Oracle Estate Explorer

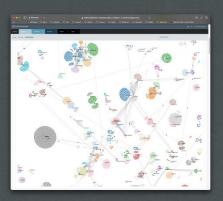
How to discover your database estate and plan for the cloud

November 2024



Oracle Estate Explorer enables you to ...

Understand a
Database
Estate



Plan a hybrid, multi-cloud migration strategy



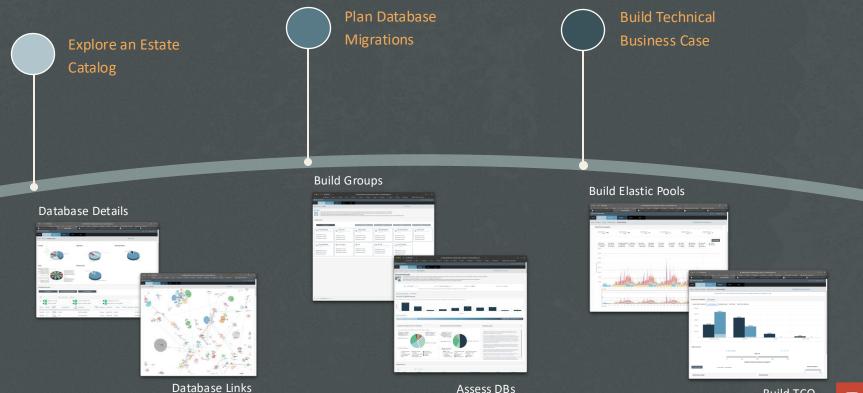
- Build a complete database inventory
- Visualize any size database estate
- Analyze in technical & business context

- Prioritize database migrations to Oracle cloud database
- Build a Business Case from on-prem to cloud TCO
- Optimize the migration deployment

A unique insight into a database estate



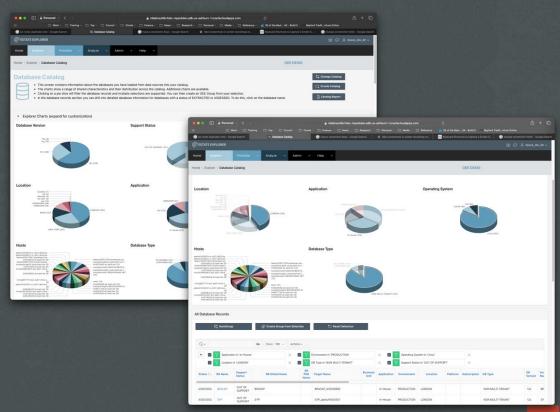
Oracle Estate Explorer – Key Steps



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

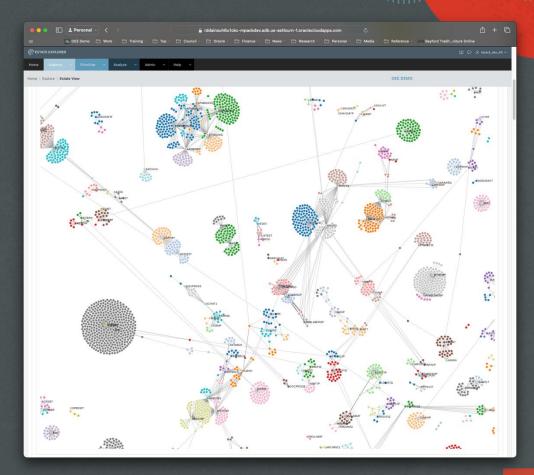




Estate Cluster View

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

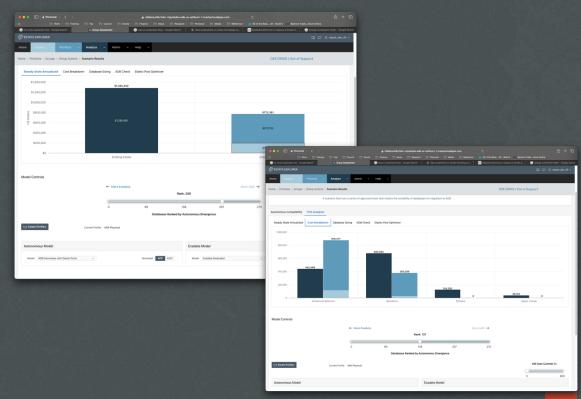




TCO Analyzer – Compare current with future

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

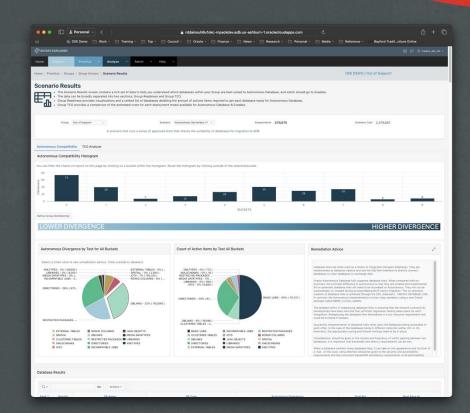




Estate Assessment for ADB

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

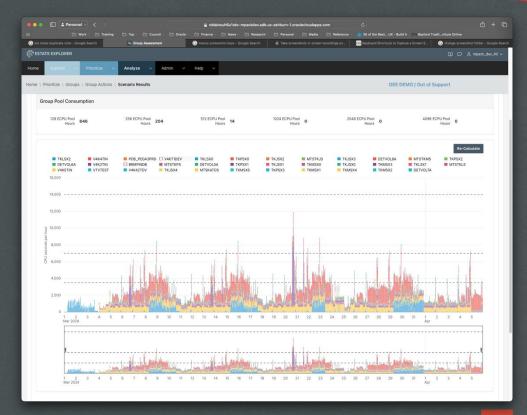




Elastic Pools Simulator

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





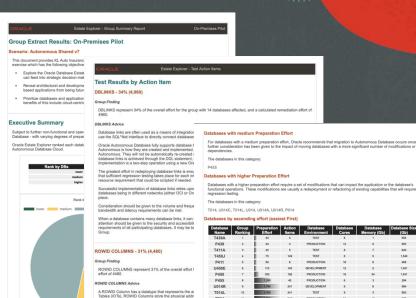
PDF Reports

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



Physical rowids provide the featest possible access to a access. Oracle guarantees that, for a long as the row or qualities make rowids useful for applications that select some of the selected rows again, perhaps to update the in dedicated deployments of Oracle Autonomous Datab enabled, however, they are incompatible with rolling up row. All a minimum, database activities movining (OVIV) columns should introduce correctness validation to mile in shared deployments, scale down operations in Auto-

pointing to different rows than originally intended. Auto-

If the requirements of ROWID s on Autonomous Databa

the affected tables, which, in turn, may result in applicat primary key values in place of ROWIDs.

Assessment Method

Oracle Estate Explorer conducts an assessment of a Group based on a series of tests. The tests are applied to data extracted from the larget databases. The tests are designed around income features, characteristics, and requirements of the Oracle Autonomous Databases. The tests focus on identifying existing staget database features that might result in architectural or functional change. The tests are intended to facilitate the decision-making process for migration grouping and prioritisation.

Additional actions may be taken while performing a migration, but these should not be architectural or functional. Oracle Estate Explorer calculates the effort by applying weighted tests against each database. The calculation considers the resource requirements, scale, technical complexity, and associated risks of preparing each database for migration.

You can find details of the tests and weighted modification effort in the appendix of this document. The total preparation effort for a database is a function of the weighted modification effort and the count of exceptions (Action Items) encountered by the test.

A lower total preparation effort represents a closer alignment between the existing database configuration and the capabilities of Oracle Autonomous Database. Equinor should prioritise these databases for migration to Oracle Autonomous Database.

Each database is given a ranking within a Group and is subject to placement within a ten-bucket histogram (a lower numbered bucket is desirable).

Estate Explorer – Key Features

Key Functions



Analyze 1000's of databases in just a few hours



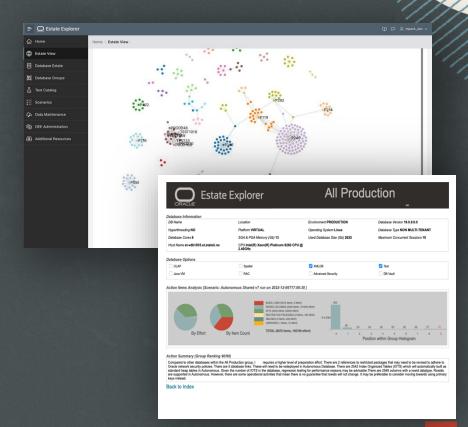
Visualize your current estate and simulate the future



Provide a detailed TCO to compare on-premises and cloud



Produce high quality summary and detailed reports for every database





Estate Explorer – Key Features

Key Principles



Data privacy

no need to share data with Oracle



Deploy anywhere

in public cloud, on-premises, or even a laptop



Ultra-light footprint

minimal install requirements and a light touch on databases



Code transparency

for customers and partners



Customizable model

build a custom estimation model for your organization



Database Modernization Team Services





OEE Technical Support

< 1 day per customer



Invest

+ OEE Results Analysis

1-5 days per customer



Focus

+ Estate Transformation

named transformation architect



We can work with you

Independent

- Deploy Oracle Estate Explorer yourself within your own on-premises, OCI, or 3rd party cloud environment.
- Perform all aspects of data gathering and analysis independently of Oracle.

Collaborative

- With Oracle guidance, deploy Oracle Estate Explorer within your own on-premises, OCI, or 3rd party cloud environment.
- Oracle works with you to perform data extracts, analysis and reporting.

Service

- Oracle hosts the Oracle Estate Explorer instance.
- You run the extracts and send the output to Oracle.
- Oracle delivers back a full report and provides detailed guidance



We can work with partners ...



- Use your logo and branding on the application
- Easily change the pdf reports to your branding

Customize

- Provide custom scenarios for your customers
- Extend the standard tests or add your own tests (advanced)

What we would ask from you:

Retain an Oracle logo with "powered by Estate Explorer" on all screens and reports



Customer Database Estates

What have customers discovered about their database estates?

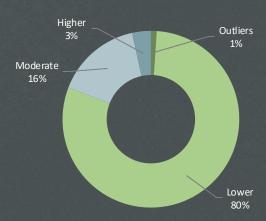


To move to Autonomous Database

of databases require just 1 or 2 changes

Customer Examples

Small Estate



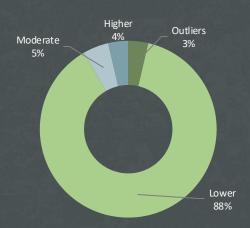
on-premises databases (11g, 12c, 19c)

of databases in

Lower Effort category

of databases required zero or just 1 change

Multi-Cloud

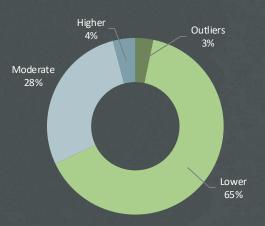


766 databases on-premises and on Microsoft Azure

88% of databases in Lower Effort category

of databases required zero or just 1 change

Large customer



951 on-premises databases (11g, 12c, 19c)

65% of databases in Lower Effort category

of databases required zero changes



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





Thank you

Technical Extras

Deployment and Architecture





Your Estate

- Best used for analysis of > 10 databases
- Target Databases can be anywhere on-premises, already in OCI, or on a competitor cloud
- Can analyze any database from version 12 onwards

Database Catalog

- Generate from Oracle Enterprise Manager or
- Provide a list of databases with connection details

Security and Confidentiality

- Only requires access to a read-only database account for each database to be analyzed (e.g. DBSNP)
- Extract scripts are open for any security validation and checks required
- No requirement to share any data with Oracle

Host environment

- Run the extracts in a host with a bash shell a server, a container or even a laptop
- The host needs to be able to establish a network connection to the target databases



Where can I deploy the OEE Application?



Requirements



Oracle Database 19c



APEX & ORDS

The APEX application is selfcontained and ultra-lightweight with no external dependencies

Deployment Options



In a VM



Autonomous Database



On-Premises



Any Cloud

Deploy the APEX application wherever you need it – full installation scripts are provided



How is the information captured?



Host environment

- Run the extracts in a host with a bash shell a server, a container or even a laptop
- The host needs to be able to establish a network connection to the target databases
- A Linux host is recommended

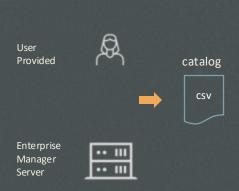
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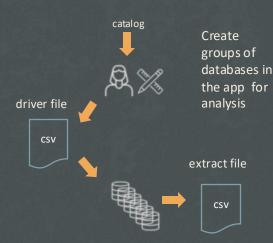
Estate Explorer - Architecture

1 – Build Catalog



Provide a database estate catalog, or generate automatically from OEM

2 – Extract Information



Single extract script connects to all databases extract information to csv

3 – Analyze Results



Analyze estate and produce Visualizations & Reports

