



Migration Portal

Version 2.9

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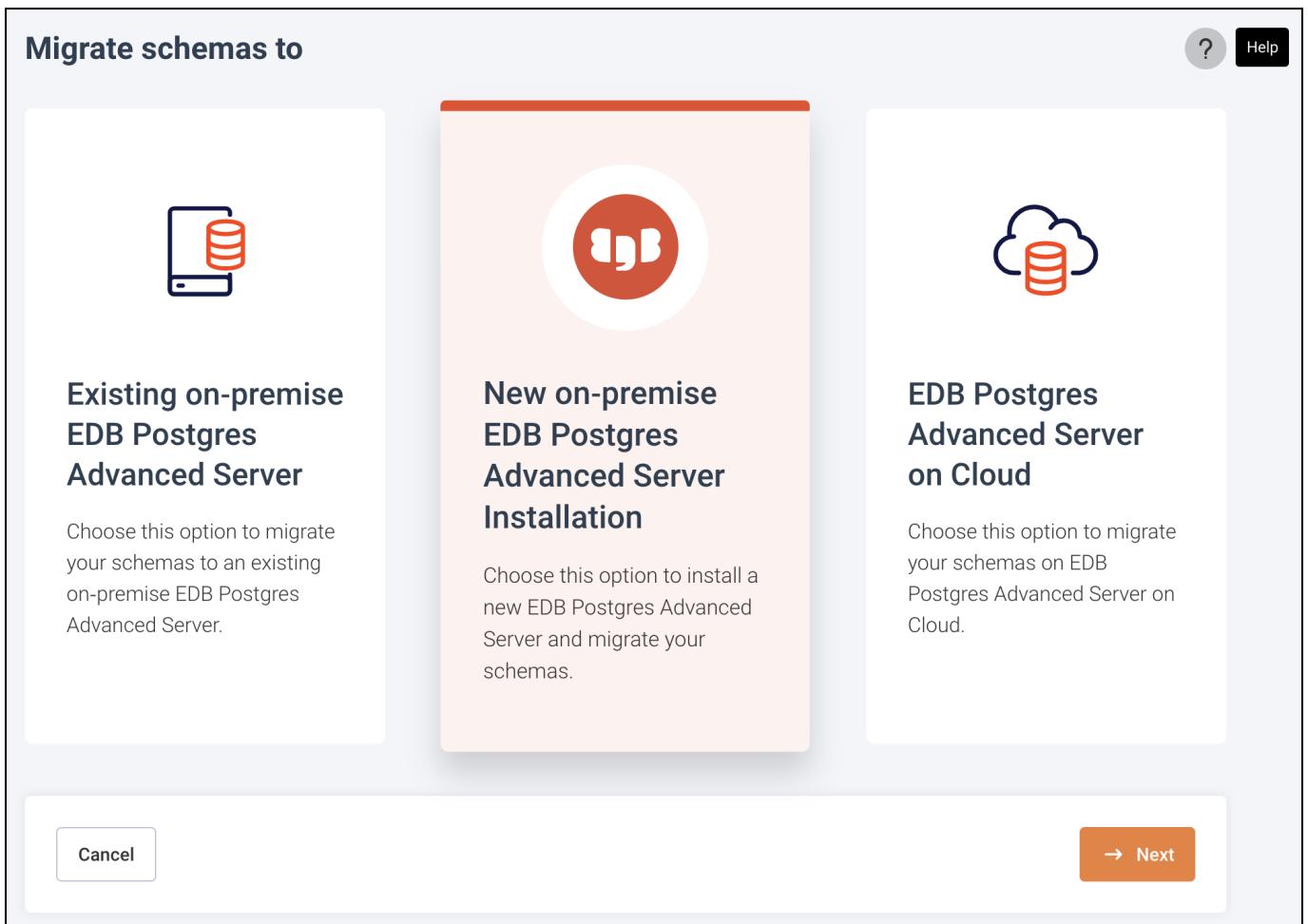
1 What's New

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

- Starting this release, you can install EDB Postgres Advanced Server or use EDB Postgres Advanced Server on the cloud directly from the Migration Portal.

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



For more information, see [Schema Migration <mp_schema_migration>](#).

- You can now fill up a [Contact Us](#) form for any help required for migration, installation, or other related queries.

Contact Us

X

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

- Many changes are made to the new UI for better user experience.
- Report generating duration for larger projects is optimized drastically. For example, previously, the time required to generate a report was 5 to 7 minutes. However, now it takes less than 5 seconds to generate a report.

New Repair Handler

The following repair handler is added to improve the Advance Server compatibility ratio:

- ERH 2090 - Convert Function:

Replaces Oracle's **CONVERT** function with EDB Postgres Advanced Server compatible **convert** or **convert_to** function inside any PL/SQL block.

For example:

```
CREATE VIEW MY_VIEW1 AS SELECT CONVERT('Ã‰ÍÑØÅBCD'
E','AL32UTF8','
WE8ISO8859P1') as CONVERT_TEST FROM dual;
CREATE VIEW MY_VIEW2 AS SELECT CONVERT('Ã‰ÍÑØÅBCD
E','AL32UTF8') as
```

```
CONVERT_TEST FROM dual;
```

would become:

```
CREATE VIEW MY_VIEW1 AS SELECT convert('Ã Ä Í Ó Ø A B C D E','LATIN1','UTF8')
as CONVERT_TEST FROM dual;
CREATE VIEW MY_VIEW2 AS SELECT convert_to('Ã Ä Í Ó Ø A B C D E','UTF8')
as CONVERT_TEST FROM dual;
```

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:

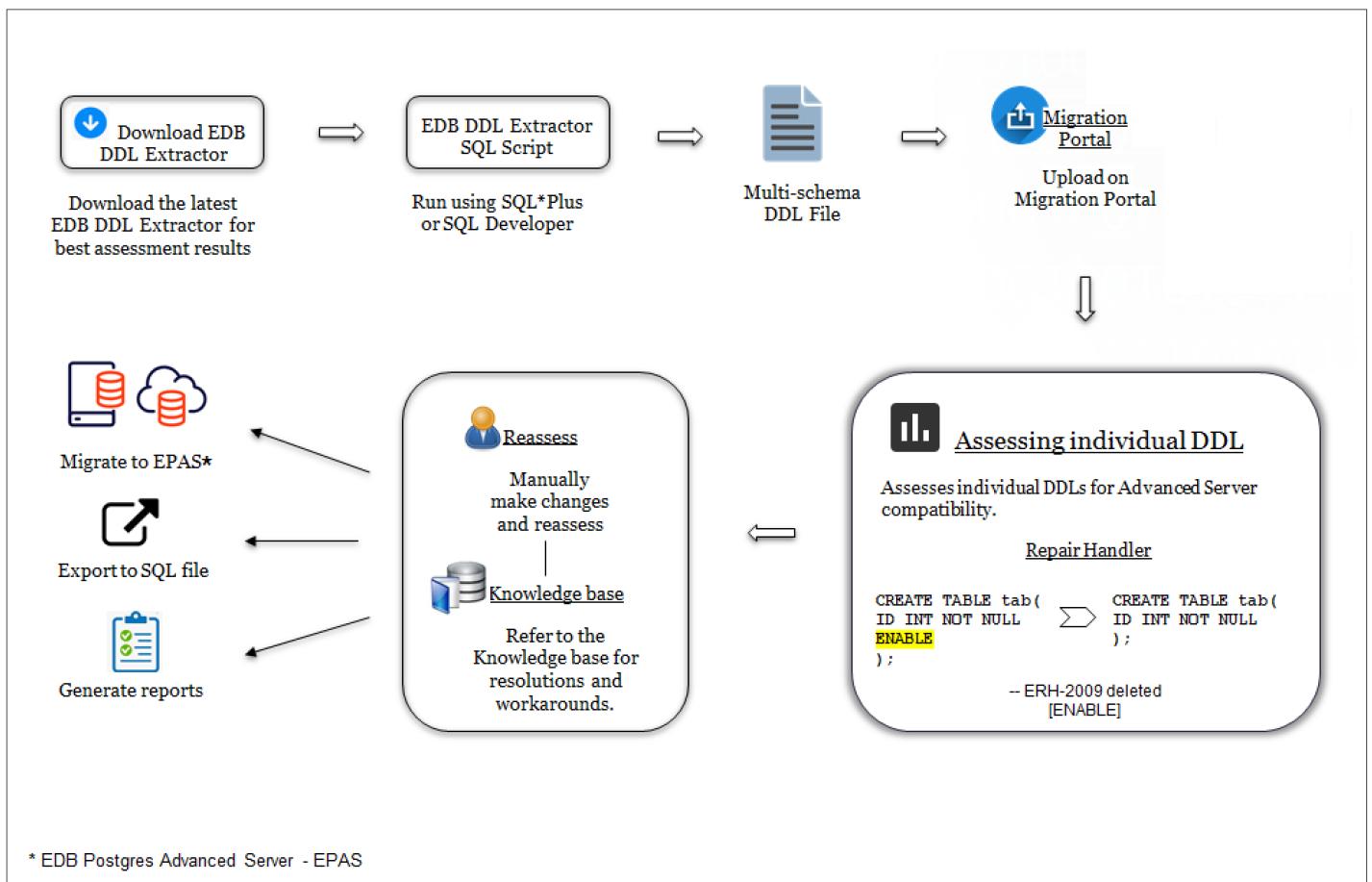
Browser	Supported Version
Apple Safari on Macintosh OS	11 and above
Google Chrome	68 and above
Microsoft Edge	42 and above
Mozilla Firefox	60 and above

Supported Operating Systems

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

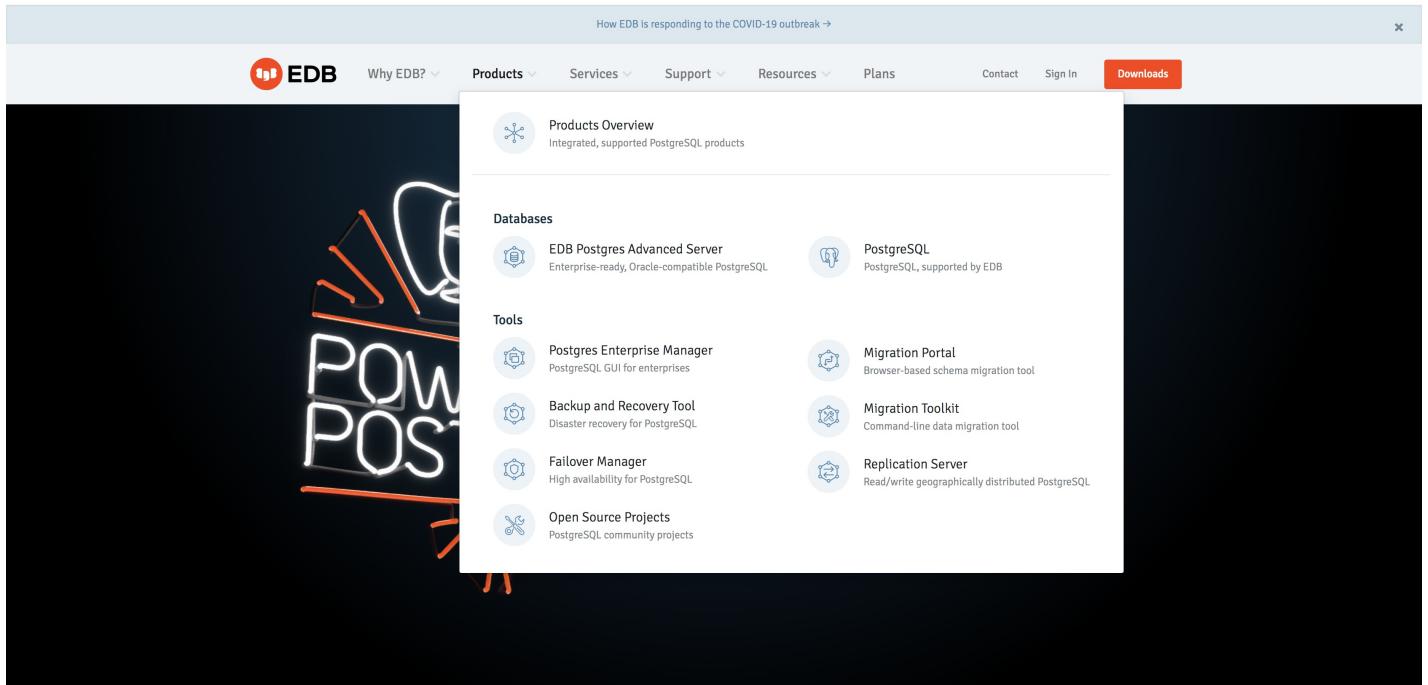
3 Using Migration Portal

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.

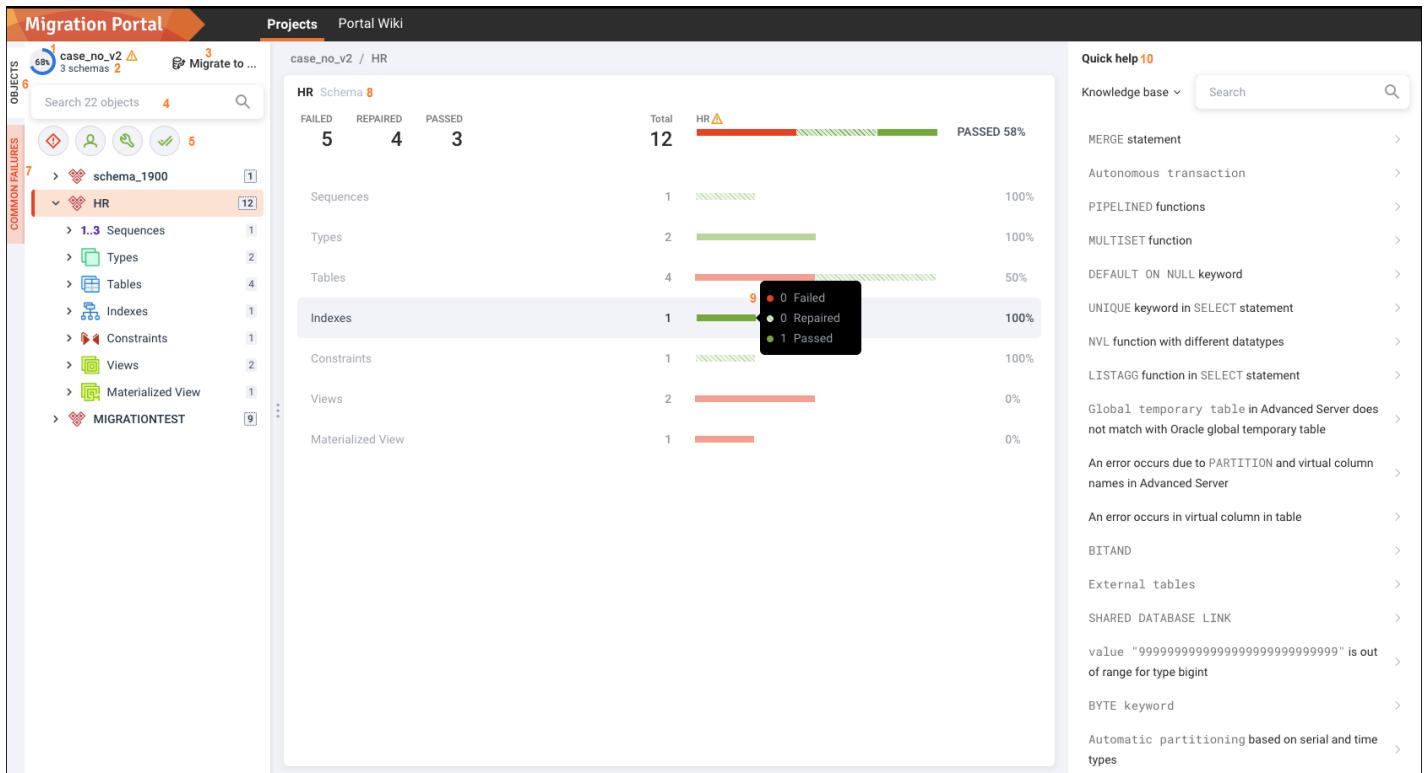
The screenshot shows the Migration Portal interface. On the left, the 'Projects' panel lists 295 projects, including 'testID', 'large89_v3', 'large89', 'data6', 'nls3', 'sql_hash10', 'sql_hash', 'vqq11', 'vx1', 'rhs8', 'single_txn1', and 'case_no_v2'. In the center, the 'Overview' panel displays details for the selected project 'case_no_v2': Interface (ODBC), Source DB (Oracle 11g), Target DB (EDB Postgres Advanced Server 10), and Compatibility (68%). Below this are sections for 'Schemas' (HR, MIGRATIONTEST, schema_1900) and 'Actions' (Migrate to ..., Report, Delete). A 'Quick help' panel on the right 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. **Overview:** The **Overview** panel provides details about the selected project and displays the compatibility percentage after schema assessment.
4. **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>**.
5. **Report:** Use the **Report** button to view and download the schema assessment report.
6. **Delete:** Use the **Delete** button to delete a selected project.
7. **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.
8. **Upload DDL file:** Use the **Upload new schema** button to upload a new or additional DDL file.
9. **Schemas:** The **Schemas** panel displays the assessment result from an uploaded DDL file.
10. **Quick help:** The **Quick help** panel contains all the help guides.
11. **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.

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 "loc"	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.

```

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

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

```

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

The screenshot shows the Migration Portal Wiki page. On the left, there is a sidebar with links to various sections like 'Portal Wiki', 'What's new', 'Quick Start guide', etc. The main content area is titled 'What's New' and lists 'Version 2.9.0 (19-Aug-2020)' as the latest enhancement. Below it, there is a modal window titled 'Migrate schemas to' with three options: 'Existing on-premise EDB Postgres Advanced Server', 'New on-premise EDB Postgres Advanced Server Installation', and '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:

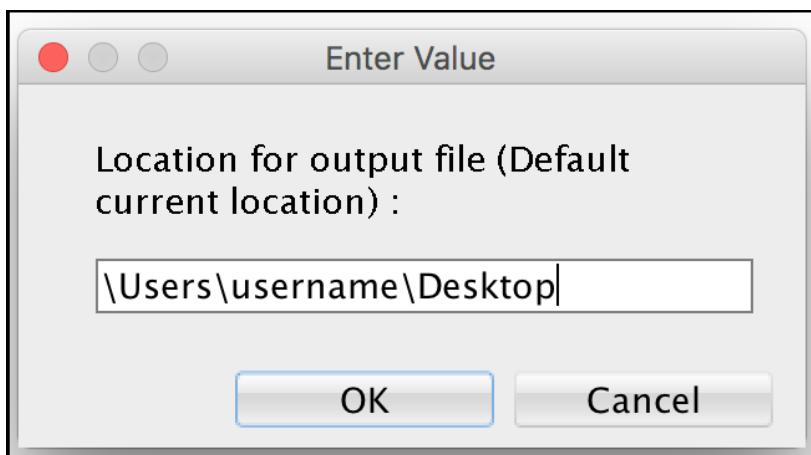
Enter comma separated list of schemas to be extracted (Default all schemas): HR,
 SCOTT, FINANCE Location for output file (Default current location) :
 c:\Users\Example\Desktop\

WARNING:

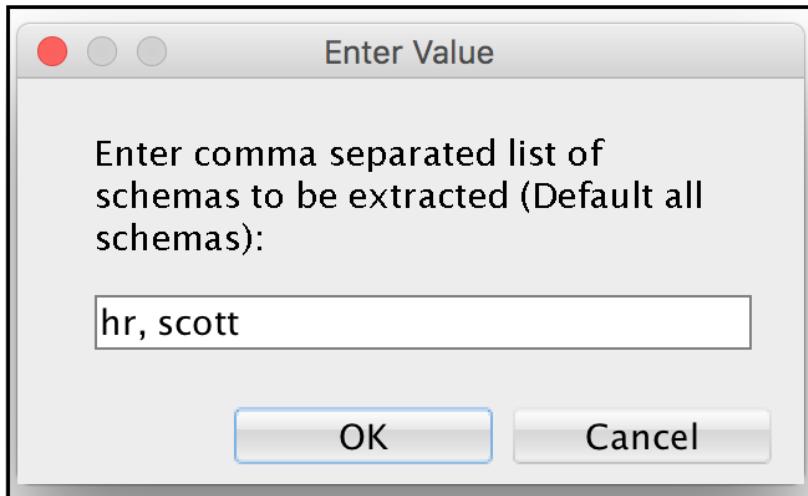
Given schema(s) list may contain objects which are dependent on objects from other schema(s), not mentioned in the list. Assessment may fail for such objects. It is suggested to extract all dependent objects together.

For SQL Developer

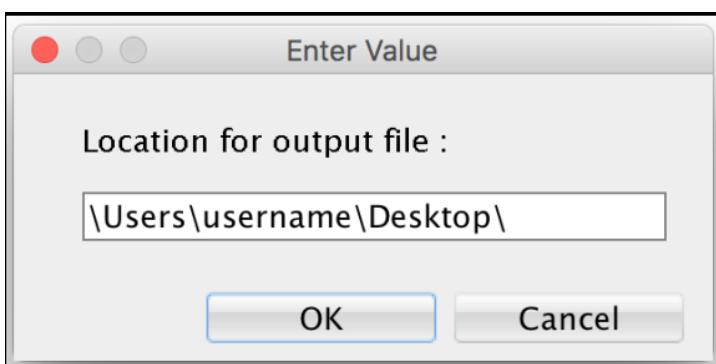
1. Connect to the SQL server and run the following command:



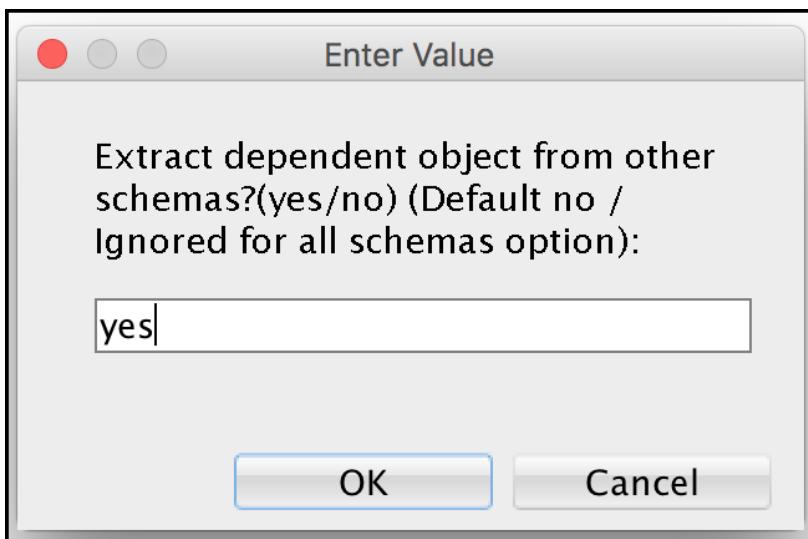
1. Enter a comma-separated list of schemas:



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

Application interface
 JDBC ODBC .NET OCI ProC Other

Source DB

Version

Target DB

Version

DDL file [How to get a DDL file?](#)

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

Description(Optional)

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.

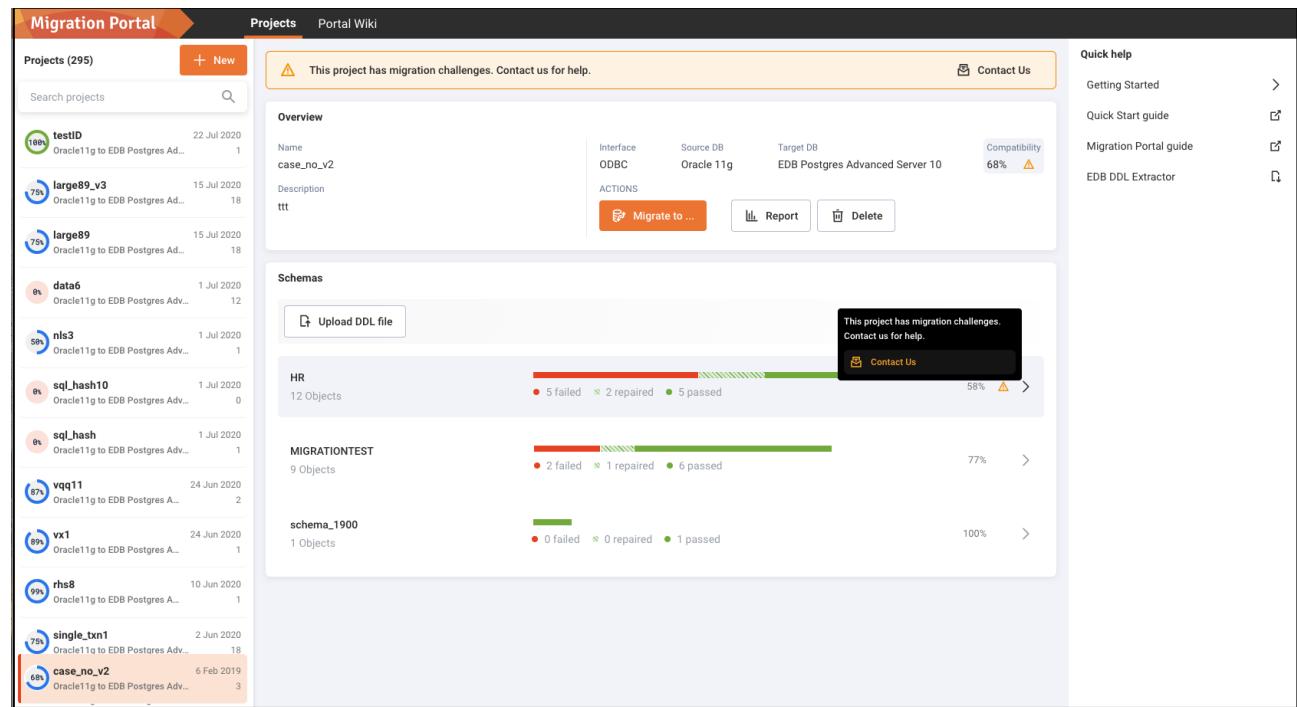
Note:

- 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.

case_no_v2 / HR

HR Schema

	FAILED	REPAIRED	PASSED	Total	HR	Passed %
Sequences	1			1	100%	
Types	2			2	100%	
Tables	4			4	50%	
Indexes	1		1	1	100%	
Constraints	1			1	100%	
Views	2			2	0%	
Materialized View	1			1	0%	

Common Failures

- schema_1900
- HR
- Sequences
- Types
- Tables
- Indexes
- Constraints
- Views
- Materialized View
- MIGRATIONTEST

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
- Automatic partitioning based on serial and time types

- 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.

case_no_v2 / HR / Tables / DEPARTMENTS_EXT

Source

```

1 CREATE TABLE HR.DEPARTMENTS_EXT
2   (
3     DEPTNO VARCHAR2(4),
4     DNAME VARCHAR2(20),
5     LOCATION VARCHAR2(20)
6   )
7   ORGANIZATION EXTERNAL
8     ( TYPE ORACLE_LOADER
9       (
10          (
11            DEPTNO VARCHAR2(4),
12            DNAME VARCHAR2(20),
13            LOCATION VARCHAR2(20)
14          )
15          server file_fdw_server
16          options (filename '/tmp/data.csv', format 'csv');
17      )
18    );

```

Target

```

CREATE FOREIGN TABLE HR.DEPARTMENTS_EXT
  (
    DEPTNO VARCHAR2(4),
    DNAME VARCHAR2(20),
    LOCATION VARCHAR2(20)
  )
server file_fdw_server
options (filename '/tmp/data.csv', format 'csv');

```

Output

Repaired

only superuser can change options of a file_fdw foreign table [line 1, char 0]

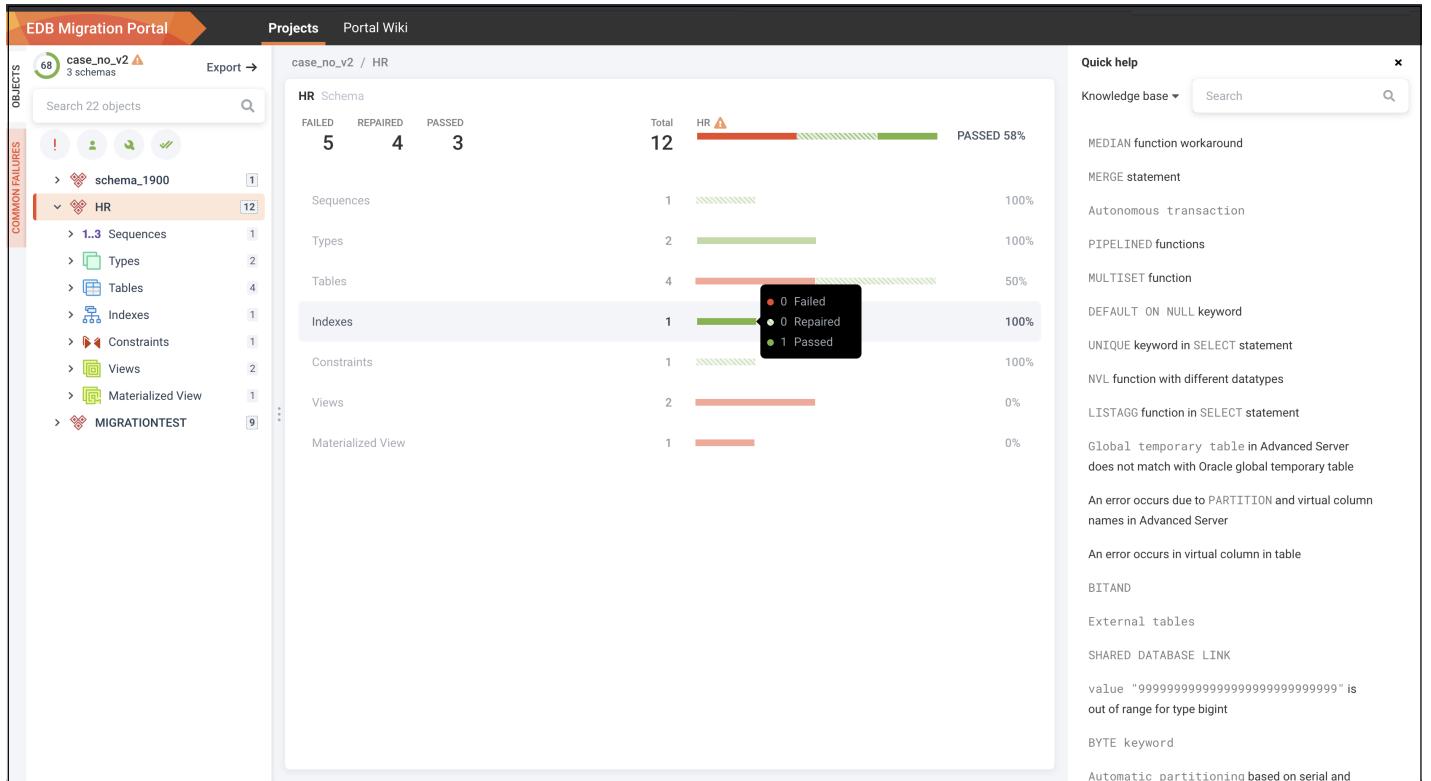
Common Failures

- schema_1900
- HR
- Sequences
- Types
- Tables
- DEPARTMENTS
- DEPARTMENTS_EXT
- DEPARTMENTS_EXT1
- EMPLOYEES
- Indexes
- DEPT_LOCATION_IX
- Constraints
- Views
- Materialized View
- MIGRATIONTEST

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
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- External tables
- SHARED DATABASE LINK
- value "99999999999999999999999999999999" is out of range for type bigint
- BYTE keyword
- Automatic partitioning based on serial and time types

- 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.



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.

Source

```

1 CREATE TABLE HR.EMPLOYEES
2   ( EMPLOYEE_ID NUMBER(6,0),
3     FIRST_NAME VARCHAR2(20),
4     LAST_NAME VARCHAR2(25) CONSTRAINT EMP_LAST_NAME_NN NOT NULL ENABLE,
5     EMAIL VARCHAR2(25) CONSTRAINT EMP_EMAIL_NN NOT NULL DISABLE,
6     PHONE_NUMBER VARCHAR2(20),
7     HIRE_DATE DATE CONSTRAINT EMP_HIRE_DATE_NN NOT NULL ENABLE,
8     JOB_ID VARCHAR2(10) CONSTRAINT EMP_JOB_NN NOT NULL ,
9     SALARY NUMBER(8,2),
10    COMMISSION_PCT NUMBER(2,2),
11    MANAGER_ID NUMBER(6,0),
12    DEPARTMENT_ID NUMBER(4,0),
13    CONSTRAINT EMP_SALARY_MIN CHECK (salary > 0) ,
14    CONSTRAINT EMP_EMAIL_UK UNIQUE (EMAIL) ,
15    CONSTRAINT EMP_EMP_ID_PK PRIMARY KEY (EMPLOYEE_ID) );

```

Target

```

1 CREATE TABLE HR.EMPLOYEES
2   ( EMPLOYEE_ID NUMBER(6,0),
3     FIRST_NAME VARCHAR2(20),
4     LAST_NAME VARCHAR2(25) CONSTRAINT EMP_LAST_NAME_NN NOT NULL ,
5     EMAIL VARCHAR2(25) CONSTRAINT EMP_EMAIL_NN NOT NULL ,
6     PHONE_NUMBER VARCHAR2(20),
7     HIRE_DATE DATE CONSTRAINT EMP_HIRE_DATE_NN NOT NULL ,
8     JOB_ID VARCHAR2(10) CONSTRAINT EMP_JOB_NN NOT NULL ,
9     SALARY NUMBER(8,2),
10    COMMISSION_PCT NUMBER(2,2),
11    MANAGER_ID NUMBER(6,0),
12    DEPARTMENT_ID NUMBER(4,0),
13    CONSTRAINT EMP_SALARY_MIN CHECK (salary > 0) ,
14    CONSTRAINT EMP_EMAIL_UK UNIQUE (EMAIL) ,
15    CONSTRAINT EMP_EMP_ID_PK PRIMARY KEY (EMPLOYEE_ID) );

```

Output

Repaired

Success

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
- Automatic partitioning based on serial and time types

Similarly, you can make all the incompatible objects compatible.

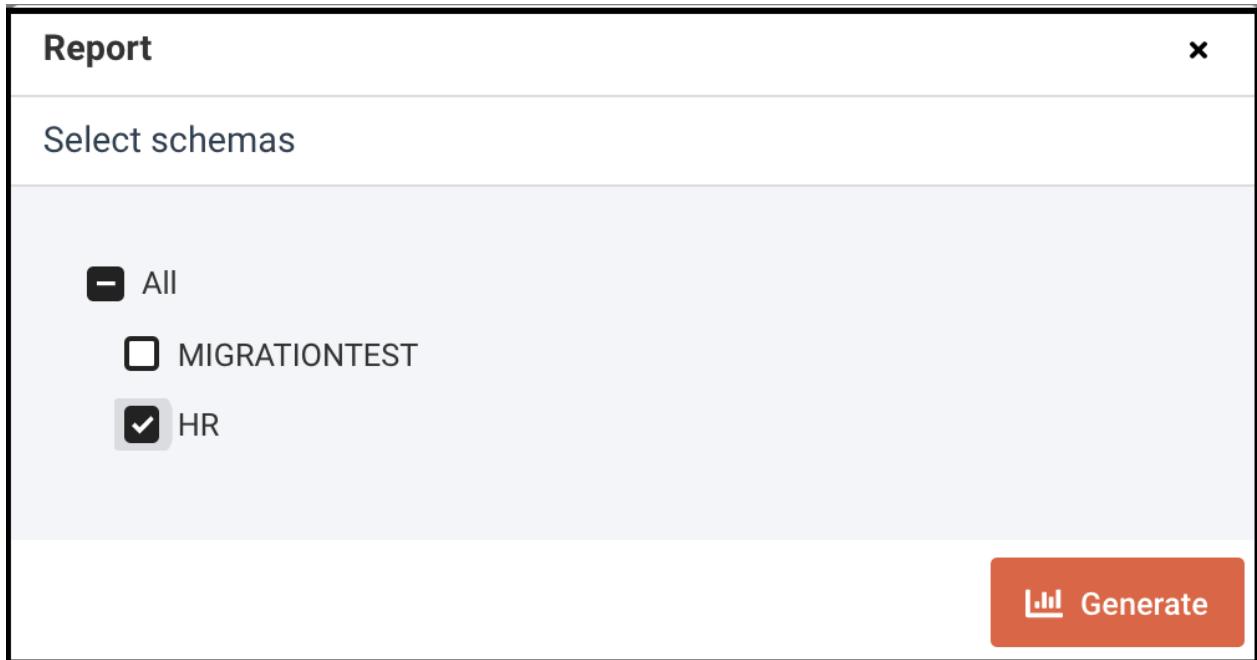
Note

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.



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.

The screenshot shows the 'Schema Assessment Report' page. It includes the following sections:

- Summary:** Shows a summary table and a bar chart for the 'HR' schema. The table shows 12 total objects, 5 passed, 2 repaired, and 5 failed, with 58% compatibility.
- Failed Objects:** A table showing failed objects by schema (HR) with 12 total and 5 failed.
- All failed objects:** A detailed table listing failed objects by object type (Materialized View, Table, etc.) and reason (e.g., 'relation "hr.emp" does not exist').

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.

11/08/2020

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 v2.8.0
11th August 2020, 12:24:05 pm

Description:
ttt

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	12	5	2	5	58%
Schemas	Total objects	Passed	Repaired	Failed	Compatibility



Object type	Total	Passed	Repaired	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

Count	Reason	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 "loc"	Views (1)
1	relation "hr.emp" does not exist	Materialized View (1)

<https://stage-migration.enterprisedb.com>

1/2

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

Migrate schemas to

?

Help



Existing on-premise EDB Postgres Advanced Server

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

[Cancel](#)



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.

[→ Next](#)

Existing on-Premise EDB Postgres Advanced Server

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 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 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% ⚠
----------------------------	-------------------	-------------------------	----------------------------------------------	-------------------------------

Select one or more schemas

All
 schema_1900
 HR
 MIGRATIONTEST

Cancel ← Previous → Next

Note

In case your schemas are not 100% compatible, a banner will be displayed as shown, and you can fill 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	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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 11 (your assessed version).

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

1. Click on **Windows**:

Migrate schemas to existing on-premise EDB Postgres Advanced Server

?

1 Select Schemas 2 Download Schema 3 Import 4 Finish

Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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
```

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

Interface
JDBC

Source DB
Oracle 11g

Target DB
EDB Postgres Advanced Server 11

Compatibility
100%

Select one or more schemas

- All
- HR
- DEPEND_SECOND
- DEPEND_FIRST

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

Interface
JDBC

Source DB
Oracle 11g

Target DB
EDB Postgres Advanced Server 11

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 11 (your assessed version).

Cancel

← Previous

→ Next

1. Click on **Linux**:

Migrate schemas to existing on-premise EDB Postgres Advanced Server

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

Import the selected schemas

Run the following command:

Windows **Linux**

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](#)

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
```

New On-Premise EDB Postgres Advanced Server

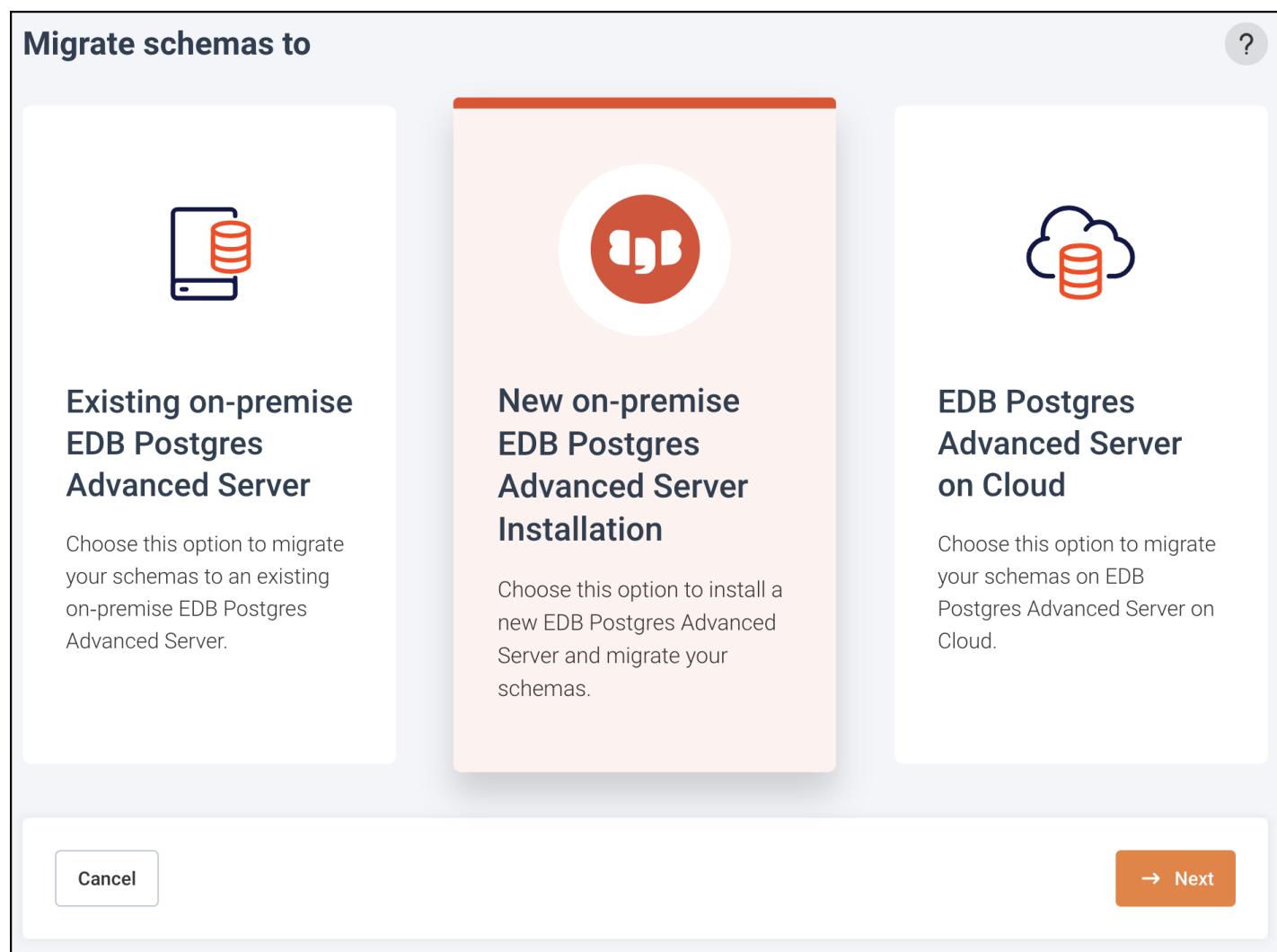
You can install new EDB Postgres Advanced Server on-premise on Windows or Linux

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 Postgres Advanced Server** option.



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

Select one or more schemas

- All
- HR
- DEPEND_SECOND
- DEPEND_FIRST

[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	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	Compatibility 100%
------------------------	-------------------	-------------------------	----------------------------------------------	-----------------------

Install EDB Postgres Advanced Server for Windows

 Download Windows installer 

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

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

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

Get EDB Postgres Advanced Server **4 Install EDB Postgres Advanced Server** Download Schema **6**

Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	Compatibility 100%
------------------------	-------------------	-------------------------	----------------------------------------------	-----------------------

Install EDB Postgres Advanced Server on Windows

EDB Postgres™ Advanced Server Installation Guide for Windows

Cancel Previous Next

- Download the assessed schemas.

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

Advanced Server **5 Download Schema** Import **7 Finish**

Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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 11 (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 ?

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

Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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 ?

< Advanced Server ✓ Install EDB Postgres Advanced Server ✓ Download Schema ✓ Import 7 Finish

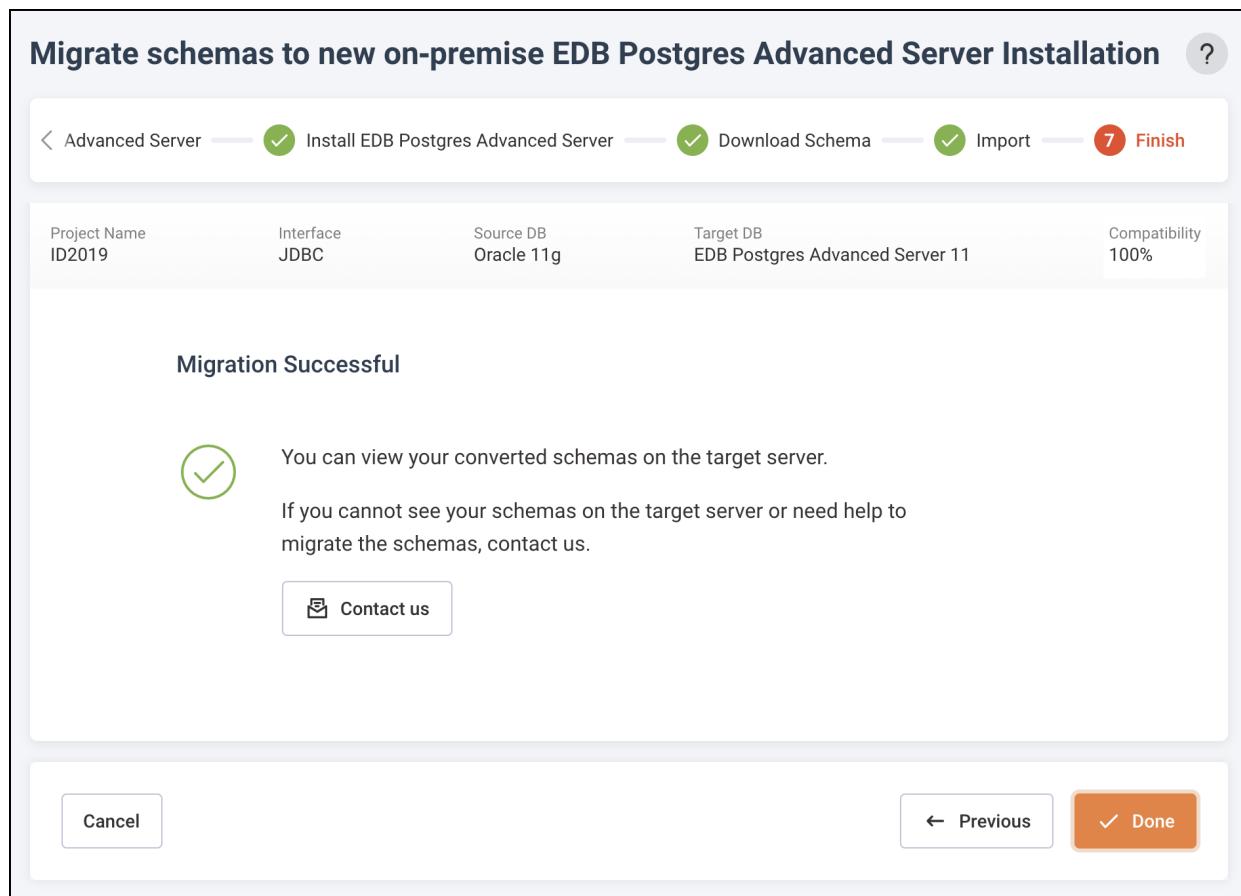
Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	Compatibility 100%
------------------------	-------------------	-------------------------	----------------------------------------------	-----------------------

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

Select one or more schemas

All

HR

DEPEND_SECOND

DEPEND_FIRST

[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	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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

The screenshot shows the 'Migrate schemas to new on-premise EDB Postgres Advanced Server Installation' interface. The top navigation bar has a question mark icon. Below it, a progress bar shows steps 1 through 4: 'Select Schemas' (green checkmark), 'Select Platform' (green checkmark), 'Get EDB Postgres Advanced Server' (red circle with '3'), and 'Install EDB Postgres Advanced Server' (gray circle with '4').

Project Name	Interface	Source DB	Target DB	Compatibility
ID2019	JDBC	Oracle 11g	EDB Postgres Advanced Server 11	100%

The main content area is titled 'Install EDB Postgres Advanced Server for Linux'. It contains two options: 'Repository' (with a file icon) and 'More options' (with a three-dot icon). Each option has a corresponding 'Next' button to its right.

Buttons at the bottom include 'Cancel', '← Previous', and '→ 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 >

Project Name
ID2019

Interface
JDBC

Source DB
Oracle 11g

Target DB
EDB Postgres Advanced Server 11

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

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

Project Name
ID2019

Interface
JDBC

Source DB
Oracle 11g

Target DB
EDB Postgres Advanced Server 11

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 11 (your assessed version).

[Cancel](#)

[← Previous](#)

[→ Next](#)

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

```
sudo su - enterpriseedb
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



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

Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	Compatibility 100%
------------------------	-------------------	-------------------------	----------------------------------------------	-----------------------

Import schemas into EDB Postgres Advanced Server

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](#)

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 ?

Advanced Server ✓ Install EDB Postgres Advanced Server ✓ Download Schema ✓ Import 7 Finish

Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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](#)

EDB Postgres Advanced Server on Cloud

To migrate schemas on EDB Postgres Advanced Server on 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 on 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

Interface
JDBC

Source DB
Oracle 11g

Target DB
EDB Postgres Advanced Server 11

Compatibility
100%

Select one or more schemas

All

HR

DEPEND_SECOND

DEPEND_FIRST

[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

Interface
JDBC

Source DB
Oracle 11g

Target DB
EDB Postgres Advanced Server 11

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	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	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

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

Connect to IBM™ Cloud cluster

Target Database: ID2019

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:

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

?

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

Project Name ID2019	Interface JDBC	Source DB Oracle 11g	Target DB EDB Postgres Advanced Server 11	Compatibility 100%
------------------------	-------------------	-------------------------	----------------------------------------------	-----------------------

Target Database
ID2019

Host Name/Address Port
52.5.148.59 5444

Maintenance Database
dmp_exec

Note: Deployment will create a new database **ID2019** 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 →](#)

- Once the connection is successful, click **Next**:

Migrate schemas to EDB Postgres Advanced Server on Cloud

Project Name: ID2019 Interface: JDBC Source DB: Oracle 11g Target DB: EDB Postgres Advanced Server 11 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](#).