How to Install PostgreSQL through RPM Package

Steps to Install PostgreSQL Using RPM Package:  
  
1. Download the RPM Package:  
 - Visit the PostgreSQL RPM repository (https://download.postgresql.org/pub/repos/yum/) to find the latest version of the RPM package.  
 - Example for PostgreSQL 15:  
 wget https://download.postgresql.org/pub/repos/yum/15/redhat/rhel-8-x86\_64/pgdg-redhat-repo-latest.noarch.rpm  
 wget https://download.postgresql.org/pub/repos/yum/15/redhat/rhel-8-x86\_64/postgresql15-server-15.3-1.el8.x86\_64.rpm  
 wget https://download.postgresql.org/pub/repos/yum/15/redhat/rhel-8-x86\_64/postgresql15-contrib-15.3-1.el8.x86\_64.rpm

· pgdg-redhat-repo-latest.noarch.rpm: Adds the PostgreSQL repository to your system for easy installation and updates.

· postgresql15-server-15.3-1.el8.x86\_64.rpm: Installs the main PostgreSQL server binary and essential files to run PostgreSQL.

· postgresql15-contrib-15.3-1.el8.x86\_64.rpm: Provides additional modules and extensions to enhance PostgreSQL's functionality.

2. Install the PostgreSQL Repository (Optional but Recommended):  
 - Install the repository configuration RPM:  
 sudo rpm -ivh pgdg-redhat-repo-latest.noarch.rpm  
  
3. Install the PostgreSQL RPM Packages:  
 - Install PostgreSQL manually by running:  
 sudo rpm -ivh postgresql15-server-15.3-1.el8.x86\_64.rpm  
 sudo rpm -ivh postgresql15-contrib-15.3-1.el8.x86\_64.rpm  
 - Alternatively, use `dnf` or `yum` for easier dependency handling:  
 sudo dnf install postgresql15-server postgresql15-contrib  
  
4. Initialize PostgreSQL Database:  
 - Run the initialization command:  
 sudo /usr/pgsql-15/bin/postgresql-15-setup initdb  
  
5. Start the PostgreSQL Service:  
 - For RHEL/CentOS 7 and 8:  
 sudo systemctl start postgresql-15  
  
6. Enable PostgreSQL to Start on Boot:  
 - Enable the PostgreSQL service to start on boot:  
 sudo systemctl enable postgresql-15  
  
7. Check PostgreSQL Status:  
 - Verify if PostgreSQL is running:  
 sudo systemctl status postgresql-15  
  
8. Access PostgreSQL:  
 - Connect to PostgreSQL using the `psql` command:  
 sudo -u postgres psql