WHM/cPanel **does not natively support PostgreSQL** in all installations — it **must be enabled and configured manually by the server admin via WHM/root access**.

Here's how to **deploy a PostgreSQL database in WHM/cPanel** and connect it to your application:

✅ Step-by-Step: Deploy PostgreSQL on WHM/cPanel

◆ Step 1: Check if PostgreSQL is Installed

1. Log in to **WHM (root)**.
2. Go to: **WHM → Software → PostgreSQL Server**
   - If it's **not available**, it means your cPanel server doesn't have PostgreSQL installed.

◆ Step 2: Install PostgreSQL (if not already)

If not installed:

1. Go to **WHM → Software → Install a PostgreSQL Server**.
2. Click **Install**.
3. Wait for the installation to complete.

This will also install **phpPgAdmin** (like phpMyAdmin but for PostgreSQL).

◆ Step 3: Enable PostgreSQL for cPanel Accounts

1. Go to: **WHM → SQL Services → Manage PostgreSQL Profiles**.
2. Create a profile or enable the default one.
3. Enable **PostgreSQL remote access** if needed (edit `pg_hba.conf` manually via SSH if needed).

◆ Step 4: Create PostgreSQL DB & User in cPanel

Now go to your **cPanel account** (as a user, not root):

1. Go to **PostgreSQL Databases**.
2. **Create a new database** (e.g., `user_myappdb`).
3. **Create a database user** (e.g., `user_myuser`) and set password.
4. **Add the user to the database** with full privileges.

◆ Step 5: Connect from Your App

Use these connection details:

```ini
CopyEdit
DB_HOST=localhost
DB_PORT=5432
DB_DATABASE=user_myappdb
DB_USERNAME=user_myuser
DB_PASSWORD=your_password
```

You can test using Laravel, Node.js, Django, etc., depending on your app.

◆ Step 6: (Optional) Enable Remote Access to PostgreSQL

To allow remote apps to connect:

1. SSH into the server as root.
2. Edit `/var/lib/pgsql/data/pg_hba.conf` or similar location.
   - Add a line:

     ```css
     CopyEdit
     host    all             all             0.0.0.0/0           md5
     ```

3. Edit `postgresql.conf` to allow remote connections:

   ```ini
   CopyEdit
   listen_addresses = '*'
   ```

4. Restart PostgreSQL:

   ```bash
   CopyEdit
   systemctl restart postgresql
   ```

5. Open port 5432 in your firewall (`CSF`, `iptables`, or cloud firewall).

✅ Tools Available in cPanel for PostgreSQL

- **PostgreSQL Databases**: Manage DBs and users.
- **phpPgAdmin**: Web UI to explore/manage data (like phpMyAdmin for MySQL).

☐ Notes

- Some hosting providers **disable PostgreSQL** on shared hosting plans. You may need **VPS or root access** to enable it.
- If your hosting doesn't support PostgreSQL, consider **external hosting via Amazon RDS or ElephantSQL**, then connect it to your cPanel app.