ORACLE

AUTONOMOUS DATABASE

LEARNING LOUNGE

Migration to ADB Part I: Visualize and Evaluate your entire database estate with Oracle Estate Explorer

Autonomous Database Learning Lounge

Hosted by Marcos Arancibia

Autonomous Database Product Management

Agenda

Simon Griffiths **Paul Brankin**

Topics

- Quickly identifying the best Oracle databases to migrate to Autonomous Database when you have a large estate can be a great opportunity for large savings in TCO.
- Get an introduction about Oracle Estate Explorer, which is a lightweight tool that can analyze thousands of databases in just a few hours and enables you to identify those databases that will offer the greatest return on investment in the shortest time if you move them to Autonomous Database.
- Understand why Autonomous Database is the ideal target for database consolidation and how it can accelerate your journey to the Cloud..

Q&A

- **Product Managers will answer any questions**

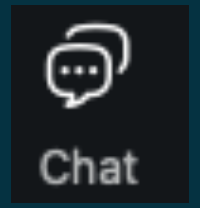
Before we begin...

This session is for you !!!

Ask your questions using **Q&A**

Product Managers are monitoring your questions

We will share links in **Chat**



The recording will be made available in a few days at
oracle.com/goto/adb-learning-lounge

Important links to bookmark

Links to get you started and to keep up to date with Autonomous Database

1 New Get Started page:
oracle.com/autonomous-database/get-started/

2 Join us: LinkedIn bit.ly/adb-linkedin-grp @AutonomousDW

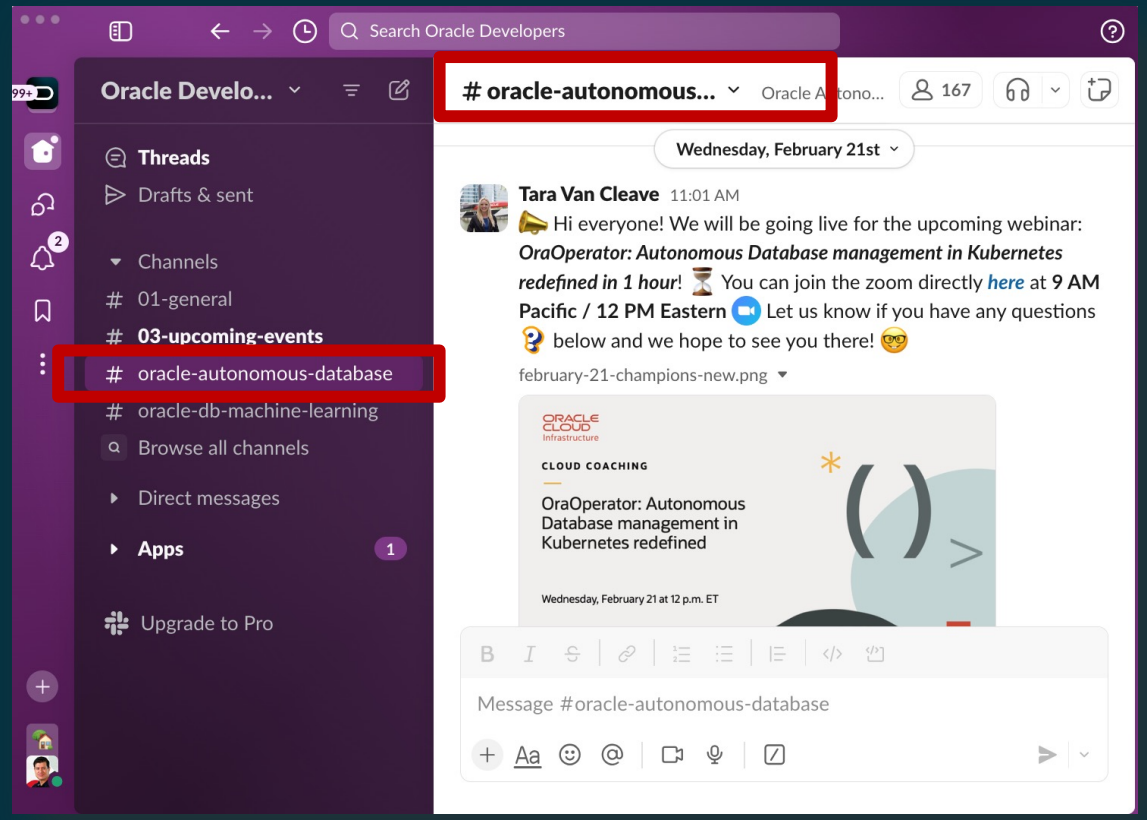
3 Got a question?
We are on stackoverflow
bit.ly/adb-stackoverflow

Join us on Developers Slack
(search #oracle-autonomous-database)
bit.ly/odevrel_slack (odevrel_slack)

Join our External Slack

STEP 1: bit.ly/odevrel_slack (odevrel_slack)

STEP 2: search for #oracle-autonomous-database at the top and click on the Channel



Upcoming Sessions

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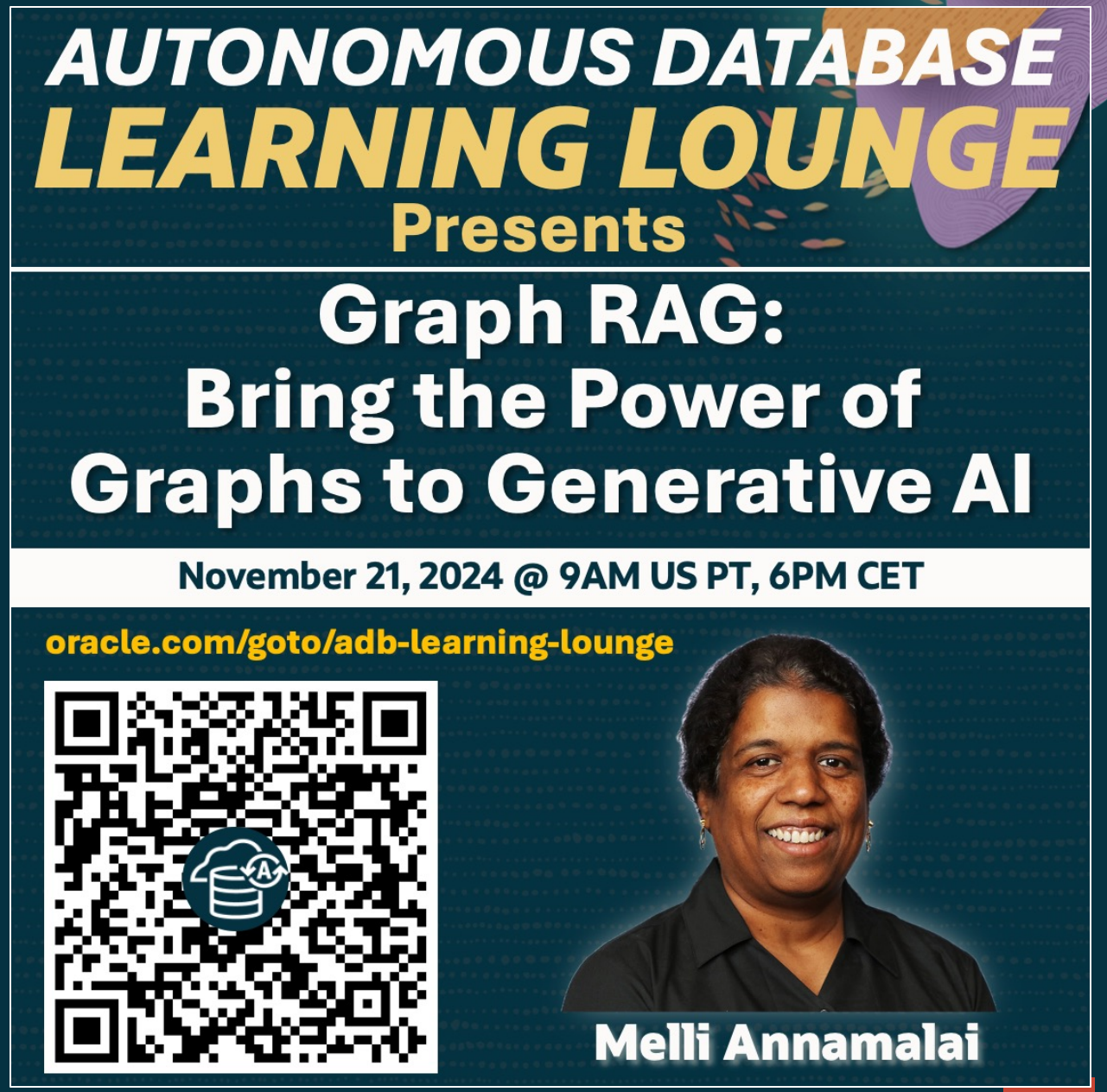


Speakers

Simon Griffiths

Paul Brankin

Oracle Estate Explorer

How to discover your database estate and plan for the cloud

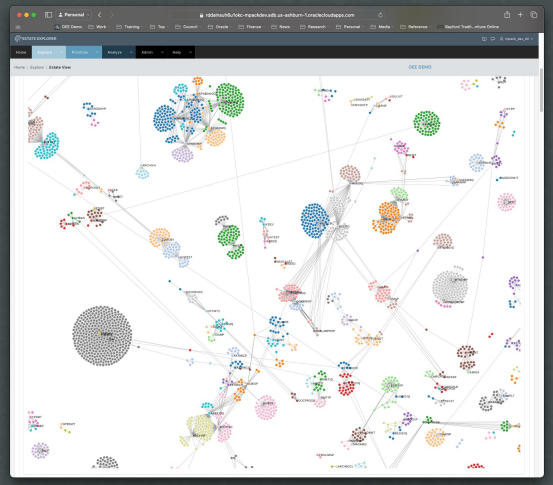
Simon Griffiths
Paul Brankin
November 12th, 2024

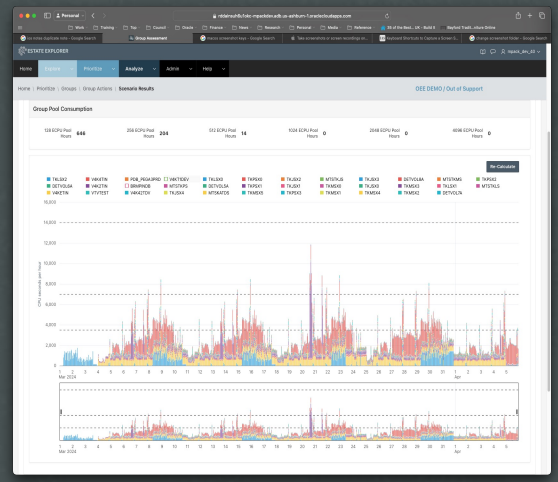
Oracle Estate Explorer

A Short Overview

Oracle Estate Explorer enables a customer to …

Understand a Database Estate





Plan a hybrid, multi-cloud migration strategy

- Build a complete database inventory
- Visualize any size database estate
- Analyze in technical & business context
- Prioritize database migrations to any cloud database
- Build a Business Case with on-prem and cloud TCO
- Optimize the migration deployment

A unique insight into a database estate

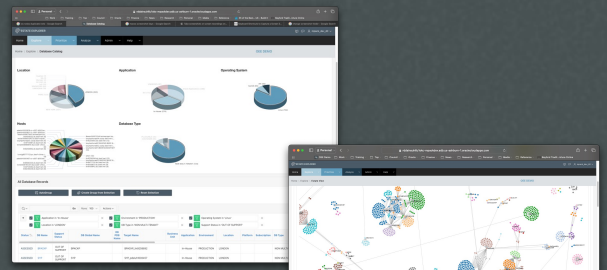
Oracle Estate Explorer – Key Steps

Explore an Estate Catalog

Plan Database Migrations

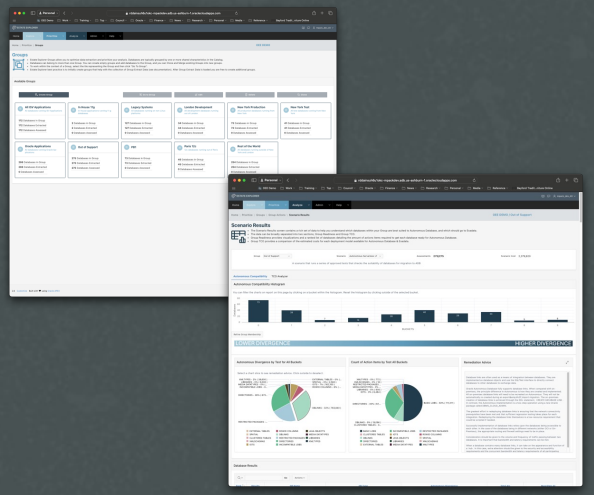
Build Technical Business Case

Database Details



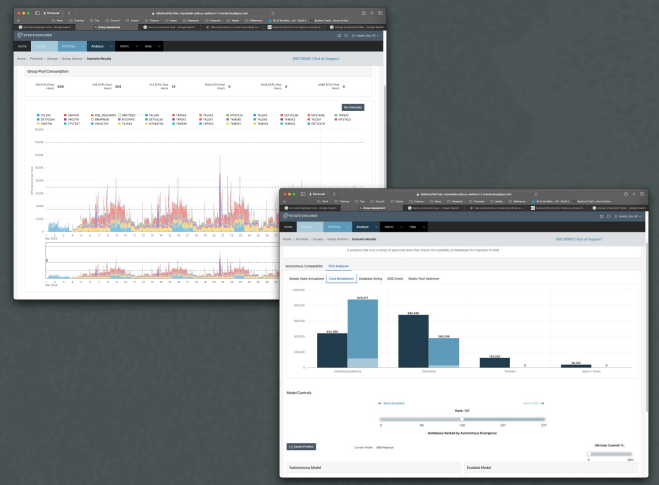
Database Links

Build Groups



Assess DBs

Build Elastic Pools

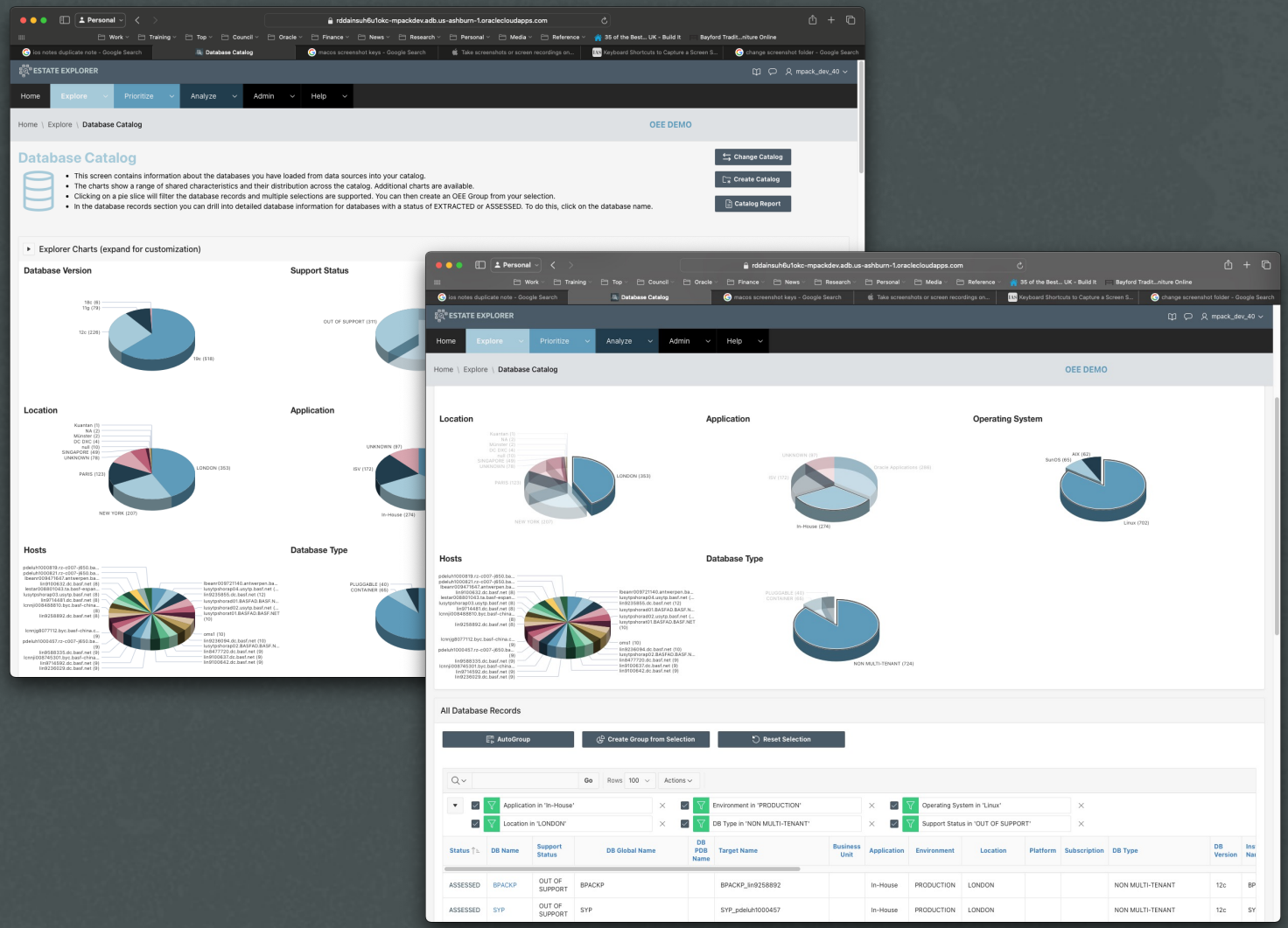


Build TCO

Estate Summary View

View your databases by your technical and business criteria

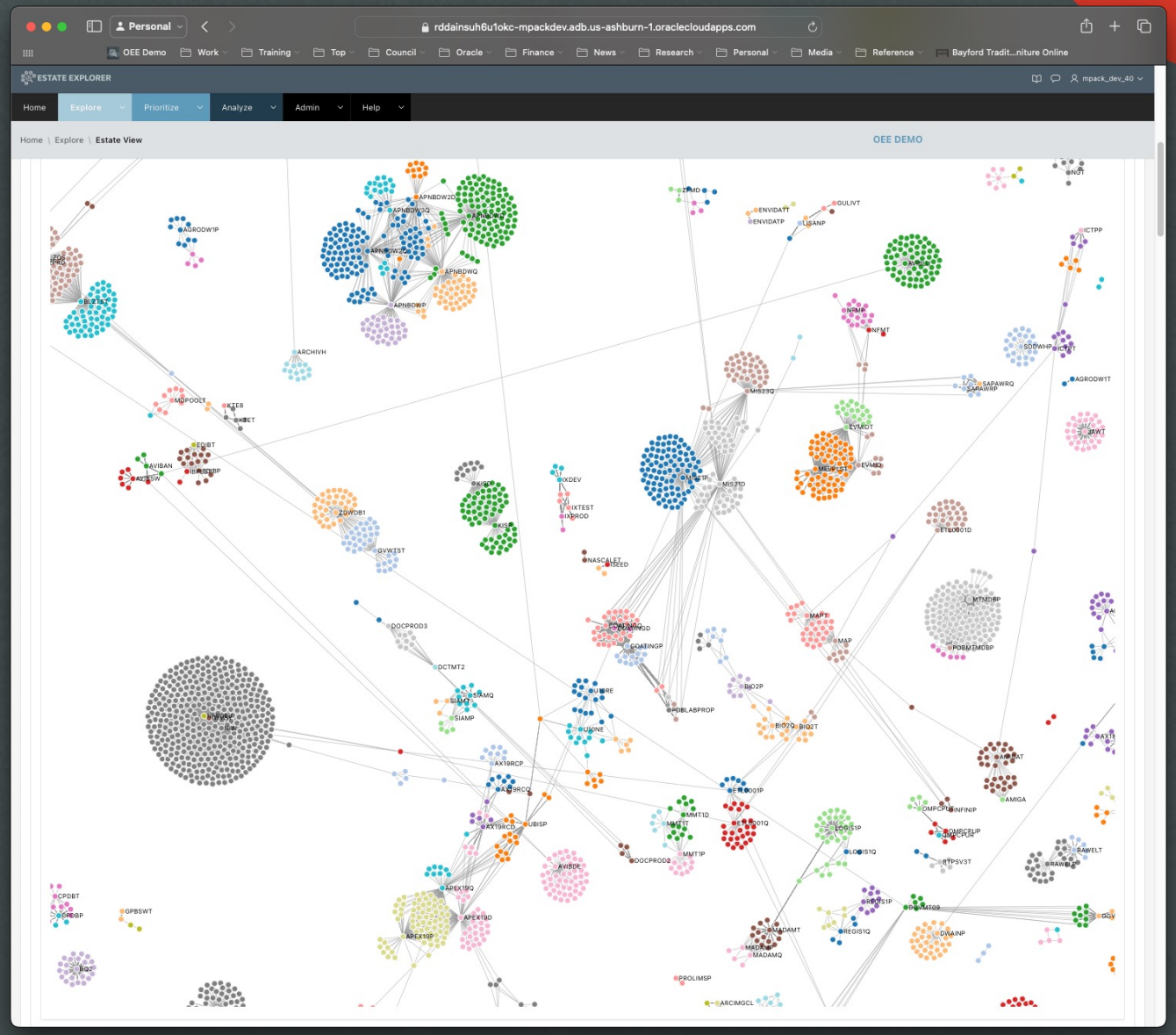
- Define criteria based on your naming standards
- By geography, business unit, platform, etc
- By database version, host OS, #cores etc
- Define new subsets of databases for analysis



Estate Cluster View

View a group of databases by their connections

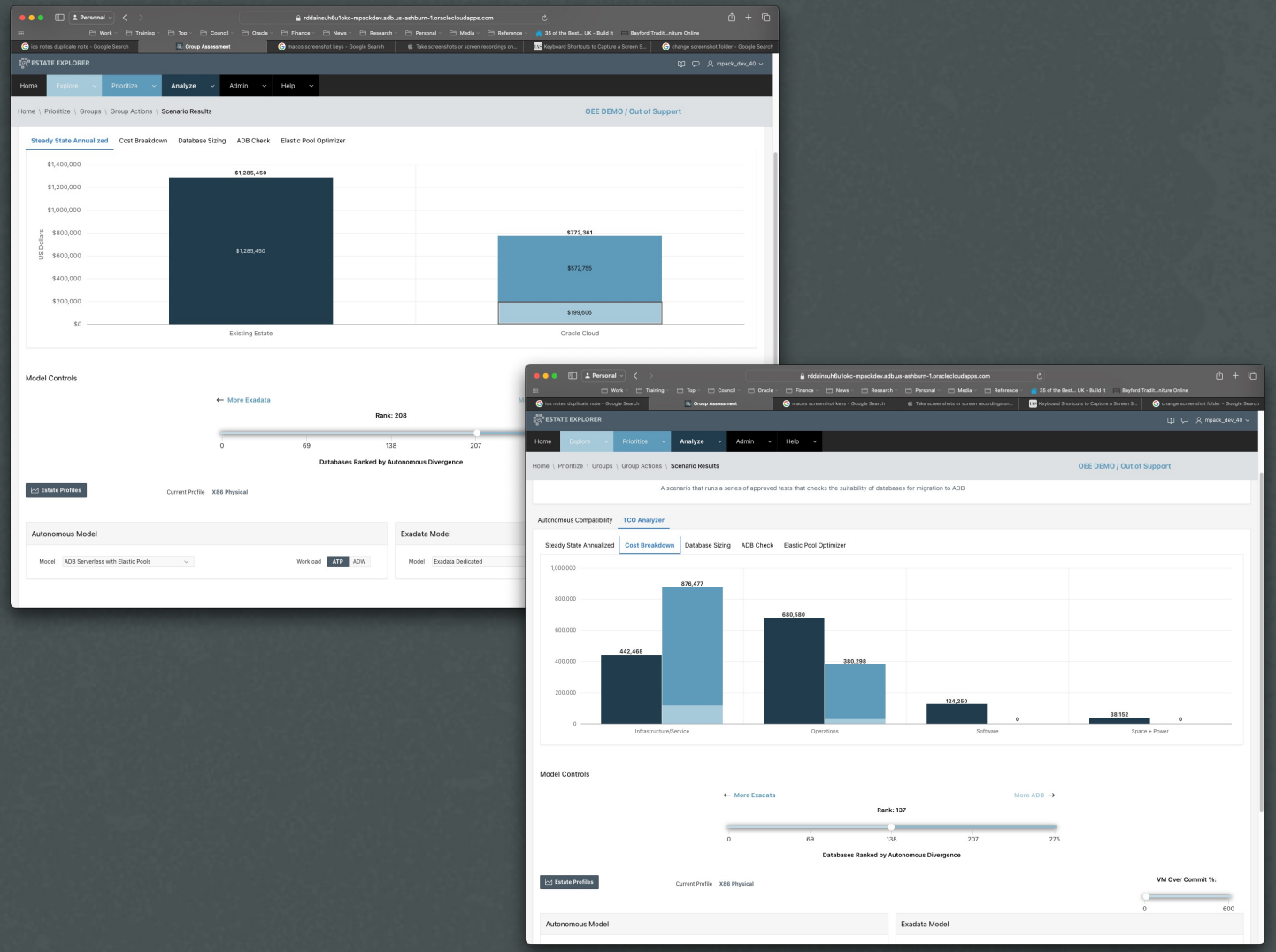
- Based on database links between databases
- Identify groups of linked databases
- Generate lists of clusters of databases
- Create linked groups for further analysis



TCO Analyzer – Compare current with future

Run-time TCO

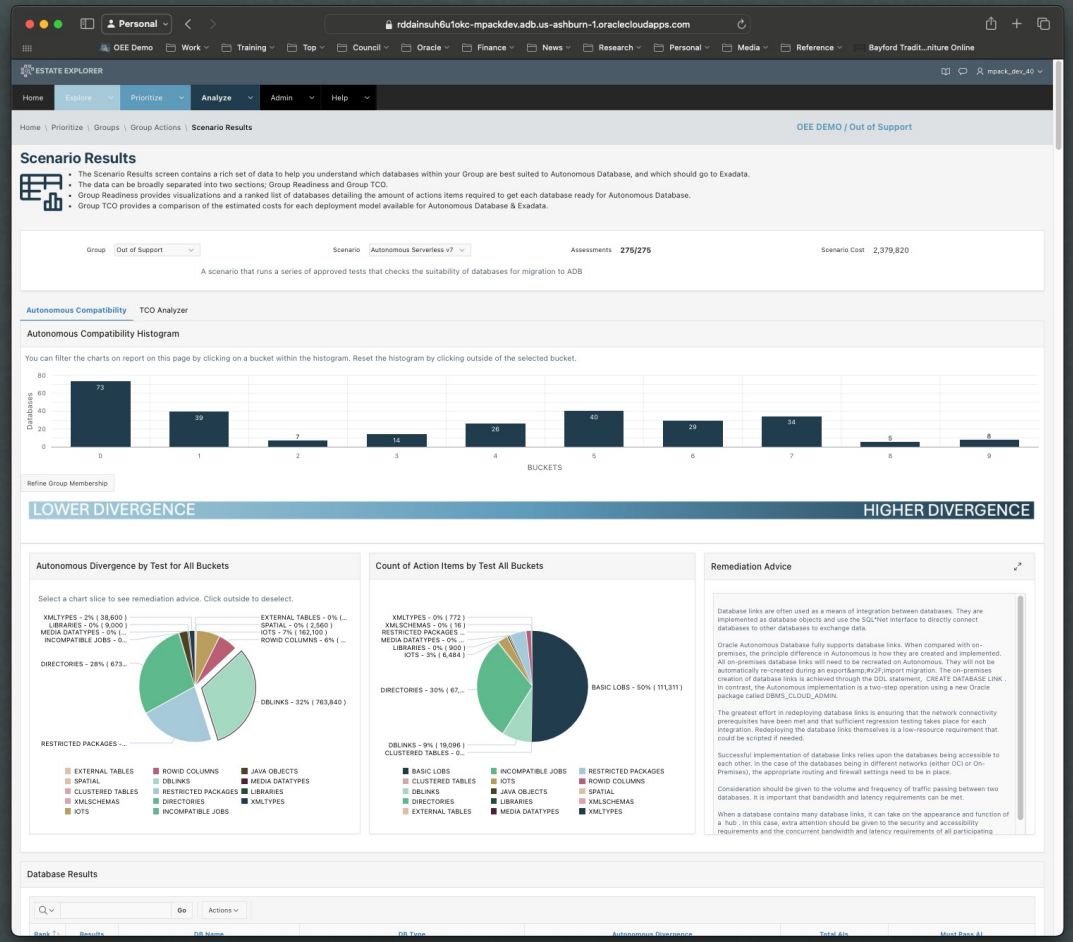
- Built from actual database information
- TCO model aligned with Business Value Team
- Compare on-prem, or other cloud with OCI
- Supports C@C and OCI as targets
- Flexibly split workloads between Exa and ADB



Estate Assessment for ADB

Migration preparation & effort

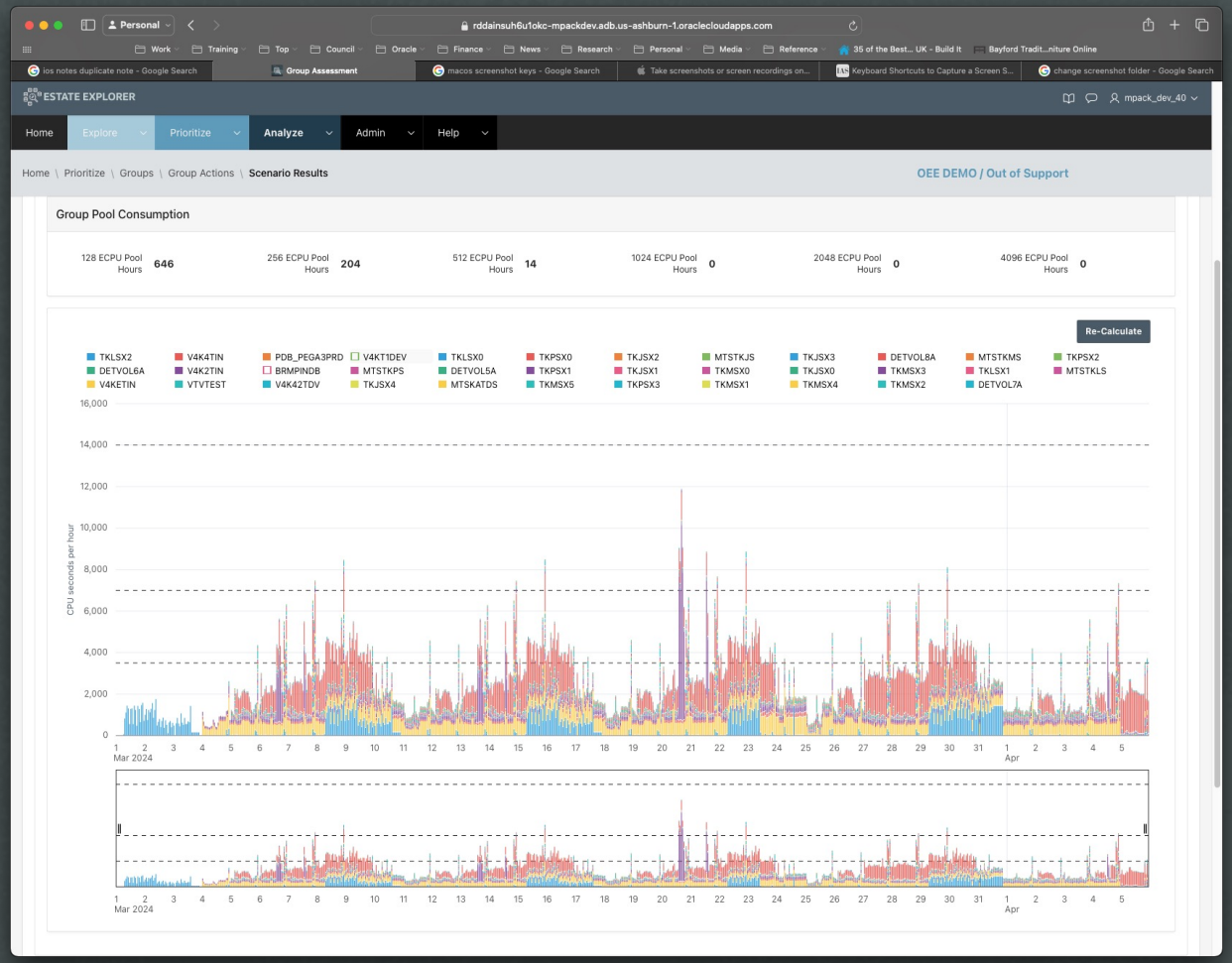
- Aggregate view
- Drill down to individual databases
- Detailed actions at an object level
- Customizable effort values
- View by count of objects or estimated effort



Elastic Pools Simulator

Simulate a set of workloads in ADB

- Based on actual CPU usage from AWR for one month
- Missing days and time intelligently interpolated
- Maps against Elastic Pool size and auto pool size
- Manual selection of databases to include/exclude
- Zoom into any time period for fine tuning



PDF Reports

A complete view of your database estate

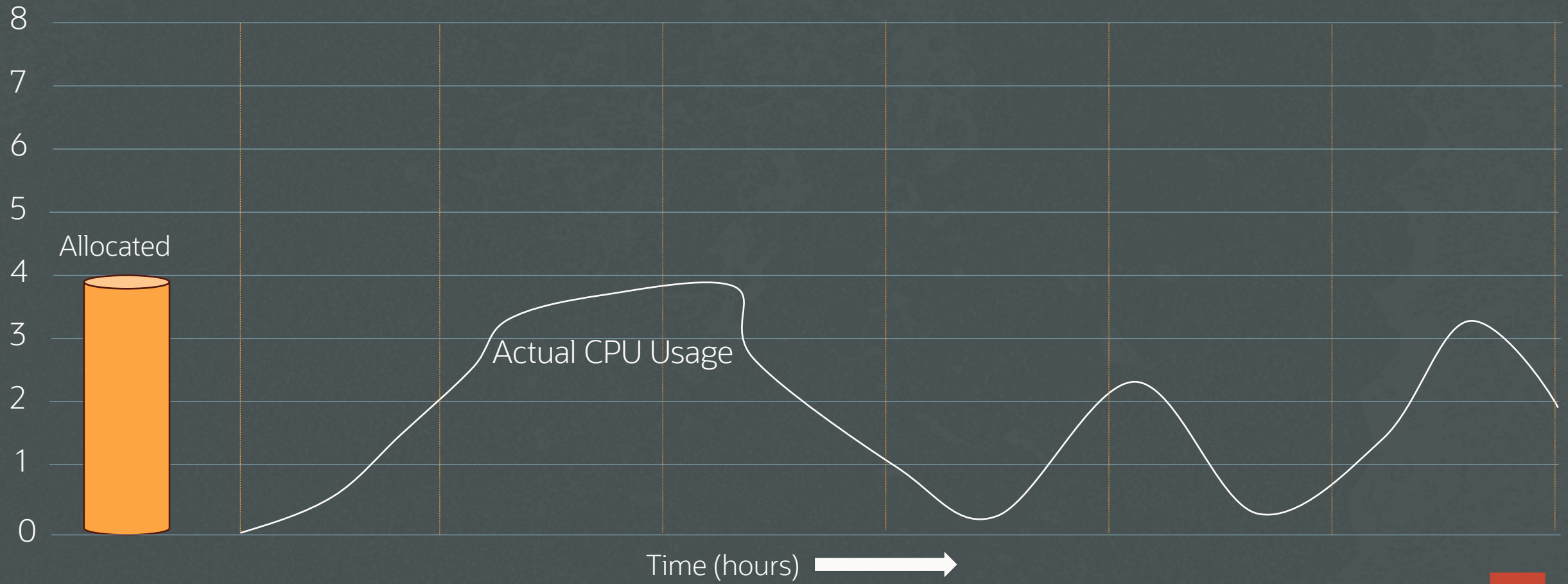
- key estate facts and findings
- a league table with ranking of every database
- recommendations on categorization & prioritization
- remediation steps for each database at object level

Share as PDF

- generated in seconds without human intervention
- share easily across your organization in PDF

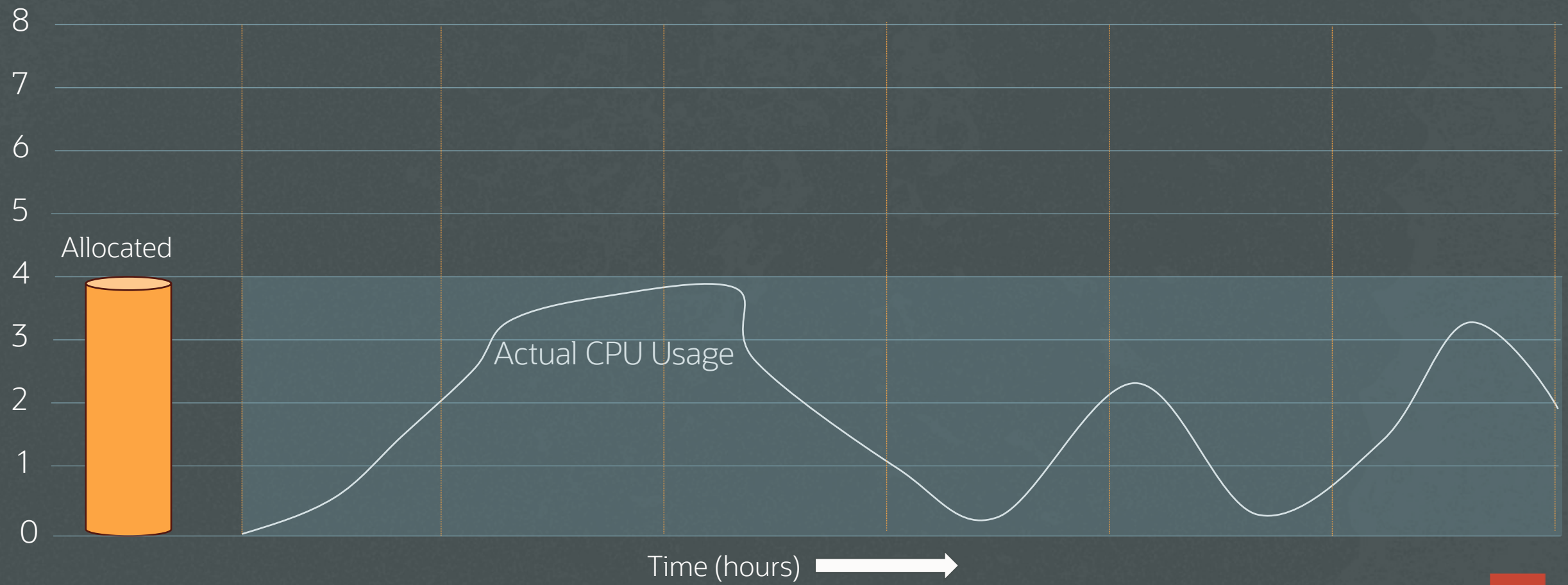
A reminder on ADB Sizing and Elastic Pools

How is Autonomous Database charged ?

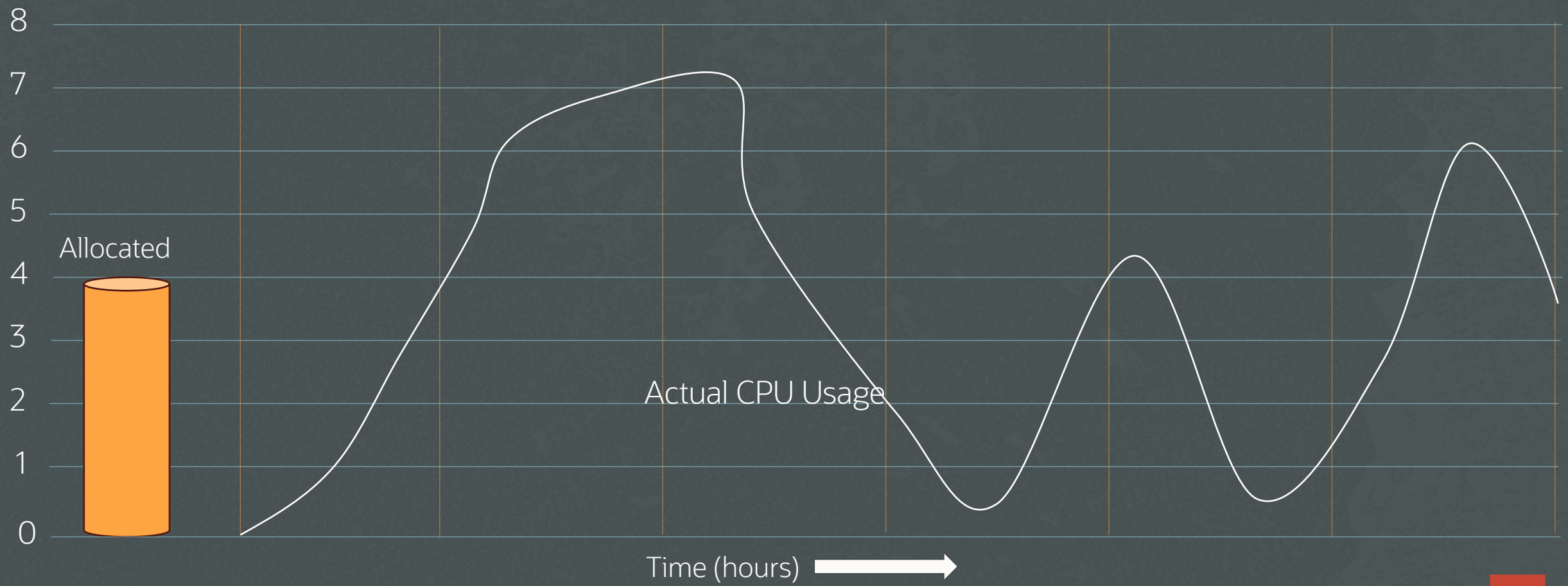


How is Autonomous Database charged ?

ADB is charged by the allocated ECPUs in each hour



… and with auto-scaling ?



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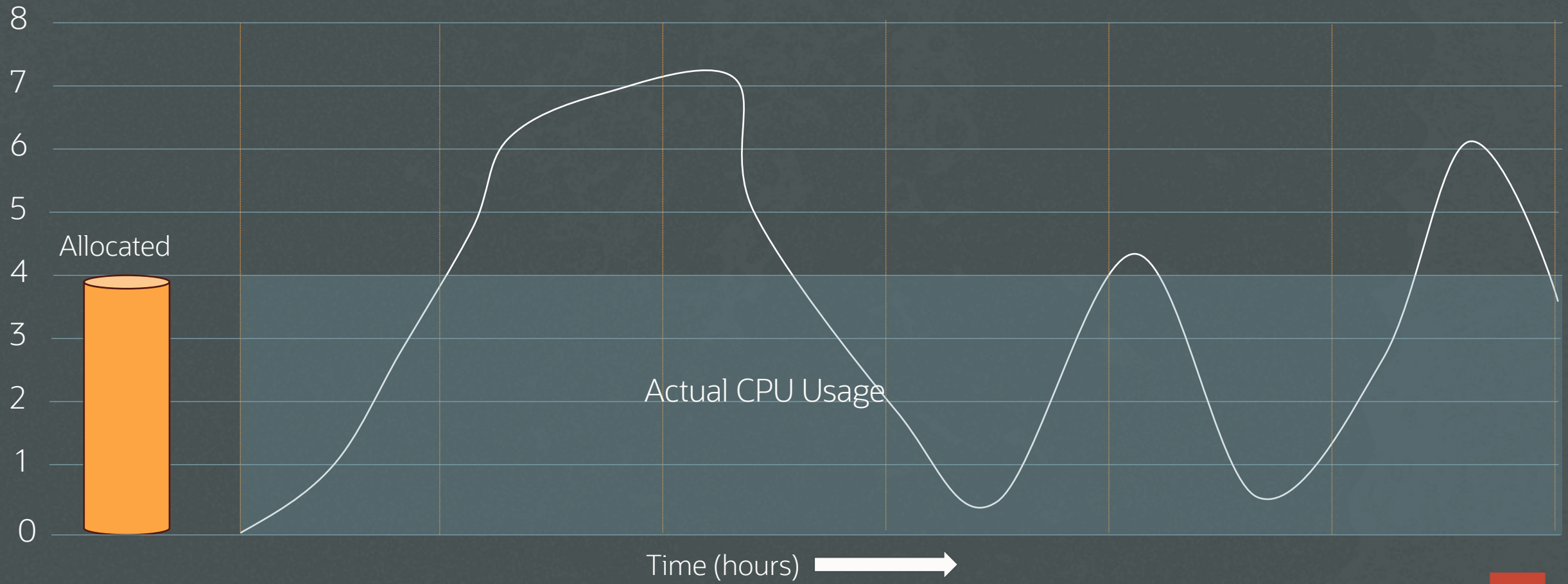
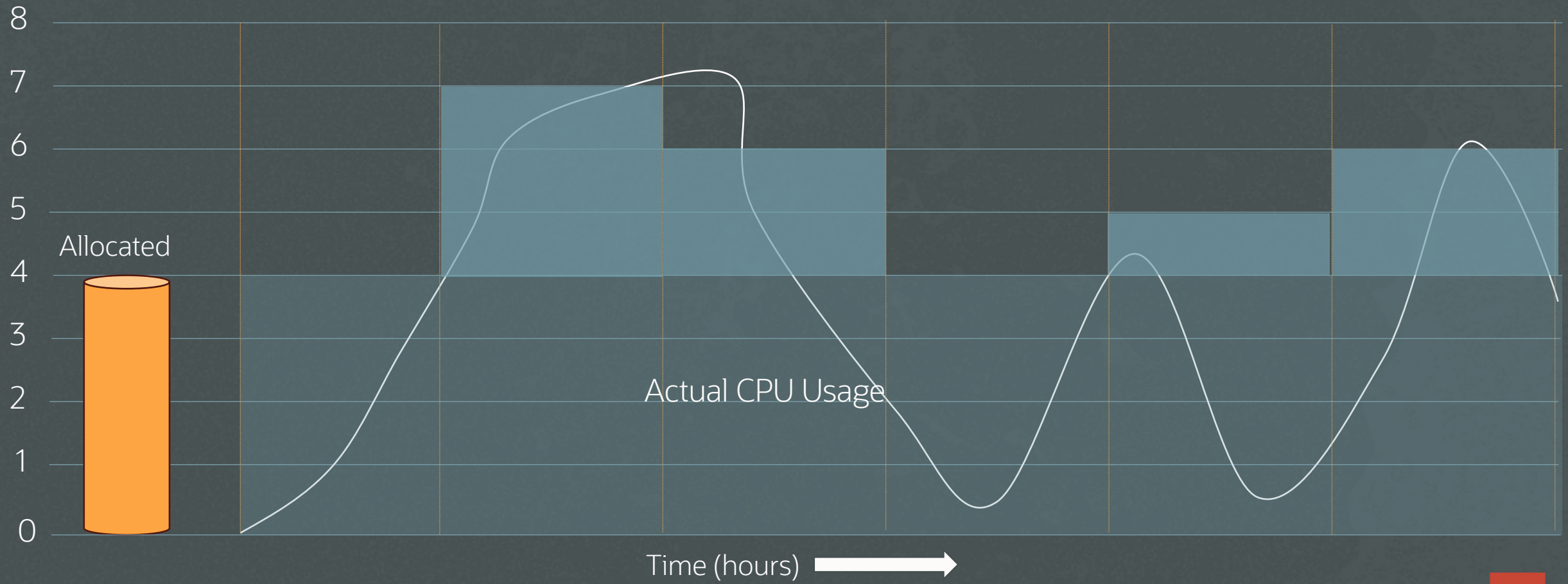


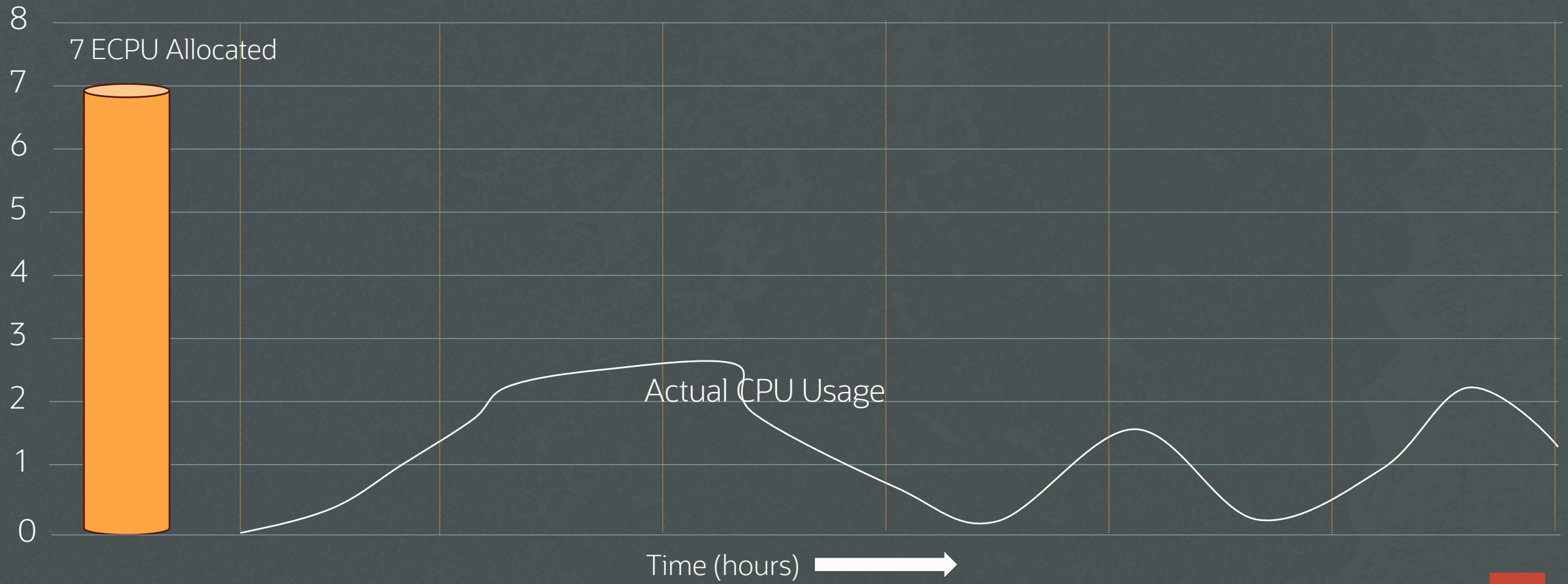
… and with ECPU auto-scaling ?

ADB is charged by the allocated ECPUs in each hour

Auto-scaled ECPU usage is measured each second, in units of whole ECPUs and averaged across an hour.

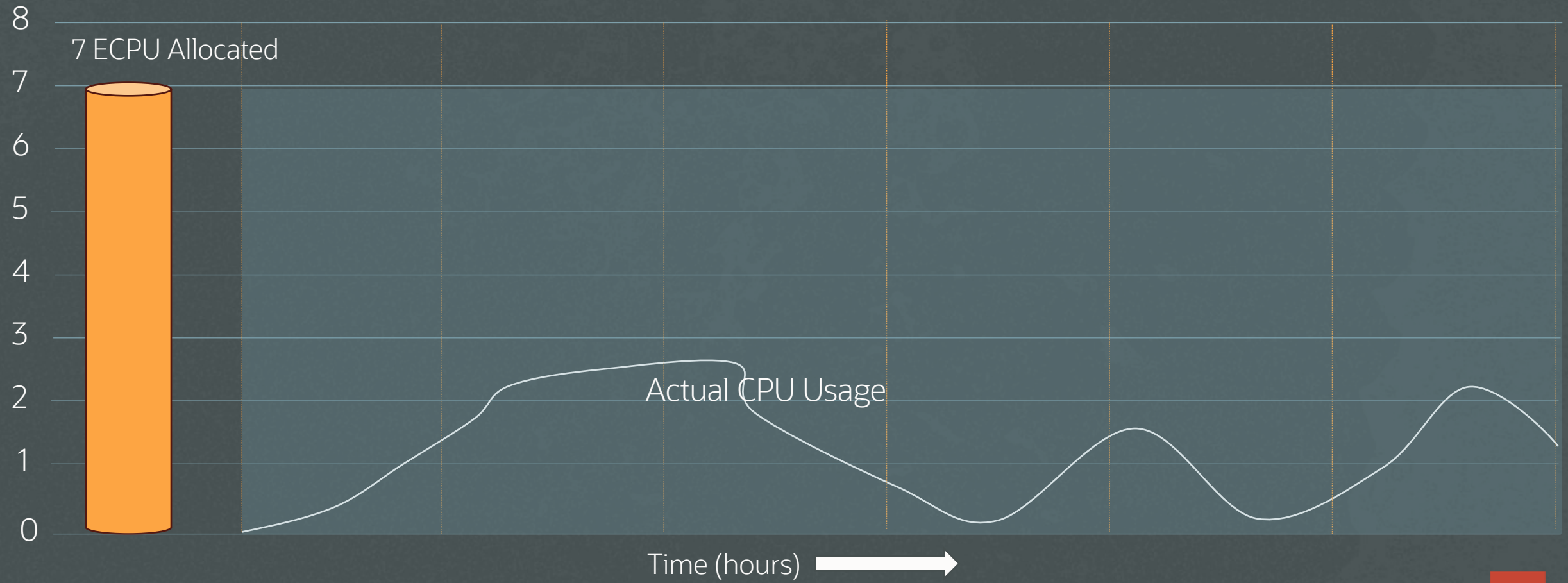


What if we need more memory/sessions ?



… we allocate ECPUs to get the extra memory/sessions

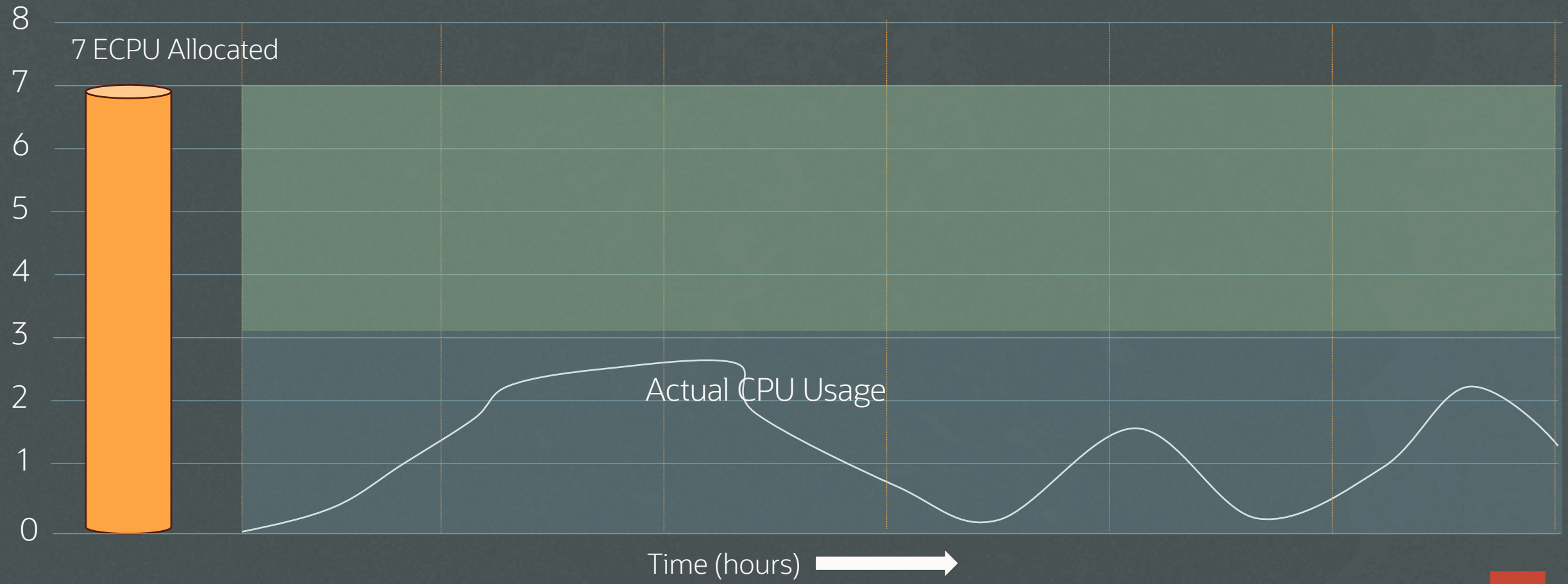
ADB is charged by the allocated ECPUs in each hour



… we allocate ECPUs to get the extra memory/sessions

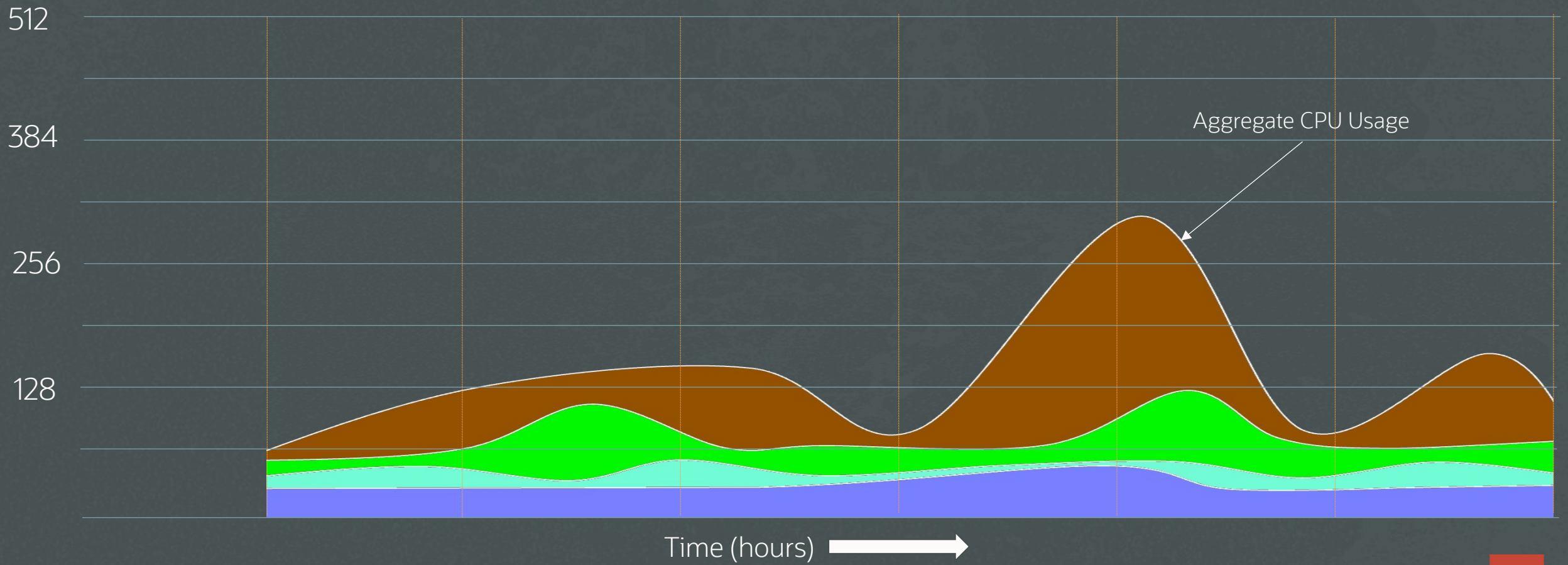
ADB is charged by the allocated ECPUs in each hour

Unused ECPU capacity



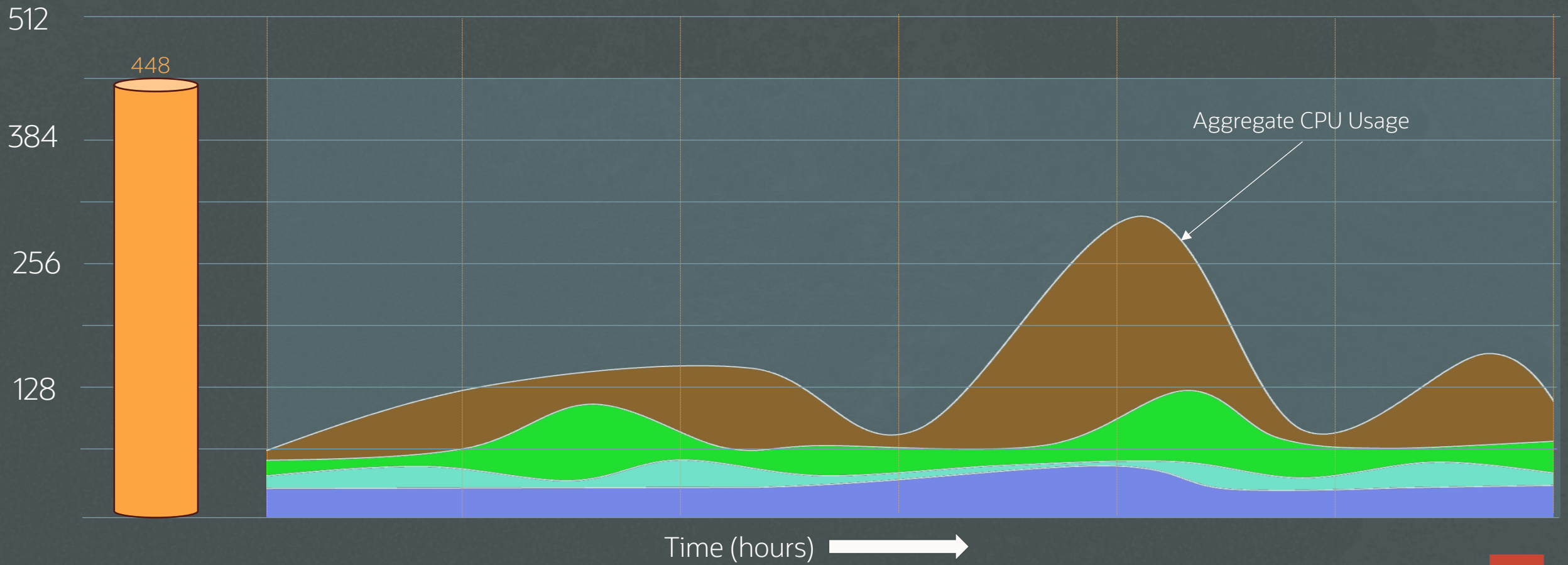
Let’s now think about a group of databases

Here's a group of databases with high mem/sessions



Without Elastic Pools …

ADB is charged by the allocated ECPUs in each hour



Reminder on Elastic Pools

Elastic Pools is only a billing construct – databases are not physically moved when joining a ”pool”

Elastic pools can be created with a pool size (aka shape) of 128, 256, 512, 1024, 2048, or 4096 ECPUs

Specific ADBs can “join” the pool – they can also be removed (one hour min)

Databases can be added to the pool up to the Pool Capacity – i.e. the aggregate ECPU limit

If the ECPU usage exceeds the current pool shape, then the pool shape is automatically doubled in size (up to the pool capacity)

Charges are incurred for the pool shape in use for each hour.

Pool Leader

Is the Autonomous Database instance that creates an elastic pool.

Pool Member

Is an Autonomous Database instance that is added to an elastic pool.

Pool Size

Is a value that you set when you create an elastic pool. The pool size must be one of the available elastic pool shapes

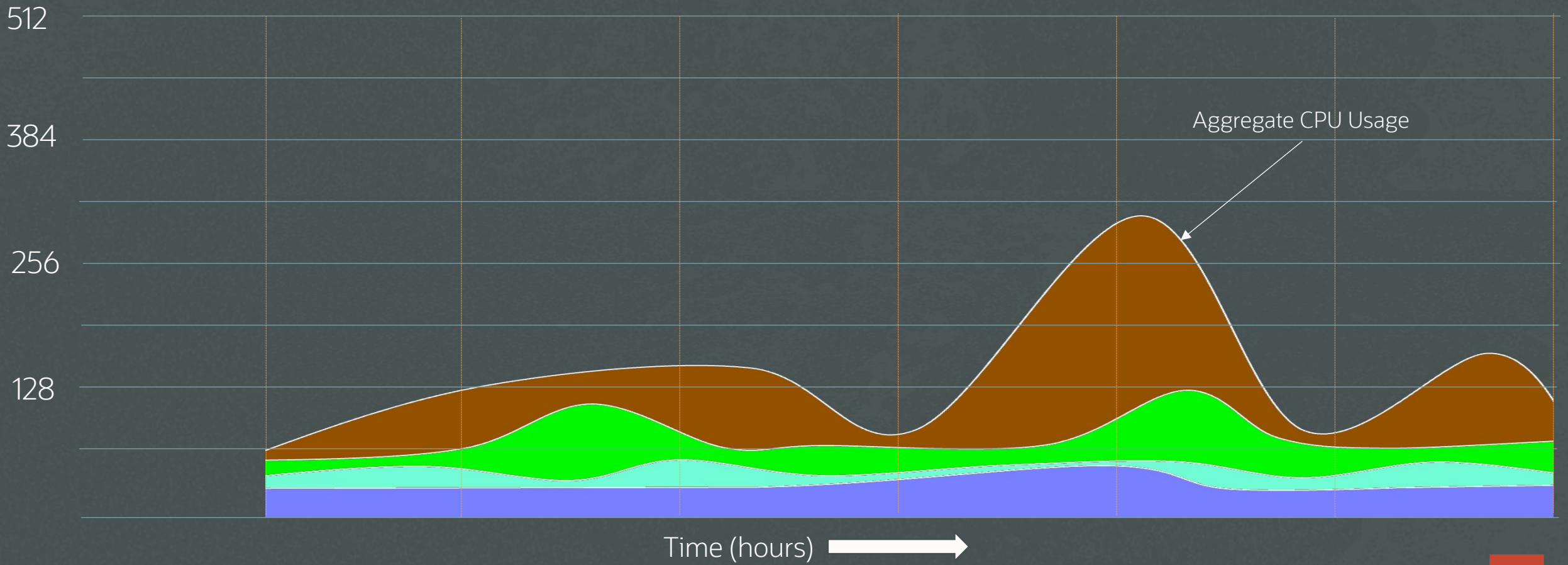
Pool Shape

A pool shape is one of the valid pool sizes that you select when you create an elastic pool

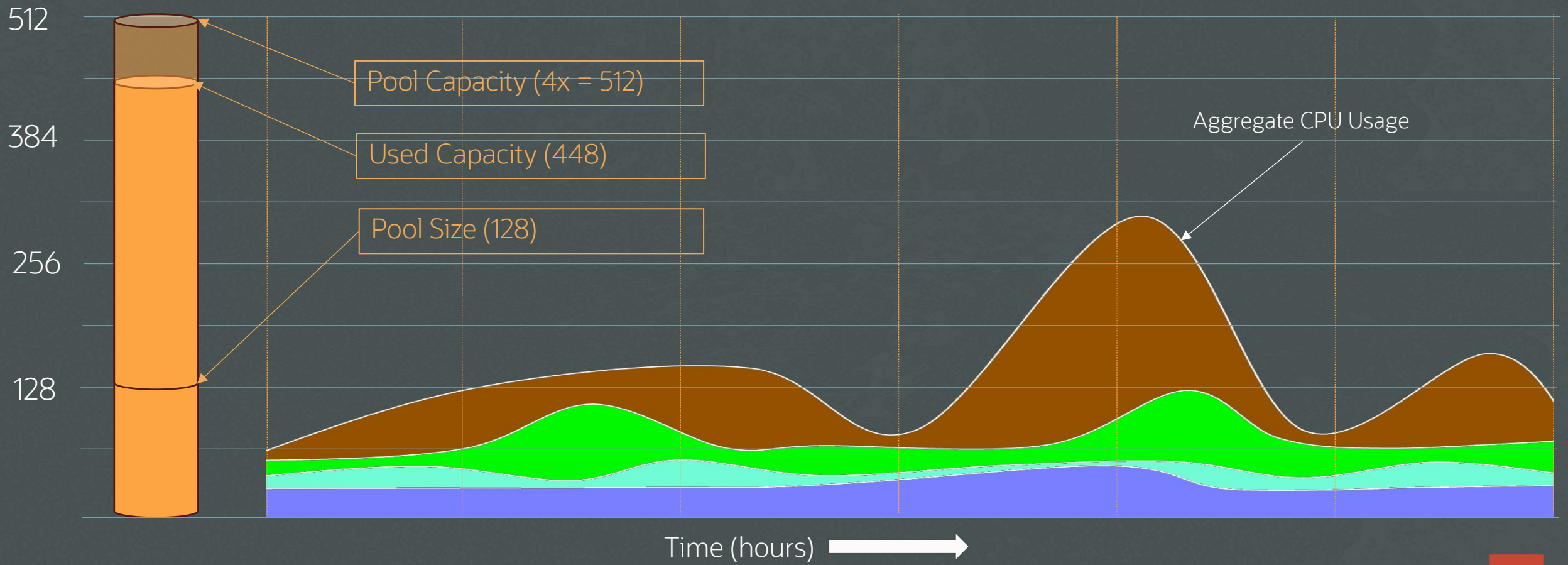
Pool Capacity

The pool capacity is the maximum number of ECPUs that an elastic pool can use, and is four times (x4) the pool size

Here's our group of databases with high mem/sessions

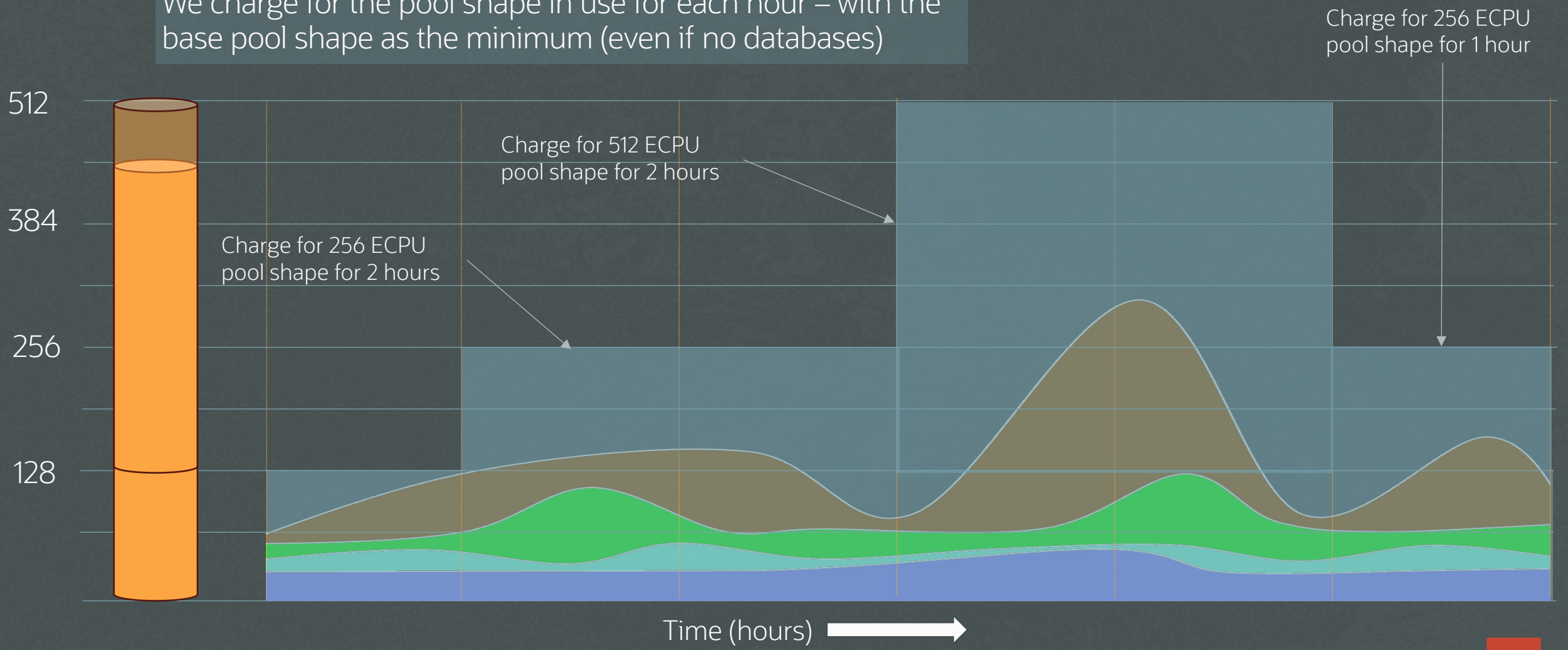


Let’s put them into an elastic pool of size 128 ECPU



Here's our group of databases – with Elastic Pools

We charge for the pool shape in use for each hour – with the base pool shape as the minimum (even if no databases)



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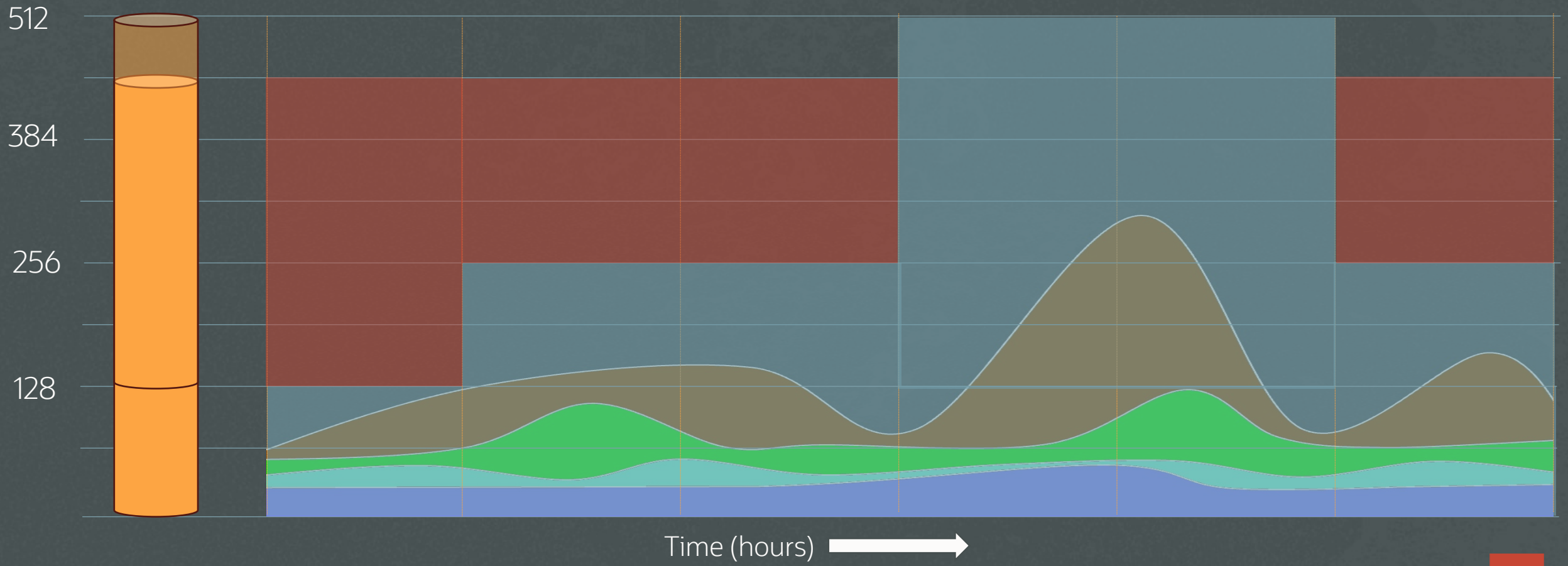
Elastic Pool Saving



Oracle Estate Explorer

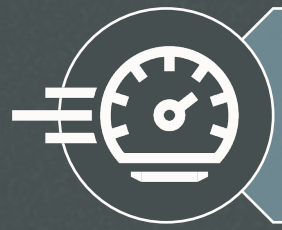
Where to find out more

Oracle Estate Explorer https://www.oracle.com/database/cloud-migration/estate-explorer/

Modernization First Steps

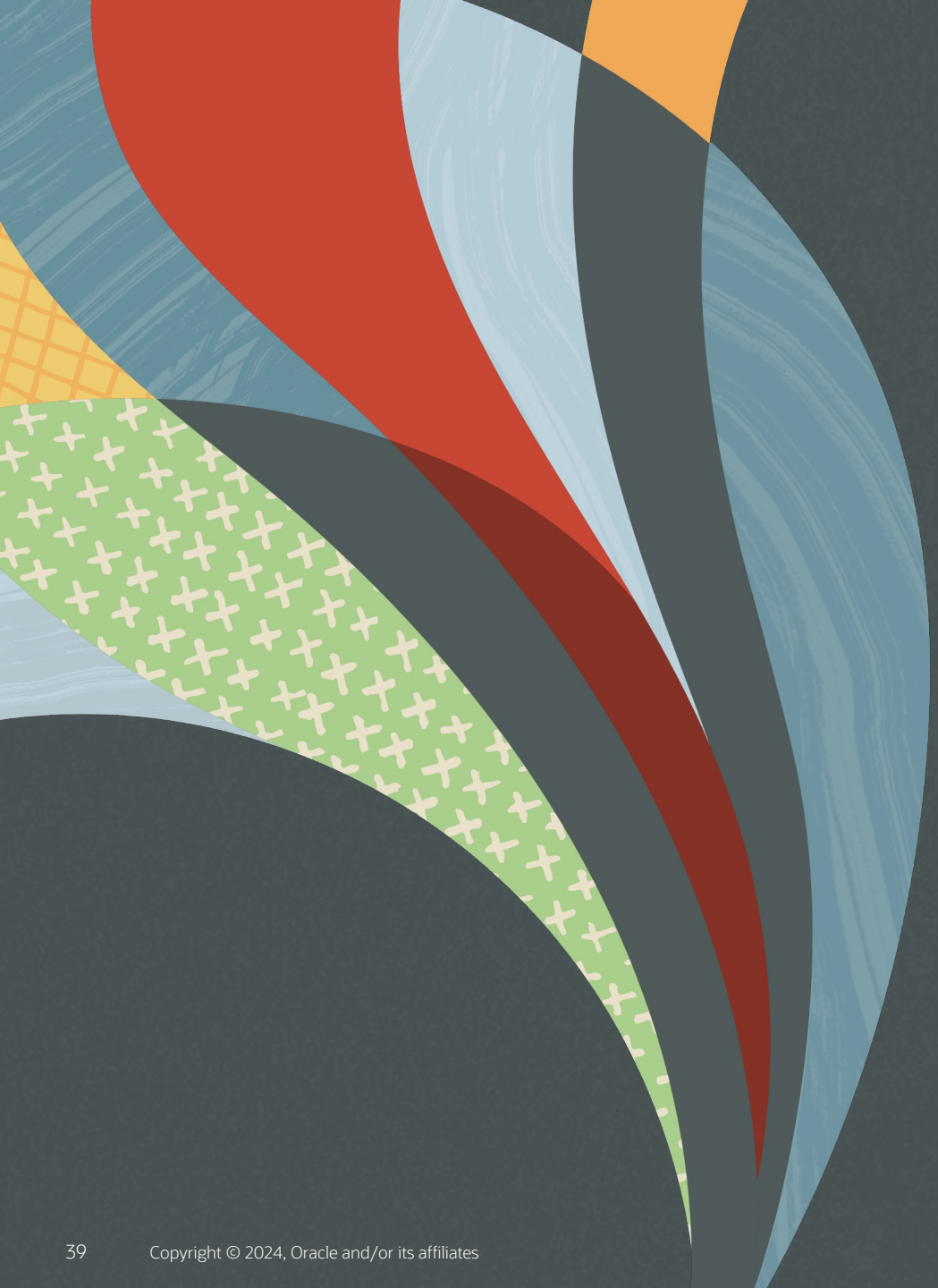
Use Estate Explorer to:

Gain knowledge of your database estate



Identify quick-wins for migration to cloud

Build a business case financial model to prove value



Thanks

Q&A Open

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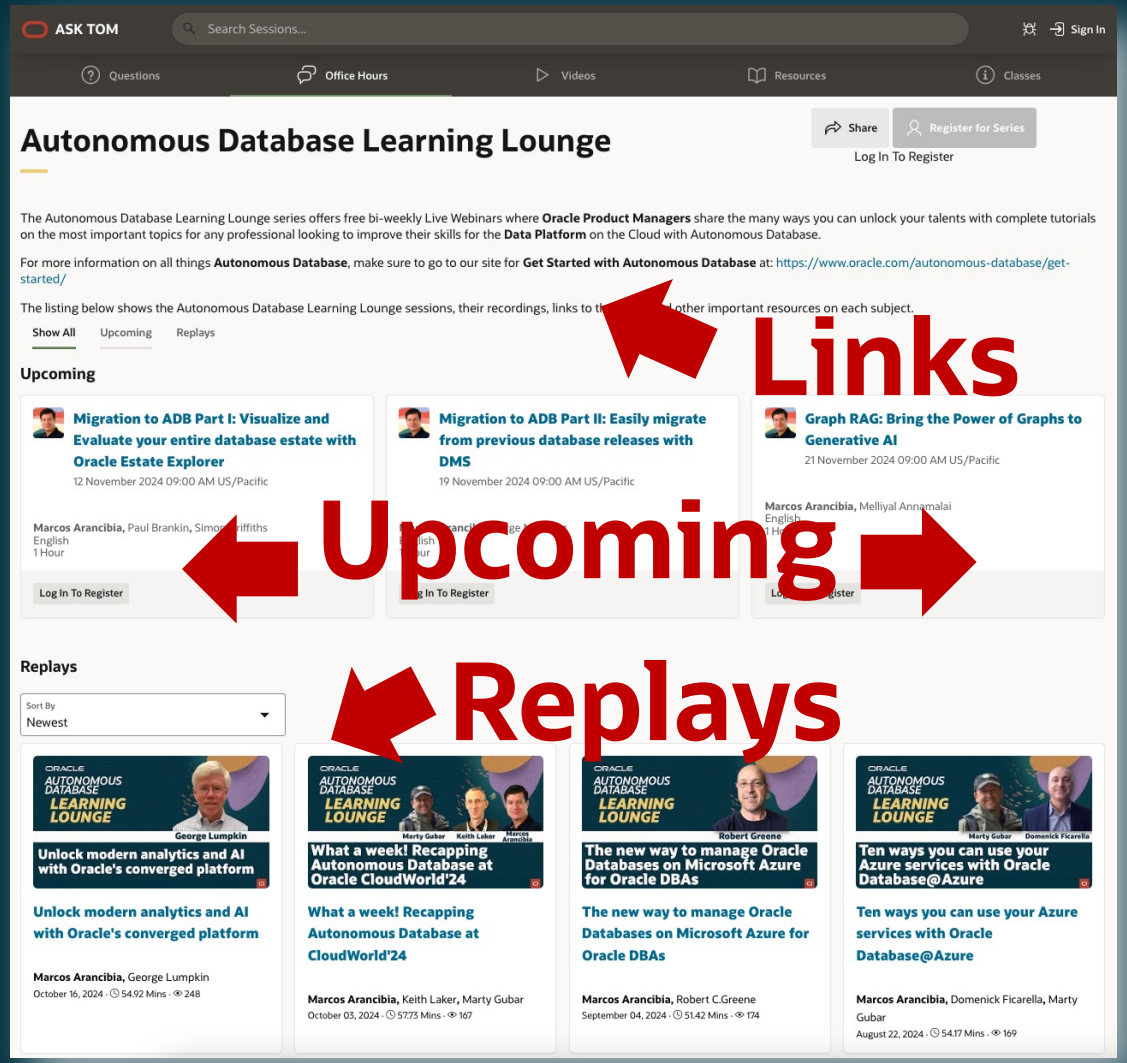
Final Thoughts

oracle.com/goto/adb-learning-lounge



AUTONOMOUS DATABASE

LEARNING LOUNGE

Thank you for joining today's webinar !!!

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