**1. Install PostgreSQL on macOS:**

1. **Using Homebrew:**

*brew install postgresql*

1. **Start PostgreSQL service:**

*brew services start postgresql*

This command starts PostgreSQL as a background service.

**2. Create a PostgreSQL Database:**

1. **Access PostgreSQL Shell:**

*psql*

1. **Create a new database:**

*CREATE DATABASE cricdataengine;*

1. **Create a user with a password:**

*CREATE USER hanif WITH PASSWORD 'test123’;*

1. **Grant privileges to the user for the database:**

*GRANT ALL PRIVILEGES ON DATABASE cricdataengine TO hanif;*

1. **Exit the PostgreSQL Shell:**

*\q*

**3. Common Issues and Solutions:**

1. **Port Already in Use Error:**
   * Solution: Change the PostgreSQL port or identify and stop the process using the port.
2. **Role Does Not Exist Error:**
   * Solution: Ensure the specified user role exists or create it using the **CREATE USER** command.
3. **IPv4/IPv6 Binding Errors:**
   * Solution: Update the **postgresql.conf** file to bind to specific IP addresses or disable IPv6 if not needed.
4. **TCP/IP Socket Errors:**
   * Solution: Check for other services using the same port, or restart PostgreSQL.

**4. Change PostgreSQL Port (Optional):**

If you need to change the PostgreSQL port:

1. **Edit postgresql.conf:**

bashCopy code

sudo nano /usr/local/var/postgres/postgresql.conf

Update the **port** setting.

1. **Restart PostgreSQL:**

bashCopy code

brew services restart postgresql

Remember to update your application configurations to use the new port if needed.