

Connecting with Java

This guide explains how to establish a connection between a Java application and a KeyDB database using the Jedis library. It walks through the necessary setup, configuration, and execution of a simple KeyDB command.

Variables

Certain parameters must be provided to establish a successful connection to a KeyDB database. Below is a breakdown of each required variable, its purpose, and where to find it. Here's what each variable represents:

Variable	Description	Purpose
HOST	KeyDB hostname, from the Elestio service overview page	The address of the server hosting your KeyDB instance.
PORT	Port for KeyDB connection, from the Elestio service overview page	The network port used to connect to KeyDB. The default port is 6379.
PASSWORD	KeyDB password, from the Elestio service overview page	The authentication key required to connect securely to KeyDB.

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.



keydb

KeyDB

Cluster

Running

Open terminal

Delete cluster

Add node

Overview

Nodes

Backups

Audit

Termination protection

Disabled. VM can be powered off and terminated.

Protection deactivated



Auto-Failover

Enabled. In case of failure, the cluster will automatically attempt to recover

Auto-Failover activated



Nodes

2 Nodes: 1 Primary, 1 Replica

Add node

Database Admin

Display your database credentials

Hide DB Credentials

Host

keydb-u7774.vm.elestio.app



Port

23647



User

root



Password

Show password



CLI

redis-cli -h keydb-u7774.vm.elestio.app -p 23647 -a *****

Show password



Prerequisites

Install Java

Check if Java is installed by running:

```
java -version
```

If not installed, download it from oracle.com and install.

Download Jedis and Dependencies

The Jedis library enables Java applications to interact with KeyDB. You need to download two JAR files manually:

1. **Jedis JAR** (Jedis 5.1.0):

<https://repo1.maven.org/maven2/redis/clients/jedis/5.1.0/jedis-5.1.0.jar>

2. **Apache Commons Pool2 JAR** (Required by Jedis):

<https://repo1.maven.org/maven2/org/apache/commons/commons-pool2/2.11.1/commons-pool2-2.11.1.jar>

Place both JAR files in the same directory as your Java file.

Code

Once all prerequisites are set up, create a new file named KeyDBTest.java and add the following code:

```
import redis.clients.jedis.JedisPooled;

public class KeyDBTest {
    public static void main(String[] args) {
        String host = "HOST";
        int port = PORT; // e.g., 6379
        String password = "PASSWORD";

        JedisPooled jedis = new JedisPooled(host, port, password);

        try {
            jedis.set("testKey", "Hello KeyDB");
            String value = jedis.get("testKey");

            System.out.println("Connected to KeyDB");
            System.out.println("Retrieved value: " + value);

        } catch (Exception e) {
            System.out.println("KeyDB connection or operation failed: " + e.getMessage());
        }
    }
}
```

To execute the script, open the terminal or command prompt and navigate to the directory where KeyDBTest.java is located. Once in the correct directory, run the following commands:

On Linux/macOS :

```
javac -cp "jedis-5.1.0.jar:commons-pool2-2.11.1.jar" KeyDBTest.java
java -cp ".:jedis-5.1.0.jar:commons-pool2-2.11.1.jar" KeyDBTest
```

On Windows :

```
javac -cp "jedis-5.1.0.jar;commons-pool2-2.11.1.jar" KeyDBTest.java
java -cp ".;jedis-5.1.0.jar;commons-pool2-2.11.1.jar" KeyDBTest
```

If the connection is successful, the terminal will display output similar to:

```
Connected to KeyDB
Retrieved value: Hello KeyDB
```

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