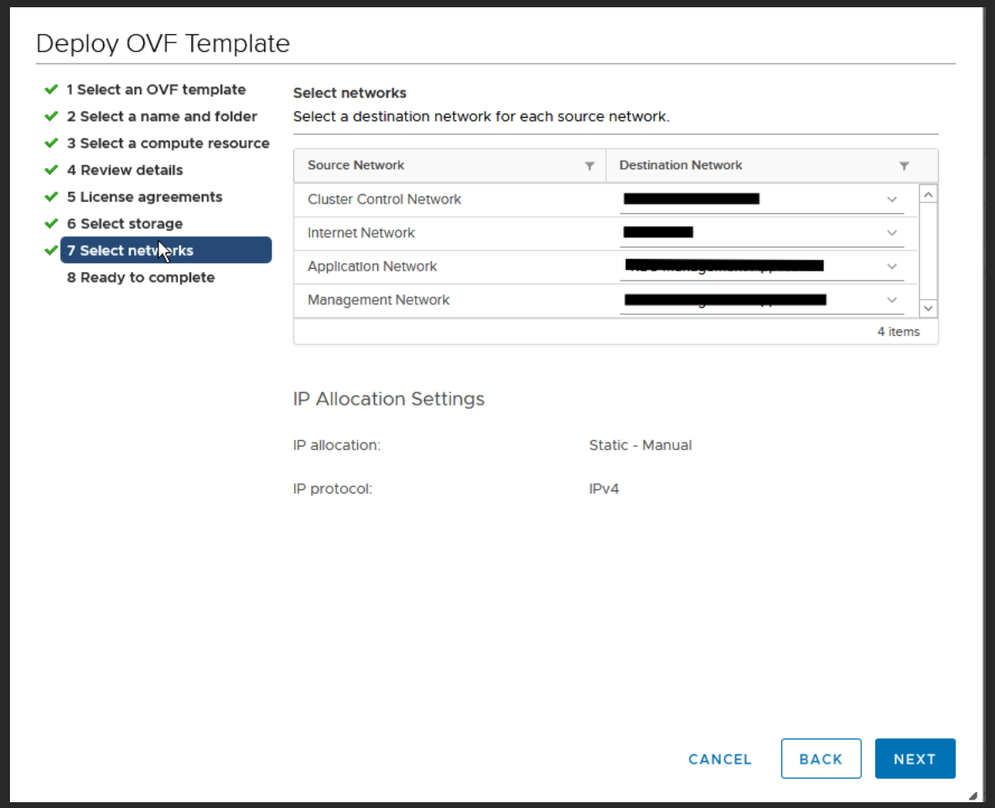
Getting started to use the service - continued

Review details



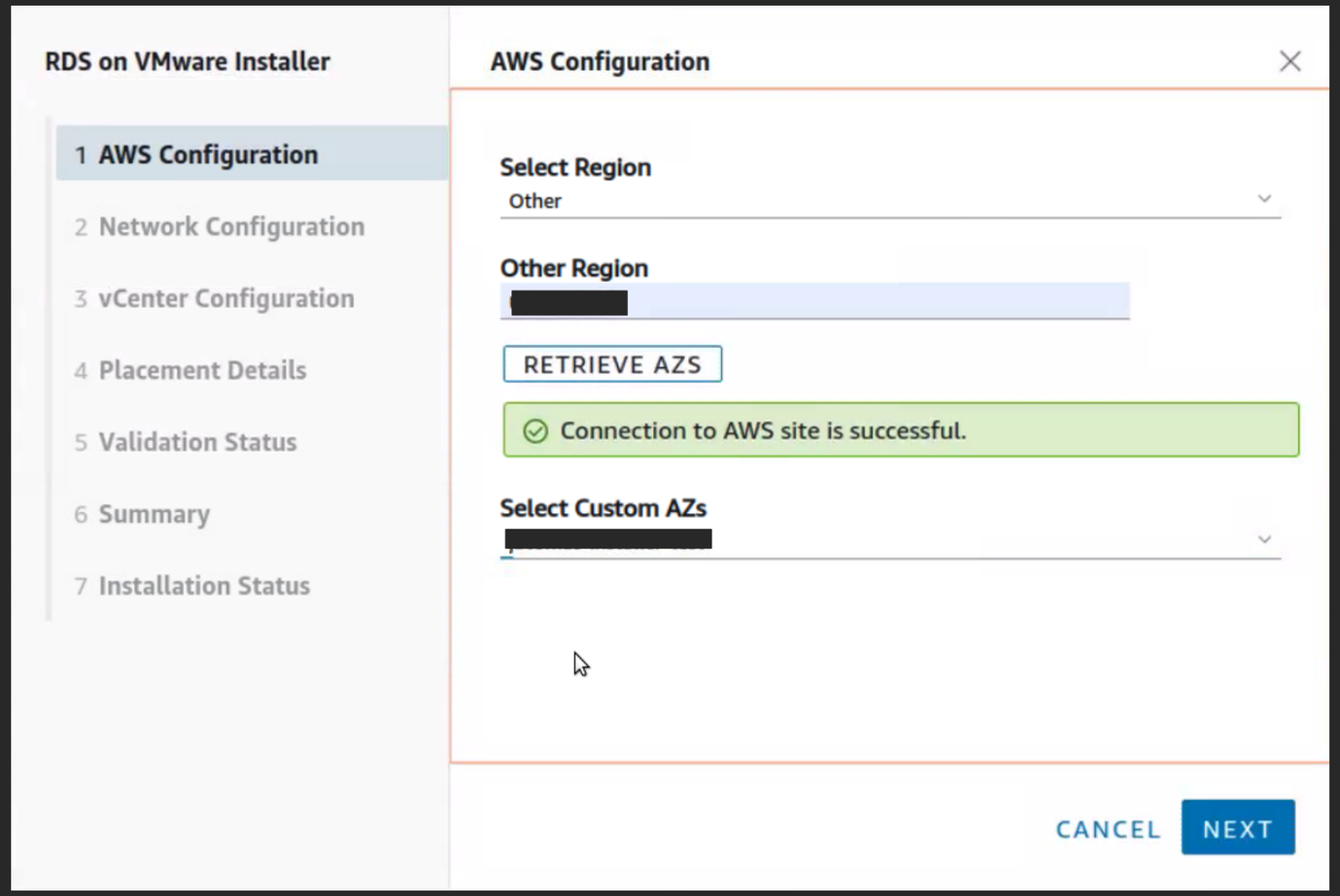
Getting started to use the service - continued

Select the networks



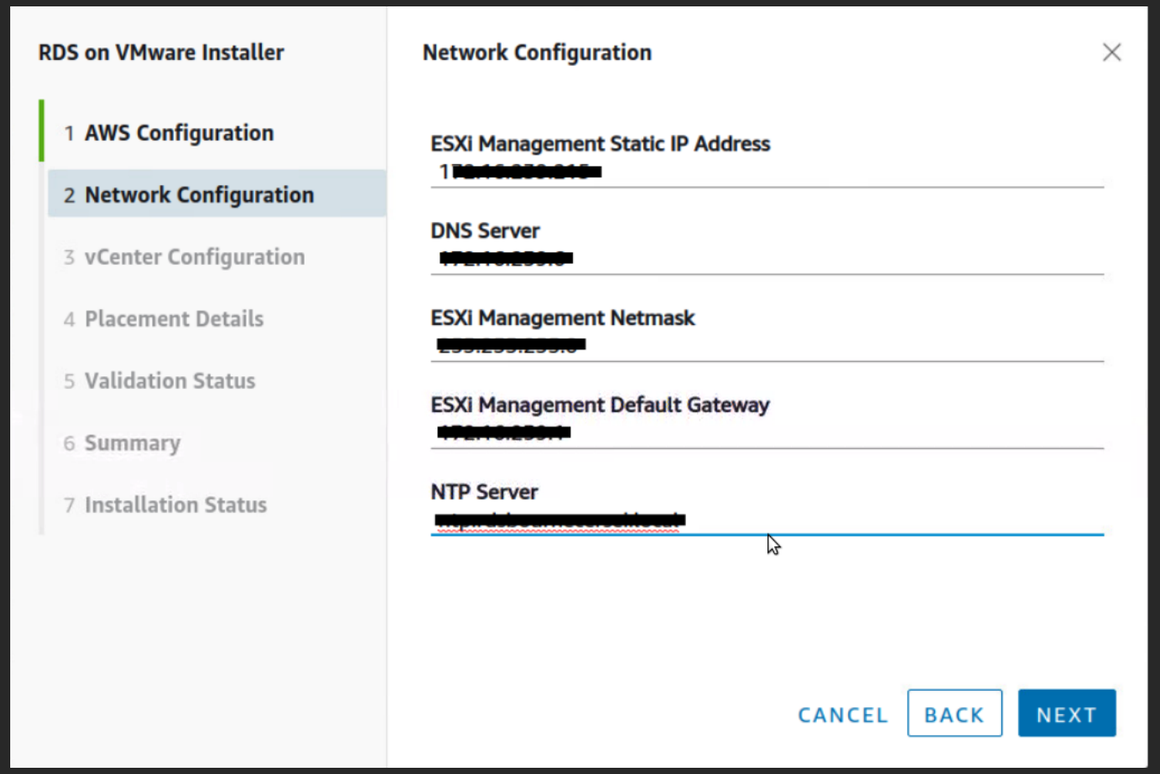
Run installer – Configuration

Enter AWS configuration



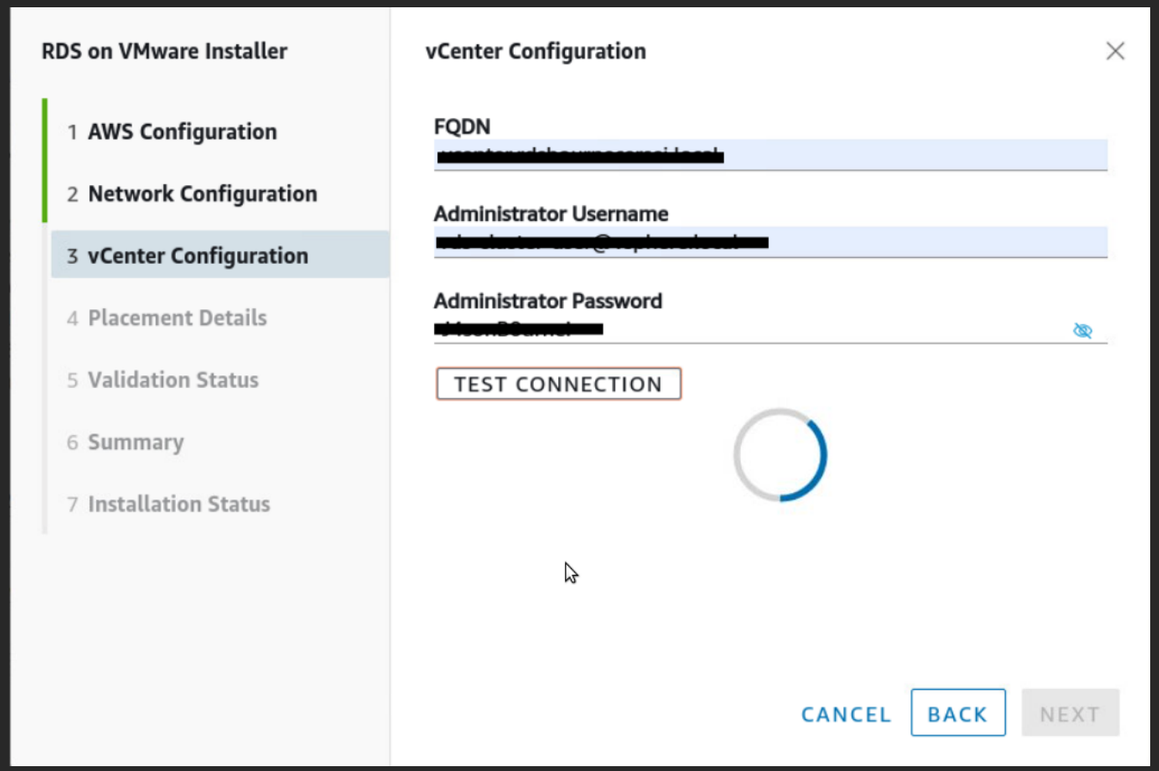
Run installer – Configuration

Enter network configuration



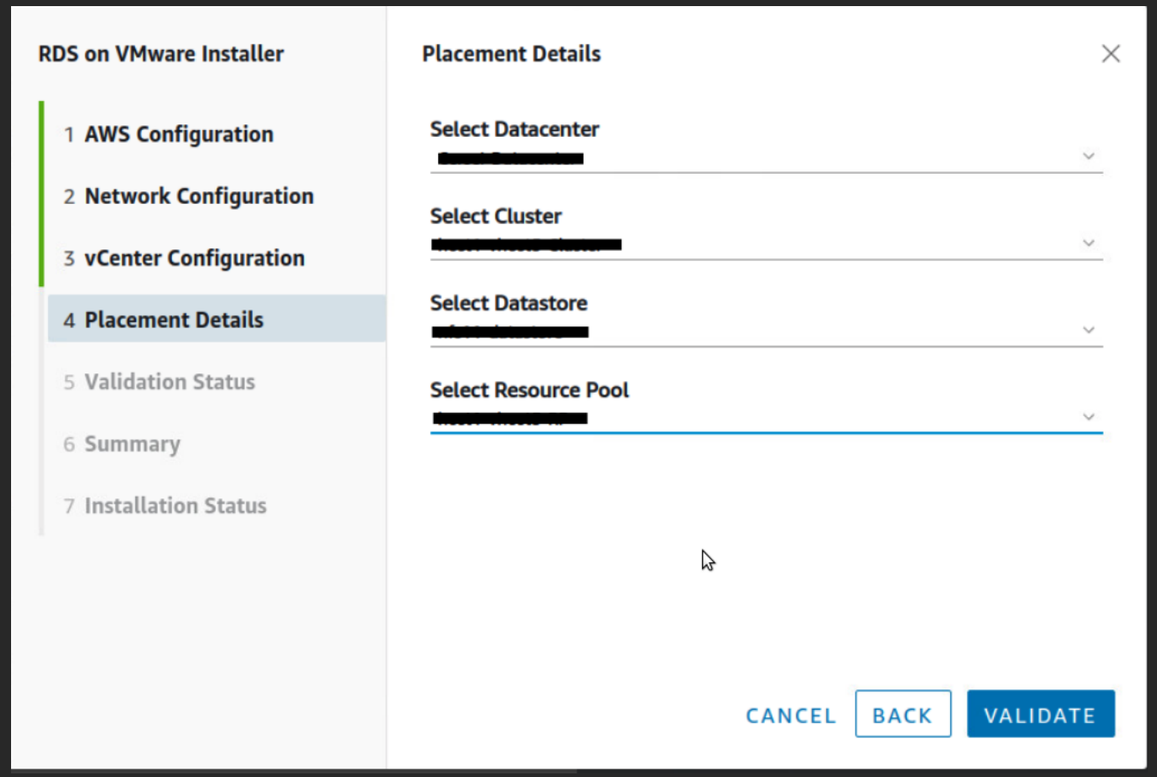
Run installer – Configuration

Enter vCenter configuration



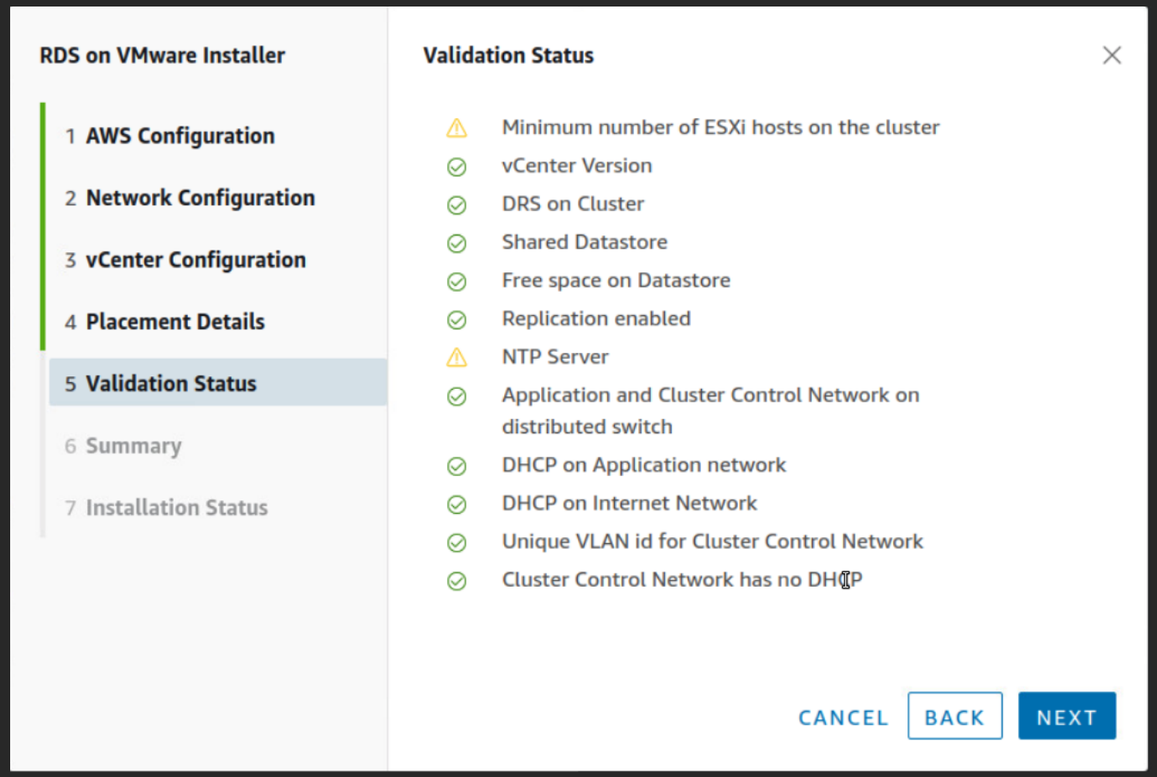
Run installer – Configuration

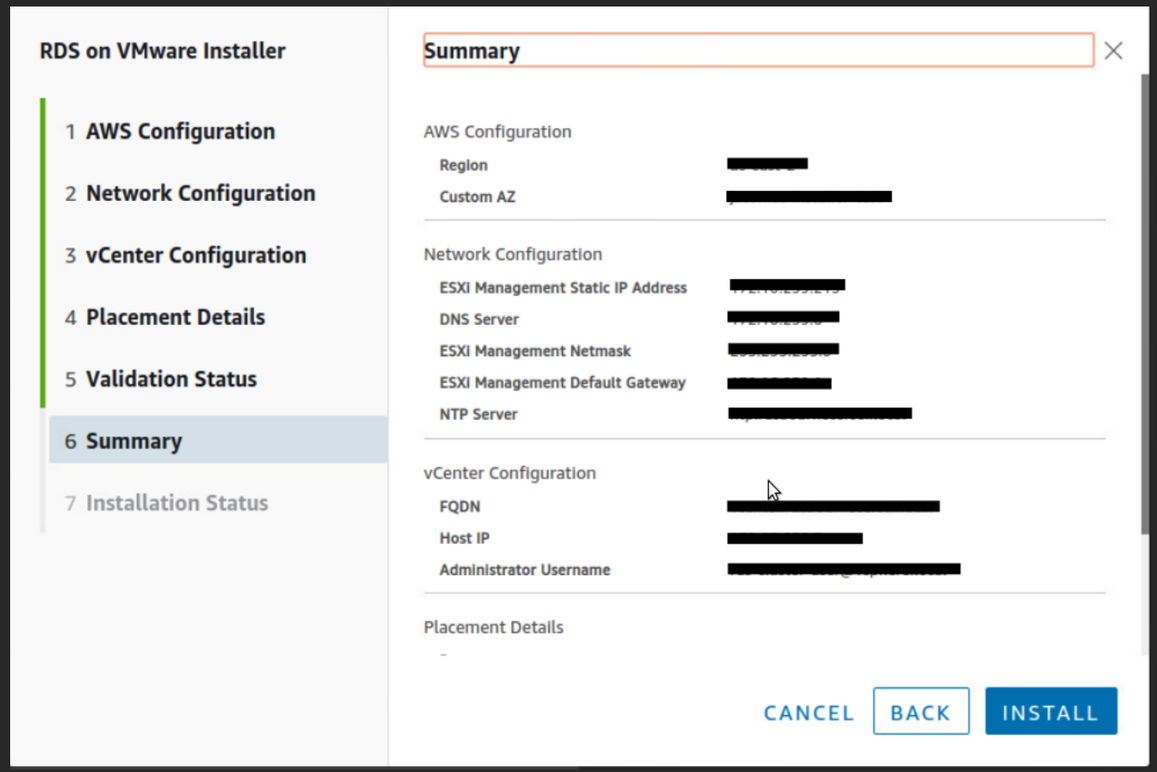
Enter placement details



See installer setting up onboarding environment for you

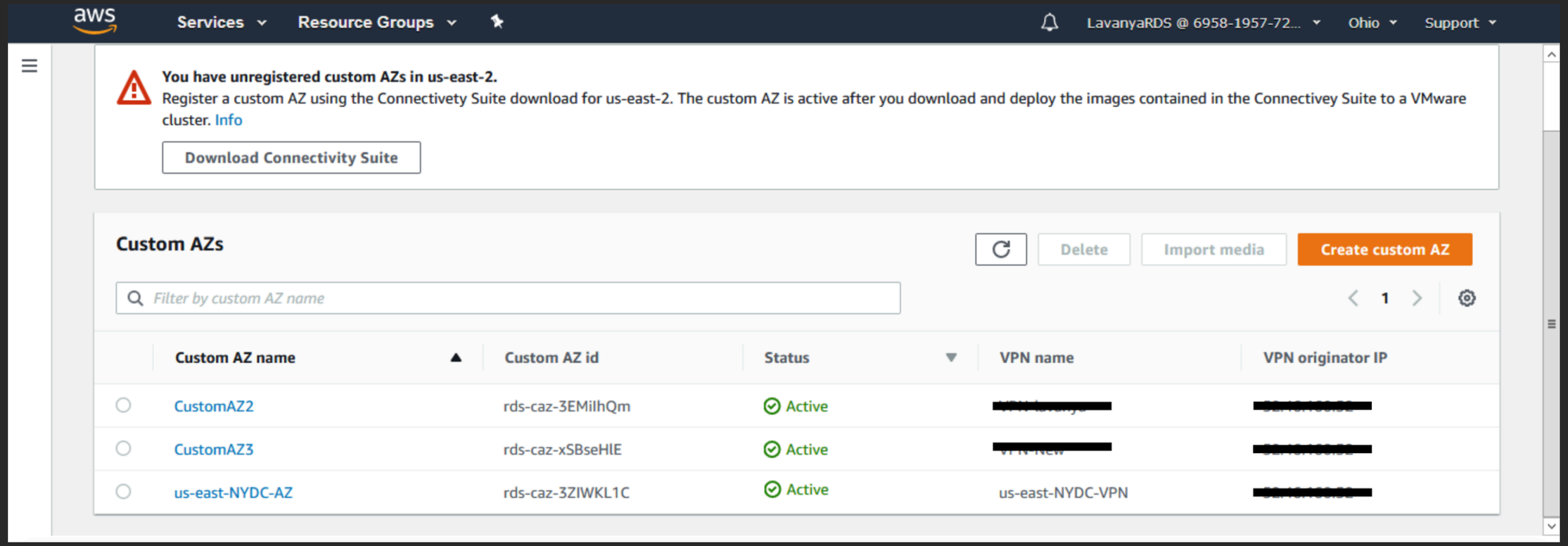
Validate your settings





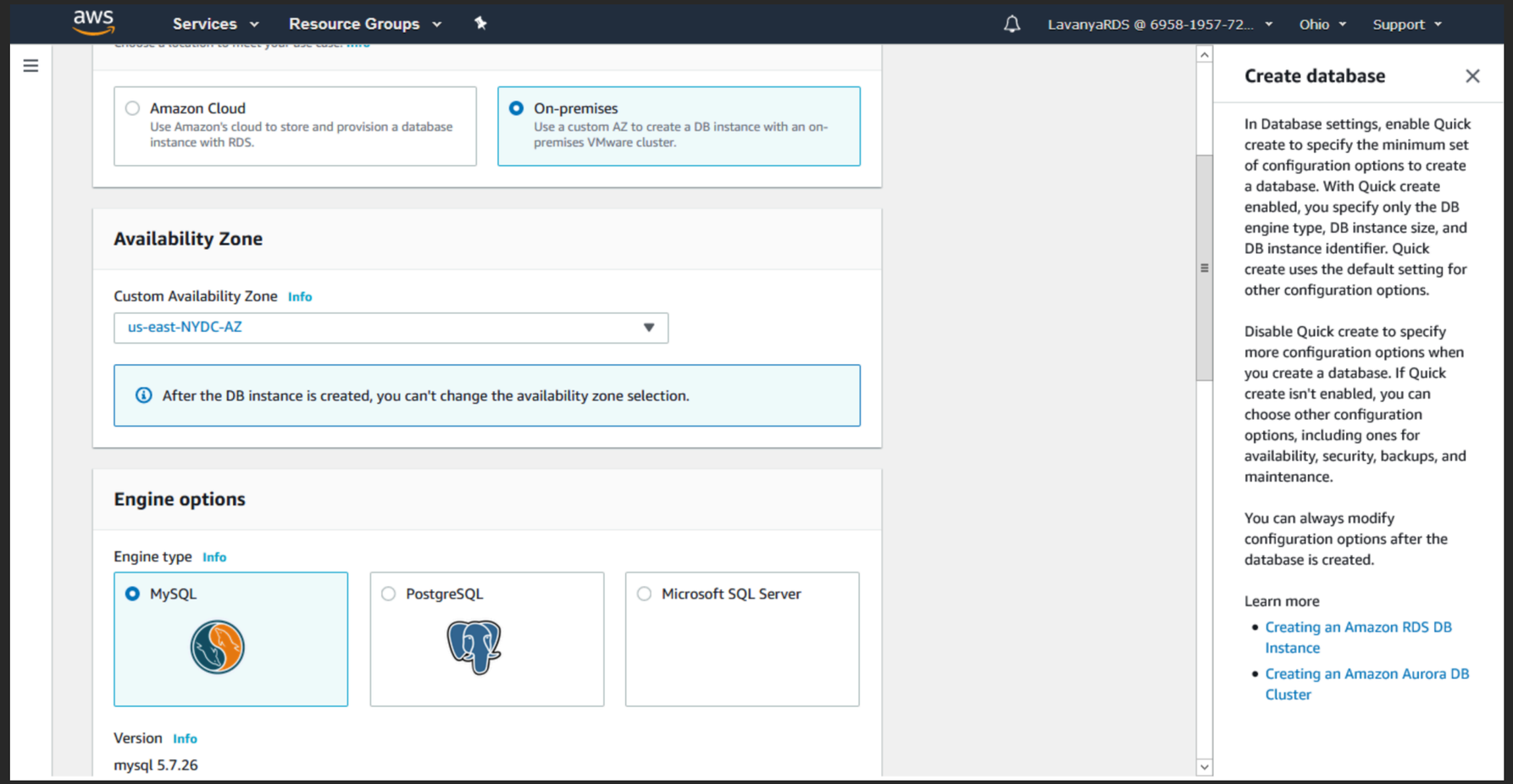
Custom AZ is active

Installer will bring the custom AZ active



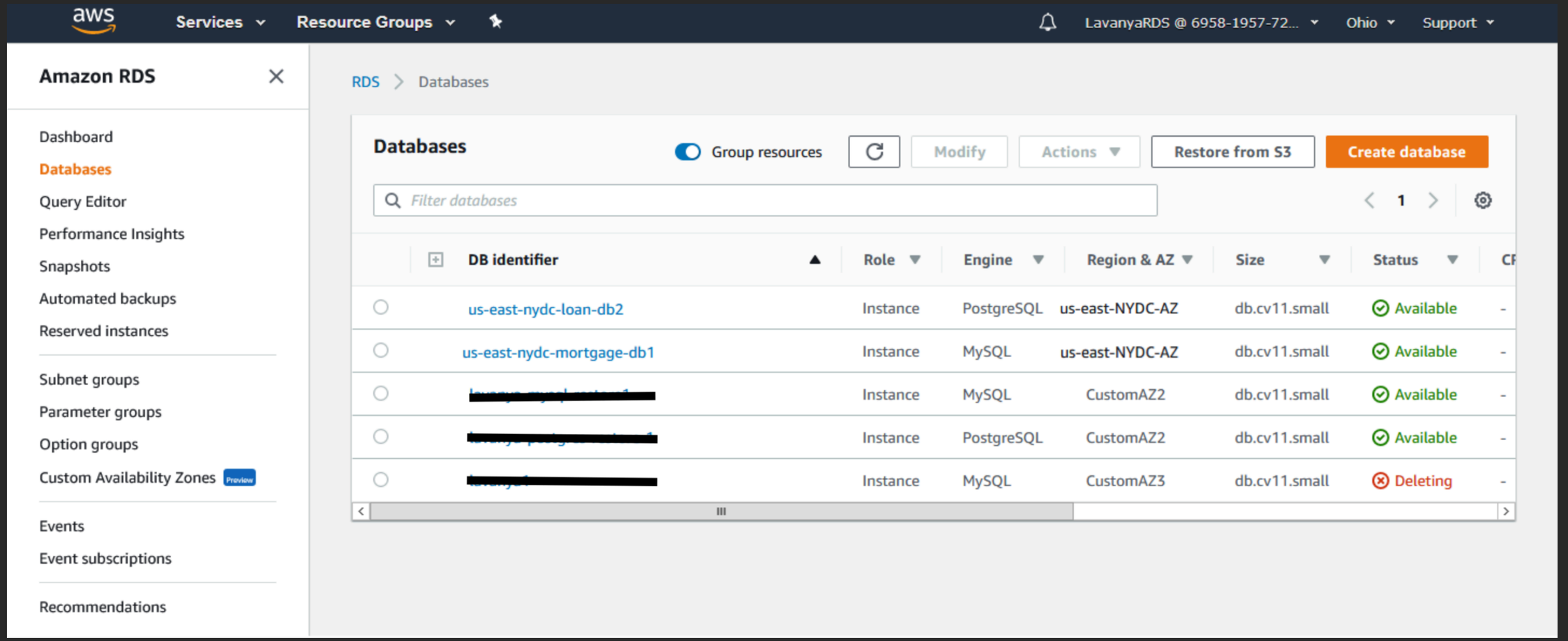
Create on-premises database

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-R] [Running on-premises databases with Amazon RDS on VMware]

[DAT401-R1 - [Running on-premises databases with Amazon RDS on VMware]

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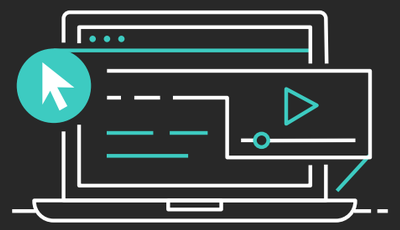
Resources created by the experts at AWS to help you build and validate database skills



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Thank you!

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