

## Backup and Restore PostgreSQL Databases using Pg\_dump

### 1. Backup Single Database

Enter the following command to create a backup file:

```
pg_dump my_database > my_database.sql
```

Replace **my\_database** with the name of the database to be backed up.

- **Restore** a single database from backup in PostgreSQL. Just use “psql” command to restore PostgreSQL database.

```
psql my_database < my_database.sql
```

### 2. Backup All Databases

- **Backup** all databases in PostgreSQL using pg\_dumpall utility.

```
pg_dumpall > alldbs.sql
```

- **Restore:** all database backup using following command.

```
psql < alldbs.sql
```

### 3. Backup Single Table

- **Backup:** a single table named mytable from mydb database.

```
pg_dump -d mydb -t table_1 > mydb-table_1.sql
```

- **Restore:** single table backup to database. Make sure your backup file contains only single table backup which you want to restore.

```
psql mydb < mydb-table_1.sql
```

## 4. Compressed Backup

- **Backup** PostgreSQL database in compressed format. Use gzip command line utility to accept piped backup data and make archive file.

```
pg_dump mydb | gzip > mydb.sql.gz
```

- **Restore** database from compressed backup file directly. Here gunzip will extract backup file and send data to psql command via pipe interface.

```
gunzip -c mydb.sql.gz | psql mydb
```

## 5. Split Backup in Multiple Files and Restore

- **Backup:** PostgreSQL database and split backup in multiple files of specified size. It helps us to backup a large database and transfer to other host easily. As per below example it will split backup files of 100mb in size.

```
pg_dump mydb | split -b 100m - mydb.psql
```

- **Restore:** database backup from multiple splited backup files.

```
cat mydb.sql* | psql mydb
```

- **Backup:** database in compressed splited files of specified size.

```
pg_dump mydb | gzip | split -b 100m - mydb.sql.gz
```

- **Restore:** database from multiple files of compressed files.

```
cat mydb.sql.gz* | gunzip | psql mydb
```