**Remote Database Connections**

## Step 1: Find the IP Address of Your First Laptop (Server)

You need to know the **IP address** of your first laptop, which will act as the PostgreSQL server.

1. On Windows:

Open Command Prompt (cmd), type:

**ipconfig**

Look for the **IPv4 Address** under your active network connection. It will look something like **192.168.1.100**.

A screenshot of a computer

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1. On Mac/Linux:

Open **Terminal**, type:

**ifconfig**

Look for the **inet** address under your active network interface (like en0 or wlan0).

Step 2: Edit PostgreSQL Configuration Files on the First Laptop

### 2.1 Modify postgresql.conf

postgresql.conf in path: C:\Program Files\PostgreSQL\15\data\postgresql.conf (windows)

Find the line:

**#listen\_addresses = 'localhost'**

Change it to:

**listen\_addresses = '\*'**

### 2.2 Modify pg\_hba.conf

Open the **pg\_hba.conf file**:

Located at: C:\Program Files\PostgreSQL\15\data\pg\_hba.conf

Add this line to the end of the file:

**host all all 0.0.0.0/0 md5**

## Step 3: change firewall on first laptop

Follow the steps under **3. Configure the Windows Firewall to allow incoming connections to PostgreSQL** in [this link](https://blog.devart.com/configure-postgresql-to-allow-remote-connection.html#How-to-allow-remote-connections-to-PostgreSQL-on-Linux) to allow income connections to PostgreSQL

## Step 4: Ensure the postgresql service is running on your first laptop

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**Step 5: Remote connect to server on your second laptop**

1. Open **pgAdmin** on your second laptop.
2. Go to **Servers** > **Create** > **Server**.
3. In the **General** tab, give your server a name.
4. In the **Connection** tab:
   * **Host name/address**: Enter the IP address of your first laptop.
   * **Port**: 5432 (default PostgreSQL port).
   * **Username** and **Password**: Enter your PostgreSQL credentials.
5. Click **Save**.