Migration to Oracle Autonomous Database

Part 1: Planning

Photo by Gian-Reto Tarnutzer on Unsplash

Oracle

DBAs

run the world

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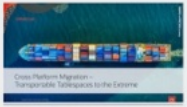
Virtual Classroom Seminars	Slides
Episode 16 (replaces Episode 1 from Feb 2021) Oracle Database Release and Patching Strategy for 19c and 23c *115 minutes – May 10, 2023*	
Episode 17 From SR to Patch – Insights into the Oracle Database Development process *55 minutes – June 22, 2023*	
Episode 18 Cross Platform Migration – Transportable Tablespaces to the Extreme *145 min – February 22, 2024*	
Episode 19 Move to Oracle Database 23ai – Everything you need to know about Multitenant PART 1 *145 min – May 16, 2024*	
Episode 20 Move to Oracle Database 23ai – Everything you need to know about Multitenant PART 2 *100 min – June 28, 2024*	

Recorded Web Seminars

https://MikeDietrichDE.com/videos

More than 35 hours of technical content, on-demand, anytime, anywhere

Why are ADB migrations different?

KEYNOTE PRESENTATION

Oracle OpenWorld San Francisco 2017

A cloud database that automates routine management tasks

Oracle Autonomous Database

Let's Do This Together

1 PLANNING

2 PREPARING

May 15, 15:00 CET
Sign up

3 MIGRATING

June 5, 15:00 CET
Sign up

4 OPERATING

July 10, 15:00 CET
Sign up

Autonomous Database – Where?

Public cloud

Autonomous Database

Cloud@Customer

Autonomous Database
in a VM environment

Two Deployment Choices

Serverless Infrastructure
(Public Cloud)

Dedicated Infrastructure
(Public Cloud, Cloud@Customer)

Workload Choices

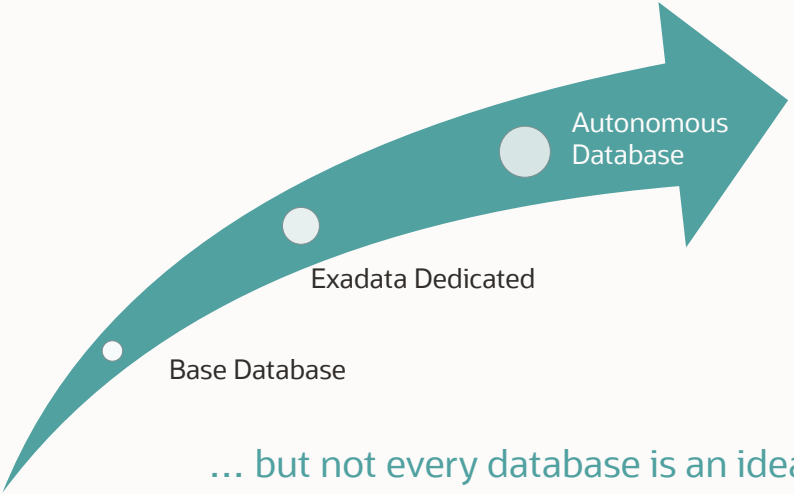
Autonomous Data Warehouse (ADW)

- Data Warehouse, Data Mart
- Data Lake, Machine Learning

Autonomous Transaction Processing (ATP)

- Transactions, Batch, Reporting, IoT
- Application Dev, Machine Learning

Modernization and Migration



… but not every database is an ideal candidate for ADB

Migration to Autonomous Database is always a logical migration

- Move the data, not the database
- Spoiler: There may be *another* option soon

Tools out-of-the-box

SQL Developer Web

Web-based Function rich, low code development env

No client software needed

Oracle REST Data Services

Ability to REST enable a schema and autogenerate REST endpoints for tables, views, and procedures

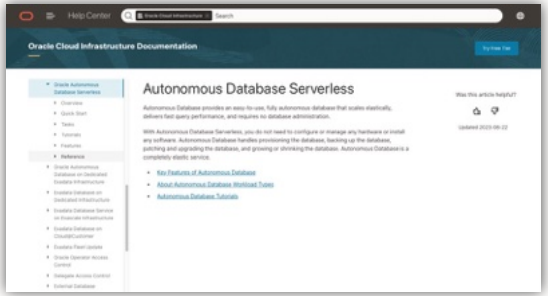
APEX

Execute SQL and PL/SQL

Build Data Models, generate DDL statements

Monitor and manage the DB

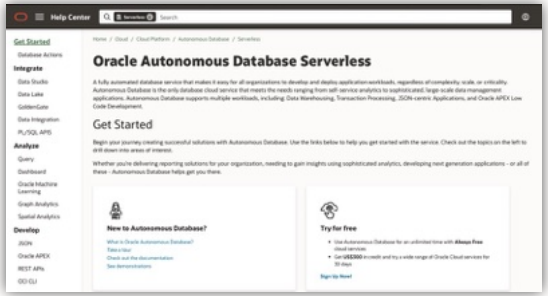
Essentials



Outside the database,
check OCI Documentation

Example: Deploy, start, stop, scale

Essentials



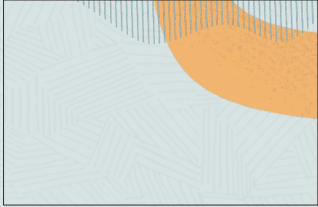
Inside the database,
check Database Documentation

Example: Schema, capabilities, connecting

Planning

How do we migrate our 5,000 databases to Oracle Autonomous Database?

Getting an Overview



1
Estate Explorer

2
Cloud Premigration Advisor Tool

3
Cloud Migration Advisor

Getting an Overview

1

Estate Explorer

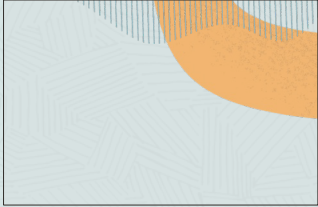
2

Cloud Premigration Advisor Tool

3

Cloud Migration Advisor

Getting an Overview



1 Estate Explorer

2 Cloud Premigration Advisor Tool

3 Cloud Migration Advisor

- Analyze 1000's of databases in just a few hours
- Provide a detailed TCO to compare on-premises and cloud
- View innovative visualizations and detailed reports
- Optimize your Autonomous Databases using Elastic Pools

Getting an Overview

1 Estate Explorer

2 Cloud Premigration Advisor Tool

3 Cloud Migration Advisor

Getting an Overview

1 Estate Explorer

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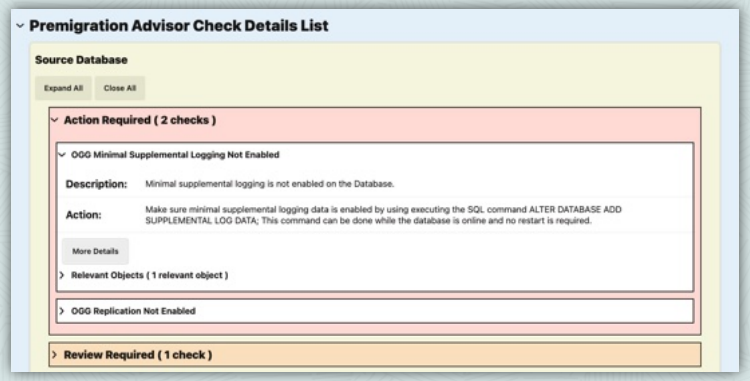

Getting an Overview

1 Estate Explorer

2 Cloud Premigration Advisor Tool

3 Cloud Migration Advisor

Getting an Overview

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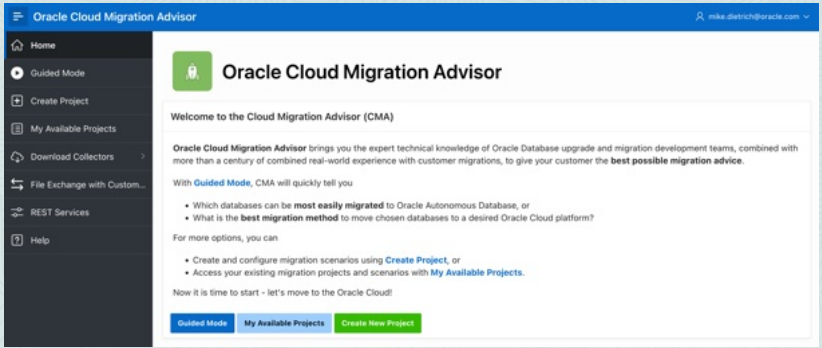
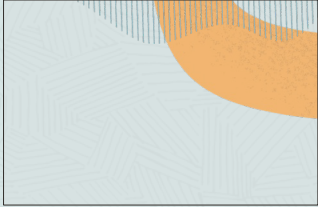
3 Cloud Migration Advisor



Getting an Overview

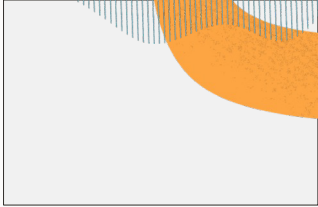


Estate Explorer ⇉ Cloud Premigration Advisor Tool ⇉ Cloud Migration Advisor

- OCI Database Migration Service
- Zero Downtime Migration
- Autonomous Migration Automation
- Data Pump
- GoldenGate

we cover this in part 3

Additional Resources



Database Upgrade and Migrations

Estate Explorer

Cloud Premigration Advisor Tool (CPAT) Analyzes Databases for Suitability of Cloud Migration (Doc ID 2758371.1)

Blog post series: Cloud Premigration Advisor Tool

Cloud Migration Advisor

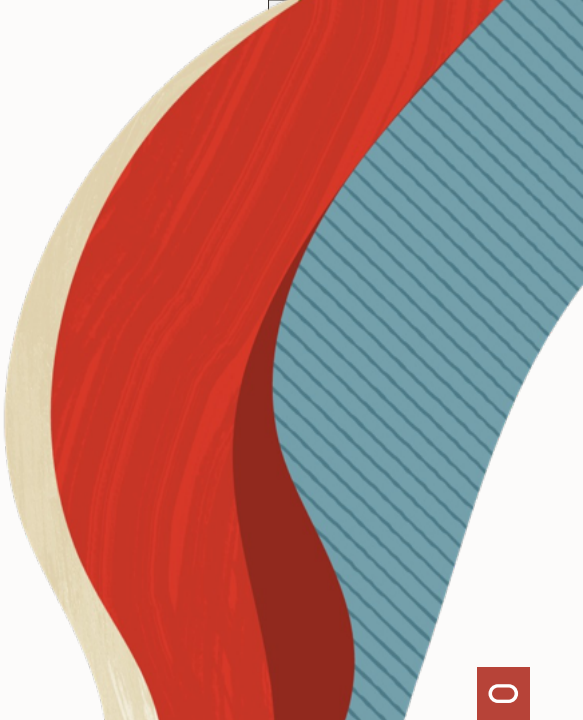
OCI Database Migration

Zero Downtime Migration

Estate Explorer

Demo

- Estate Explorer



Watch on YouTube

Cloud Premigration Advisor Tool

Evaluate an Oracle Database for compatibility with Autonomous Database

- Use Cloud Premigration Advisor Tool (CPAT)

Autonomous Database is not *just* another Oracle Database

Overview

Connects

Checks

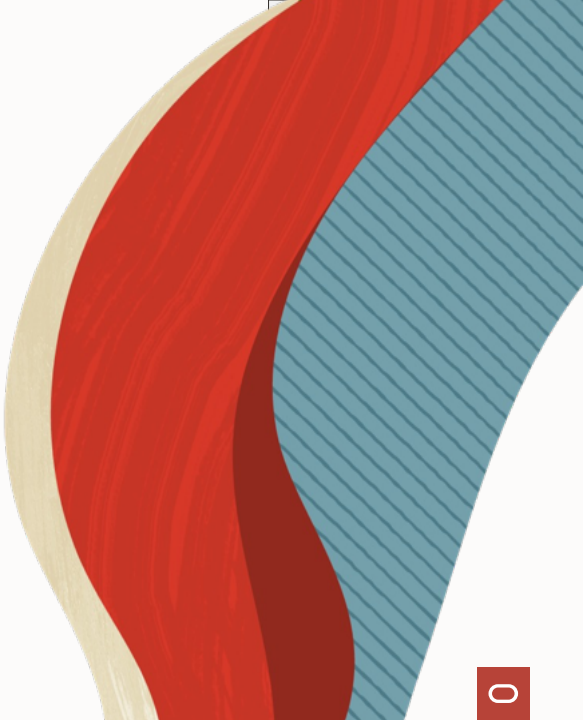
Reports

Fixes

(optional)

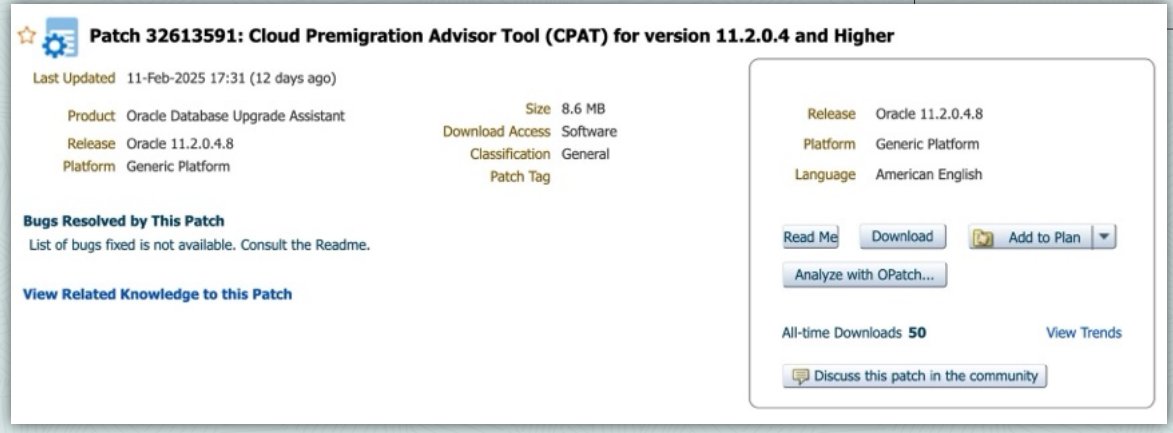
Demo

- Install CPAT
- Run CPAT
- View report



Watch on YouTube

Download CPAT from MOS Note: 2758371.1



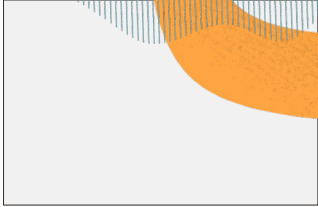
```
# Connection string to database
# Use JDBC standard

./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service>
```

Generating Connection String

Connection Description	Connection String	Notes
Thin	`jdbc:oracle:thin:@<host>:<port>:<sid>`	
Thin with PDB Service	`jdbc:oracle:thin:@<host>:<port>/<pdb-service-name>`	
Thin with AWS RDS	`jdbc:oracle:thin:@database-1.xxx.us-east-1.rds.amazonaws.com:<port>:<sid>`	Consult the AWS RDS documentation for instructions on finding your database's endpoint and port details. See this blog for an example.
OS Authentication	`jdbc:oracle:oci:@`	Command line must also include "--sysdba"
OS Authentication with PDB	`jdbc:oracle:oci:@`	Command line must also include "--sysdba" and "--pdbname <pdb-name>"
Wallet based with Java 8 JRE	`jdbc:oracle:thin:@<service-name>?TNS_ADMIN=<path-to-wallet>`	This example is derived from Oracle Autonomous documentation

Generating Connection String



CPAT is a **Java-based tool** that uses **JDBC**

- Understanding JDBC connection strings is essential.

```
./premigration.sh --connectstring jdbc:oracle:oci:@ --targetcloud ATPD –sysdba
```

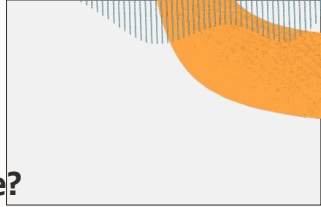
JDBC Connection String Structure:

- **Connection strings are URLs** and always start with **jdbc:**.
- CPAT **only supports Oracle databases**, so the next segment is always **oracle:**.
- The third segment specifies the **JDBC driver type**:
  - **thin:** – Uses the Thin driver (lightweight, pure Java, requires hostname/port/service name).
  - **oci:** – Uses the Thick driver (Oracle Call Interface), which requires Oracle client libraries.
    - Note: **"oci"** here stands for **Oracle Call Interface**, not **Oracle Cloud Infrastructure**.
- The connection string **always includes an @**, but what follows depends on the specific use case.
- The choice between **Thin or Thick (OCI) drivers** depends on the connection requirements.

```
# User to run the check
# Omit if you use OS authentication

./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service> \
   --username CPAT_CHECK
```

Authentication Methods



How does CPAT connect to the source (or target) database? Which authentication methods are supported?

- CPAT connects to your database using JDBC.
- Oracle JDBC connect strings are URL based and always begin with jdbc:oracle:thin:@ or jdbc:oracle:oci:@
- Example CPAT connect strings are given in the CPAT MOS Note and Database Documentation
- You can use whatever JDBC connection string works best for your situation (connectivity/security). Thin or Thick (OCI).
- Use whatever authentication/security you'd like:simple username/password
  - wallets
  - Kerberos
  - anything supported by OJDBC

- If you want to use OS Authentication then you need to use the thick driver and have an ORACLE_HOME with the required binaries. ZDM typically uses OS Authentication

```
# If connectstring is to a CDB, CPAT analyzes
# all PDBs, unless you specify a list of PDBs

./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service> \
   --username CPAT_CHECK          \
   --pdbname PDB_COMPLEX
```

```
# Which schemas to migrate
# If you don't specify any, it defaults to
# which is not recommended
./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service> \
   --username CPAT_CHECK          \
   --pdbname PDB_COMPLEX          \
   --schemas appuser,reportuser
```

```
# Where to store the reports and logs
# Defaults to current directory

./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service> \
   --username CPAT_CHECK          \
   --pdbname PDB_COMPLEX          \
   --schemas appuser,reportuser   \
   --outdir /home/oracle/cpat-db
```

```
# Which target do you plan to migrate to
# default, atps, atpd, adws, adwd

./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service> \
   --username CPAT_CHECK          \
   --pdbname PDB_COMPLEX          \
   --schemas appuser,reportuser   \
   --outdir /home/oracle/cpat-db  \
   --targetcloud atps
```

```
# If you decided on a method already, specify it
# datapump, datapump_dblink, goldengate

./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service> \
   --username CPAT_CHECK          \
   --pdbname PDB_COMPLEX          \
   --schemas appuser,reportuser   \
   --outdir /home/oracle/cpat-db  \
   --targetcloud atps             \
   --migrationmethod goldengate
```

```
# One or more report formats separated by spaces
# json html text

./premigration.sh \
   --connectstring jdbc:oracle:thin:@<host>:<port>/<service> \
   --username CPAT_CHECK          \
   --pdbname PDB_COMPLEX          \
   --schemas appuser,reportuser   \
   --outdir /home/oracle/cpat-db  \
   --targetcloud atps             \
   --migrationmethod goldengate   \
   --reportformat html
```

That's a lot of options.
Help me out, please!

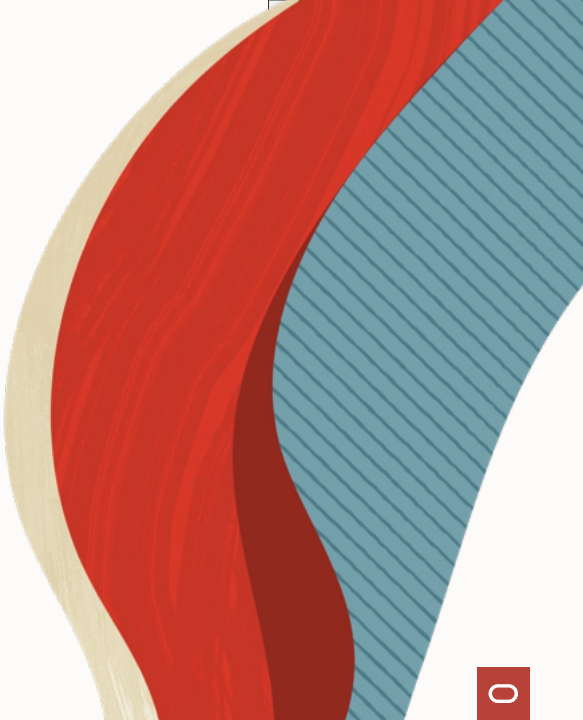
CPAT COMPOSER

https://macsdata.com/oracle/cpat-composer

- Free to use
- Available online
- Not an official Oracle tool
- Created by Marcus Doeringer
  Our migration superstar

Demo

- CPAT Composer



Watch on YouTube

CPAT integration

Generate CPAT report

ZERO DOWNTIME MIGRATION
Run as part of its migration assessment

OCI DATABASE MIGRATION SERVICE
Run as part of its migration assessment

ENTERPRISE MANAGER MIGRATION WORKBENCH
Run as part of its migration assessment

SQL DEVELOPER / SQLcl
Through the MIGRATEADVISOR command

Interpreting the CPAT Report

```
--CPAT outputs in a number of ways

./premigration.sh ... --reportformat json,text,html
```

ORACLE

Sat Feb 22 20:59:55 UTC 2025

Cloud Premigration Advisor Tool (CPAT) Report

CPAT Version: 25.2.1-1
Version Date: Feb 17, 2025
Days Since Last CPAT Update: 38 days

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Expand All | Close All

Premigration Advisor Report Summary

Report Result	Action Required
Number of schemas analyzed:	4
List of schemas analyzed:	[PPRUSER, CO, HR, MYAPP]

Expand All | Close All

Premigration Advisor Report Summary

Report Result	Action Required
Number of schemas analyzed:	4
List of schemas analyzed:	[PDBUSER, CO, HR, MYAPP]

Report Results Overview

Source Database		Target Database		Migration Method		Additional Tasks	
Action Required	2	Action Required	10	Action Required	1	Action Required	0
Review Required	1	Review Required	7	Review Required	2	Review Required	0
Review Suggested	2	Review Suggested	4	Review Suggested	1	Review Suggested	4
Passed	16	Passed	17	Passed	4	Passed	16

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Report Details

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Report Details

CPAT Application Version:	25.2.1-1
Report Generated On:	Sat Feb 22 20:59:44 UTC 2025
Analysis Property File:	premigration_advisor_analysis.properties
Analysis Mode:	FULL
Target Cloud Type:	ALL
Migration Method(s):	[DATAPUMP, DATAPUMP_DBLINK, GOLDENGATE]
Command Line Options:	--connectstring jdbc:oracle:thin:@dbsystemaz:1521/pdb_complex.sub07021512520.upgradeteam.oraclevcn.com --targetcloud ALL --username SYS --sysdba --analysisprops premigration_advisor_analysis.properties --outdir /home/oracle/cpat_22_feb_2025 --logginglevel FINE --migrationmethod ALL --reportformat JSON HTML TEXT --resultlevel R0 --zip --gatherdetails ALL

More Details

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Report Analysis Notes

More Details

Return to Table of Contents

Report Analysis Notes

Source Database Details

Source Database Version Information

Source Database Patch Information

Source Database Redo Information

Source Database Supplemental Information

Source Database Schema Summary Information

Premigration Advisor Check Details List

Source Database

Source Database Details

Source Cloud Vendor:	Oracle Cloud Infrastructure (Database)
Source Database Host Name:	dbsystemaz
Source Oracle SID:	ORCL
Source Database Created Date:	Fri Jan 24 22:23:51 UTC 2025
Source Database DBID:	1719058167
Source Database Unique Name:	ORCL_5tr_iad
Source Instance Name:	ORCL
Source Database Name:	ORCL
Source Database Username:	SYS
Source Database Port String:	x86_64/Linux 2.4.xx
Source Database Platform ID:	13
Source Database Container Name:	PDB_COMPLEX
Source DB Block Size in KB:	8
Source DB Combined Size of DATA, TEMP, LOG, and CONTROL File Usage in GB:	5.044
Source DB Size of DATA File Usage in GB:	1.856
Source DB Size of TEMP File Usage in GB:	0.17

More Details

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Report Analysis Notes

Source Database Details

Source Database Version Information

Source Database Patch Information

Source Database Redo Information

Source Database Supplemental Information

Source Database Schema Summary Information

Premigration Advisor Check Details List

Source Database

Action Required (2 checks)

OGG Minimal Supplemental Logging Not Enabled

Description: Minimal supplemental logging is not enabled on the Database.

Action: Make sure minimal supplemental logging data is enabled by using executing the SQL command ALTER DATABASE ADD SUPPLEMENTAL LOG DATA; This command can be done while the database is online and no restart is required.

More Details

Relevant Objects (1 relevant object)

OGG Replication Not Enabled

Description: ENABLE_GOLDENGATE_REPLICATION init.ora parameter is not set.

Action: Make sure ENABLE_GOLDENGATE_REPLICATION is set to TRUE by using executing the SQL command: ALTER SYSTEM SET ENABLE_GOLDENGATE_REPLICATION=TRUE SCOPE=BOTH; This command can be done while the database is online and no restart is required.

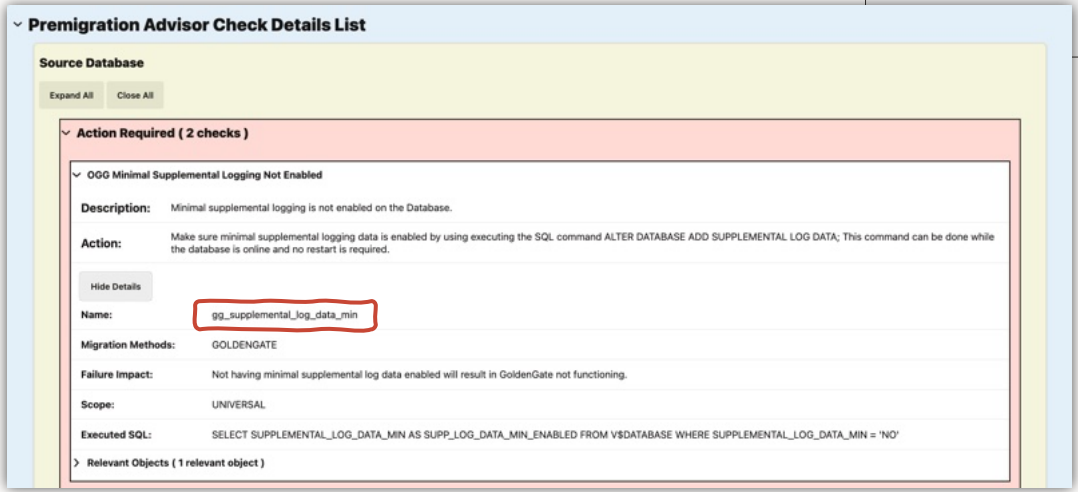
More Details

Relevant Objects (1 relevant object)

The documentation has additional information on each CPAT check

Utilities Guide, Oracle Database 23ai

CPAT Checks



CPAT Checks

19.10.9 gg_supplemental_log_data_min

The Premigration Advisor Tool check `gg_supplemental_log_data_min` indicates that minimal supplemental logging is not enabled on the source database.

Result Criticality

Action required

Has Fixup

Yes

Target Cloud

- ADWD Autonomous Data Warehouse Dedicated
- ADWS Autonomous Data Warehouse Shared
- ATPD Autonomous Transaction Processing Dedicated
- ATPS Autonomous Transaction Processing Shared
- Default (an Oracle Database instance that is not Oracle Autonomous Database)

Scope

`UNIVERSAL`

Description

This check applies to schemas for Oracle GoldenGate migrations. Minimal supplemental logging, a database-level option, is required for an Oracle source database when using Oracle GoldenGate. This configuration adds row chaining information, if any exists, to the redo log for update operations.

```
--Flood control in the CPAT report
--Prevent one check from reporting huge amount of affected objects

./premigration.sh ... --maxrelevantobjects 100


./premigration.sh ... --maxtextdatarows 100
```

```
--Exclude checks that are "PASSED"
--Produces a "cleaner" report that's easier to read

./premigration.sh ... --resultlevel R1
```


How do I fix the findings?

```
--Generates fixup scripts whenever possible
--Stores the scripts on disk for review

./premigration.sh ... --genfixups
```

```
$ cat enable_javavm.sql

-- Check Name: has_java_source
-- Check Result: Action Required
--
-- Action:
--    Enable the JAVAVM feature on the target system by executing this SQL
--    and then restart your instance
--

BEGIN
DBMS_CLOUD_ADMIN.ENABLE_FEATURE( feature_name => 'JAVAVM' );
END;
/
```

Clearing the Findings

1 PLANNING

2 PREPARING

3 MIGRATING

4 OPERATING

May 15, 15:00 CET
Sign up

Best Practices

```
--Always use the latest version of CPAT
--Verify that you are using the latest version
--Download latest version from Doc ID 2758371.1

./premigration.sh --updatecheck
```

```
There is no newer version available of the Cloud Premigration Advisor Tool.
The version you are running, 24.11.1, is the latest available version.
```


```
--Use a parameter file with all your settings
--Avoid issue with long command and enclosing/escaping strings

./premigration.sh --parfile sales.cfg
```

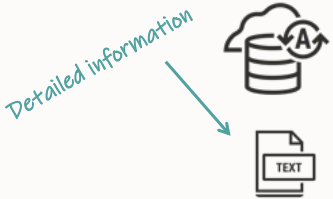
Get more accurate recommendation by generating a target properties files

Target Properties File

We don't have all the details

```
./premigration.sh ... --targetcloud ATPD
```

Target Properties File




```
./premigration.sh ... --analysisprops <file>
```

```
./premigration.sh ... --gettargetprops
```

Additional Information

You can run CPAT on a live database.
It is completely non-intrusive

```
grant select any dictionary to cpat_check identified by ... ;
grant create session to cpat_check;

--Only if character set conversions are needed
--grant select on SYSTEM.DUM$COLUMNS to cpat_check;
--grant select on SYSTEM.DUM$DATABASE to cpat_check;
```

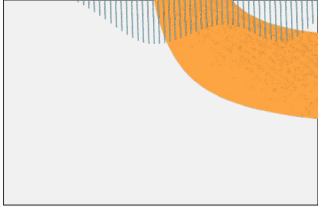
CPAT does not connect to the Internet

- Except for update check

But we're on Oracle Database 10.2.0.1

- CPAT fully supports Oracle Database 11.2.0.4 and later
- Supports earlier releases on a *best-effort* basis

Additional Resources



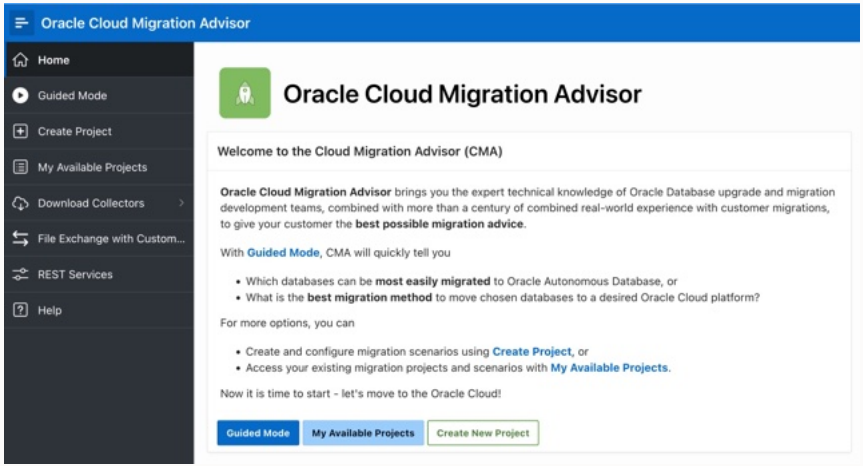
- Cloud Premigration Advisor Tool (CPAT) Analyzes Databases for Suitability of Cloud Migration (Doc ID 2758371.1)
- Blog post series: Cloud Premigration Advisor Tool
- Utilities Guide, Oracle Database 23ai

Cloud Migration Advisor

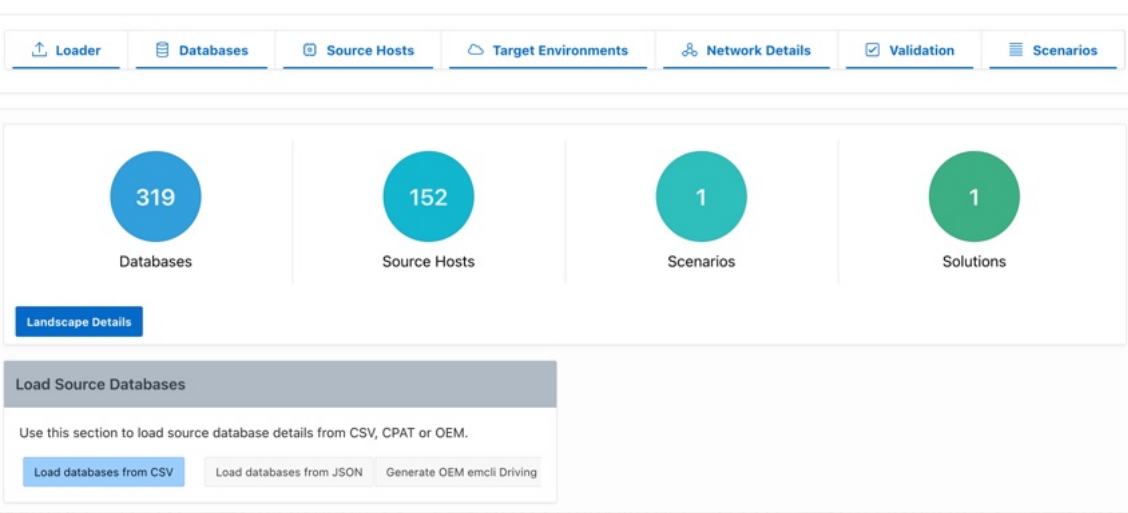
42 different migration methods

But which one is the best?

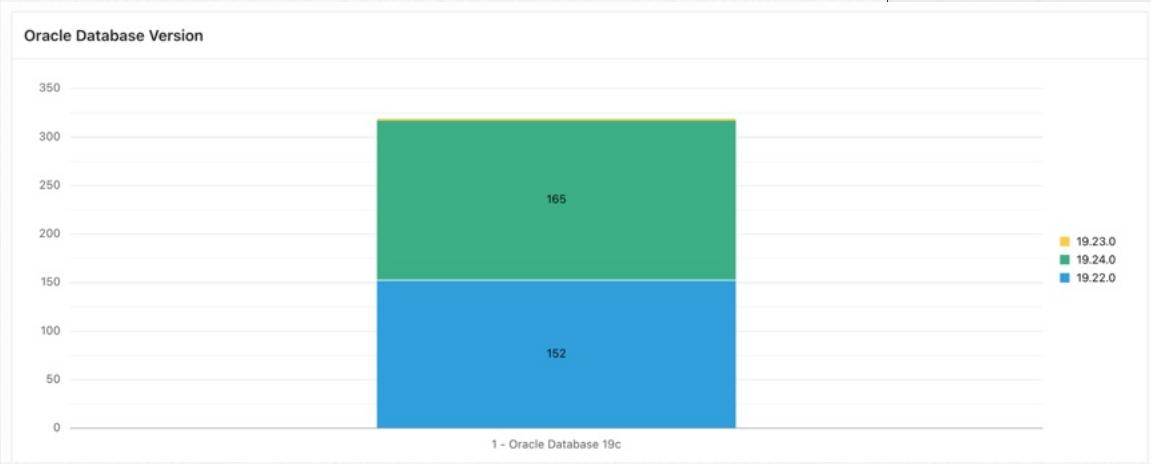
CMA knows the answer



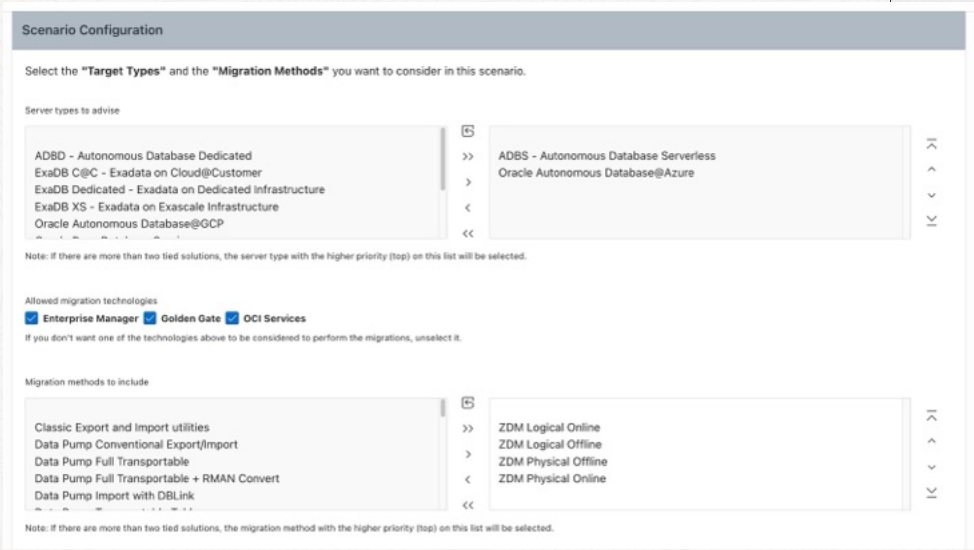
Project Overview



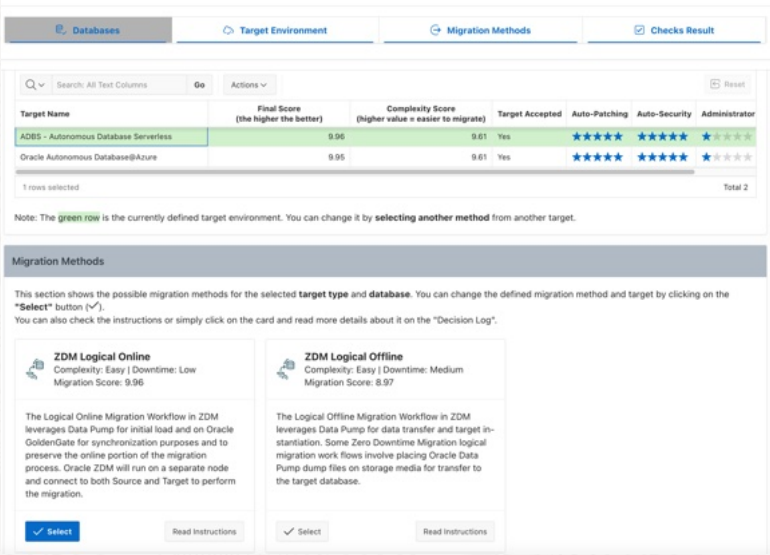
Project Overview



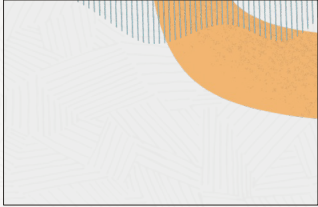
Project Overview



Project Overview



CMA – How to get the tool?



Send us an email – it is an APEX app

- Vagrant build
- Zip file ready to be installed into ADB-free
- Oracle internal: cma.oraclecorp.com

Step 1

Collect estate information

Cloud Migration Advisor

https://www.oracle.com/goto/upgrade

Customer Fleet → Download Extractor → Collect Information →

Download Extractor

- **CPAT**
- SQL Extractor
- **OEM Extractor**
- Excel sheet

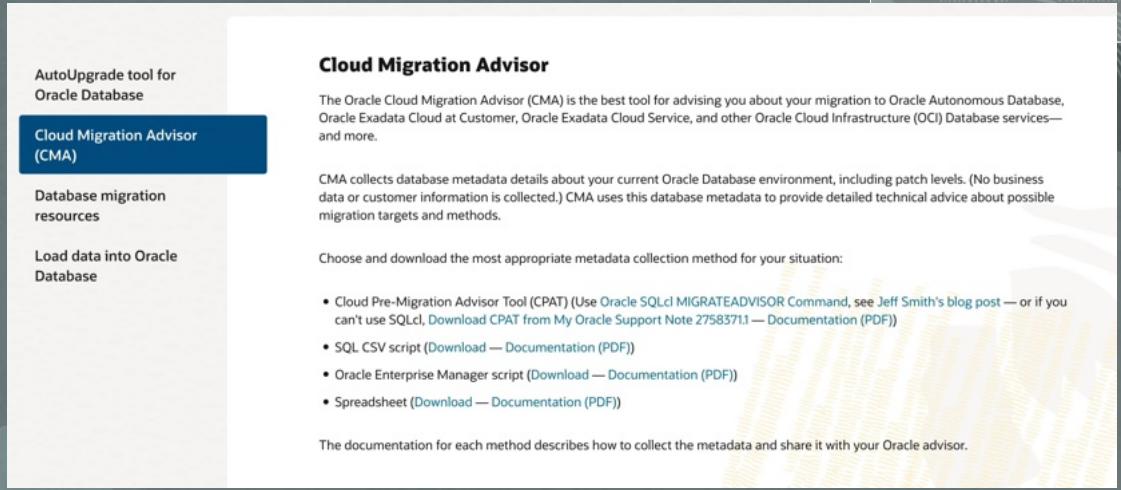
Option 1:
Install CMA in your ADB (free)

Option 2:
Secure Upload to Oracle Box (via)
Vagrant Build

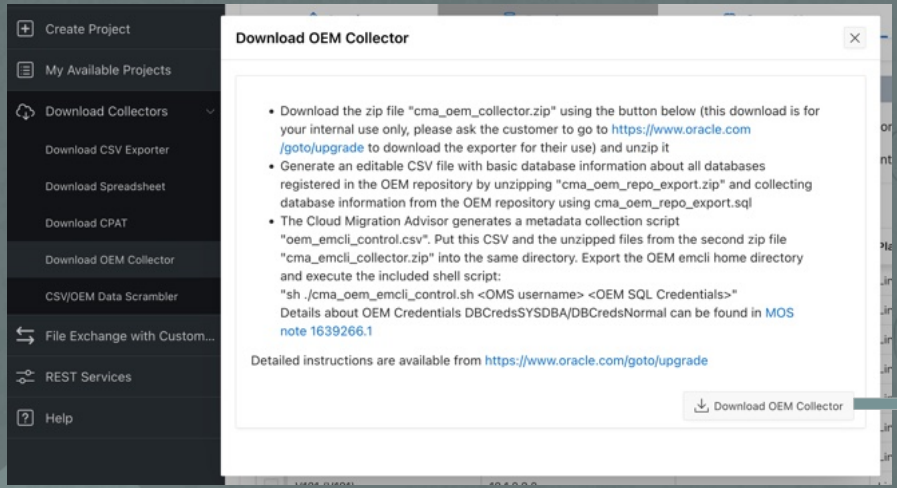
Start here:

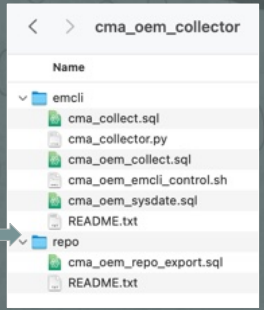
www.oracle.com/goto/upgrade

Cloud Migration Advisor

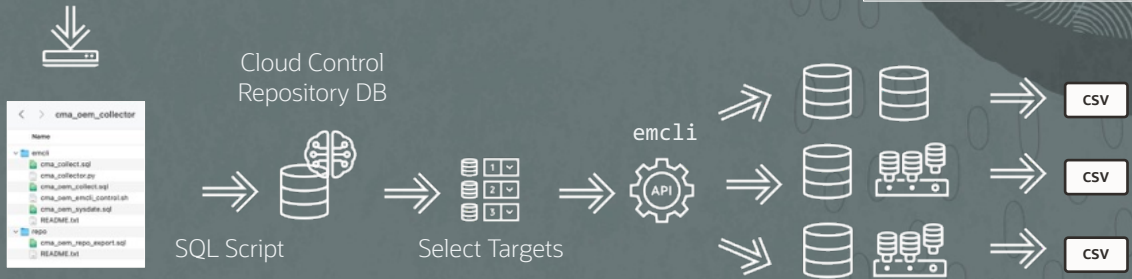


Cloud Migration Advisor | OEM Collector

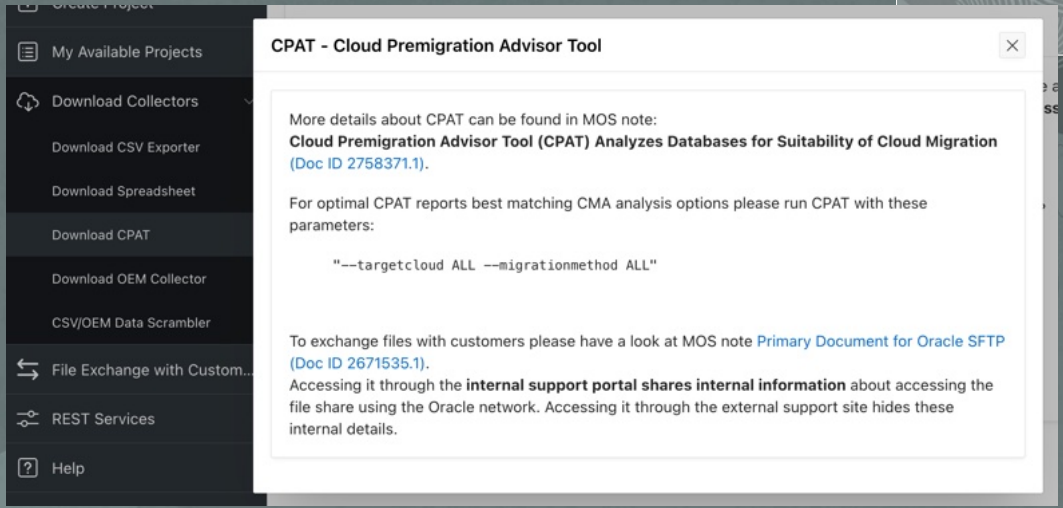




Cloud Migration Advisor | OEM Collector



Cloud Migration Advisor | CPAT



Cloud Migration Advisor | CPAT

MOS Note: 2758371.1

```
premigration.sh
premigration.cmd
bin
README.txt
misc
lib
p32613591_112048_Generic.zip
```

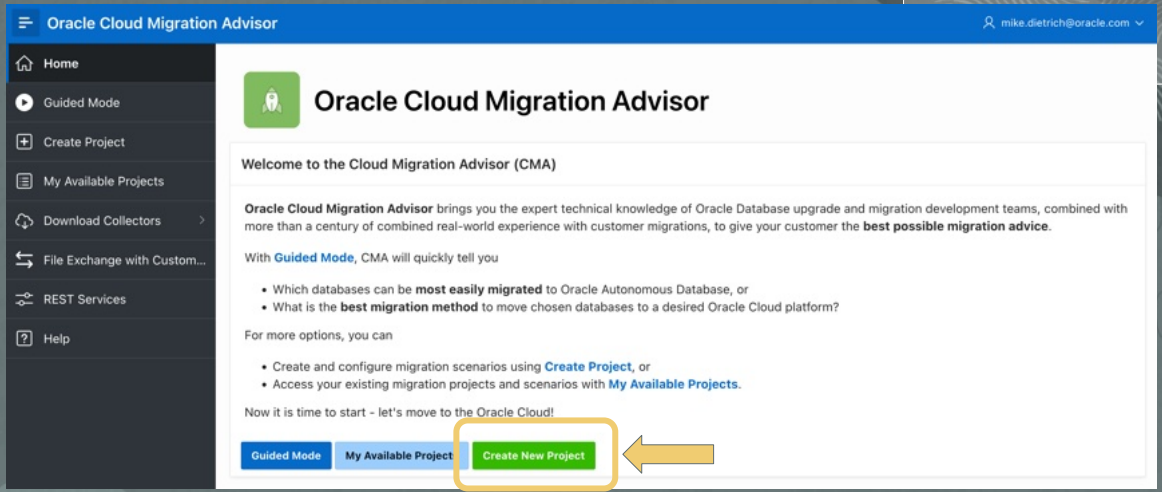
Shell Script
`cma.sh`

Discovers information from non-CDB or PDB individually on a per-DB basis

Step 2

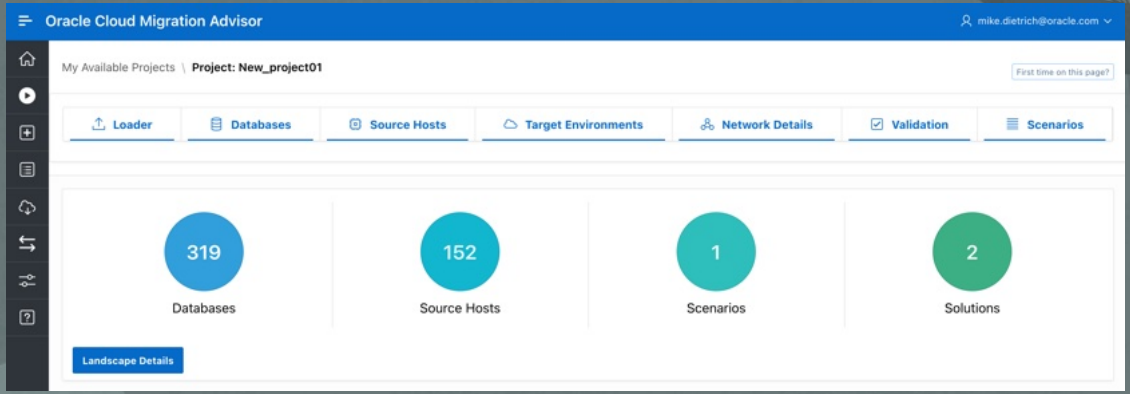
Load estate information into CMA

Cloud Migration Advisor | New Project

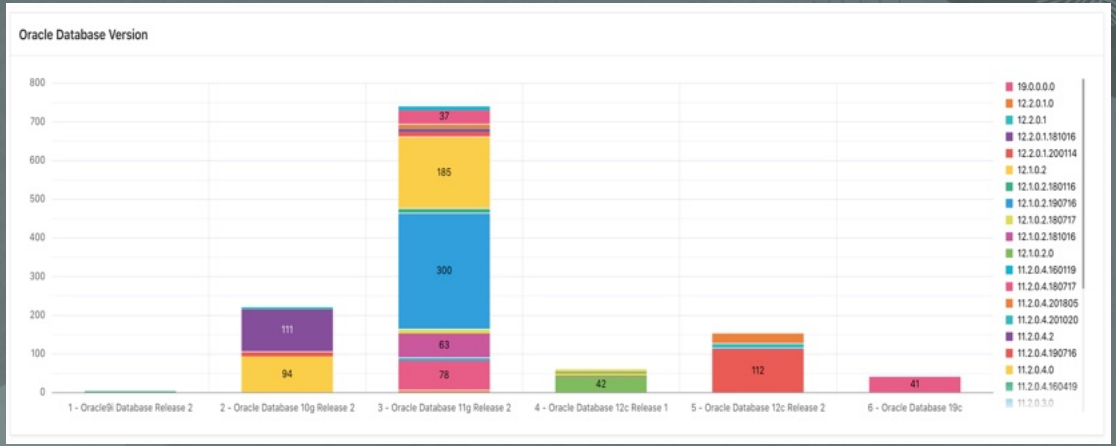


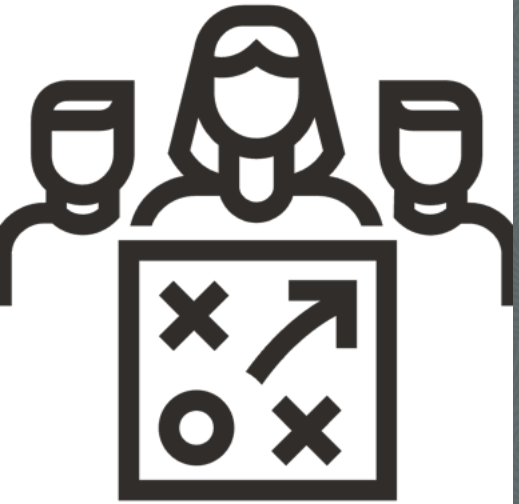
Cloud Migration Advisor | Load Data

Cloud Migration Advisor | Load Data



Cloud Migration Advisor | Landscape Example

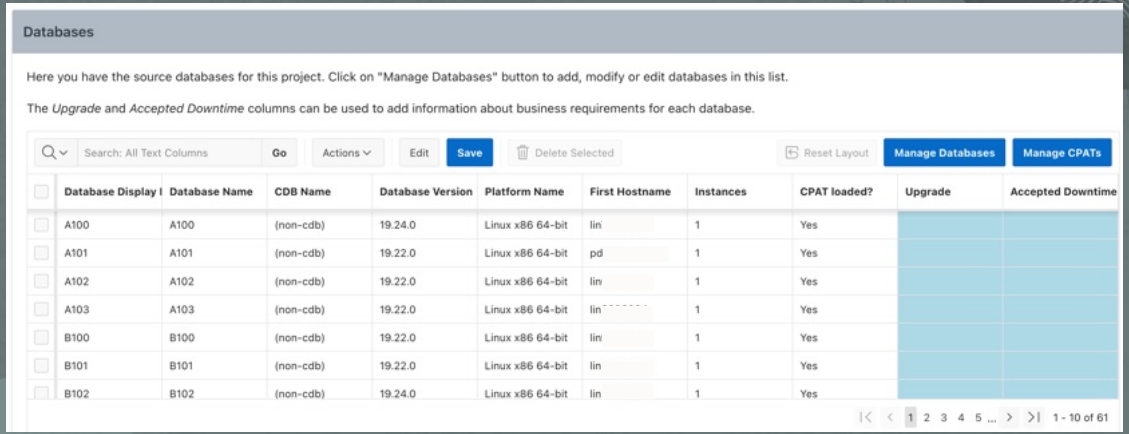




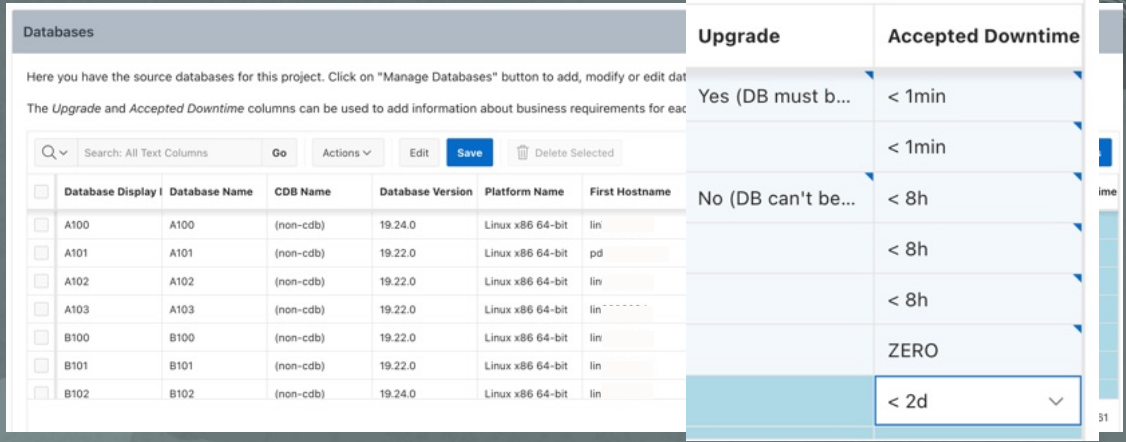
Step 3

Add additional information and constraints

Cloud Migration Advisor | DB Overview



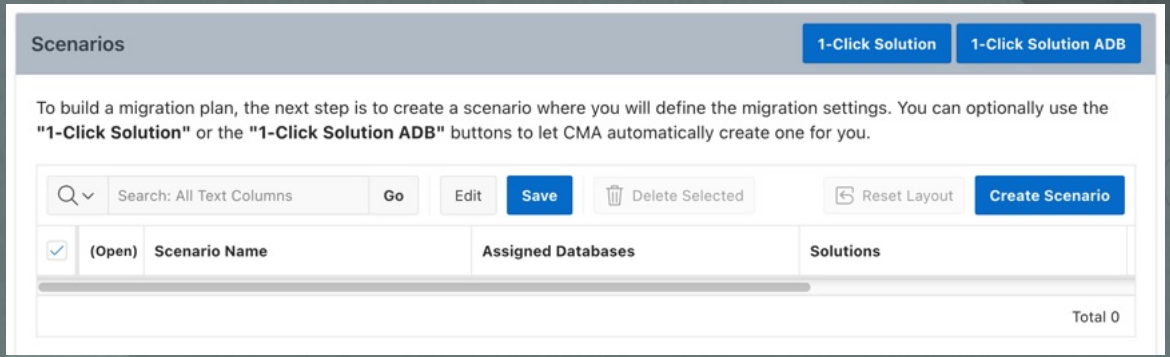
Cloud Migration Advisor | DB Overview



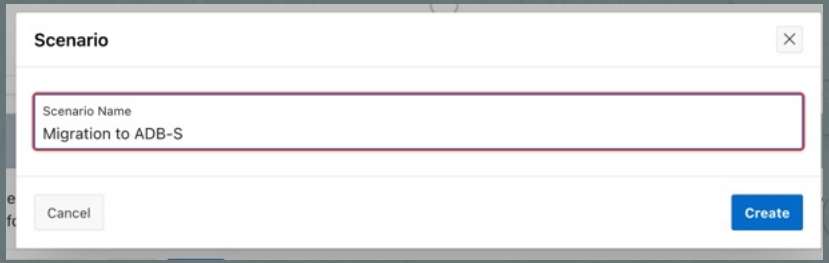
Step 4

Group the databases

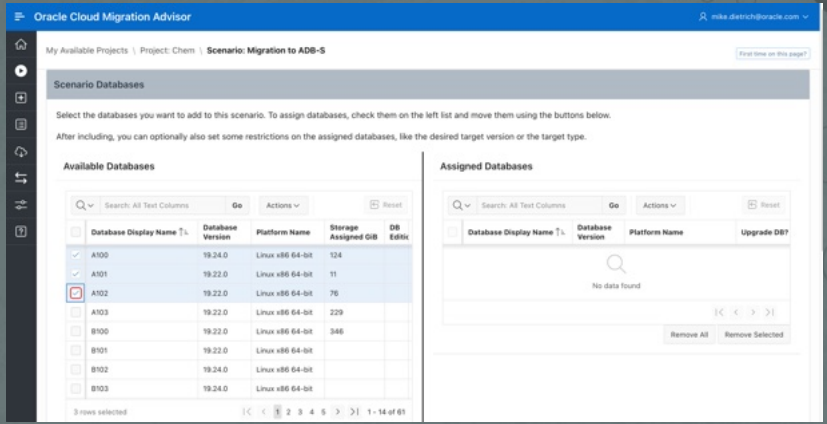
Cloud Migration Advisor | Scenarios



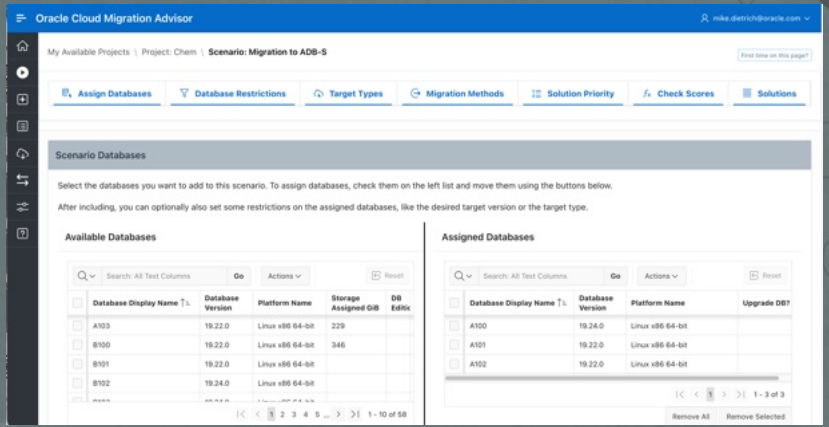
Cloud Migration Advisor | Scenarios



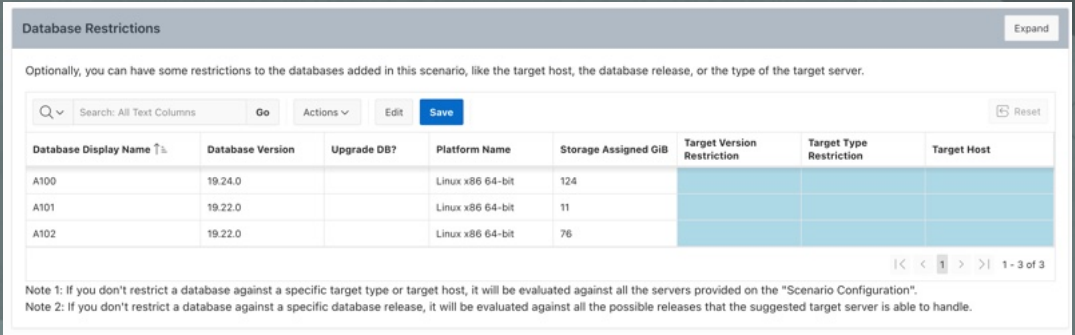
Cloud Migration Advisor | Scenarios



Cloud Migration Advisor | Scenarios



Cloud Migration Advisor | Scenarios



Database Restrictions

Expand

Optionally, you can have some restrictions to the databases added in this scenario, like the target host, the database release, or the type of the target server.

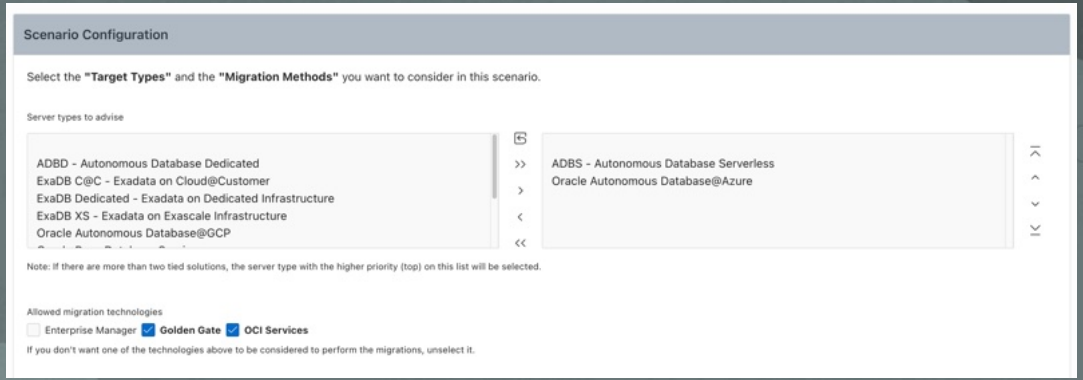
Search: All Text Columns | Go | Actions | Edit | Save | Reset

Database Display Name	Database Version	Upgrade DB?	Platform Name	Storage Assigned GiB	Target Version Restriction	Target Type Restriction	Target Host
A100	19.24.0		Linux x86 64-bit	124			
A101	19.22.0		Linux x86 64-bit	11			
A102	19.22.0		Linux x86 64-bit	76			

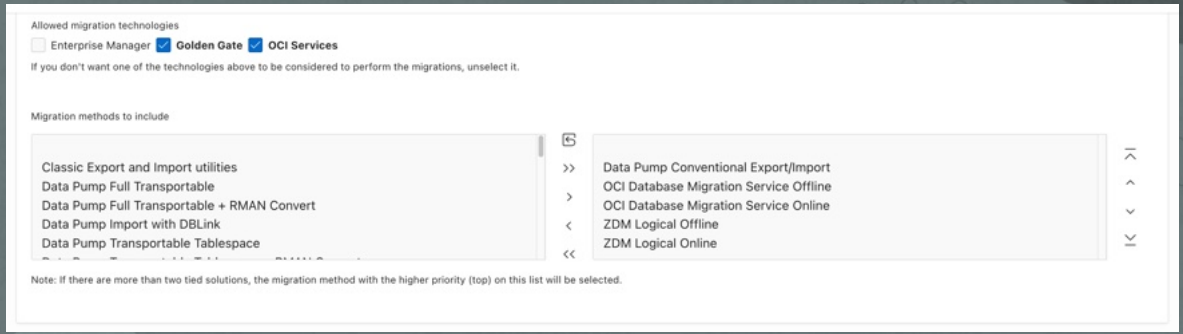
1 - 3 of 3

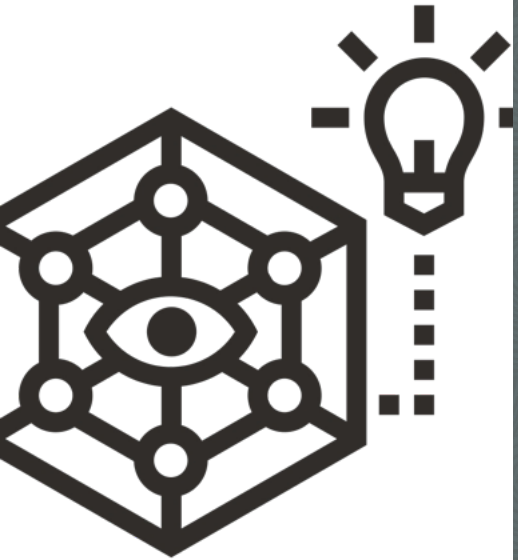
Note 1: If you don't restrict a database against a specific target type or target host, it will be evaluated against all the servers provided on the "Scenario Configuration".
Note 2: If you don't restrict a database against a specific database release, it will be evaluated against all the possible releases that the suggested target server is able to handle.

Cloud Migration Advisor | Scenarios



Cloud Migration Advisor | Scenarios

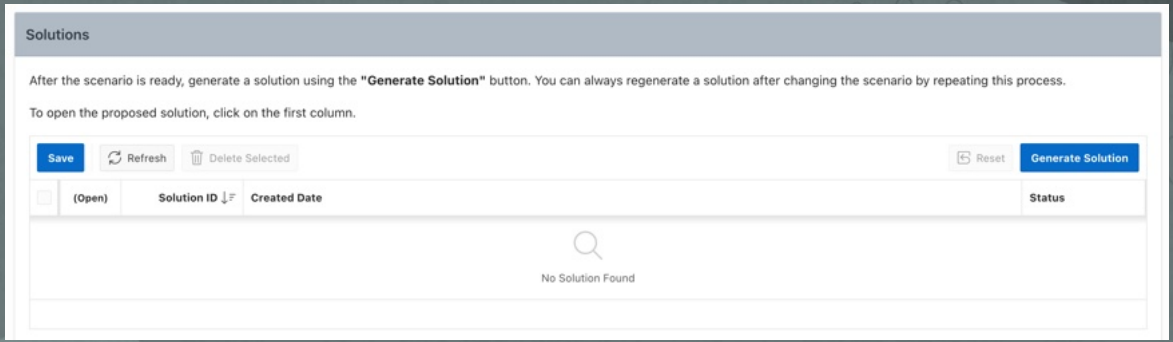




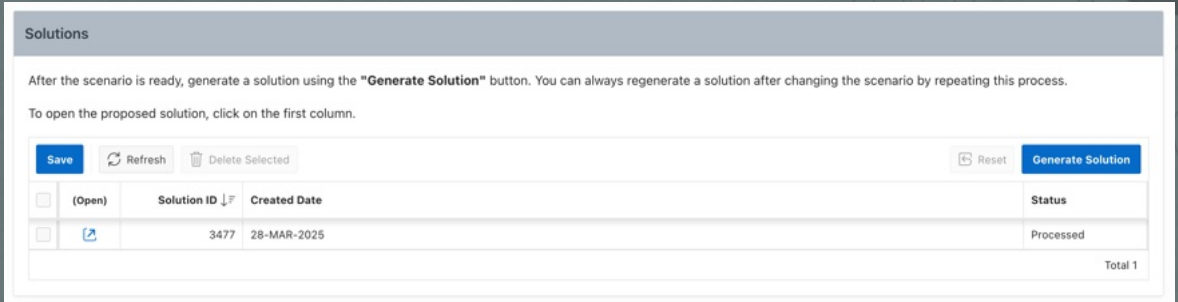
Step 5

Create solution

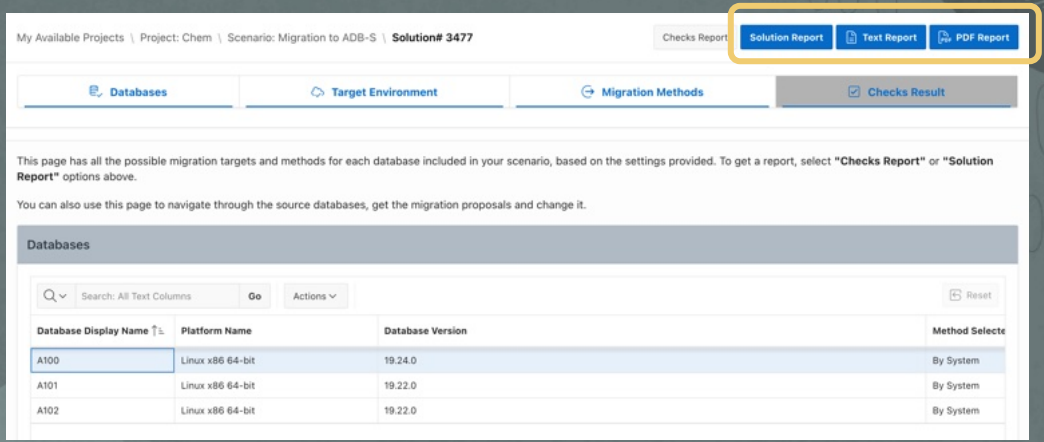
Cloud Migration Advisor | Solution



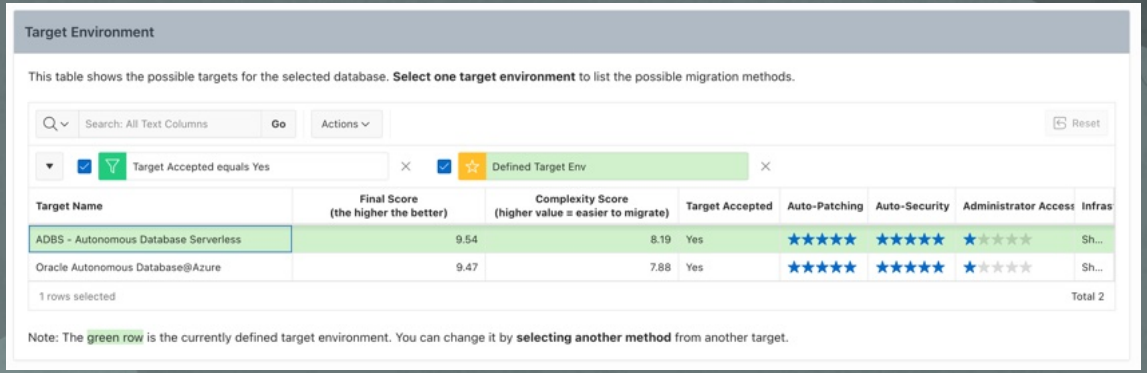
Cloud Migration Advisor | Solution



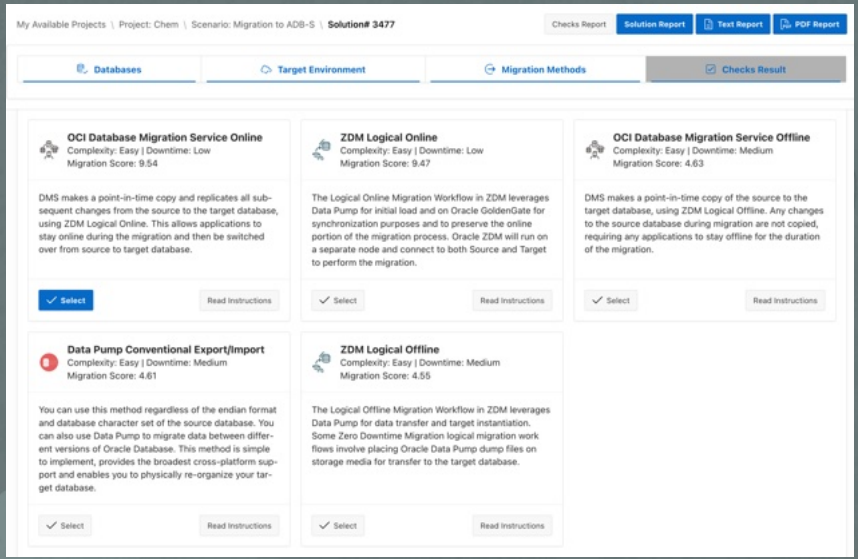
Cloud Migration Advisor | Solution



Cloud Migration Advisor | Solution



Cloud Migration Advisor | Solution



Cloud Migration Advisor | Complexity

Migration Complexity Table | Migration Complexity Chart

Migration Complexity: All

Go | Actions

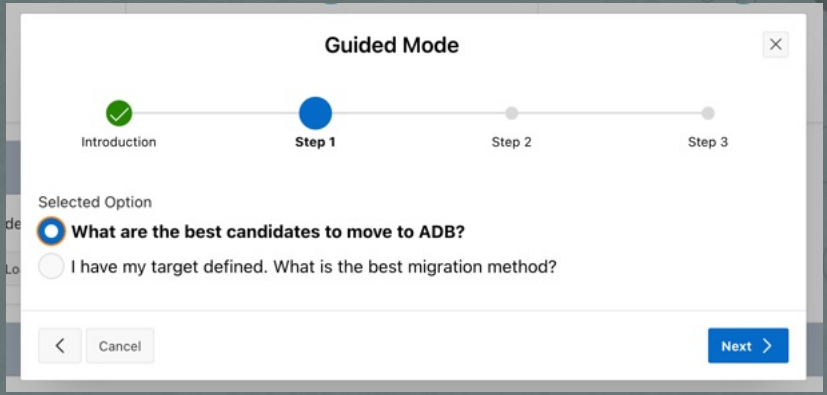
Database Display Name	Database Version	Target Name	Method Title	Complexity Score (higher value = easier to migrate)	Final Score (the higher the better)	Solution Defined	Checks (Action Required)	Checks (Review Required)	Checks (Review Suggested)
A102	19.22.0	ADBS - Autonomous Database Serverless	OCI Database Migration Service Online	8.86	9.71	System Defined	5	3	5
A101	19.22.0	ADBS - Autonomous Database Serverless	OCI Database Migration Service Online	8.25	9.56	System Defined	8	7	5
A100	19.24.0	ADBS - Autonomous Database Serverless	OCI Database Migration Service Online	8.19	9.54	System Defined	9	6	5

1 - 3

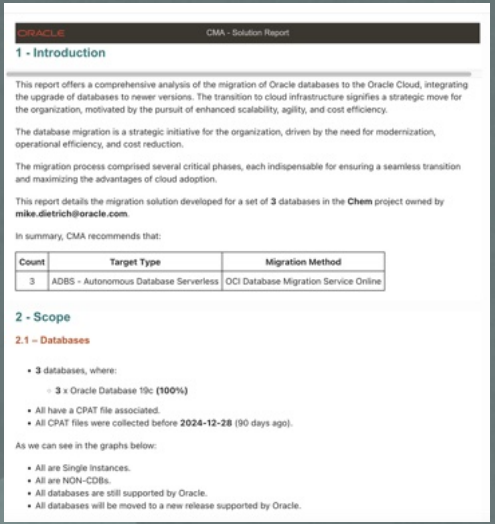
Alternative Route

Guided Mode

Cloud Migration Advisor | Guide Mode



Cloud Migration Advisor | Report



ORACLE CMA - Solution Report

1 - Introduction

This report offers a comprehensive analysis of the migration of Oracle databases to the Oracle Cloud, integrating the upgrade of databases to newer versions. The transition to cloud infrastructure signifies a strategic move for the organization, motivated by the pursuit of enhanced scalability, agility, and cost efficiency.

The database migration is a strategic initiative for the organization, driven by the need for modernization, operational efficiency, and cost reduction.

The migration process comprised several critical phases, each indispensable for ensuring a seamless transition and maximizing the advantages of cloud adoption.

This report details the migration solution developed for a set of **3** databases in the **Chem** project owned by **mike.dietrich@oracle.com**.

In summary, CMA recommends that:

Count	Target Type	Migration Method
3	ADBS - Autonomous Database Serverless	OCI Database Migration Service Online

2 - Scope

2.1 – Databases

- **3** databases, where:
  - **3** x Oracle Database 19c **(100%)**
- All have a CPAT file associated.
- All CPAT files were collected before **2024-12-28** (90 days ago).

As we can see in the graphs below:

- All are Single Instances.
- All are NON-CDBs.
- All databases are still supported by Oracle.
- All databases will be moved to a new release supported by Oracle.

3 – Solution Summary

Total databases per suggested target type covered in this scenario:

- **3** in "ADBS - Autonomous Database Serverless" **(100%)**.

Total databases per suggested migration method covered in this scenario:

- **3** using "OCI Database Migration Service Online" **(100%)**.

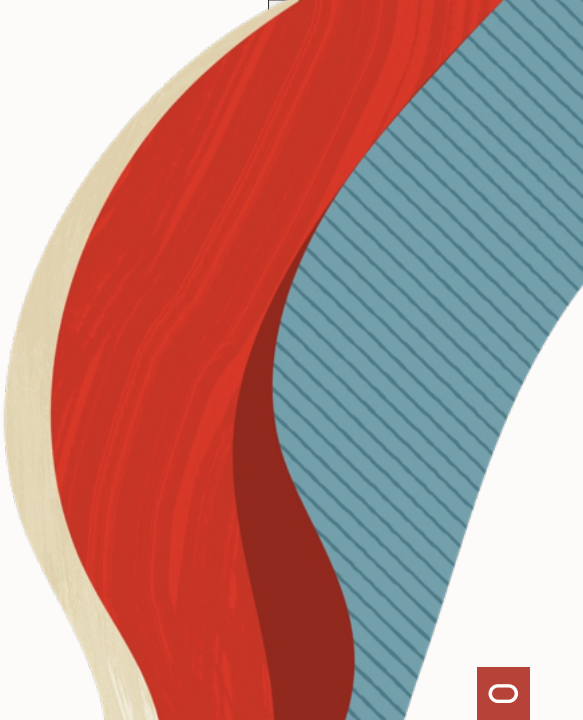
4 – Database Fleet Summary

4.1 - Proposed Solution ADBS - Autonomous Database Serverless using OCI Database Migration Service Online

Database Name	Version	Multitenant	RAC	CPAT	Upgrade	Score	Complexity
A102	19.22.0	No	No	Yes	-	9.71	Easy
A101	19.22.0	No	No	Yes	-	9.56	Easy
A100	19.24.0	No	No	Yes	-	9.54	Easy

Demo

- Cloud Migration Advisor



Watch on YouTube

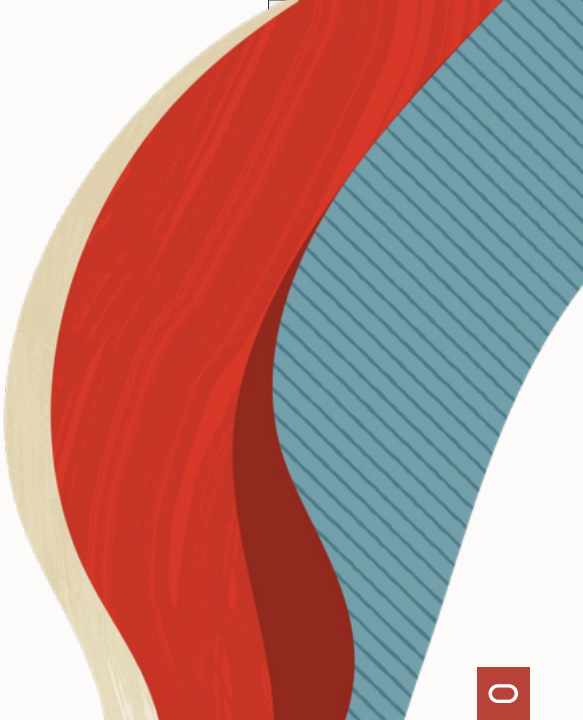
Introducing …

… the databases we are going to migrate

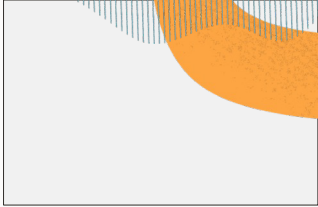
Sample Databases

In this series, we will use two databases:

- The Simple Database
- The Complex Database



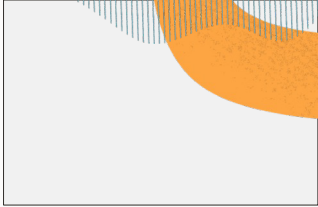
Simple Database



The Simple Database is based on Oracle Sample Schemas

https://github.com/oracle-samples/db-sample-schemas

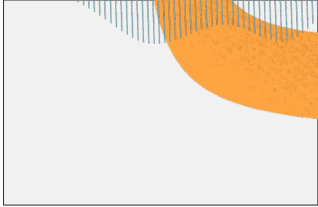
Complex Database



The Complex Database is based on Oracle Sample Schemas
+ Manually created common application objects:

https://alexzaballa.com/webinar-migration-to-oracle-autonomous-database-sample-databases/

Complex Database



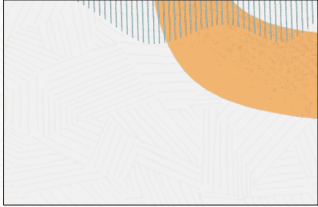
- External Tables
- Tables with encrypted columns
- Tables with XML columns
- Tables using Spatial
- Tables with ROWID columns
- Table Clusters
- Scheduler Jobs running external scripts
- External Library
- Java Objects

- XML Schemas
- Profiles using custom password verification functions
- SQL Patches and SQL Plan Baselines
- Jobs using DBMS_JOB
- Procedure calling DBMS_SHARED_POOL and UTL_HTTP

Deploy ADB on your laptop

You can run ADB on a container in your local environment

ADB Container



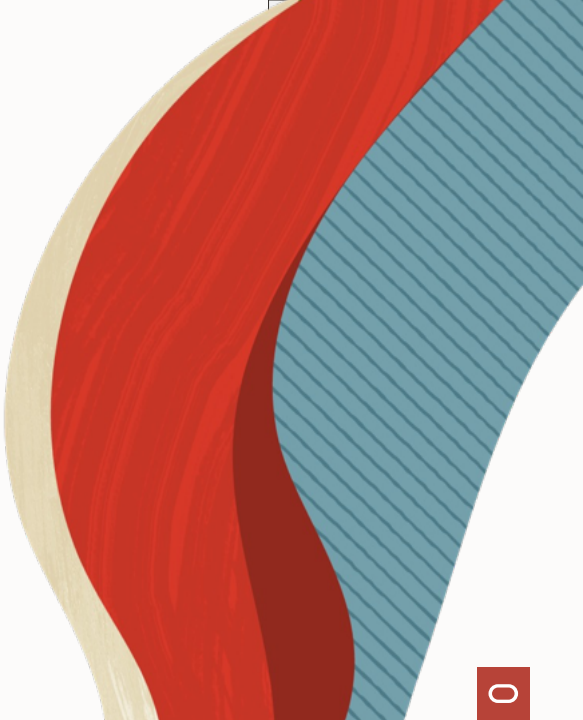
- Database versions: 19c and 23ai
- Workload types: ATP and ADW
- Platform: x86_64
- Licensed under Oracle Free Use Terms and Conditions

Use with podman on own
MacOS (x86_64) or Windows (x86_64)

Oracle Autonomous Database Free

Demo

- Install ADB Container



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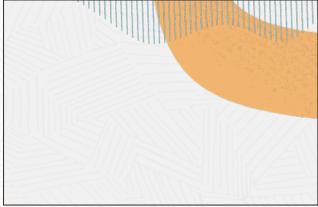
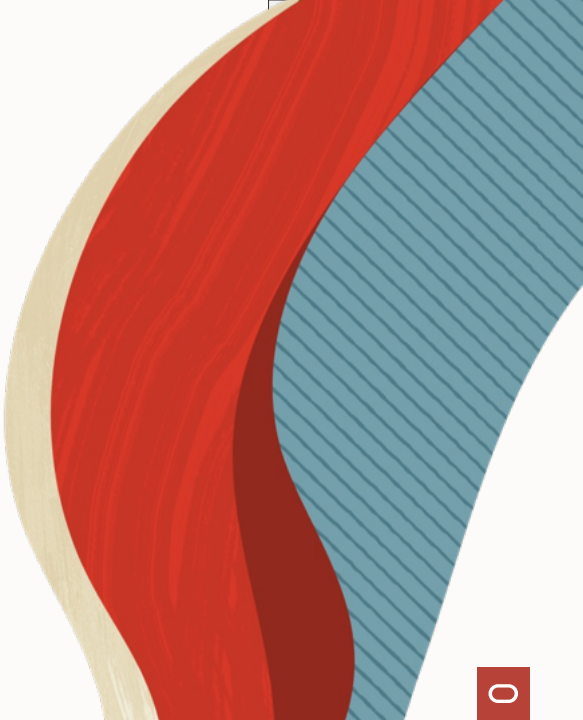
ADB Container Features



- Oracle Rest Data Services (ORDS)
- APEX
- Database Actions
- Mongo API
- Oracle Estate Explorer (OEE)

Demo

- Use ADB Container



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Wrapping Up

Try it out, please!!

- We are looking for reference customers
- Get in touch with us

Join Us Next Time

1 PLANNING

2 PREPARING

May 15, 15:00 CET
Sign up

3 MIGRATING

June 5, 15:00 CET
Sign up

4 OPERATING

July 10, 15:00 CET
Sign up

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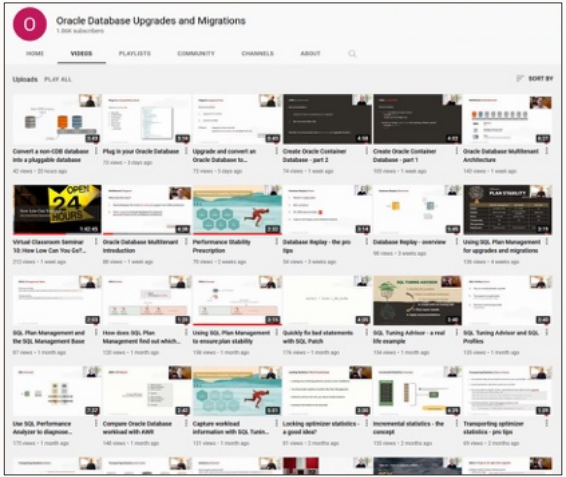

Link

- 300+ videos
- New videos every week
- No marketing
- No buzzwords
- All tech

SCAN ME

Thank You