

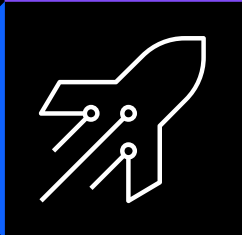
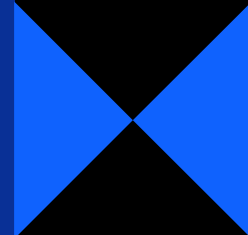
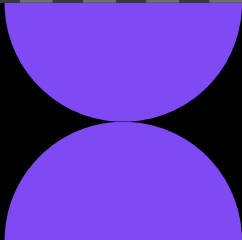
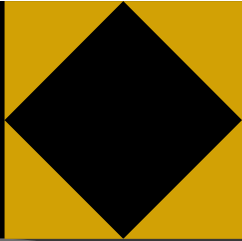
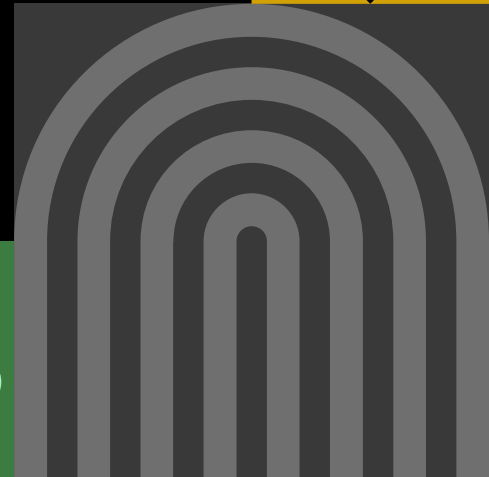
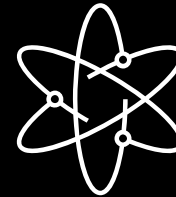
IBM Db2 Bridge

Vijaya Katikireddy
Senior Product Manager, IBM

Mohankumar Saraswatipura
DBA & IBM Gold Consultant

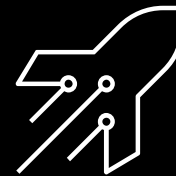
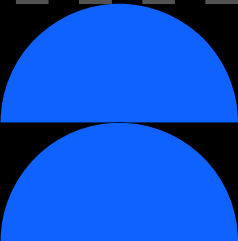
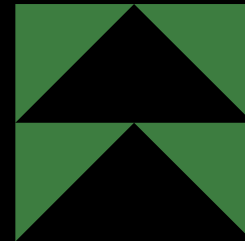
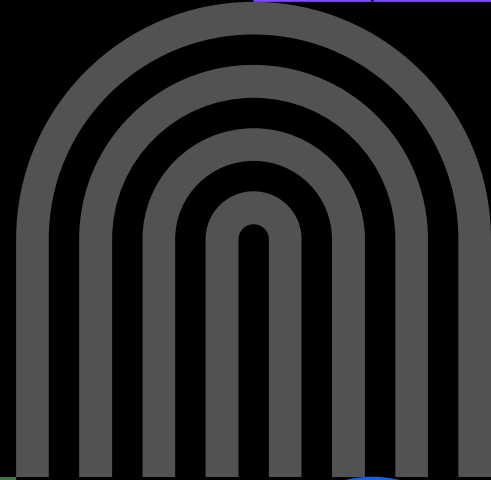
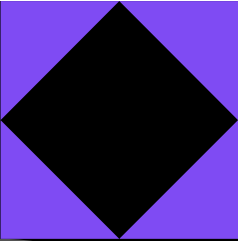
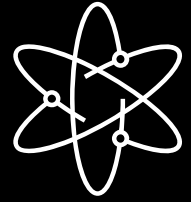
Explore.
Build.
Launch.

GO/



Agenda

- 01 Db2 Bridge Overview
- 02 Oracle to Db2 Migration
- 03 Teradata to Db2 Migration
- 04 Db2 to Db2 Migration
- 05 Command Line Interface
- 06 Db2 Health Check
- 07 Roadmap
- 08 Case Studies



“

Data Migration Strategies to Cut Down
Migration Costs by 70%.

”

<https://firsteigen.com/blog/data-migration-strategies-to-cut-down-migration-costs-by-70>

Historically.. many tools arrived...

- Not robust enough
- Cannot handle endian differences
- Low DDL conversion rates
- No longer maintained

Paving way to ..
IBM Db2 Bridge

Data Conversion Workbench

Data Movement Tool

db_migrate_iias

Db2 Migration Service

Lift

IBM Db2 Bridge

db_migrate

Fast Data Movement

Click 2 Containerize

Db2 Migration Toolkit

Db2 Bridge: Use Cases

Migration

Oracle
Teradata
Db2 on-prem/cloud
Db2 Warehouse on-prem/cloud
Db2 on Power 10/11 Cloud Rack
Db2 Data files
IBM Integrated Analytics System
(IIAS 4002 aka [Sailfish](#))

Data Transfer

Accommodates complex data movement around [ETL](#) use-cases.

Scripting by utilizing Db2 Bridge (daily, weekly...)

DevOps

Help speed up the development, by quickly standup [Dev/Test](#) environment based on production baseline.

Db2 Bridge: Strengths

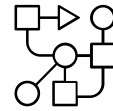


Comes with **easy-to-use UI** and **powerful CLI**

Supports a variety of **deployments**; On-prem or Cloud;
Transactional or Analytical workloads.



Operating system agnostic and not impacted by
big/little endian formats or other code page
differences. Conversions are done efficiently between
SBCS and UTF8



Preserves data integrity by analyzing the
dependencies between objects



Ability to **scope the the objects**; Schema or
granular levels;

Support for **Row/Columnar** formats

Db2 Bridge: Note-worthy points

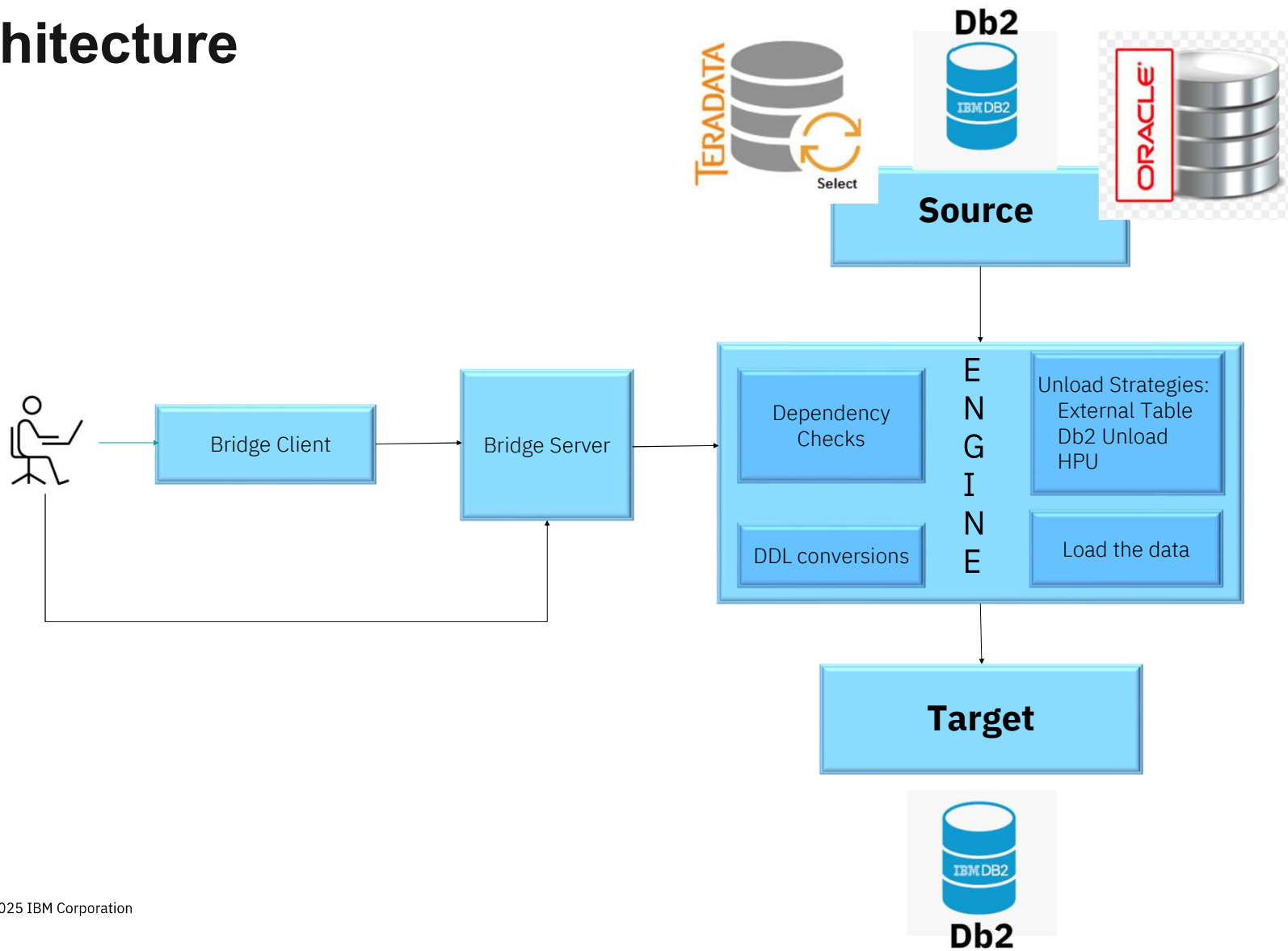
❖ Installation Options

- Standalone Software
 - must be installed on Linux; Power or X86.
 - Supports RHEL 8 and RHEL 9
- Container Image

❖ Supported Db2 Releases

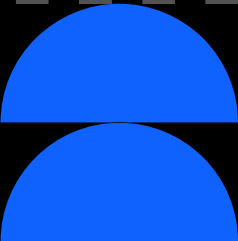
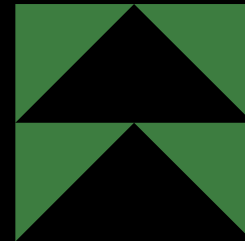
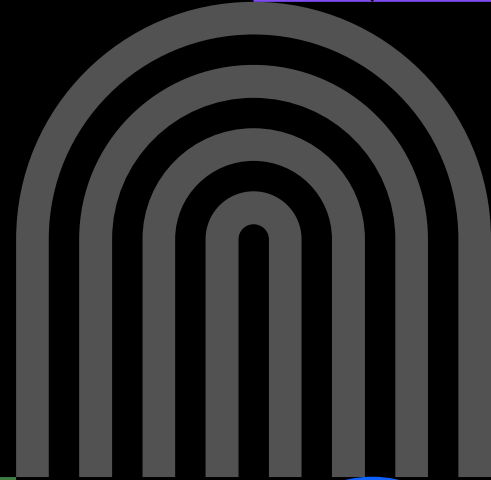
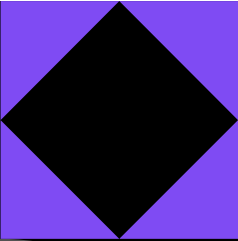
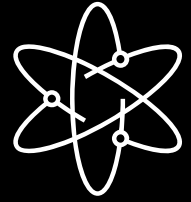
- For source, Db2 10.5 or later
- For target, Db2 11.5 or later

Architecture



Agenda

- 01 Db2 Bridge Overview
- 02 Oracle to Db2 Migration
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Db2 Bridge: Oracle Migration

Supported Objects

- Tables (including partitioned by range)
- Tablespaces
- Synonyms based on:
 - Tables
 - Views
 - Other synonyms (will be converted to Aliases upon migration)
- Sequences
- Procedures
- Functions
- Triggers

Db2 Bridge: Oracle Migration

Oracle to Db2 datatype mapping

Supported Data Types:

- INT or INTEGER
- NUMBER, NUMERIC
- DEC or DECIMAL, FLOAT, REAL
- BINARY_DOUBLE, BINARY_FLOAT, DOUBLE PRECISION
- CHAR, VARCHAR2, NCHAR, NVARCHAR,
- DATE, TIME, TIMESTAMP
- Binary Large Object (BLOB)
- Character Large Object (CLOB)

Oracle	Db2
INTEGER	INTEGER
BINARY_DOUBLE	DOUBLE
BINARY_FLOAT	REAL
CHAR(1-254)	CHAR
CHAR(255-32672)	VARCHAR
CHAR(>32672)	VARCHAR
CHAR VARYING	VARCHAR2
VARCHAR2/VARCHAR	VARCHAR2
DEC/DECIMAL	DECFLOAT/DECIMAL
FLOAT(0-31)	FLOAT
FLOAT(32-53)	DOUBLE
FLOAT(54-126)	DECFLOAT(34)
NUMBER	DECFLOAT/NUMBER
TIMESTAMP WITH TIMEZONE	TIMESTAMP IN UTC

Db2 Bridge: Oracle Migration

Not supported during migration

- RAW, LONG, LONG RAW data types
- Interval data type, BFILE
- UDT conversions have limited support for certain types , AS TABLE of syntax, Oracle type body, etc.
- Data migration for UDT type tables
- Procedures/Packages referring SYS schema(Oracle's system schemas)
- External tables
- Oracle composite partitioning types for tables
- Certain Oracle specific functions that have no equivalent constructs in Db2 like local transaction id, crypto hash functions etc.
- Any synonyms other than those for tables, views, modules/packages, sequences
- SYS.ANYDATA references aren't supported, no equivalent in Db2, so needs to be refactored to use exact type or UDT
- Returning ROWID clause
- Oracle Advanced Queue
- RULE SET, RULE, TYPE BODY, CONTEXT, DIRECTORY, EVALUATION CONTEXT, QUEUE, DATABASE LINK

Db2 Bridge: Oracle Migration

Landing Page

IBM Db2 Bridge

Welcome, admin!

Set up of your data migration with Bridge and monitor the database health with Health check.

Db2 Health check Basic

Database assessment and planned migration tool.

Db2 Bridge 30-day trial 24 days left

Unified data movement solution for migrating database workloads, modernizing data infrastructure and for regular data movement.

Databases

5

5 of 5 databases are running smoothly

ORACLE://C23807V1.FYRE.IBM.COM:1521/ORCL

ORACLE://C63320V1.FYRE.IBM.COM:1521/ORCL

DB2://9.30.246.207:25010/TESTORA

DB2://9.30.246.207:25010/MIGORCL1

DB2://9.30.246.207:25010/ORATEST

[View details](#)

Upgrade check

Last run for migorc1

on Wed 06/24/2026 1:43 PM

[View details](#)

Bridge definitions

Definitions

12

definitions has been created using Db2 Bridge

Migrations

5

migrations has been executed using Db2 Bridge

Migration status summary

Success 3

In progress 0

Error 2

Terminated 0

[View details](#)

Db2 Bridge: Oracle Migration

Manage Connections

IBM Db2 Bridge

Connections

Database details

Find database connections

New connection +

	Database name	Database type	Connection status	Host name	Port number	User name	Created on	Last modified
☐	migorcld	Db2	Success	9.30.246.207	25010	db2inst1	Wed 06/24/2026 1:42 PM	–
☐	TESTORA	Db2	Success	9.30.246.207	25010	db2inst1	Sun 06/21/2026 11:43 PM	–
☐	ORCL	Oracle	Success	c63320v1.fyre.ibm.com	1521	dba_admin	Fri 06/19/2026 1:21 PM	–
☐	ORCL	Oracle	Success	c23807v1.fyre.ibm.com	1521	sakthi	Fri 06/19/2026 1:17 PM	–
☐	oratest	Db2	Success	9.30.246.207	25010	db2inst1	Fri 06/19/2026 1:17 PM	–

Db2 Bridge: Oracle Migration

New Connections; Db2, Oracle or Teradata

IBM Db2 Bridge

Connections

Database details

Find database connections

- ☐ Database name
- ☐ migorc1
- ☐ TESTORA
- ☐ ORCL
- ☐ ORCL
- ☐ oratest

Edit connection

Database type

Select Database Type

Host name or IP address

host1

Port #

1234

Database name

dbname

Db2 ODBC driver (optional)

Default

☒ Enable SSL

Certificate (optional)

None

User ID

admin

Password

.....

Test connection

Cancel

Save connection

New connection +

modified

Db2 Bridge: Oracle Migration

Create Bridge Definition

IBM Db2 Bridge

Db2 Bridge jobs

Definition

Status

Schema converter

Find definition

Create Db2 Bridge definition +

☐	Name	Source	Target	Type	Last modified
 No Db2 Bridge definitions Create Db2 Bridge jobs to migrate your data from the source database to the target cloud database. Create Db2 Bridge definition +					

Db2 Bridge: Oracle Migration

Bridge Definition Details

The screenshot shows the 'Create Db2 Bridge definition' wizard in the IBM Db2 Bridge application. The wizard is titled 'Create Db2 Bridge definition' and has a sidebar with the following steps: 'Describe definition' (selected), 'Define source', 'Define target', 'Configure definition', 'Select objects', and 'Summary and verify'. The main area is titled 'Describe definition' and contains the following fields:

- Name:** A text input field containing 'Oracle to Db2 Migration'.
- Description (optional):** A text area with a character count of 34/100, containing the text 'From Oracle to On-Prem Db2 on Fyre'.
- Type:** A dropdown menu currently set to 'One-time'.

At the bottom of the wizard, there are three buttons: 'Cancel', 'Back', and 'Next'. The 'Next' button is highlighted in blue, indicating it is the primary action.

Db2 Bridge: Oracle Migration

Source Details – Oracle Database

IBM Db2 Bridge

Create Db2 Bridge definition

- Describe definition
- Define source**
- Define target
- Configure definition
- Select objects
- Summary and verify

Define Source

Existing connection	Database type
ORACLE://C23807V1.FYRE.IBM.COM: x	Oracle
Host name or IP address	Port #
c23807v1.fyre.ibm.com	1521
Database name	Oracle ODBC driver
ORCL	ODBC driver path
☐ Enable SSL	
Certificate (optional)	
None	
User ID	
sakthi	

Cancel Back Next

Db2 Bridge: Oracle Migration

Target Details – Db2 Database

IBM Db2 Bridge

Create Db2 Bridge definition

- Describe definition
- Define source
- Define target**
- Configure definition
- Select objects
- Summary and verify

Define Target

Existing connection	Database type
DB2://9.30.246.207:25010/MIGOR... x v	Db2 v
Host name or IP address	Port #
9.30.246.207	25010
Database name	Db2 ODBC driver (optional)
migorcl1	Default v
☒ Enable SSL	
Certificate (optional)	
None v	
User ID	
db2inst1	

Cancel Back Next

Db2 Bridge: Oracle Migration

Migration Options

IBM Db2 Bridge

Create Db2 Bridge definition

- Describe definition
- Define source
- Define target
- Configure definition**
- Select objects
- Summary and verify

Configure definition

Data Migration scenarios

☒ Best fit ⓘ ☐ Skip data migration ⓘ ☐ ODBC mode ⓘ ☐ HPU mode ⓘ

☐ Transfer using Db2 binary format ⓘ

☒ Include object dependencies ⓘ

☐ Truncate target table data ⓘ

☐ Migrate hidden columns

☐ Maintenance mode ⓘ

Compress data ⓘ None ▼

Number of parallel data streams ⓘ Please provide number of parallel data stream

Target tablespace name ⓘ (Default)

Grants ⓘ Object ▼

Row count ⓘ None ▼

[Cancel](#) [Back](#) [Next](#)

Db2 Bridge: Oracle Migration

Select Objects

IBM Db2 Bridge

Create Db2 Bridge definition

Describe definition

Define source

Define target

Configure definition

Select objects

Summary and verify

Select objects to migrate

Find object

Select object

Object name	Type
-------------	------



No objects selected

Choose objects to migrate.

Select objects +

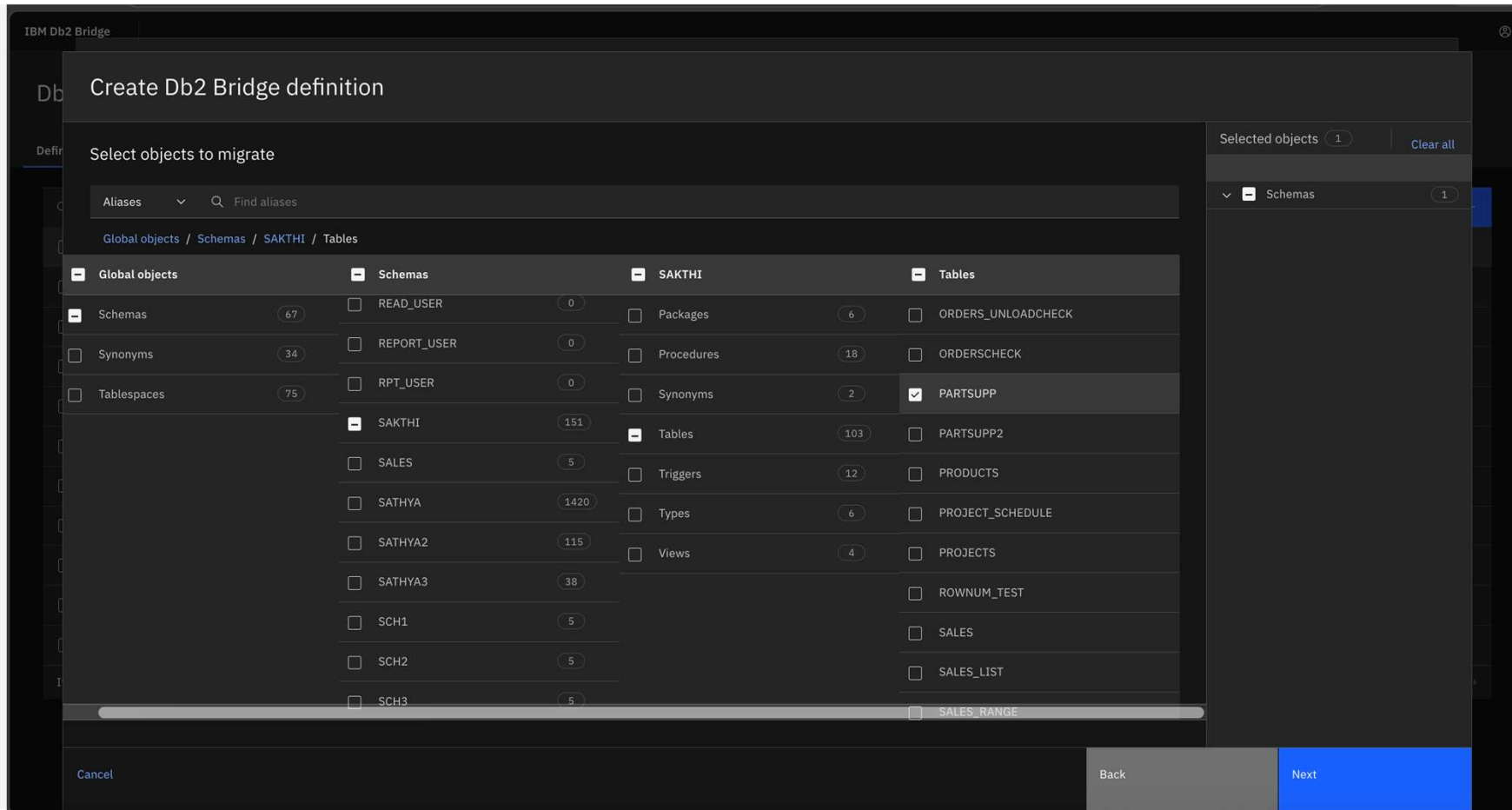
Cancel

Back

Next

Db2 Bridge: Oracle Migration

Selecting of Objects from Oracle database



Db2 Bridge: Oracle Migration

Selected objects from Oracle database

The screenshot shows the 'Create Db2 Bridge definition' wizard in the IBM Db2 Bridge application. The wizard is in the 'Select objects to migrate' step. On the left, a sidebar lists the steps: Describe definition, Define source, Define target, Configure definition, Select objects (current step), and Summary and verify. The main area displays a table of objects to migrate, with a search bar and a filter icon. The table has two columns: Object name and Type. The objects are organized in a tree structure under Schemas. The 'PARTSUPP' table is selected.

IBM Db2 Bridge

Create Db2 Bridge definition

- Describe definition
- Define source
- Define target
- Configure definition
- Select objects**
- Summary and verify

Select objects to migrate

Find object Edit object selections

Object name	Type
^ Schemas	Global objects
^ SAKTHI	Schemas
^ Tables	Objects
PARTSUPP	Tables

Cancel Back Next

Db2 Bridge: Oracle Migration

Check the summary of choices – and move on to the next step – save & convert

The screenshot shows the 'Create Db2 Bridge definition' wizard in the IBM Db2 Bridge application. The 'Summary and verify' step is active, showing a summary of the configuration. The left sidebar lists the steps: Describe definition, Define source, Define target, Configure definition, Select objects, and Summary and verify. The main area displays the 'Describe definition' section with fields for Name, Description, Type, and Define Source. The 'Define Source' section includes fields for Connection name, Host name or IP address, Port #, Database name, Oracle ODBC driver, Enable SSL, Source certificate, User ID, and Password. The 'Define Target' section is partially visible at the bottom. At the bottom right, there are buttons for Cancel, Back, Save, and Save and convert.

IBM Db2 Bridge

Create Db2 Bridge definition

- Describe definition
- Define source
- Define target
- Configure definition
- Select objects
- Summary and verify

Summary and verify

Describe definition

[Edit](#)

Name
Oracle to Db2 Migration

Description (optional)
-

Type
One-time

Define Source

[Edit](#)

Connection name
ORACLE://C23807V1.FYRE.IBM.COM:1521/ORCL

Host name or IP address c23807v1.fyre.ibm.com	Port # 1521
Database name ORCL	Oracle ODBC driver Default

☒ Enable SSL

Source certificate
-

User ID
sakthi

Password
-

Define Target

[Edit](#)

[Cancel](#) [Back](#) [Save](#) [Save and convert](#)

Db2 Bridge: Oracle Migration

Conversion is either successful, not supported or requires validation. DDLs can be compared and exported to CSV file

IBM Db2 Bridge

Home / Db2 Bridge / Bridge job definitions

Bridge job definitions

Run migration

Details Objects and DDLs

Object status

Total: 3

Conversion successful: 2

Parsing failed: 0

Migration Running: 0

Migration Warning: 0

Requires validation: 1

Conversion not supported: 0

Migration Pending: 0

Conversion in progress: 0

Migration Success: 0

Migration Error: 0

Type

Total: 3

Table: 1

Tablespace: 1

Bufferpool: 1

Migrated objects

3 items included for migration

Object name

Type

Start time

Duration

Recent object status

Migration status view

☒

SAKTHI.PARTSUPP

Table

-

-

Requires validation

No migrations has been executed.

☒

USERS

Tablespace

-

-

Conversion successful

No migrations has been executed.

☒

BP8K

Bufferpool

-

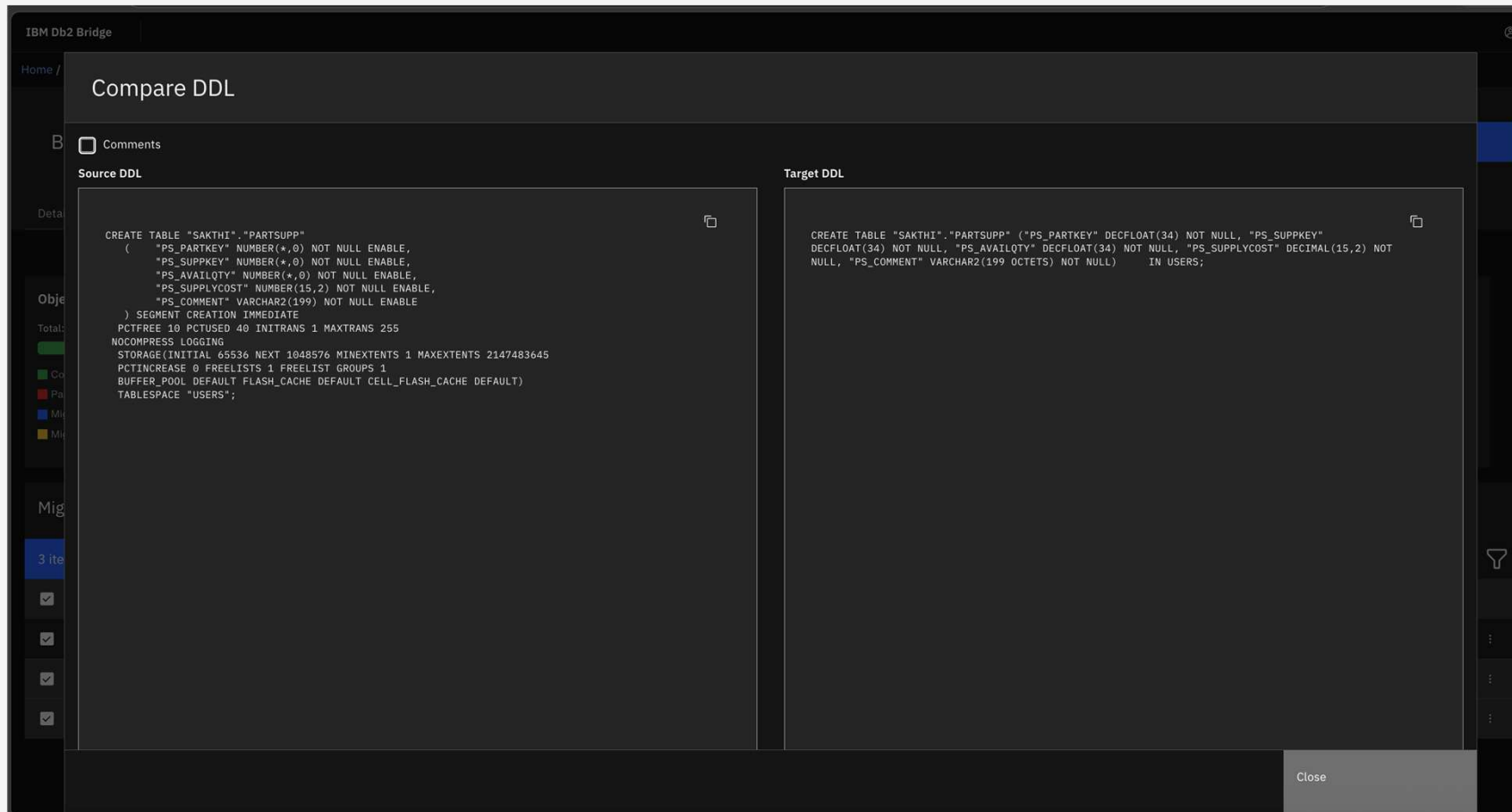
-

Conversion successful

No migrations has been executed.

Db2 Bridge: Oracle Migration

Especially when it requires validation, compare the DDLs before you include the object for migration



Db2 Bridge: Oracle Migration

Run migration – included object dependencies

The screenshot displays the IBM Db2 Bridge web interface. At the top, the breadcrumb navigation shows 'Home / Db2 Bridge / Bridge job definitions'. The main heading is 'Bridge job definitions', with a 'Run migration' button in the top right. Below this, there are tabs for 'Details' and 'Objects and DDLs'. The 'Objects and DDLs' tab is active, showing a table of migrated objects. A modal dialog box titled 'Run Db2 Bridge definition' is open, asking 'Would you like to include object dependencies for the selected items in Oracle to Db2 Migration for migration?'. The dialog has a checked checkbox for 'Include object dependencies' and 'Run' and 'Cancel' buttons.

Object status

Total: 3

- Conversion successful: 2
- Parsing failed: 0
- Migration Running: 0
- Migration Warning: 0
- Requires validation: 1
- Conversion not supported: 0
- Migration Pending: 0

Migrated objects

3 items included for migration

Object name	Type	Start time	Duration	Recent object status	Migration status view
SAKTHI.PARTSUPP	Table	-	-	Requires validation	No migrations has been executed.
USERS	Tablespace	-	-	Conversion successful	No migrations has been executed.
BP8K	Bufferpool	-	-	Conversion successful	No migrations has been executed.

Db2 Bridge: Oracle Migration

Migration Status

IBM Db2 Bridge

Db2 Bridge jobs

Definition **Status** Schema converter Compare databases

Find job

☐	Name	Source	Target	Type	Object status	Started on	Db2 Bridge status	
☐	Oracle to Db2 Migration	c23807v1.fyre.ibm.com	9.30.246.207	One-time		Wed 06/24/2026 1:46 PM	✔ Success	⋮
☐	testpartstable	c23807v1.fyre.ibm.com	9.30.246.207	One-time		Wed 06/24/2026 10:33 AM	✔ Success	⋮
☐	Oracle to Db2 Migration1	c23807v1.fyre.ibm.com	9.46.250.246	One-time		Wed 06/24/2026 10:09 AM	✘ Failed	⋮
☐	Oracle to Db2 Migration	c23807v1.fyre.ibm.com	9.46.250.246	One-time		Wed 06/24/2026 9:04 AM	✘ Failed	⋮
☐	oraexample	c23807v1.fyre.ibm.com	9.30.246.207	One-time		Wed 06/24/2026 7:24 AM	✔ Success	⋮

Db2 Bridge: Oracle Migration

View the Logs

The screenshot displays the IBM Db2 Bridge web interface. On the left, a sidebar shows 'Db2 Bridge jobs' with a search bar and a list of jobs including 'Name', 'Oracle to Db2 Migration', 'testpartstable', and 'oraexample'. The main area is titled 'View log' and contains a log window with the following content:

```
13:58:11.609 | TRACE | <189106:AnyIO worker thread> logger.py:86 | Total time: 716.6703839302063 (0:11:56)
13:58:11.609 | DEBUG | <189106:AnyIO worker thread> migration_runner.py:1595 | Migration finished with exit code 0
13:58:11.609 | INFO | <189106:AnyIO worker thread> migration_runner.py:1603 | Log file: /var/log/ibm_db2bridge_platform/db_migr-20260624_134614.830559/db_migr-20260624_134614.893716.log
13:58:11.613 | INFO | <189106:AnyIO worker thread> migration_runner.py:1613 | JSON file: /var/log/ibm_db2bridge_platform/db_migr-20260624_134614.830559/db2bridge_history_3e1b51564e8e45fb92ec8a661f6653d8/db2bridge_report.json
13:58:11.613 | INFO | <189106:AnyIO worker thread> logger.py:316 | Db2Bridge executed with the following arguments:
Explicit arguments:
  create_target_table: True
  shosts: ['c23807v1.fyre.ibm.com']
  sschema: SAKTHI
  strategy: dataslices
  tschema:
  verbose: True
Default arguments:
  binary: False
  checksum: NO
  columns_list: None
  compress: NO
  db2_driver: None
  force_continue: True
  logdir: /var/log/ibm_db2bridge_platform/db_migr-20260624_134614.830559
  maint_mode: False
  max_data_streams: None
  order_by: None
  preserve_tablespace: False
  row_count_checks: NO
  socket_buffer: 8388608
  source_certificate: None
  source_ssl: False
  sport: 1521
  tenant: SYSTEM
  tablespace: None
  target_certificate: None
  target_ssl: False
  tport: 25010
  transfer_hidden_columns: False
  translation_pattern: None
  ttenant: SYSTEM
  use_proxy: True
  where_clause: None
```

At the bottom of the log window is a blue 'Close' button.

Db2 Bridge: Oracle Migration

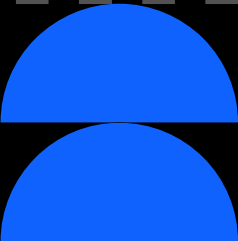
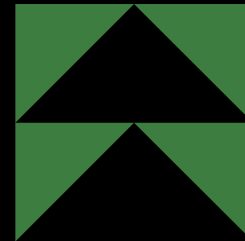
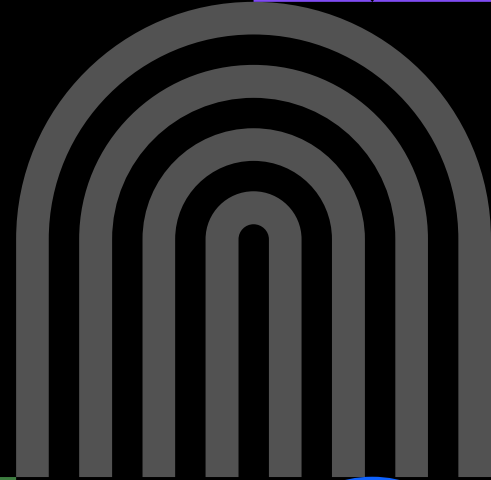
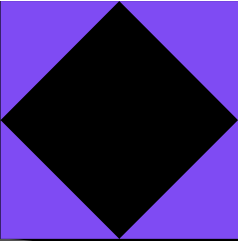
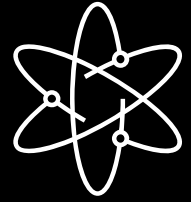
Object(s) and Data are migrated

The screenshot displays the Db2 Bridge application interface. On the left, a sidebar shows the 'DB2 CONNECTIONS' and 'QUERY HISTORY' sections. The main panel shows the 'Table: SAKTHI.PARTSUPP' with tabs for 'Properties', 'Columns', 'Constraints', 'Indexes', and 'Data'. The 'Data' tab is selected, showing a table with 1000 rows. The table has the following columns: PS_PARTKEY, PS_SUPPKEY, PS_AVAILQTY, PS_SUPPLYCOST, and PS_COMMENT. The data is displayed in a grid format, showing the first 10 rows of the table. The interface also includes a search bar, a 'Max rows' dropdown set to 1000, and a 'Select page' dropdown set to 1 of 20 pages.

PS_PARTKEY	PS_SUPPKEY	PS_AVAILQTY	PS_SUPPLYCOST	PS_COMMENT
1992152	17172	6777	986.36	sits print furiously final deposits. carefully unusual courts according
1992152	42191	1269	443.33	structions wake quickly furiously regular deposits. furio
1992152	67210	6301	725.65	ing packages: slyly bold theodolites cajole fluffily atop the ironic even hockey players. slyly regular requests are
1992153	92154	85	371.57	cajole blithely even pinto beans. express platelets lose. slyly regular asymptotes haggle. slow packages detect a
1992153	17173	2784	483.94	es. furiously enticing somas grow furiously ironic requests. slyly
1992153	42192	8264	836.75	bold requests cajole quickly unusual unusual deposits. express ideas across the even final requests haggle quick
1992153	67211	2113	490.69	key players. quickly even deposits along the blithely ironic requests x-ray furiously along the carefully ir
1992154	92155	7590	413.07	inal deposits affix across the packages. slyly ironic packages nag carefully accounts. silently daring deposits wa
1992154	17174	1369	558.34	s detect blithely. blithe regular pinto beans haggle blithely after the blithely regular theodolites. doggedly regular
1992154	42193	8014	579.54	slyly even courts. even unusual ideas are. blithely regular theod
1992154	67212	9824	257.90	o beans are across the silent platelets. carefully regular requests nag fluffily bold packages. furiously final depos
1992155	92156	4978	156.46	inder slyly. packages haggle. furiously final accounts about the special ironic packages wake sly
1992155	17175	1688	459.66	ng to the boldly regular requests. fluffily ironic requests
1992155	42194	1294	368.61	nag. busy express pinto beans under the blithely bold pinto beans are regular pending accounts. slyly bold pinto

Agenda

- 01 Db2 Bridge Overview
- 02 Oracle to Db2 Migration
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Db2 Bridge: Teradata to Db2 Warehouse Migration

❖ Supported Objects:

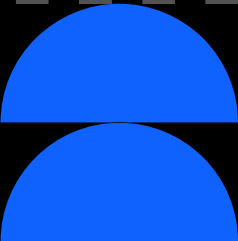
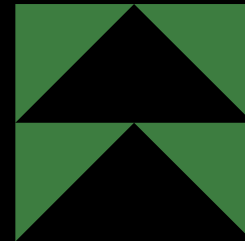
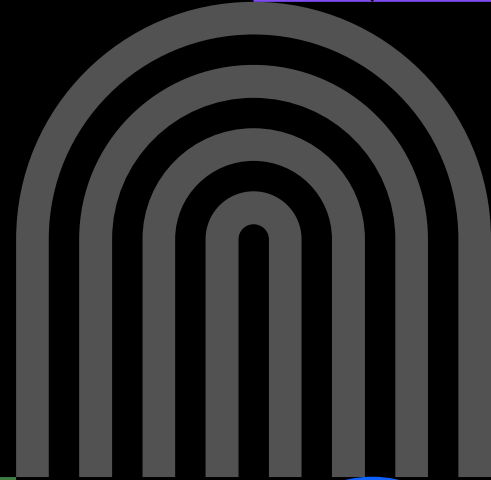
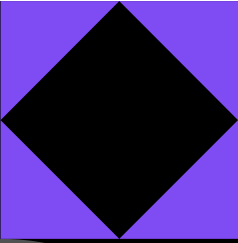
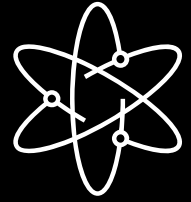
- Tables, views and their dependencies
- Tables include Set, Multiset, No primary Index, and Partitioned.

❖ Supported Data Types:

- BIGINT, BYTEINT, INTEGER, SMALLINT
- DECIMAL, FLOAT, NUMBER
- CHAR, VARCHAR
- DATE, TIMESTAMP
- PERIOD(DATE)

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Migration - Db2 as Source and Target

Sources

Db2
Db2 on Cloud
Db2 Warehouse
Db2 Warehouse on Cloud
IIAS 4002 aka Sailfish
Db2 Data files

Db2.

On-prem or Cloud

Targets

Db2
Db2 on Cloud
Db2 Warehouse
Db2 Warehouse on Cloud
Db2 Power 10 Cloud Rack
Db2 Data files

Db2.

On-prem or Cloud

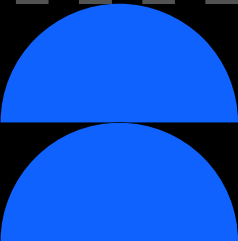
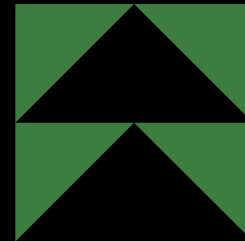
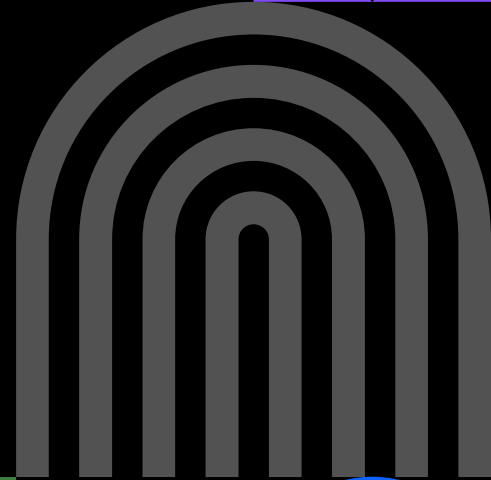
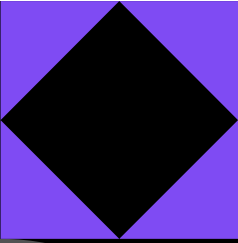
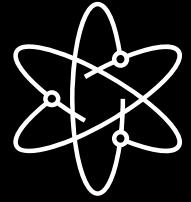
Db2 Bridge: Db2 to Db2 Migration

Supported Objects

- Aliases
- Audit policies
- Buffer pools
- Check constraints
- Comments
- Grants
- Histograms
- Indexes
- PL/SQL procedures
- PL/SQL functions
- Roles
- Sequences
- Security labels
- Security label components
- Security policies
- Service classes
- Tables
- Table spaces
- Triggers
- User-defined types
- Variables
- Views

Agenda

- 01 Db2 Bridge Overview
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Db2 Bridge: CLI Interface

❖ db2bridge_client : sub commands

- db2_db2
- db2_db2cloud
- db2_db2file
- db2file_db2
- netezza_db2
- oracle_db2
- teradata_db2

❖ Informational subcommands

- migrations
- history

Db2 Bridge: Command Line

What if you want to migrate a select number of rows ?

```
db2bridge_client --db2bridge-server-host <hostname> --db2bridge-server-port <port> --db2bridge-server-ssl
True db2_db2 --shost <source host> --sport <source port> --suser db2inst1 --spass '<password>' --sdb sample
--source-ssl False --thost <target host> --tport <target port> --tuser db2inst1 --tpass '<password>' --tdb migwcli
--target-ssl False --tables ACT --log-level TRACE --where "ACTNO > 80"
```

Some of the messages:

```
Detecting and Extracting Database Object Dependencies....
Extracting Object DDLs....
Transforming Object DDLs....
DDL Conversion completed successfully....
Started the migration for "DB2INST1".
Object creation: "DB2INST1" has finished successfully
```

```
Started the migration for "DB2INST1"."ACT".
Data transfer: "DB2INST1"."ACT" -> "DB2INST1"."ACT" has started at 2026-06-25 06:51:08.067553+00:00
Data transfer: "DB2INST1"."ACT" -> "DB2INST1"."ACT" has finished successfully at 2026-06-25 06:51:10.160995+00:00
Object creation: "DB2INST1"."ACT" has finished successfully
```

Db2 Bridge: Command Line

Only a subset of data is moved: ACTNO > 80

The screenshot displays the IBM Db2 Bridge application interface. The left sidebar shows the 'DB2 CONNECTIONS' section with a tree view of the database structure. The 'ACT' table is selected under the 'DB2INST1' schema. The main panel shows the 'Data' tab for the 'ACT' table, displaying 10 rows of data. The table has three columns: ACTNO, ACTKWD, and ACTDESC. The data shows a list of activities with their respective keywords and descriptions.

ACTNO	ACTKWD	ACTDESC
90	ADMQS	ADM QUERY SYSTEM
100	TEACH	TEACH CLASSES
110	COURSE	DEVELOP COURSES
120	STAFF	PERS AND STAFFING
130	OPERAT	OPER COMPUTER SYS
140	MAINT	MAINT SOFTWARE SYS
150	ADMSYS	ADM OPERATING SYS
160	ADMDB	ADM DATA BASES
170	ADMDC	ADM DATA COMM
180	DOC	DOCUMENT

Db2 Bridge: Command Line

Migration of DDL and Data to a Datafile

```
db2bridge_client      db2_db2file --shost <hostname> --sport <port> --suser db2inst1 --spass '<password>' --  
sdb sample --tables ACT --sschema DB2INST1 --target /var/lib/ibm_db2bridge_platform/migration_files
```

This will generate two files, one for DDL and other for data:

```
[root@c4533v1 ibm_db2bridge_platform]# cd  
/var/lib/ibm_db2bridge_platform/migration_files/db2file_migr_data_5e2e16787dab459a8bc1e58902f6a3be/DB2INST1/ACT_000  
[root@c4533v1 ACT_000]# ls  
definition.ddl DS_001.tbl
```


Db2 Bridge: Command Line

Migration from Datafile to Db2

```
db2bridge_client db2file_db2 --thost <hostname> --tport <port> --tuser db2inst1 --tpass '<password>' --tdb  
migwcli --tables ACT --source  
/var/lib/ibm_db2bridge_platform/migration_files/db2file_migr_data_5e2e16787dab459a8bc1e58902f6a3be/
```

Some of the messages:

```
Please enter Db2 Bridge username: admin  
Please enter Db2 Bridge password:  
Connecting to the migration server 127.0.0.1:14080  
Connected successfully to the migration server, requesting action...  
Migration ID: 8d149543c3cb40f8b8076d32c163acee  
Running Prechecks....  
Detecting and Extracting Database Object Dependencies....  
Extracting Object DDLs....  
Transforming Object DDLs....  
DDL Conversion completed successfully....  
Started the migration for "DB2INST1"."ACT".  
Data transfer: "DB2INST1"."ACT" -> "DB2INST1"."ACT" has started at 2026-06-25 07:16:20.652352+00:00  
Data transfer: "DB2INST1"."ACT" -> "DB2INST1"."ACT" has finished successfully at 2026-06-25 07:16:21.001468+00:00  
Object creation: "DB2INST1"."ACT" has finished successfully
```

Db2 Bridge: Command Line

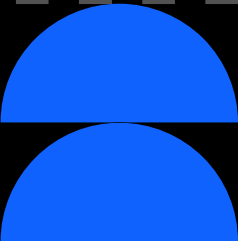
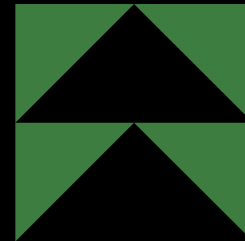
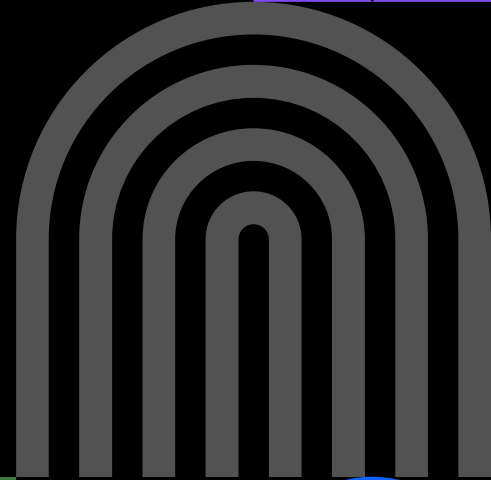
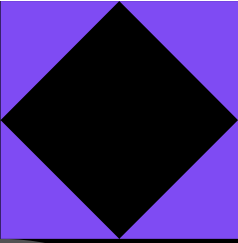
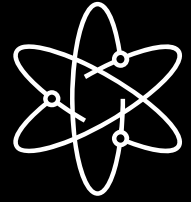
In Db2, the table is created and data is loaded

The screenshot displays the IBM Db2 Bridge application interface. The left sidebar shows the 'DB2 CONNECTIONS' section with a tree view of the database structure, including 'Tables' and 'ACT'. The main panel shows the 'Table: DB2INST1.ACT' with tabs for 'Properties', 'Columns', 'Constraints', 'Indexes', and 'Data'. The 'Data' tab is active, displaying 18 rows of data. The table has three columns: 'ACTNO', 'ACTKWD', and 'ACTDESC'. The data is as follows:

ACTNO	ACTKWD	ACTDESC
10	MANAGE	MANAGE/ADVISE
20	ECOST	ESTIMATE COST
30	DEFINE	DEFINE SPECS
40	LEADPR	LEAD PROGRAM/DESIGN
50	SPECS	WRITE SPECS
60	LOGIC	DESCRIBE LOGIC
70	CODE	CODE PROGRAMS
80	TEST	TEST PROGRAMS
90	ADMQS	ADM QUERY SYSTEM
100	TEACH	TEACH CLASSES
110	COURSE	DEVELOP COURSES
120	STAFF	PERS AND STAFFING
130	OPERAT	OPER COMPUTER SYS
140	MAINT	MAINT SOFTWARE SYS

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Db2 Bridge: Health Check

Operating System and Database information

IBM Db2 Bridge

Home / Connections / Health check

SAMPLE

Running

Last run: Sat 06/20/2026 10:00 AM

Refresh

System details

Upgrade check

Environment information

Instance Name	Is Instance Partitionable	Number Of DB Partitions	Bit Size Of Instance
db2inst1	No	1	64
Internal Release Number	DB Version	Build Level	Program Temporary Fix
02030110	DB2 v12.1.2.0	s2505201240	DYN2505201240AMD64
Fixpack Number	Number Of Members In This Instance	DB Size (Bytes)	DB Capacity (Bytes)
0	1	199598080	224420864000

Operating system

OS Name	OS Version	OS Release	Host Name
Linux	5	14	c4533v1.fyre.ibm.com
Total CPUs In Host	Configured CPUs	Total Memory	OS Full Version
8	8	15733	Red Hat Enterprise Linux Server 9.6
OS Kernel Version	OS ARCH TYPE		
5.14.0-570.62.1.el9_6.x86_64 #1 SMP PREEMPT_DYNAMIC Mon Nov 3 10:38:50 EST 2025	x86_64		

Db2 Bridge: Health Check

Upgrade Check

IBM Db2 Bridge

Home / Connections / Health check

SAMPLE

Running

Last run: Sat 06/20/2026 10:00 AM

Refresh

System details

Upgrade check

Source environment

SAMPLE 12.1.2.0

Target environment

Db2 On Cloud v12.1

Severity

All

Suggestion

Categories

All

Unsupported Features

Reconfiguration

Db2 Fixed Parameters

Db2 Allowed Parameters

Backup Support

Minimum Required

Least Recently Used Tables

Db2 Fixed Parameters

Title	Severity	Solution Text
System defined Db2 profile registry variables	Suggestion	The following list of variables cannot be changed by the user.
System defined Db2 DBM variables	Suggestion	The following list of variables cannot be changed by the user.

Db2 Allowed Parameters

Title	Severity	Solution Text
User defined DBM variables	Suggestion	The following list of variables can be changed by the user.
User defined profile registry variables	Suggestion	The following list of variables can be changed by the user.

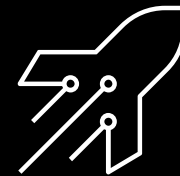
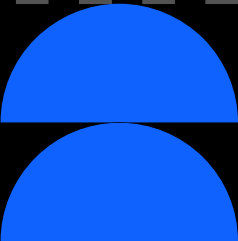
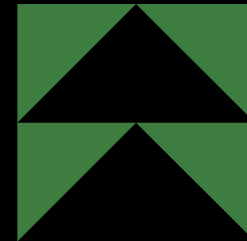
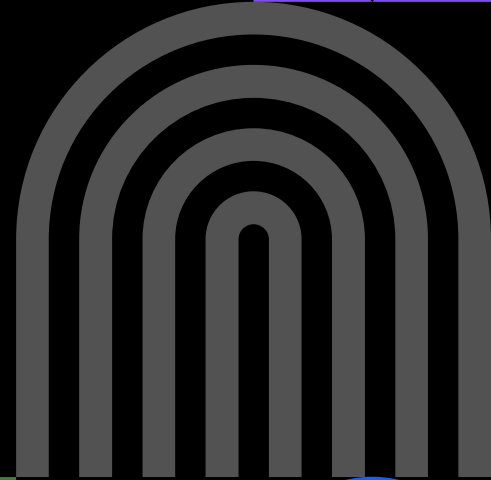
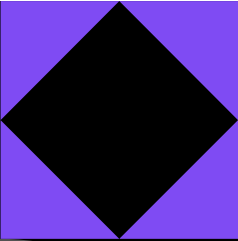
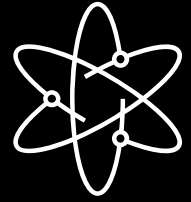
Backup Support

Title	Severity	Solution Text
Backup and Restore supported	Suggestion	Users can take backup and restore it on Db2 SaaS.

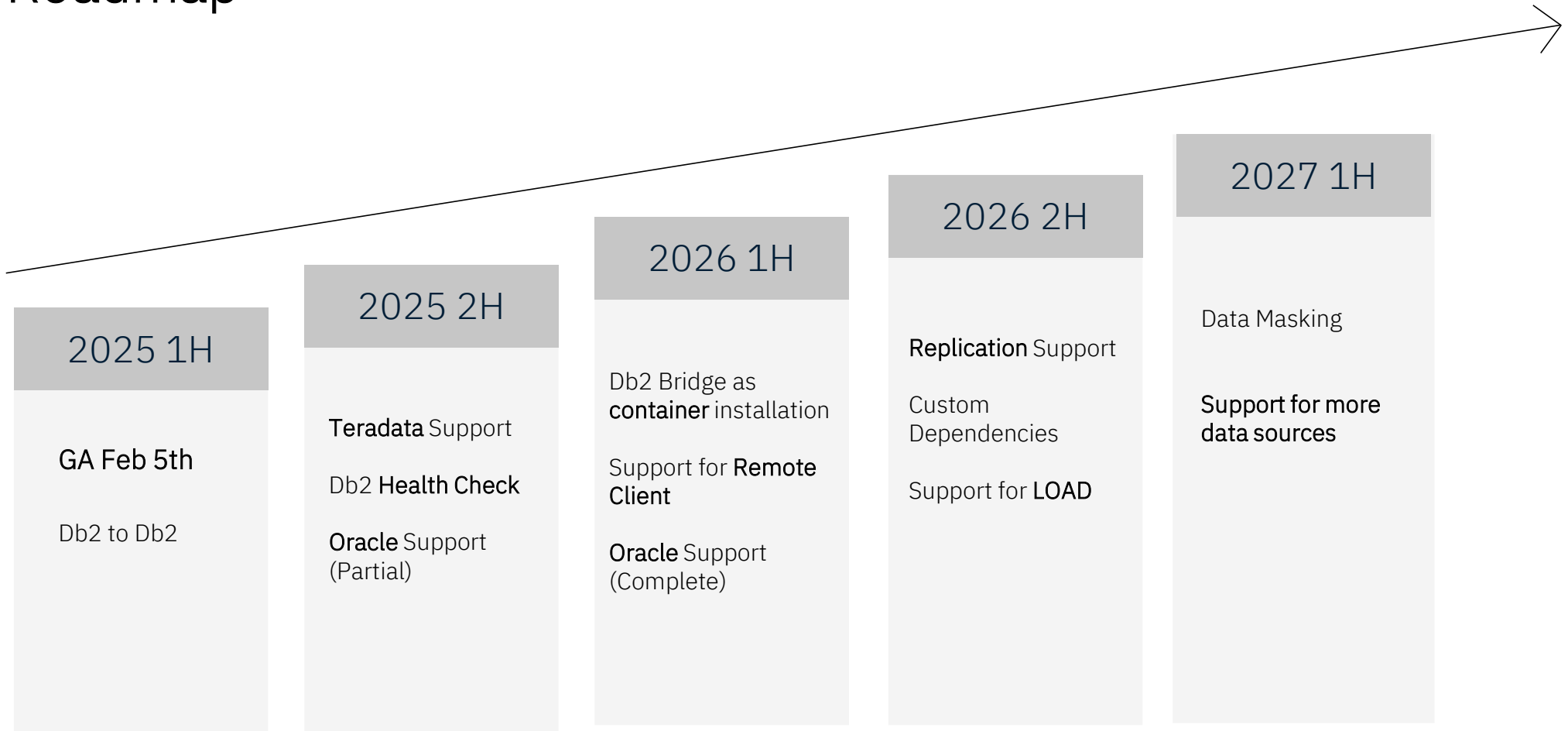
Slack

Agenda

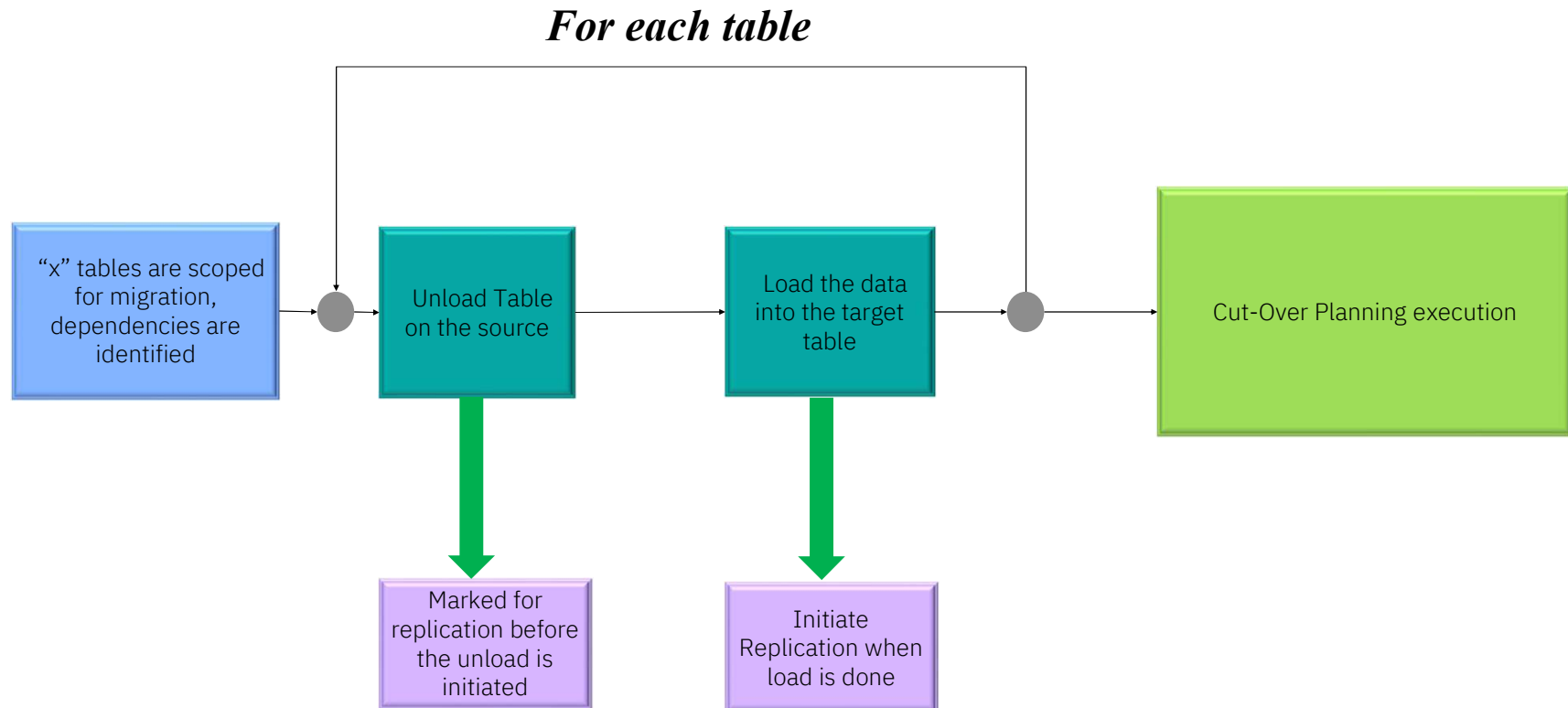
- 01 Db2 Bridge Overview
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Roadmap

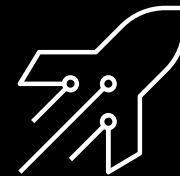
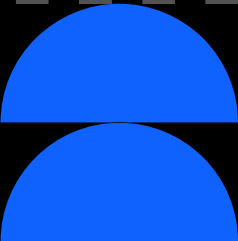
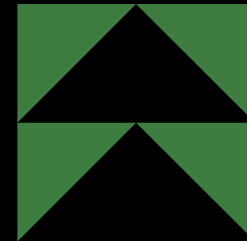
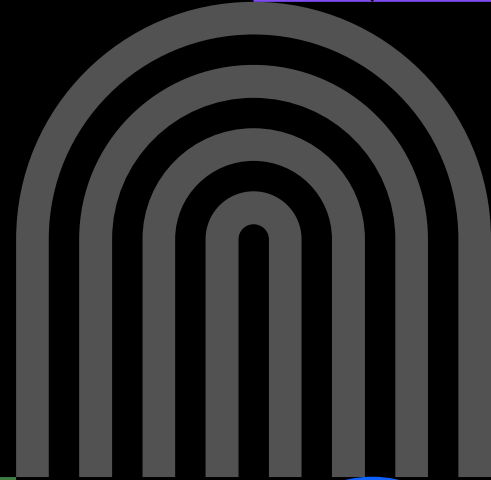
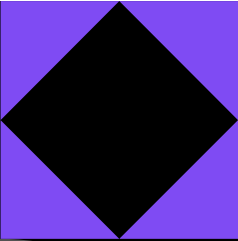
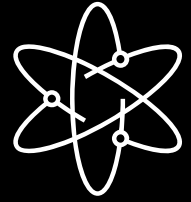


Replication – tackle the incremental changes (coming soon)



Agenda

- 01 Db2 Bridge Overview
- 02 Oracle to Db2 Migration
- 03 Teradata to Db2 Migration
- 04 Db2 to Db2 Migration
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- 08 Case Studies



IBM Db2 Bridge

Try and Buy :

Trial download from IBM Fix Central [Link](#). Trial period is 30 days.
Product packages with license activation are available in Passport Advantage (PA).

Product Documentation: Knowledge Center :

<https://www.ibm.com/docs/db2-bridge>

Announcement:

<https://www.ibm.com/docs/en/announcements/db2-bridge-11-delivers-singular-data-movement-tool-your-mission-critical-workloads>

Marketing blog:

<http://www.ibm.com/new/announcements/ibm-db2-bridge-one-data-movement-tool>

Link to the license agreement:

<https://www.ibm.com/support/customer/csol/terms/?ref=L-VJFU-EZW2JN-01-03-2026-zz-en>

Db2 Developer Extension for VS Code

Download link from Visual Studio Code Marketplace :

<https://marketplace.visualstudio.com/items?itemName=IBM.db2-for-luw>

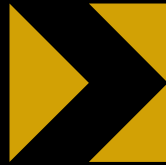
Product Documentation: Knowledge Center :

<https://ibm.github.io/db2developerextension-about>

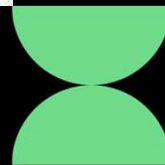
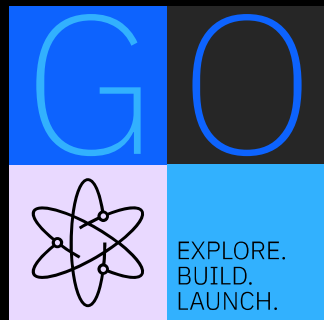
Announcement:

<https://www.ibm.com/new/announcements/announcing-the-ibm-db2-developer-extension-for-vs-code>

Q&A



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IBM, Senior Product Manager
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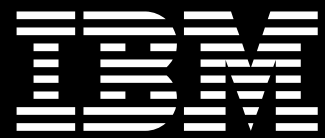
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Benchmark Numbers

Collected on source sail68 - with all the default parameters							
Db2 Bridge Migration Tests: Source DB: IAS/SF 1/3rd Rack (SAIL68) v11.5.9.0 Target DB: IAS/SF 1/3rd Rack (SAIL73) v11.5.9.0							
Table	Flat file size (Uncompressed)	Flat file size (compressed)	Table size on disk	Time Taken	Data transfer rate		
					GB/min	Rows/Sec	
CUSTOMER		5 GB	4.527 GB	2 min 9 sec	2.1GB/min	30232558/min	
INVENTORY		6.8 GB	21.922GB	4 min 9 Sec	5.4GB/min	316090120/min	
WEB_RETURNS		38GB	41.192GB	15 min 19 sec	2.69GB/min	47060162/min	
CATALOG_RETURNS		91GB	85.899GB	32 min 29 sec	2.64GB/min	44308711/min	
Whole Schema (BD110TBSAIL68PALD)	10 TB	1.8TB	2.798 TB	21 hrs 46 min	131.76 GB/hr	2612660732 /hr	
With LZ4 compression and max data streams 10							
Db2 Bridge Migration Tests: Source DB: IAS/SF 1/3rd Rack (SAIL68) v11.5.9.0 Target DB: IAS/SF 1/3rd Rack (SAIL73) v11.5.9.0							
Table		Flat file size (compressed)	Table size on disk	Time Taken	Data transfer rate		
					GB/min	Rows/min	
INVENTORY		6.8 GB	21.922GB	2 min 7 sec	10.36 GB/min	619813327/min	
WEB_RETURNS		38GB	41.192GB	10 min 18 sec	3.99 GB/min	69904901/min	
CATALOG_RETURNS		91GB	85.899GB	22 min 54 sec	3.75 GB/min	62883542/min	
Whole Schema (BD110TBSAIL68PALD)	10 TB	1.8TB	2.798 TB	9 hours 48 min	292.36 GB/hr [4.87 GB/min]	5801173217/hr	
With bigworker/small worker code change							
Db2 Bridge Migration Tests: Source DB: IAS/SF 1/3rd Rack (SAIL73) v11.5.9.0 Target DB: IAS/SF 1/3rd Rack (SAIL68) v11.5.9.0							
		LZ4 Compression	Max data streams - 10				
Db2 Bridge Installed on SAIL73							
Table		Flat file size (compressed)	Table size on disk	Time Taken	Data transfer rate		
					GB/min	Rows/min	
INVENTORY		6.8 GB	21.922GB	2 min 26 sec	6.94 GB/min		
WEB_RETURNS		38GB	41.192GB	9 min 17 sec	4.44 GB/min		
CATALOG_RETURNS		91GB	85.899GB	24 min 13 sec	3.55 GB/min		
Whole Schema (BD110TBSAIL68PALD)	10 TB	1.8TB	2.798 TB	9 hours 27 mins	303.2 GB/hr [5.05 GB/min]		
With bigworker/small worker code change							
Db2 Bridge Migration Tests: Source DB: IAS/SF 1/3rd Rack (SAIL73) v11.5.9.0 Target DB: IAS/SF 1/3rd Rack (SAIL68) v11.5.9.0							
		GZIP Compression	Max data streams - 10				
Db2 Bridge Installed on SAIL73							
Table		Flat file size (compressed)	Table size on disk	Time Taken	Data transfer rate		
					GB/min	Rows/min	
Whole Schema (BD110TBSAIL68PALD)	10 TB	1.8TB	2.798 TB	9 hours 55 mins	288.92 GB/hr [4.82 GB/min]		
Test Scenario							
	Source machine	Target Machine	Total Volume of data transferred	Total Time taken	Data Transfer Rate		CPU/I/O Usage during transfer
					MB/Sec	Rows/Sec	Other Details, if any
Load 1 TB of data on source machine and call migration service to migrate data to target							
Load 10 TB of data on source machine and call migration service to migrate data to target							
Load 10 TB of data on source machine and call migration service with multiple streams to migrate data to target							
Call migration service in HPU mode to migrate data to target							
Monitor Resource Usage During Transfer:							
jmon, iostat,vmlstat							