

Connecting with Node.js

This guide walks you through the process of connecting a Node.js application to a TimescaleDB database using the `pg` package. You'll learn how to set up the environment, configure the connection, and run a simple SQL query.

Variables

To connect to a TimescaleDB database, the following parameters are required. You can find these details in the **Elestio service overview page** of your TimescaleDB service.

Variable	Description	Purpose
<code>USER</code>	TimescaleDB (PostgreSQL) username	Identifies the database user with access privileges
<code>PASSWORD</code>	TimescaleDB password	Authenticates the user against the TimescaleDB database
<code>HOST</code>	Hostname of the TimescaleDB instance	Specifies the server address of the database
<code>PORT</code>	Port for TimescaleDB (usually 5432)	Specifies the network port for connections
<code>DATABASE</code>	Name of the TimescaleDB database	Specifies which database to access

These values can usually be found in the Elestio service overview details as shown in the image below, make sure to take a copy of these details and add it to the code moving ahead.



timescaledb-gi7jy

TimescaleDB

Cluster

Running

Open terminal

Delete cluster

Add node

Overview

Nodes

Backups

Audit

Termination protection	Disabled. VM can be powered off and terminated.	Protection deactivated <input type="checkbox"/>
Auto-Failover	Enabled. In case of failure, the cluster will automatically attempt to recover	Auto-Failover activated <input checked="" type="checkbox"/>
Node	1 Primary Node	

Database Admin Display your database credentials Hide DB Credentials

Host	timescaledb-gi7jy-u7774.vm.elestialio.app	
Port	25432	
User	postgres	
Password	*****	Show password
CLI	PGPASSWORD=***** psql --host=timescaledb-gi7jy-u7774.vm.elestialio.app --port=25432 --username=postgres	Show password

Prerequisites

- **Install Node.js and NPM**
 - Check if Node.js is installed:

```
node -v
npm -v
```

- If not, download and install it from <https://nodejs.org>.
- **Install the pg Package**
 - TimescaleDB is PostgreSQL-compatible, so use the pg package:

```
npm install pg --save
```

Code

Once all prerequisites are set up, create a new file named `tddb.js` and add the following code.

```
const { Client } = require("pg");

// Database connection configuration
const config = {
  host: "HOST",
  user: "USER",
  password: "PASSWORD",
  database: "DATABASE",
  port: PORT,
  ssl: {
    rejectUnauthorized: false, // Only if TimescaleDB requires SSL (check Elestio settings)
  },
};

// Create a new client instance
const client = new Client(config);

// Connect to the TimescaleDB database
client.connect((err) => {
  if (err) {
    console.error("Connection failed:", err.stack);
    return;
  }

  console.log("Connected to TimescaleDB");

  // Run a test query
  client.query("SELECT version()", (err, res) => {
    if (err) {
      console.error("Query failed:", err.stack);
    } else {
      console.log("TimescaleDB/PostgreSQL Version:", res.rows[0].version);
    }

    // Close the connection
    client.end((err) => {
      if (err) console.error("Error closing connection:", err.stack);
    });
  });
});
```

To execute the script, open the terminal or command prompt and navigate to the directory where `tdb.js`. Once in the correct directory, run the script with the command

```
node tdb.js
```

If successful, you'll see:

```
Connected to TimescaleDB  
TimescaleDB/PostgreSQL Version: PostgreSQL 14.13 (Debian 14.13-1.pgdg120+1) on x86_64-pc-  
linux-gnu, compiled by gcc (Debian 12.2.0-14) 12.2.0, 64-bit
```

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