### world map graphic

Pega Docker

Postgres Container

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# Check Prerequisites

Before installing Pega Docker images, ensure all the prerequisites are met and available in the system.

1. Ensure Docker software installed and running in the target system. Docker can be downloaded from here. <https://www.docker.com/products/docker-desktop>
2. Once installed, keep docker resource settings optimal for Pega. It is recommended to have 8GB of memory allocated. It may vary depends on target system capacity.

A screenshot of a cell phone

Description automatically generated

1. Have a github account and familiarise how to check-out repositories.

# Build Docker Image

Docker file is available at Github repository <https://github.com/Srinikandru/pegapostgres>.

Check out this repository into a folder of choosing ($PPGS\_HOME) and build docker image using the below command. (via Terminal or Powershell)

“docker build -t pegapostgres .”

Once docker image created, run it using the below command

docker run --name pegapostgres -e POSTGRES\_PASSWORD=password -p 5432:5432 -d pegapostgres

# Configure Pega Postgres image

Postgres image uses a data volume and configuration files created upon start of postgres service. To change the postgres default config to adopt Pega specifications, copy prepared conf files into data folder as shown in below commands.

docker cp ./pg\_hba.conf pegapostgres:/var/lib/postgresql-static/data

docker cp ./postgresql.conf pegapostgres:/var/lib/postgresql-static/data

Pega postgres DB backup is extracted from Personal Edition. Used pg\_dump tool to create a dump of all postgres DB.

In windows, command looks as below. For other OS, go through the postgres recommendations.

C:\Program Files\pgAdmin 4\v4\runtime> .\pg\_dump.exe -f "D:\Share\PegaPE\_840\_DB\_Postgres.sql" -U postgres -W postgres

For ubuntu

pg\_dump -U postgres -W pega > PegaPE\_840\_DB\_Postgres.sql

Copy this dump file into docker postgres container.

docker cp ./ PegaPE\_840\_DB\_Postgres.sql pegapostgres:/tmp

Inside Docker container, run the below commands to restore the Pega DB.

sudo -su postgres

psql -d postgres -f /tmp/PegaPE\_840\_DB\_Postgres.sql

# Running Pega Instance(s)

with link to postgres

docker run --name pegatomcat -d -p 8080:8080 --link pegapostgres:pegapostgres pegatomcat