

Setup Postgres using Docker

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In some cases you might want to have postgres setup on your machine. Let us understand how we can setup Postgres using Docker.

- If you are using our labs, the database will be pre-created by us with all the right permissions.
- If you are using Windows or Mac, ensure that you have installed Docker Desktop.
- If you are using Ubuntu based desktop, make sure to setup Docker.
- Here are the steps that can be used to setup Postgres database using Docker.
 - Pull the postgres image using `docker pull`
 - Create the container using `docker create`.
 - Start the container using `docker start`.
 - Alternatively we can use `docker run` which will pull, create and start the container.
 - Use `docker logs` or `docker logs -f` to review the logs to ensure Postgres Server is up and running.

```
docker pull postgres

docker container create \
  --name itv_pg \
  -p 5433:5432 \
  -h itv_pg \
  -e POSTGRES_PASSWORD=itversity \
  postgres

docker start itv_pg

docker logs itv_pg
```

- You can connect to Postgres Database setup using Docker with `docker exec`.

```
docker exec \
  -it itv_pg \
  psql -U postgres
```

- You can also connect to Postgres directly without using `docker exec`.

```
psql -h localhost \
  -p 5433 \
  -d postgres \
  -U postgres \
  -W
```

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