
AWS
re:Invent
DECEMBER 2 – 6, 2024 | LAS VEGAS, NV

NFX305

How Netflix autopilots migration from Amazon RDS to Aurora at scale

Julia Peng
(she/her)
Customer Solutions Manager
Amazon Web Services

Ram Srivatsa Kannan
(he/him)
Software Engineer
Netflix

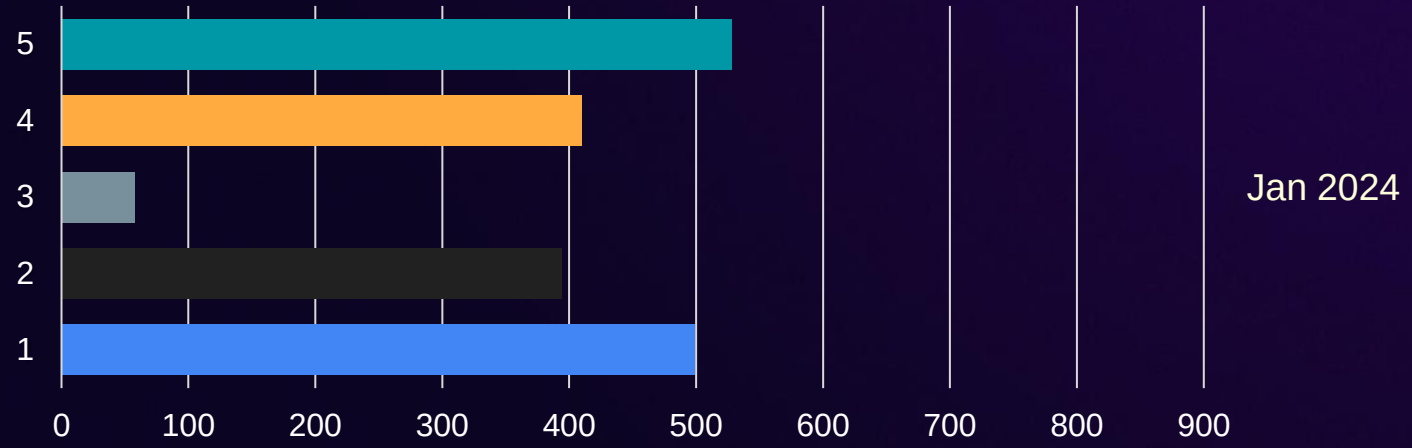
Shengwei Wang
(he/him)
Software Engineer
Netflix

Agenda

- Introduction
- Why Amazon Aurora PostgreSQL
- Aurora PostgreSQL at Netflix
- Migration & challenges
- Whiteboard session
- Feedbacks & Takeaways

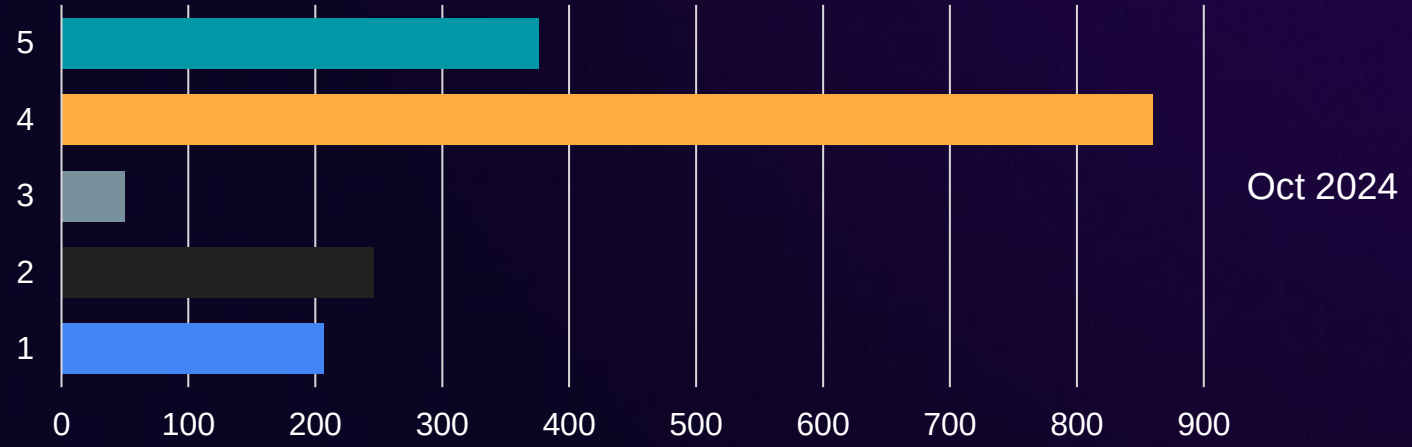
Introduction

- Netflix infrastructure engineering – online data stores
- ~2,000 clusters/instances
- Content/platform/billing/studio



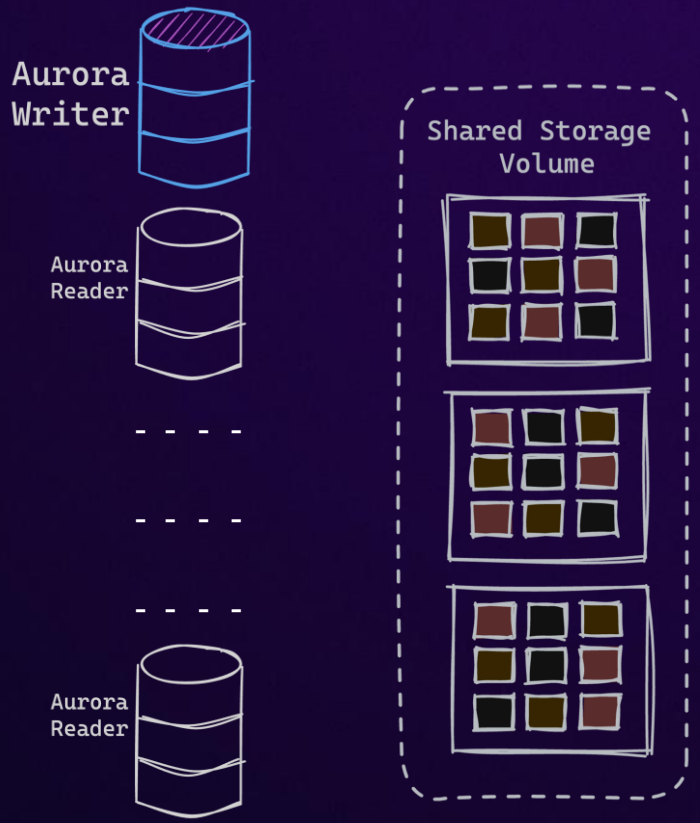
Introduction

- Netflix infrastructure engineering – online data stores
- ~2,000 clusters/instances
- Content/platform/billing/studio



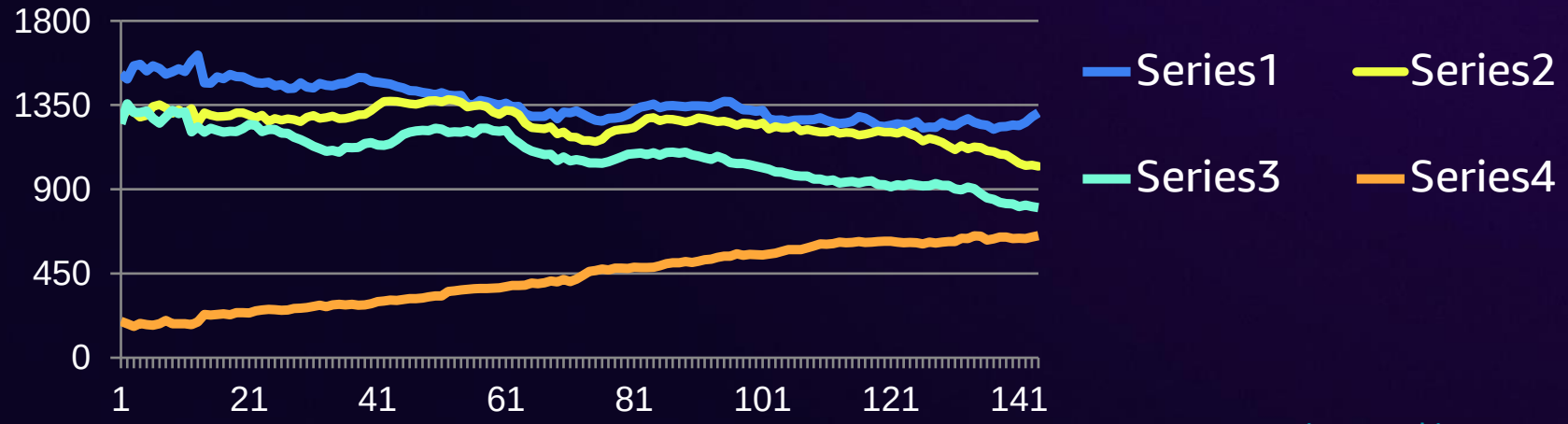
Why *Aurora* PostgreSQL

- Operates at Netflix scale
- Innovative architecture
- Global database



Why Aurora *PostgreSQL*

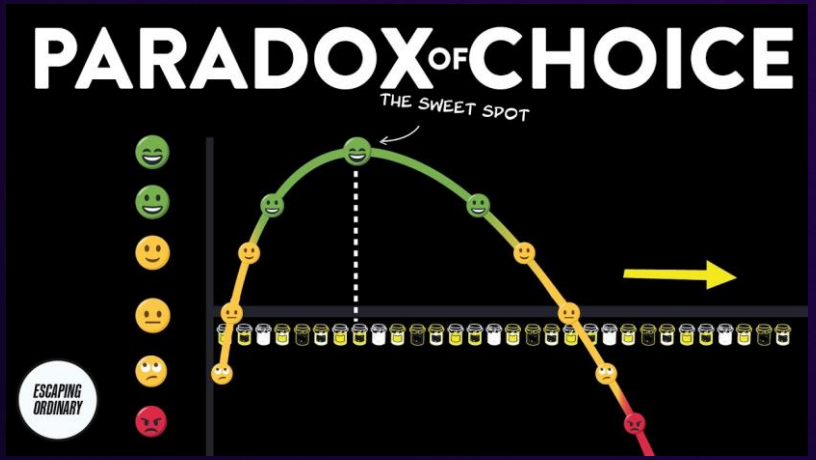
- Netflix trends
- Industry trends
- A bet, 2-way door decision



DB-Engines Ranking

Aurora PostgreSQL at Netflix

- Paved Path Offering
- One Platform Opinionated Choice



Migration and challenges

- Strategy
- ROI
- Expectations

Migration and challenges

- 500+ Scattered Usage Pattern
- No access to RDS credentials
- No control over client application
- No DBA

What did Netflix do?

To the whiteboard

Feedbacks and takeaways

- “Smoothest migration ever”

- Consider ROI with Automation
- Focus on Common Pattern
- Finding Definitiveness

Thank you!

Please complete the session survey in the mobile app

Julia Peng
Juzpeng@amazon.com

Ram Srivatsa Kannan
ramsrivatsak@netflix.com

Shengwei Wang
shengweiw@netflix.com