

PostgreSQL Schema Export and Import Guide

(Using username **admin**, password **password**, and port **5432**)

■■ Part 1 — Export Databases (From Source System)

Databases to Export:

- 1 alerts_db
- 2 applications
- 3 dashboard
- 4 deployment
- 5 devices
- 6 missions
- 7 traffic_management

Step 1: Create a Folder to Store the Exports

Choose or create a directory to save all schema files:

```
mkdir -p ~/postgres_exports  
cd ~/postgres_exports
```

Step 2: Run Export Commands

```
pg_dump -U admin -h localhost -p 5432 -d alerts_db --schema-only -f alerts_db_schema.sql  
pg_dump -U admin -h localhost -p 5432 -d applications --schema-only -f applications_schema.sql  
pg_dump -U admin -h localhost -p 5432 -d dashboard --schema-only -f dashboard_schema.sql  
pg_dump -U admin -h localhost -p 5432 -d deployment --schema-only -f deployment_schema.sql  
pg_dump -U admin -h localhost -p 5432 -d devices --schema-only -f devices_schema.sql  
pg_dump -U admin -h localhost -p 5432 -d missions --schema-only -f missions_schema.sql  
pg_dump -U admin -h localhost -p 5432 -d traffic_management --schema-only -f traffic_management_schema.sql
```

After running the commands, the exported files will be saved in ~/postgres_exports.

■ Part 2 — Transfer Exported Files

Copy the folder to the target system using any preferred method:

- 1 USB drive
- 2 scp or rsync
- 3 Cloud storage

```
scp -r ~/postgres_exports user@target_system_ip:~/
```

■■ Part 3 — Import Databases (On Target System)

Step 1: Navigate to the Folder

```
cd ~/postgres_exports
```

Step 2: Create Empty Databases

```
createdb -U admin -h localhost -p 5432 alerts_db
createdb -U admin -h localhost -p 5432 applications
createdb -U admin -h localhost -p 5432 dashboard
createdb -U admin -h localhost -p 5432 deployment
createdb -U admin -h localhost -p 5432 devices
createdb -U admin -h localhost -p 5432 missions
createdb -U admin -h localhost -p 5432 traffic_management
```

Step 3: Import Schemas

```
psql -U admin -h localhost -p 5432 -d alerts_db -f alerts_db_schema.sql
psql -U admin -h localhost -p 5432 -d applications -f
applications_schema.sql
psql -U admin -h localhost -p 5432 -d dashboard -f dashboard_schema.sql
psql -U admin -h localhost -p 5432 -d deployment -f deployment_schema.sql
psql -U admin -h localhost -p 5432 -d devices -f devices_schema.sql
psql -U admin -h localhost -p 5432 -d missions -f missions_schema.sql
psql -U admin -h localhost -p 5432 -d traffic_management -f
traffic_management_schema.sql
```

■ Optional — Export All Automatically Using Script

```
#!/bin/bash
EXPORT_DIR=~/postgres_exports
mkdir -p "$EXPORT_DIR"
cd "$EXPORT_DIR"

declare -a DBS=("alerts_db" "applications" "dashboard" "deployment"
"devices" "missions" "traffic_management")

for db in "${DBS[@]}"; do
echo "Exporting $db..."
pg_dump -U admin -h localhost -p 5432 -d "$db" --schema-only -f
"${db}_schema.sql"
done

echo "■ All schemas exported to $EXPORT_DIR"
```