

Pg_dump:-

Command:-

```
pg_dump -U postgres -h localhost -p 5432 -d mydb -f mydb_backup.sql
```

1. General Options

Option	Description
-V, --version	Show pg_dump version and exit.
--help	Show help information and exit.

2. Connection Options:-

Option	Description
-h, --host=HOST	Specifies database server host or socket directory.
-p, --port=PORT	Specifies database server port (default: 5432).
-U, --username=USERNAME	Specifies the PostgreSQL user for authentication.
-w, --no-password	Do not prompt for a password.
-W, --password	Force password prompt.
--role=ROLENAME	Set the role used for the dump.

3. Dump Output Format

Option	Description
-f, --file=FILENAME	Specifies the output file for the dump.
-F, --format=FORMAT	Specifies the format of the dump:
p	Plain SQL script (default).
c	Custom format (used with pg_restore).
d	Directory format (used with pg_restore).
t	Tar archive format (used with pg_restore).
-v, --verbose	Print detailed information while dumping.
-Z, --compress=LEVEL	Compression level (0–9, where 9 is maximum).

4. Data Dump Options

Option	Description
-a, --data-only	Dump only table data (no schema).
-s, --schema-only	Dump only the schema (no data).
-c, --clean	Drop objects before creating them in the dump.
-C, --create	Include CREATE DATABASE statement in the dump.
--if-exists	Use IF EXISTS for DROP statements.
-x, --no-privileges	Do not dump GRANT/REVOKE statements.

-O, --no-owner	Do not dump ownership information.
--no-comments	Exclude comments from the dump.
--no-publications	Exclude publications from the dump.
--no-subscriptions	Exclude subscriptions from the dump.
--no-security-labels	Do not dump security labels.
--no-synchronized-snapshots	Do not use synchronized snapshots.

5. Table and Schema Selection:-

Option	Description
-n, --schema=SCHEMA	Dump only specific schema(s).
-N, --exclude-schema=SCHEMA	Exclude specific schema(s).
-t, --table=TABLE	Dump only specific table(s).
-T, --exclude-table=TABLE	Exclude specific table(s).
--exclude-table-data=TABLE	Exclude data from a specific table but include schema.

6. Data Dump Formatting:-

Option	Description
--column-inserts	Use INSERT statements with explicit column names.
--disable-dollar-quoting	Do not use \$ quoting for function bodies.
--disable-triggers	Disable triggers when restoring.
--enable-row-security	Apply row-level security policies during dump.
--inserts	Use INSERT statements instead of COPY.
--rows-per-insert=NUM	Number of rows per INSERT (default: unlimited).
--quote-all-identifiers	Quote all table, column, and schema names.

7. Performance and Parallelism

Option	Description
-j, --jobs=NUM	Number of parallel jobs (used with -Fd).
--lock-wait-timeout=TIMEOUT	Lock wait timeout before giving up.
--snapshot=SNAPSHOT_ID	Use a specific transaction snapshot.
--no-sync	Skip fsync calls for performance.

8. Replication and Logical Decoding

Option	Description
--binary-upgrade	Used for binary upgrade of PostgreSQL instances.
--no-data-for-failed-tables	Exclude data from failed table dumps.
--section=SECTION	Dump specific sections (pre-data, data, post-data).

