



# Migration Portal

Version 2.10

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# 1 What's New

The following enhancements are added to the Migration Portal for this release:

- We are thrilled to unveil our renewed brand identity, which has a lighter look and feel.

The screenshot shows the EDB migration portal interface. At the top, there is a navigation bar with 'EDB migration portal', 'Projects', and 'Portal Wiki'. A user profile 'John Doe' is on the right. Below the navigation, a banner says 'This project has migration challenges. Contact us for help.' The main area is divided into sections: 'Overview' (Name: Marketing, Description: This Project contains all the schemas related to Marketing team data, Interface: JDBC, Source DB: Oracle 11g, Target DB: EDB Postgres Advanced Server 12, Compatibility: 93%), 'Schemas' (GLOBAL\_OBJECTS: 3 Objects, MARKETING\_APPS: 632 Objects, TEAMS: 20 Objects, RESOURCES: 26 Objects), and a 'Quick help' sidebar with links like 'Getting Started', 'Quick Start guide', 'Migration Portal guide', and 'EDB DDL Extractor'.

- Improvements are made to the UI and the data migration assessment report. The improvements repair a merge/split issue reported in the PDF report format.

## Repair Handler

### *Updated Repair Handlers*

The following repair handlers have been updated. Repair handlers convert Oracle syntax to Postgres-compatible syntax without manual intervention.

- **ERH 1001 - REGEXP\_LIKE\_SYNTAX\_ERROR**

With this update, the repair handler fixes PL/SQL objects along with storage objects.

- **ERH 2037- TIMESTAMP\_WITH\_LOCAL\_TIMEZONE\_DATATYPE**

Previously, the repair handler only fixed the TABLE object; now, the fix is applied to all objects.

## 2 Supported Versions

The Migration Portal supports assessment and migration from Oracle 11g and 12c to EDB Postgres Advanced Server 10, 11, or 12. Migration Portal is supported on the following browsers and operating systems:

### Supported Browsers

For the best user experience, we recommend using the Google Chrome browser. Migration Portal is also supported on the following browsers:

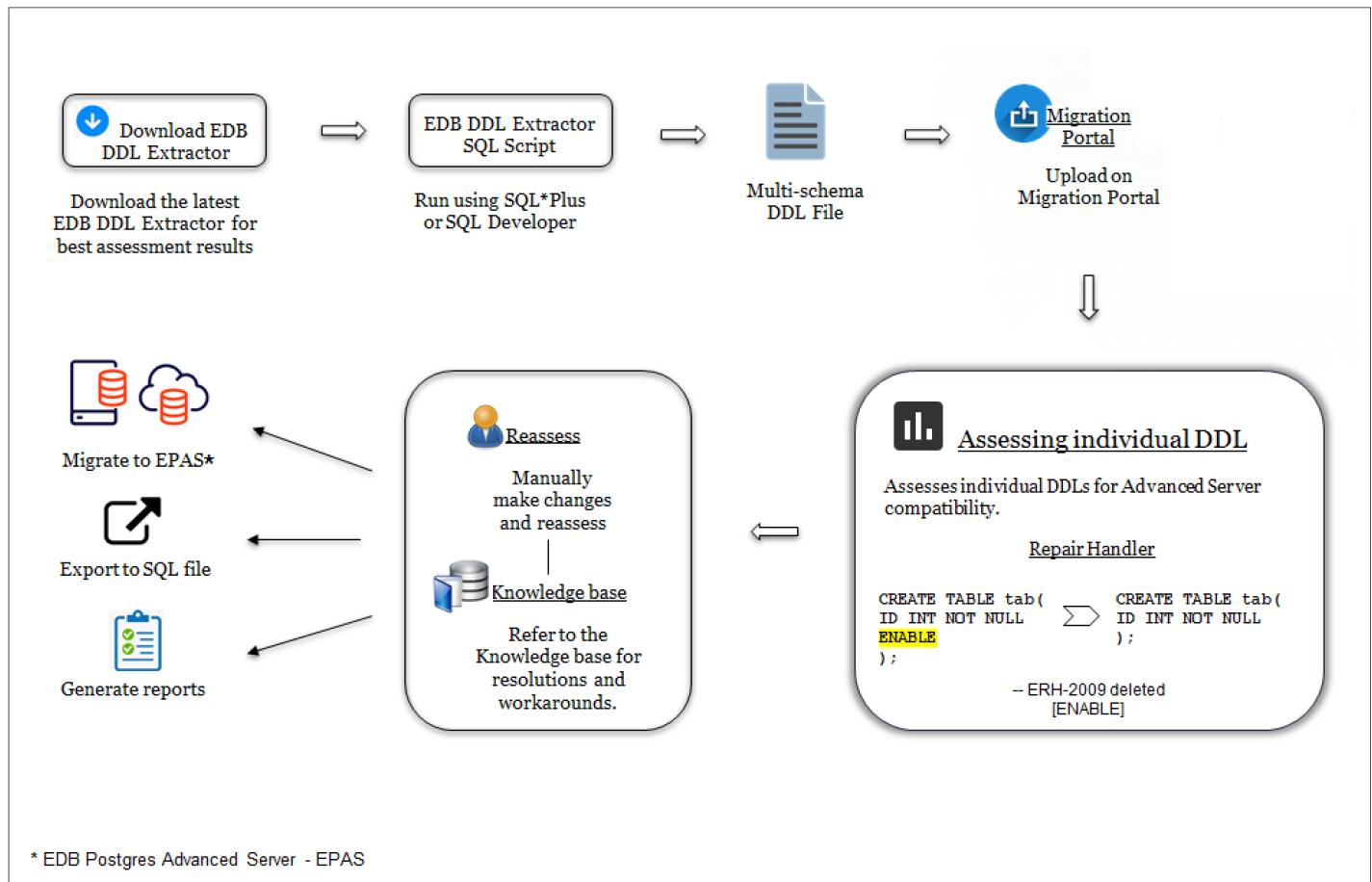
Browser	Supported Version
Apple Safari on Macintosh OS	11 and above
Google Chrome	68 and above
Microsoft Edge	42 and above
Mozilla Firefox	60 and above

### Supported Operating Systems

Operating Systems	Supported Version
Macintosh	OS X Sierra
Windows	10
Linux	CentOS 7

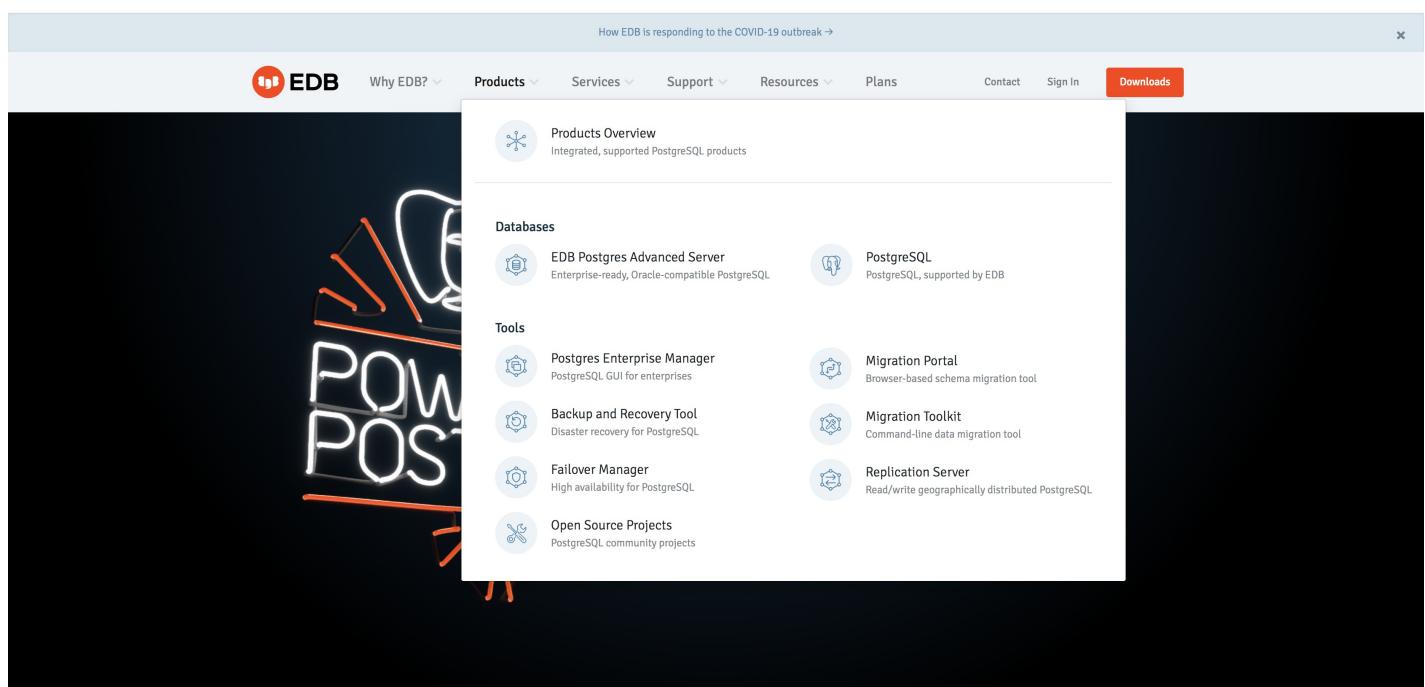
## 3 Using Migration Portal

Migration Portal allows you to easily migrate your database schema from Oracle to EDB Postgres Advanced Server. You can upload schemas for assessment and get immediate feedback and suggestions. The portal allows you to download assessed DDLs for all objects and create your EDB Postgres database on-premises or in the cloud.



## To access the Migration Portal:

1. Open a browser and navigate to <https://www.edbpostgres.com/>
2. On the EnterpriseDB home page, click **Products > Migration Portal**.



1. Click **Open Migration Portal**.

2. Log in using your credentials.

## 3.1 Overview of the Migration Portal Home Page

The Migration Portal home page provides quick access to migration tools.

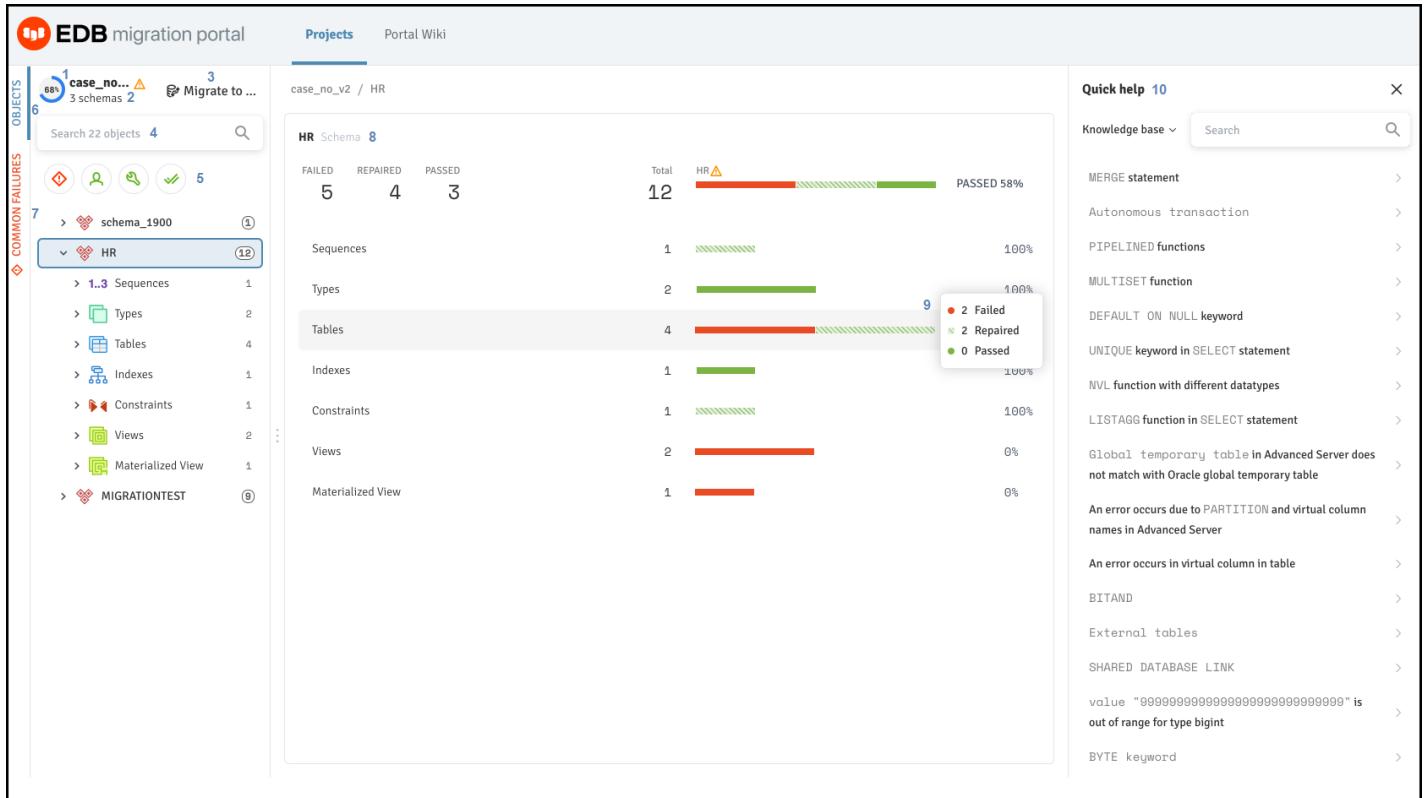
The screenshot shows the EDB migration portal interface. On the left, the 'Projects' panel lists 297 projects, each with a progress bar, name, source, target, and compatibility percentage. In the center, the 'Overview' panel displays details for the selected project 'case\_no\_v2', including its name, description, interface (ODBC), source DB (Oracle 11g), target DB (EDB Postgres Advanced Server 10), and compatibility (68%). It also includes 'Migrate to...', 'Report', and 'Delete' buttons. Below this is the 'Schemas' panel, which shows assessment results for three schemas: HR (12 objects, 58% compatible), MIGRATIONTEST (9 objects, 77% compatible), and schema\_1900 (1 object, 100% compatible). Each schema has a 'Contact Us' button. On the right, the 'Quick help' panel contains links to 'Getting Started', 'Quick Start guide', 'Migration Portal guide', and 'EDB DDL Extractor'.

The Migration Portal home page allows access to the following Migration Portal features:

1. **Projects:** The **Projects** panel displays a list of assessed projects.
2. **Create project:** Click **+ New** (the button located to the right of the **Projects** label) to create a new project.
3. **Search Projects:** Use the **Search** box to search for projects.
4. **Overview:** The **Overview** panel provides details about the selected project and displays the compatibility percentage after schema assessment.
5. **Migrate:** Use the **Migrate** button to either download an EDB Postgres Advanced Server compatible **.sql** file or to migrate a schema to an EDB Postgres Advanced Server on-premise or on cloud. For more information, see **Schema Migration <mp\_schema\_migration>**.
6. **Report:** Use the **Report** button to view and download the schema assessment report.
7. **Delete:** Use the **Delete** button to delete a selected project.
8. **Warning sign:** A warning message is displayed if a project or a schema is less than 70% compatible or any DDL doesn't succeed after multiple attempts.
9. **Upload DDL file:** Use the **Upload new schema** button to upload a new or additional DDL file.
10. **Schemas:** The **Schemas** panel displays the assessment result from an uploaded DDL file.
11. **Quick help:** The **Quick help** panel contains all the help guides.
12. **Portal Wiki:** The **Portal Wiki** has links to product information and different help guides.

## 3.2 Overview of the Migration Portal Projects Page

The Migration Portal Projects page provides detailed information about your migration.



Use the following resources to gather information about your migration projects:

- Compatible:** The **Compatible** gauge displays the color on the basis of the compatibility percentage of the assessed schema.
- Schema Count:** Displays the number of schemas in a project.
- Migrate to:** Use the **Migrate to** to migrate the schema to an *EDB Postgres Advanced Server* on-premise or on cloud.
- Search objects:** Use the **Search** box to search for objects.
- Filters:** You can filter the system repaired and manual repaired objects from the left panel of the Projects page. In addition, you can select one or more filter combinations to refine the information.
- Objects:** Displays the objects for the selected schemas.
- Common Failures:** Displays the reason for the failed objects for the selected schemas.

The screenshot shows the EDB migration portal interface. On the left, there's a sidebar with 'OBJECTS' and 'COMMON FAILURES' sections. The 'OBJECTS' section lists a project named 'case\_no\_v2' with 3 schemas, and a 'MIGRATIONTEST' schema with 2 objects. The 'COMMON FAILURES' section lists various failure types like 'Sequences', 'Types', 'Tables', and 'Indexes'. The main content area is titled 'case\_no\_v2 / HR Schema'. It shows a table with four columns: 'Count', 'Reason for failure', 'Occurrences', and a small icon. The 'Occurrences' column includes icons for 'Tables', 'Views', and 'Materialized View'.

Count	Reason for failure	Occurrences
2	only superuser can change options of a file_fdw foreign table	Tables 2
1	column "empno" does not exist	Views 1
1	syntax error at or near "FROM"	Views 1
1	relation "hr.emp" does not exist	Materialized View 1

## Note

You can download a [CSV](#) file for the common failures for the project.

8. **Schema:** The [Schema](#) panel displays the result of the assessment.
9. **Tooltip:** Hover over a result set to display a tooltip with the number of passed, failed, and repaired objects.
10. **Quick help:** The [Quick help](#) panel displays links to Knowledge base articles and repair handler documentation.
11. **Search:** Use the [Search](#) box to search the [Knowledge base](#) entries or repair handler documentation for specific information.

The screenshot shows the EDB migration portal interface. The left sidebar is similar to the previous screenshot, showing objects and common failures. The main content area is divided into 'Source' and 'Target' panes. Both panes display the same SQL code for creating an index:

```

1 CREATE INDEX HR.DEPT_LOCATION_IX ON HR.DEPARTMENTS (LOCATION_ID)
2 ;

```

Below the Source and Target panes is a 'Quick help' panel with a search bar containing 'Merge'. At the bottom, there are tabs for 'OUTPUT' (which is 'Success') and 'REPAIRED'.

## 3.3 Overview of the Migration Portal Wiki Page

The Portal Wiki page provides quick access to information:

- What's New information
- Quick Start guide
- Migrating Schema
- Migrating Data
- DDL Extractor guide
- Knowledge Base
- Repair handlers
- Migration Portal User's Guide
- FAQs

**What's New**

Following are the new enhancements for Migration Portal:

**Version 2.9.0 (19-Aug-2020)**

We've given you an easier path to install EDB Postgres Advanced Server from the migration portal so that you don't have to research how to install it and migrate your schema.

Following are the options for migrating schemas:

- Existing on-premise EDB Postgres Advanced Server
- New on-premise EDB Postgres Advanced Server
- EDB Postgres Advanced Server on Cloud

**Migrate schemas to**

Existing on-premise EDB Postgres Advanced Server	New on-premise EDB Postgres Advanced Server Installation	EDB Postgres Advanced Server on Cloud

## 4 Migrating a Database

To migrate a database, you must complete the following steps:

1. Perform a **Schema Extraction <mp\_schema\_extraction>**.

2. Perform a Schema Assessment <mp schema assessment>.
3. Perform a Schema Migration <mp schema migration>.
4. Perform a Data Migration <mp\_data\_migration>.

The following sections provide detailed information about each step in the migration process.

---

## 4.1 Performing a Schema Extraction

### Prerequisites

Before extracting a schema, you must download the latest EDB DDL Extractor script from the Migration Portal [Projects](#) page or from the link provided in the DDL Extractor guide in the Portal Wiki. The script can be run in SQL Developer or SQL\*Plus. It uses Oracle's [DBMS\\_METADATA](#) built-in package to extract DDLs for different objects under schemas (specified while running the script). The EDB DDL extractor creates the DDL file that will be uploaded to the portal and analyzed for EDB Postgres compatibility.

#### Note

The *script* user must have [CONNECT](#), [RESOURCE](#) and [SELECT\\_CATALOG\\_ROLE](#) roles.

### For SQL\*Plus

1. Connect to SQL\*Plus and run the command:

```
SQL>@edb_ddl_extractor.sql
```

2. Provide the schema name and the path or directory in which the extractor will store the extracted DDL. When extracting multiple schemas, use a comma (',') as a delimiter.

#### Note

If you want to extract all the user schemas from the current database, do not mention any schema names while extracting. However, it is recommended to mention the schema names that you would like to extract.

1. If you want to extract dependent objects from other schemas, enter [yes](#) or [no](#).

### For example, on Linux:

```
Enter a comma separated list of schemas to be extracted (Default all schemas): HR, SCOTT, FINANCE Location for output file (Default current location) :
```

/home/oracle/extracted\_ddls/

#### WARNING:

Given schema(s) list may contain objects which are dependent on objects from other schema(s), not mentioned in the list. Assessment may fail for such objects. It is suggested to extract all dependent objects together.

Extract dependent object from other schemas?(yes/no) (Default no / Ignored for all schemas option): yes

#### On Windows:

Enter comma separated list of schemas to be extracted (Default all schemas): HR, SCOTT, FINANCE Location for output file (Default current location) : c:\Users\Example\Desktop\

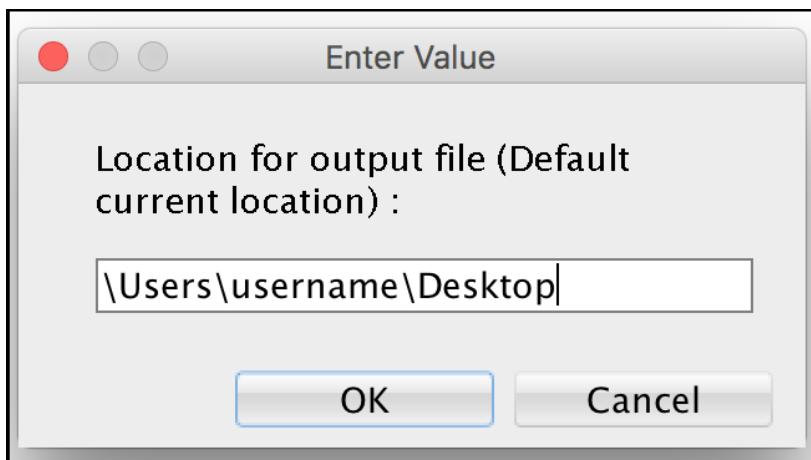
#### WARNING:

Given schema(s) list may contain objects which are dependent on objects from other schema(s), not mentioned in the list. Assessment may fail for such objects. It is suggested to extract all dependent objects together.

Extract dependent object from other schemas?(yes/no) (Default no / Ignored for all schemas option): yes

#### For SQL Developer

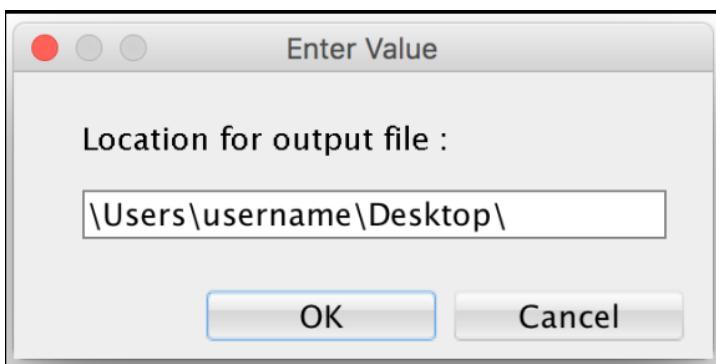
1. Connect to the SQL server and run the following command:



1. Enter a comma-separated list of schemas:



1. Enter the file path for the output file:



1. Enter (yes/no) to extract dependant objects:



**Note:** You can also enter single schema name in both SQL\*Plus and SQL Developer.

The script then iterates through the object types in the source database and once the task is completed, the .SQL output is stored at the entered location, i.e., <c:\Users\Example\Desktop\>.

## Additional Notes

- The EDB DDL Extractor script does not extract objects that were restored using **Flashback** and still have names like `BIN$b54+4XIEYwPgUAB/AQBWwA==$0`. If you want to extract these objects, you must change the name of the objects and re-run the extraction process.
- DDL Extractor extracts **nologging** tables as normal tables. Once these tables are migrated to EDB Postgres Advanced Server, WAL log files will be created.

## Supported Object Types

The Migration Portal supports the migration of the following object types:

- Synonyms
- DB Links
- Types and Type Body
- Sequences
- Tables
- Constraints
- Indexes (Except LOB indexes and indexes on materialized views)
- Views
- Materialized Views
- Triggers
- Functions
- Procedures
- Packages

### Note

COMMENTS on Columns, Tables, and Materialized Views are also supported.

## Unsupported Object Types

- Editions
- Operators
- Schedulers
- LOB indexes and Indexes on Materialized Views
- XML Schemas
- Profiles
- Role and Object Grants
- Tablespaces
- Directories
- Users
- RLS Policy
- Queues

## Oracle System Schemas

EDB DDL Extractor script will ignore the following system schemas while extracting from Oracle:

ANONYMOUS	APEX_PUBLIC_USER	APEX_030200
APEX_040000	APEX_040000	APPQOSSYS
AUDSYS	BI	CTXSYS
DMSYS	DBSNMP	DIP
DVF	DVSYS	EXFSYS
FLOWS_FILES	FLOWS_020100	GSMADMIN_INTERNAL
GSMCATUSER	GSMUSER	IX
LBACSYS	MDDATA	MDSYS
MGMT_VIEW	OE	OJVMSYS
OLAPSYS	ORDPLUGINS	ORDSYS
ORDDATA	OUTLN	ORACLE_OCM
OWBSYS	OWBYSS_AUDIT	PM
RMAN	SH	SI_INFORMTN_SCHEMA
SPATIAL_CSW_ADMIN_USR	SPATIAL_WFS_ADMIN_USR	SYS
SYSBACKUP	SYSDG	SYSKM
SYSTEM SYSMAN	TSMSYS WKPROXY	WKSYS
WK_TEST XS\$NULL	WMSYS	XDB

## 4.2 Performing a Schema Assessment

To assess an Oracle database schema for compatibility with EDB Postgres Advanced Server, you must:

1. Navigate to the [Migration Portal](#).
2. Enter your EDB credentials.
3. Click the **CREATE PROJECT** icon to create a new project.

## New project

Project name  
e.g. First project

Application interface  
 JDBC     ODBC     .NET     OCI     ProC     Other

Source DB  
Oracle

Version  
11g

Target DB  
EDB Postgres Advanced Server

Version  
12

DDL file [\(How to get a DDL file?\)](#)  
No file chosen   

Add Index Prefix  
Index objects will be prefixed with “idx” as unique names are required for tables and indexes.

Description(Optional)  
Say something about the project...  
200 characters left

1. On the **New project** dialog, enter the project name in the **Project name** field.

## 2. Specify project details:

- Select the radio button next to the **Application interface**.
- Select a **Source DB** and **Version** for the source.
- Select the **Target DB** and **Version** for the target.

## 3. Click **Choose file** to upload the .SQL file generated by the latest EDB DDL Extractor for Oracle Database.

### Note:

- You should not modify the .SQL file.
- Only the .SQL file generated by the latest EDB DDL Extractor can be uploaded.

For more information, refer to the **Schema Extraction <mp\_schema\_extraction>** section.

## 4. Check the box next to **Add Index Prefix** to specify an index prefix (**idx**) when creating a project to ensure better assessment results, as EDB Postgres Advanced Server does not support the same name for tables and indexes.

## 5. Click **Create & assess** to create a new project and to assess the schemas.

The analysis tool will review every construct and execute repair actions to improve compatibility with EDB Postgres Advanced Server, and flag any remaining errors that require manual intervention.

## 1. Verify the DDL objects (e.g., TABLES) that do not show a 100% success ratio.

**EDB migration portal**

**Projects** Portal Wiki

**case\_no\_v2 / HR**

**HR Schema**

	FAILED	REPAIRED	PASSED	Total	HR	Passed %
Sequences	1	0	1	2	Green	100%
Types	2	0	2	4	Green	100%
Tables	4	0	4	12	Green	58%
Indexes	1	0	1	2	Green	100%
Constraints	1	0	1	2	Green	100%
Views	2	0	0	2	Red	0%
Materialized View	1	0	0	1	Red	0%

**Common Failures**

- case\_no\_v2 (88% - 3 schemas) Migrate to ...
- Search 22 objects
- Objects
- Common Failures

**Quick help**

Knowledge base ▾ Search

- MERGE statement
- Autonomous transaction
- PIPELINED functions
- MULTISET function
- DEFAULT ON NULL keyword
- UNIQUE keyword in SELECT statement
- NVL function with different datatypes
- LISTAGG function in SELECT statement
- Global temporary table in Advanced Server does not match with Oracle global temporary table
- An error occurs due to PARTITION and virtual column names in Advanced Server
- An error occurs in virtual column in table
- BITAND
- External tables
- SHARED DATABASE LINK
- value "99999999999999999999999999999999" is out of range for type bigint
- BYTE keyword

1. Click the objects that are not compatible with EDB Postgres Advanced Server and view the details. At the bottom of the middle panel, you can view repair action details.

The screenshot shows the EDB migration portal interface. The top navigation bar includes the EDB logo, the title "EDB migration portal", and tabs for "Projects" and "Portal Wiki". On the left, there's a sidebar titled "OBJECTS" with sections for "COMMON FAILURES" and "case\_no... 3 schemas". A search bar at the top of the sidebar says "Search 22 objects". The main content area has a breadcrumb path: "case\_no\_v2 / HR / Tables / DEPARTMENTS\_EXT".

**Source:**

```
1 CREATE TABLE HR.DEPARTMENTS_EXT
2   ( DEPTNO VARCHAR2(4),
3     DNAME VARCHAR2(20),
4     LOCATION VARCHAR2(20)
5   )
6 ORGANIZATION EXTERNAL
```

**Target:**

```
1 ◇ CREATE FOREIGN TABLE HR.DEPARTMENTS_EXT
2   ( DEPTNO VARCHAR2(4),
3     DNAME VARCHAR2(20),
4     LOCATION VARCHAR2(20)
5   )
6 server file_fdw_server
7 options (filename '/tmp/data.csv', format 'csv');
```

**OUTPUT REPAIRED**

◇ only superuser can change options of a file\_fdw foreign table [line 1, char 0]

**Quick help**

Knowledge base ▾ Search

MERGE statement  
Autonomous transaction  
PIPELINED functions  
MULTISET function  
DEFAULT ON NULL keyword  
UNIQUE keyword in SELECT statement  
NVL function with different datatypes  
LISTAGG function in SELECT statement  
Global temporary table in Advanced Server does not match with Oracle global temporary table  
An error occurs due to PARTITION and virtual column names in Advanced Server  
An error occurs in virtual column in table  
BITAND  
External tables  
SHARED DATABASE LINK  
value "99999999999999999999999999999999" is out of range for type bigint  
BYTE keyword

1. Refer to the Knowledge Base information in the right panel to locate the possible workarounds for the objects that are not immediately compatible with EDB Postgres Advanced Server. You can also view the Knowledge Base information on the Portal Wiki page.

The screenshot shows the EDB migration portal's schema assessment interface. On the left, a sidebar lists 'COMMON FAILURES' and a 'Knowledge base' search bar. The main area displays a summary of object status (FAILED: 5, REPAIRED: 4, PASSED: 3) and a total of 12 objects. Below this, a detailed breakdown shows the status of various database components:

Category	Total	Status
Sequences	1	PASSED 100%
Types	2	PASSED 100%
Tables	4	FAILED 58% (HR)
Indexes	1	PASSED 100%
Constraints	1	PASSED 100%
Views	2	FAILED 0%
Materialized View	1	FAILED 0%

A tooltip on the right indicates 2 Failed, 2 Repaired, and 0 Passed objects.

1. On the **Knowledge Base** tab, you can enter the error message for the incompatible objects with EDB Postgres Advanced Server and click **Search**.

The object detail panel displays the workaround or the resolution for the failed object. You can manually make the changes on the **Assessment** tab for that object, and click **Reassess**.

**Note:** If any failed object passes while reassessing, the dependent objects for that object are also reassessed.

The screenshot shows the EDB migration portal interface. On the left, a sidebar titled 'COMMON FAILURES' lists various issues found during the migration process. The main area displays a comparison between the 'Source' and 'Target' environments for the 'EMPLOYEES' table. The 'Source' DDL includes constraints such as `CONSTRAINT EMP_LAST_NAME_NN NOT NULL ENABLE` and `CONSTRAINT EMP_EMAIL_NN NOT NULL DISABLE`. The 'Target' DDL shows similar constraints. Below the DDL, there are tabs for 'OUTPUT' (REPAIRED) and 'REASSESS'. To the right, a 'knowledge base' sidebar provides links to various Oracle-related topics like MERGE statement, Autonomous transaction, etc.

Similarly, you can make all the incompatible objects compatible.

## Note

If the information or workaround for incompatible objects is not available in the Knowledge Base, please contact the support team for assistance.

When you have finished working with the DDL, you can either download the modified EDB compatible DDL as a .sql file or migrate the schemas see, [Schema Migration](#).

## Generating an Assessment Report

Migration Portal's report functionality provides a high-level assessment summary of the schemas assessed for your project. In addition, the report provides details about the failed objects and the cause of failure.

## Report

Select schemas

All

schema\_1900

HR

MIGRATIONTEST

 Generate

To generate a report:

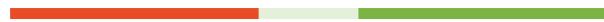
1. Click the **Report** button to access the schema selection dialog.
2. Select the schemas that you wish to include in the report.
3. Click **Generate** to generate the onscreen report.

Schema Assessment Report

Generated by: Migration Portal v2.9.0  
14th September 2020, 2:50:49 pm

**Summary**

This report provides a high-level assessment summary for selected schemas you assessed under "case\_no\_v2" project. In addition, the report provides details of the failed objects and the cause of failure.

1 Schemas	12 Total objects	5 Passed	2 Repaired	5 Failed	58% Compatibility
HR	12 objects				
HR Object type		12 Total	5 Passed	2 Repaired	5 Failed
Constraints		1	1	0	0
Indexes		1	1	0	0
Materialized View		1	0	0	1
Sequences		1	0	1	0
Tables		4	1	1	2
Types		2	2	0	0
Views		2	0	0	2

**Failed Objects**

Schema	Total	Failed
HR	12	5

Common Failures

You can optionally select [Generate PDF](#) to save the report in [.pdf](#) format. You can also view the count of distinct repair handlers applied to the DDLs under the selected schemas.

14/09/2020 EDB Assessment Report-case\_no\_v2

## Schema Assessment Report

 **Project:** case\_no\_v2 **Source database:** Oracle 11g **Target database:** EDB Postgres Advanced Server 10

**Generated by:** Migration Portal v2.9.0  
14th September 2020, 2:51:34 pm **Description:**

### Summary

This report provides a high-level assessment summary for selected schemas you assessed under "case\_no\_v2" project. In addition, the report provides details of the failed objects and the cause of failure.

1 Schemas	12 Total objects	5 Passed	2 Repaired	5 Failed	58% Compatibility
HR	12 objects	 <ul style="list-style-type: none"> <li>● 5 failed</li> <li>● 2 repaired</li> <li>● 5 passed</li> </ul>			

HR Object type	12 Total	5 Passed	2 Repaired	5 Failed
Constraints	1	1	0	0
Indexes	1	1	0	0
Materialized View	1	0	0	1
Sequences	1	0	1	0
Tables	4	1	1	2
Types	2	2	0	0
Views	2	0	0	2

## 4.3 Schema Migration

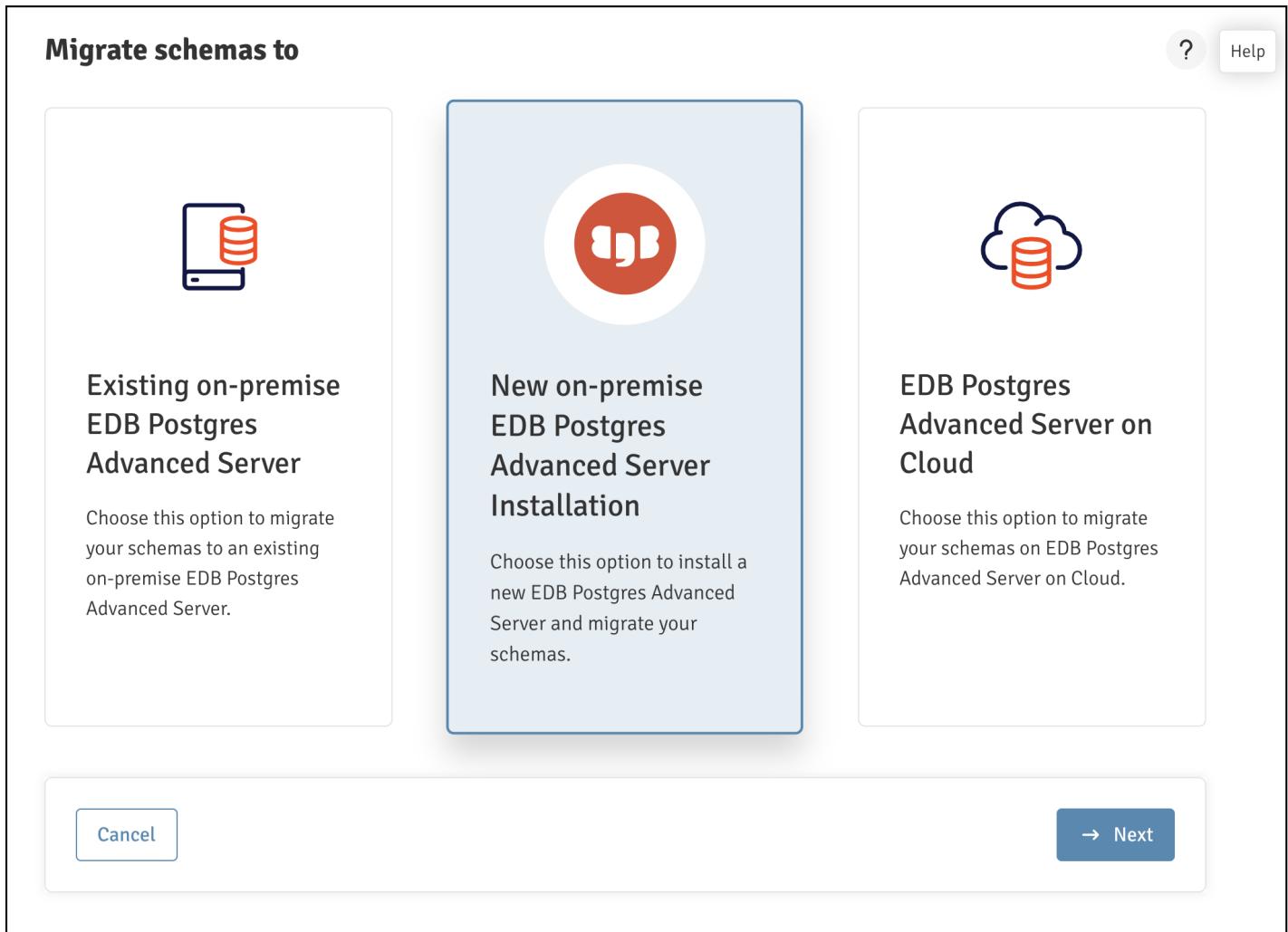
After resolving errors in your schemas, you can use the schemas with a client application such as pgAdmin, ToadEdge, or the PSQL client, or migrate the schema to an EDB Postgres Advanced Server.

Note: For more information about using Toad Edge with EDB Postgres Advanced Server,

see Toad Edge for Postgres.

You can choose one of the following options for migrating schemas; migrate to an:

- Existing on-premise EDB Postgres Advanced Server
- New on-premise EDB Postgres Advanced Server
- EDB Postgres Advanced Server on Cloud



## Migrating to an Existing On-Premise EDB Postgres Advanced Server Host

You can migrate schemas to an existing on-premise EDB Postgres Advanced Server on Windows or Linux platforms.

### Migrating Schemas on Windows

1. Select the **Existing on-premise EDB Postgres Advanced Server** option:

## Migrate schemas to



### Existing on-premise EDB Postgres Advanced Server

Choose this option to migrate your schemas to an existing on-premise EDB Postgres Advanced Server.



### New on-premise EDB Postgres Advanced Server Installation

Choose this option to install a new EDB Postgres Advanced Server and migrate your schemas.



### EDB Postgres Advanced Server on Cloud

Choose this option to migrate your schemas on EDB Postgres Advanced Server on Cloud.

[Cancel](#)[→ Next](#)

1. Select one or more schemas to migrate to EDB Postgres Advanced Server:

## Migrate schemas to existing on-premise EDB Postgres Advanced Server

1 Select Schemas — 2 Download Schema — 3 Import — 4 Finish

⚠ This project has migration challenges. Contact us for help.

Contact Us X

Project Name case_no_v2	Interface ODBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 10	Compatibility 68% <span style="color: orange;">⚠</span>
----------------------------	-------------------	-------------------------	--	--

Select one or more schemas

All

schema\_1900

HR

MIGRATIONTEST

[Cancel](#) [← Previous](#) [→ Next](#)

### Note

If your schemas are not 100% compatible, a banner will be displayed as shown; complete the [Contact Us](#) form for any assistance required.

**Contact Us**

Your message...

Required project details will be sent along with your message.

By submitting this form, I agree to EDB's [Terms & Conditions](#) and [Privacy Policy](#).

Send

**1. Download the assessed schemas:**

## Migrate schemas to existing on-premise EDB Postgres Advanced Server

?

1 Select Schemas — 2 Download Schema — 3 Import — 4 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Download the assessed schemas

[!\[\]\(62d96665b034ab625528be99c45fc0dc\_img.jpg\) Download SQL file](#)

Note: Ensure the version number for the EDB Postgres Advanced Server database that you are migrating is 12 (your assessed version).

[Cancel](#) [← Previous](#) [→ Next](#)

1. Click on **Windows**:

## Migrate schemas to existing on-premise EDB Postgres Advanced Server



✓ Select Schemas — ✓ Download Schema — 3 Import — 4 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Import the selected schemas

Run the following command:

[Windows](#) [Linux](#)

On CLI

```
edb=# \i c:\users\...\<project_name>.sql
```



On cmd/shell

```
edb-psql -f <project_name>.sql
```



[PSQL Documentation](#) | [Advanced Server Documentation](#)

Use pgAdmin instead.

[Cancel](#)

[← Previous](#)

[→ Next](#)

### 1. To import the schemas, run the following command:

- On CLI

```
\i c:\users\...\<project_name>.sql
```

- On cmd/shell

```
edb-psql -f <project_name>.sql
```

#### Note

You can also use pgAdmin instead.

The converted schemas are migrated to the target server.

## Migrate schemas to existing on-premise EDB Postgres Advanced Server



Select Schemas — Download Schema — Import — Finish

Project Name  
ID2019\_1

Interface  
JDBC

Source DB  
Oracle 11g

Target DB  
EDB Postgres Advanced Server 12

Compatibility  
100%

Migration Successful



You can view your converted schemas on the target server.

If you cannot see your schemas on the target server or need help to migrate the schemas, contact us.

Contact us

[Cancel](#)

[← Previous](#)

Done

## Migrating Schemas on Linux

To migrate schemas to an existing on-premise EDB Postgres Advanced Server on Linux, complete the following steps:

1. Click the **Existing on-premise EDB Postgres Advanced Server** option:

## Migrate schemas to



### Existing on-premise EDB Postgres Advanced Server

Choose this option to migrate your schemas to an existing on-premise EDB Postgres Advanced Server.



### New on-premise EDB Postgres Advanced Server Installation

Choose this option to install a new EDB Postgres Advanced Server and migrate your schemas.



### EDB Postgres Advanced Server on Cloud

Choose this option to migrate your schemas on EDB Postgres Advanced Server on Cloud.

[Cancel](#)[→ Next](#)

1. Select one or more schemas to migrate to EDB Postgres Advanced Server:

## Migrate schemas to existing on-premise EDB Postgres Advanced Server

1 Select Schemas — 2 Download Schema — 3 Import — 4 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Select one or more schemas

All  
 HR

[Cancel](#) [← Previous](#) [→ Next](#)

### 1. Download the assessed schemas:

## Migrate schemas to existing on-premise EDB Postgres Advanced Server

1 Select Schemas — 2 Download Schema — 3 Import — 4 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Download the assessed schemas

[Download SQL file](#)

Note: Ensure the version number for the EDB Postgres Advanced Server database that you are migrating is 12 (your assessed version).

[Cancel](#) [← Previous](#) [→ Next](#)

### 1. Click on **Linux**:

## Migrate schemas to existing on-premise EDB Postgres Advanced Server



Select Schemas — Download Schema — **3 Import** — **4 Finish**

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Import the selected schemas

Run the following command:

[Windows](#) [Linux](#)

Run the following command on Terminal

```
shell=$ sudo su - enterpriseedb
shell=$ edb-psql edb
edb=# create database <database_name>;
edb=# \connect <database_name>
database_name=# \i <project_name>.sql
```



[PSQL Documentation](#) | [Advanced Server Documentation](#)

Use pgAdmin instead.

[Cancel](#)

[← Previous](#)

[→ Next](#)

- To import the schemas, invoke the following `edb-psql` client commands:

```
sudo su - enterpriseedb
edb-psql edb
create database <database_name>;
\connect <database_name>
\i <project_name>.sql
```

### Note

You can optionally use the `pgAdmin` client for the import.

The converted schemas are migrated to the target server.

## Migrate schemas to existing on-premise EDB Postgres Advanced Server



Select Schemas Download Schema Import Finish

Project Name  
ID2019\_1

Interface  
JDBC

Source DB  
Oracle 11g

Target DB  
EDB Postgres Advanced Server 12

Compatibility  
100%

Migration Successful



You can view your converted schemas on the target server.

If you cannot see your schemas on the target server or need help to migrate the schemas, contact us.

Contact us

[Cancel](#)

[← Previous](#)

Done

## Migrating to a New On-Premise EDB Postgres Advanced Server Installation

You can install new EDB Postgres Advanced Server on-premise on Windows or Linux platforms and migrate the schemas.

### Migrating Schemas on Windows

To migrate schemas to a new on-premise EDB Postgres Advanced Server on Windows, complete the following steps:

1. Click **New on-premise EDB Postgres Advanced Server** option.

Migrate schemas to

?



**Existing on-premise EDB Postgres Advanced Server**

Choose this option to migrate your schemas to an existing on-premise EDB Postgres Advanced Server.



**New on-premise EDB Postgres Advanced Server Installation**

Choose this option to install a new EDB Postgres Advanced Server and migrate your schemas.



**EDB Postgres Advanced Server on Cloud**

Choose this option to migrate your schemas on EDB Postgres Advanced Server on Cloud.

**Cancel**

→ **Next**

1. Select one or more schemas to migrate on EDB Postgres Advanced Server.

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation



1 Select Schemas — 2 Select Platform — 3 Get EDB Postgres Advanced Server — 4 Install EDB Postgres Advanced Server >

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Select one or more schemas

All

HR

[Cancel](#)

[← Previous](#)

[→ Next](#)

1. Select the **Windows** operating system.

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation



1 Select Schemas — 2 Select Platform — 3 Get EDB Postgres Advanced Server — 4 Install EDB Postgres Advanced Server >

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Select the Operating System/Platform

Windows 64-bit



Linux 64-bit



[Cancel](#)

[← Previous](#)

[→ Next](#)

## 1. Download Windows Installer.

**Migrate schemas to new on-premise EDB Postgres Advanced Server Installation**

1 Select Schemas — 2 Select Platform — 3 Get EDB Postgres Advanced Server — 4 Install EDB Postgres Advanced Server

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Install EDB Postgres Advanced Server for Windows

Download Windows installer [View](#)

[Cancel](#) [← Previous](#) [→ Next](#)

1. For installation steps, click EDB Postgres Advanced Server Installation Guide for Windows.

**Migrate schemas to new on-premise EDB Postgres Advanced Server Installation**

1 Get EDB Postgres Advanced Server — 2 Install EDB Postgres Advanced Server — 3 Download Schema — 4 Import

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Install EDB Postgres Advanced Server on Windows

EDB Postgres™ Advanced Server Installation Guide for Windows [View](#)

[Cancel](#) [← Previous](#) [→ Next](#)

## 1. Download the assessed schemas.

**Migrate schemas to new on-premise EDB Postgres Advanced Server Installation**

Postgres Advanced Server — ✓ Install EDB Postgres Advanced Server — 5 Download Schema — 6 Import — 7 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Download the assessed schemas

Download SQL file

Note: Ensure the version number for the EDB Postgres Advanced Server database that you are migrating is 12 (your assessed version).

Cancel ← Previous Next →

## 1. You can import schemas by running the following command:

- On CLI

```
\i c:\users\...\<project_name>.sql
```

- On cmd/shell

```
edb-psql -f <project_name>.sql
```

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation

Project Name: ID2019\_1 | Interface: JDBC | Source DB: Oracle 11g | Target DB: EDB Postgres Advanced Server 12 | Compatibility: 100%

Import schemas into EDB Postgres Advanced Server

On CLI:

```
edb=# \i c:\users\...\<project_name>.sql
```

On cmd/shell:

```
edb-psql -f <project_name>.sql
```

[PSQL Documentation](#) | [Advanced Server Documentation](#)

Use  pgAdmin instead.

[Cancel](#) [← Previous](#) [→ Next](#)

### Note

You can also use  pgAdmin instead.

The schemas are migrated to the target server.

**Migrate schemas to new on-premise EDB Postgres Advanced Server Installation**

Project Name: ID2019\_1 | Interface: JDBC | Source DB: Oracle 11g | Target DB: EDB Postgres Advanced Server 12 | Compatibility: 100%

Migration Successful

You can view your converted schemas on the target server.

If you cannot see your schemas on the target server or need help to migrate the schemas, contact us.

Contact us

Cancel Previous Done

## Migrating Schemas on Linux

To migrate schemas to an on-premise EDB Postgres Advanced Server on Linux, complete the following steps:

1. Click **New On-premise EDB Postgres Advanced Server** option.

Migrate schemas to

?



**Existing on-premise EDB Postgres Advanced Server**

Choose this option to migrate your schemas to an existing on-premise EDB Postgres Advanced Server.



**New on-premise EDB Postgres Advanced Server Installation**

Choose this option to install a new EDB Postgres Advanced Server and migrate your schemas.



**EDB Postgres Advanced Server on Cloud**

Choose this option to migrate your schemas on EDB Postgres Advanced Server on Cloud.

Cancel → Next

1. Select one or more schemas to migrate on EDB Postgres Advanced Server.

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation

1 Select Schemas — 2 Select Platform — 3 Get EDB Postgres Advanced Server — 4 Install EDB Postgres Advanced Server

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Select one or more schemas

All  
 HR

[Cancel](#) [← Previous](#) [Next →](#)

1. Select the **Linux** operating system.

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation

1 Select Schemas — 2 **Select Platform** — 3 Get EDB Postgres Advanced Server — 4 Install EDB Postgres Advanced Server

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Select the Operating System/Platform

Windows 64-bit 

Linux 64-bit 

[Cancel](#) [← Previous](#) [Next →](#)

1. You can select one of the following options to install the EDB Postgres Advanced

## Server:

- Repository
- More options

**Migrate schemas to new on-premise EDB Postgres Advanced Server Installation** ?

1 Select Schemas — 2 Select Platform — 3 Get EDB Postgres Advanced Server — 4 Install EDB Postgres Advanced Ser >

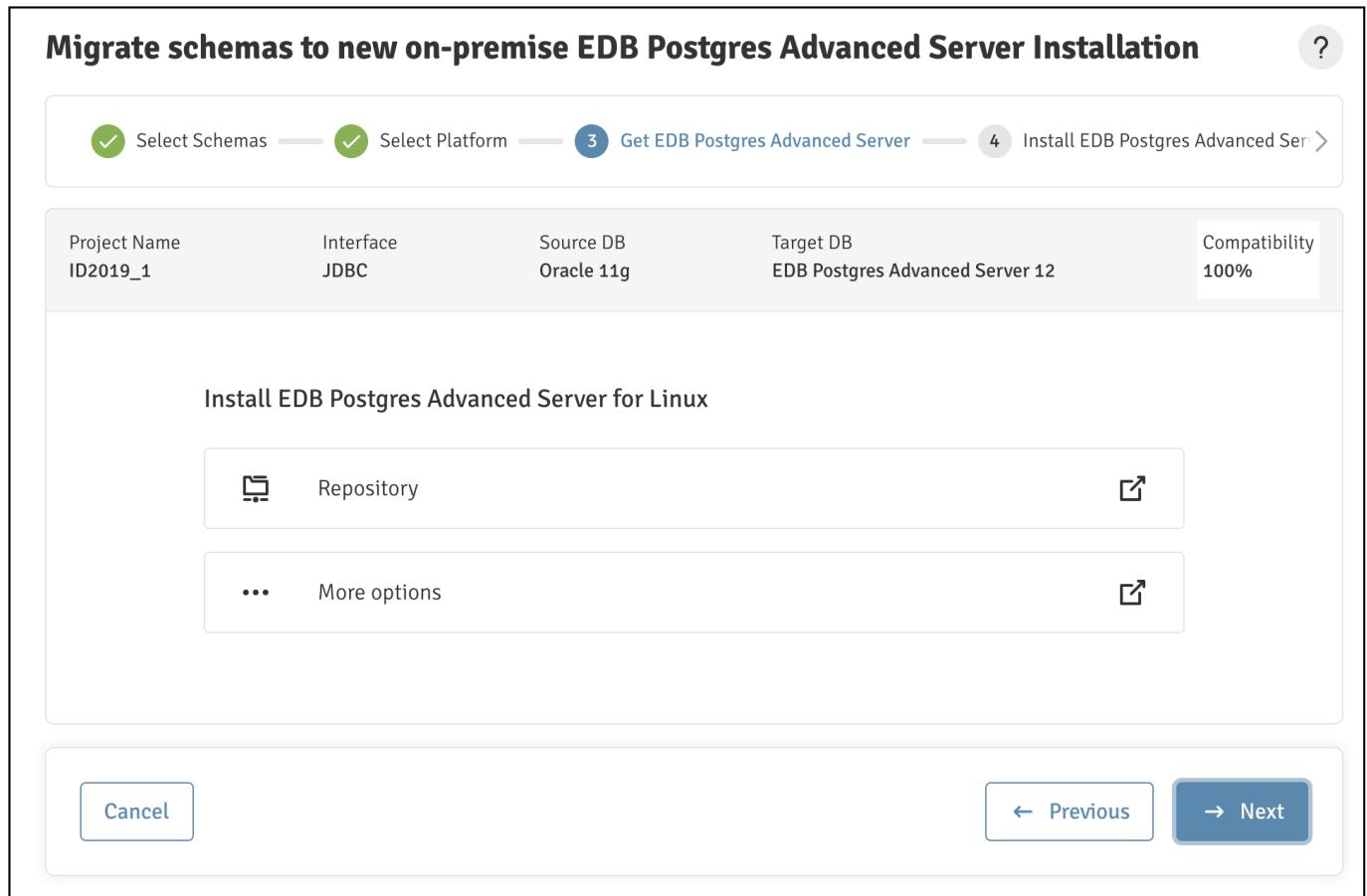
Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Install EDB Postgres Advanced Server for Linux

Repository

More options

[Cancel](#) [← Previous](#) [→ Next](#)



2. For information on the installation procedure, click [EDB Postgres Advanced Server Installation Guide](#) for Linux:

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation

Get EDB Postgres Advanced Server → 4 Install EDB Postgres Advanced Server → 5 Download Schema → 6 Import >

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Install EDB Postgres Advanced Server on Linux

EDB Postgres™ Advanced Server Installation Guide for Linux

[Cancel](#) [← Previous](#) [→ Next](#)

### 1. Download the assessed schemas:

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation

Get EDB Postgres Advanced Server → 4 Install EDB Postgres Advanced Server → 5 Download Schema → 6 Import → 7 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Download the assessed schemas

[Download SQL file](#)

Note: Ensure the version number for the EDB Postgres Advanced Server database that you are migrating is 12 (your assessed version).

[Cancel](#) [← Previous](#) [→ Next](#)

### 1. To import the schemas, run the following command:

```
sudo su - enterprisedb
edb-psql edb
create database <database_name>;
\connect <database_name>
\i <project_name>.sql
```

## Migrate schemas to new on-premise EDB Postgres Advanced Server Installation

Postgres Advanced Server   Install EDB Postgres Advanced Server   Download Schema   Import   Finish   ?

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

**Import schemas into EDB Postgres Advanced Server**

Run the following command on Terminal

```
shell=$ sudo su - enterprisedb
shell=$ edb-psql edb
edb=# create database <database_name>;
edb=# \connect <database_name>
database_name=# \i <project_name>.sql
```

[PSQL Documentation](#) | [Advanced Server Documentation](#)

Use pgAdmin instead.

[Cancel](#)   [← Previous](#)   [→ Next](#)

### Note

You can also use pgAdmin instead.

The converted schemas are migrated to the target server.

**Migrate schemas to new on-premise EDB Postgres Advanced Server Installation**

Project Name: ID2019\_1 | Interface: JDBC | Source DB: Oracle 11g | Target DB: EDB Postgres Advanced Server 12 | Compatibility: 100%

Migration Successful

 You can view your converted schemas on the target server.

If you cannot see your schemas on the target server or need help to migrate the schemas, contact us.

[!\[\]\(324c5f32e2ed2c0fd9a5d8907a4fc186\_img.jpg\) Contact us](#)

[Cancel](#) [Previous](#) [Done](#)

## Migrating to the Cloud

To migrate schemas on EDB Postgres Advanced Server to Cloud, complete the following steps:

1. Click **EDB Postgres Advanced Server on Cloud** option:

**Migrate schemas to****Existing on-premise  
EDB Postgres  
Advanced Server**

Choose this option to migrate your schemas to an existing on-premise EDB Postgres Advanced Server.

**New on-premise  
EDB Postgres  
Advanced Server  
Installation**

Choose this option to install a new EDB Postgres Advanced Server and migrate your schemas.

**EDB Postgres  
Advanced Server on  
Cloud**

Choose this option to migrate your schemas on EDB Postgres Advanced Server on Cloud.

[Cancel](#)[→ Next](#)

1. Select one or more schemas to migrate to EDB Postgres Advanced Server:

## Migrate schemas to EDB Postgres Advanced Server on Cloud



1 Select Schemas —— 2 Select Platform —— 3 Launch Cluster —— 4 Connect —— 5 Deploy —— 6 Finish

Project Name  
ID2019\_1

Interface  
JDBC

Source DB  
Oracle 11g

Target DB  
EDB Postgres Advanced Server 12

Compatibility  
100%

Select one or more schemas

All

HR

[Cancel](#)

[← Previous](#)

[→ Next](#)

1. Select the cloud platform. For example, **IBM Cloud**:

## Migrate schemas to EDB Postgres Advanced Server on Cloud



1 Select Schemas —— 2 Select Platform —— 3 Launch Cluster —— 4 Connect —— 5 Deploy —— 6 Finish

Project Name  
ID2019\_1

Interface  
JDBC

Source DB  
Oracle 11g

Target DB  
EDB Postgres Advanced Server 12

Compatibility  
100%

Select the Cloud Platform

 IBM Cloud

[Cancel](#)

[← Previous](#)

[→ Next](#)

1. To launch a new cluster, click **Go to Cloud**:

## Migrate schemas to EDB Postgres Advanced Server on Cloud

?

1 Select Schemas    2 Select Platform    3 Launch Cluster    4 Connect    5 Deploy    6 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

Launch new IBM™ Cloud cluster

Navigate to IBM™ Cloud to launch a new cluster.

→ Go to IBM™ Cloud

Note: If you have an existing cluster running, click Next.

Cancel    ← Previous    → Next

Or, if you have an existing cluster running, click **Next**.

1. Enter the required connection details on the **Connect** page:

## Migrate schemas to EDB Postgres Advanced Server on Cloud

?

1 Select Schemas — 2 Select Platform — 3 Launch Cluster — 4 Connect — 5 Deploy — 6 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

**Connect to IBM™ Cloud cluster**

**Target Database**  
ID2019\_1

**Host Name/Address**  
Host Name/Address

**Port**  
9999

Note: Ensure that your database server is accessible from Migration Portal.

**Maintenance Database**  
edb

**Username**  
enterprisedb

**Password**  
Password

[Cancel](#) [← Previous](#) [→ Next](#)

**Note**

You can click **Edit Connection** to make changes to the connection details and retest the connection details.

1. Click **Test Connection** to verify the connection details:

## Migrate schemas to EDB Postgres Advanced Server on Cloud



✓ Select Schemas — ✓ Select Platform — ✓ Launch Cluster — 4 Connect — 5 Deploy — 6 Finish

Project Name ID2019_1	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 12	Compatibility 100%
--------------------------	-------------------	-------------------------	--	-----------------------

**Target Database**

ID2019\_1

**Host Name/Address    Port**

52.5.148.59        9999

**Maintenance Database**

dmp\_exec

Note: Deployment will create a new database **ID2019\_1** on target server, if the database does not exist.

Ensure that all schemas have a 100% success ratio before deployment.

Existing schemas with similar names will be dropped during deployment.

**Edit Connection****Cancel****← Previous****→ Next**

1. Once the connection is successful, click **Next**:

**Migrate schemas to EDB Postgres Advanced Server on Cloud**

Project Name: ID2019\_1 | Interface: JDBC | Source DB: Oracle 11g | Target DB: EDB Postgres Advanced Server 12 | Compatibility: 100%

Migration Successful

You can view your converted schemas on the target server.

[Download Summary](#)

If you cannot see your schemas on the target server or need help to migrate the schemas, contact us.

[Contact us](#)

[Cancel](#) [← Previous](#) [✓ Done](#)

The converted schemas are migrated to the target server.

## 4.4 Data Migration

After performing the schema migration, complete the following steps to migrate data:

1. Use Migration Toolkit to migrate the data. For detailed information about using Migration Toolkit, see the [Migration Toolkit Guide](#).
2. Configure the Migration Toolkit `toolkit.properties` file, ensuring that connection information for the source and target databases is available in the property file:

```
SRC_DB_URL = jdbc: oracle:thin:@localhost:1521:ORCL
SRC_DB_USER = user_name
SRC_DB_PASSWORD = password
```

```
TARGET_DB_URL= jdbc:edb://localhost:5444/migration  
TARGET_DB_USER = enterprisedb  
TARGET_DB-PASSWORD = password
```

For more information, see [Building the toolkit.properties File](#).

1. Invoke Migration Toolkit in `–dataOnly` mode; include the `–truncLoad` keyword to resolve foreign key dependencies across tables.

For example, the following command migrates data to a schema named `hr`:

```
runMTK.sh –dataOnly –targetSchema hr –truncLoad HR
```

The command migrates the specified `source_schema` to the `target_schema`. The data is loaded into the locally installed EDB Postgres instance with a database superuser named `enterprisedb` and the password of `password`.

**Note:** The tables are truncated before attempting the data load.

---

## 5 Advanced Data Migration

For larger databases that require a parallel data load, you can use one of the following methods:

- Use the EDB Postgres Advanced Server database link feature (for compatibility with Oracle databases).

Or

- Use a Dblink or a database link style migration (if your data contains `CLOB` data).

For more information, see the [Migration Toolkit Guide](#).