**Postgresql-15**

*Steps for Postgresql-15 installation*:

* + To install, remove, and update software packages The dnf command is a package manager for Red Hat Enterprise Linux (RHEL) and Fedora.

dnf

* + Install the PostgreSQL repository package, which provides the necessary repositories for installing PostgreSQL.

dnf install -y <https://download.postgresql.org/pub/repos/yum/reporpms/EL-9-x86_64/pgdg-redhat-repo-latest.noarch.rpm>

* + Install the OpenSSL development package, which is required for secure connections to the PostgreSQL server.

sudo yum install openssl-devel

* + Install the PostgreSQL server package.

sudo dnf install -y postgresql15-server

* + Initialize the PostgreSQL database cluster.

sudo /usr/pgsql-15/bin/postgresql-15-setup initdb

* + Enable the PostgreSQL

sudo systemctl enable postgresql-15

* + Start a PostgreSQL service

sudo systemctl start postgresql-15

* + Check the status of the PostgreSQL service

sudo systemctl status postgresql-15

A screen shot of a computer

Description automatically generated

* + Open a PostgreSQL port (5432) in the firewall.

firewall-cmd --zone=public --add-port=5432/tcp –permanent

* + Reload the firewall configuration

firewall-cmd --reload

* + List the running PostgreSQL processes

ps -ef | grep postgres

* + List the location of the postgresql.conf file

ls /var/lib/pgsql/15/data/postgresql.conf

* + Open the postgresql.conf file in the vi text editor for configuration

vi /var/lib/pgsql/15/data/postgresql.conf

* + Compare and update the new conf file with old database(10.0.3.157)conf file
  + Restart the PostgreSQL service after making changes to the configuration

systemctl restart postgresql-15

* + Check the status of the PostgreSQL service.

sudo systemctl status postgresql-15

* + Check if there are any firewall rules allowing incoming connections on port 5432, which is the default port for PostgreSQL.

iptables-save | grep 5432

* + Check if a connection can be established to the local PostgreSQL server on port 5432.

nc -zv -w2 127.0.0.1 5432

* + Switch to the PostgreSQL user to check.

su – postgres

* + Open the PostgreSQL command-line interface

Psql

* + Validate the postgres-15 from local cmd

Test-NetConnection 10.0.3.164 -Port 5432

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