

# Connecting with Java

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

## Variables

Certain parameters must be provided to establish a successful connection to a Redis 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	Redis hostname, from the Elestio service overview page	The address of the server hosting your Redis instance.
PORT	Port for Redis connection, from the Elestio service overview page	The network port used to connect to Redis. The default port is 6379.
PASSWORD	Redis password, from the Elestio service overview page	The authentication key required to connect securely to Redis.

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.

**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	redis-aiomt-u7774.vm.elestio.app	
Port	26379	
User	default	
Password	*****	Show password 
CLI	redis-cli -h redis-aiomt-u7774.vm.elestio.app -p 26379 --user default --pass '*****'	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 Redis. 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 RedisTest.java and add the following code:

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

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

        // Create a Redis client
        JedisPooled jedis = new JedisPooled(host, port, password);

        try {
            // Set and get a test key
            jedis.set("testKey", "Hello Redis");
            String value = jedis.get("testKey");

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

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

To execute the script, open the terminal or command prompt and navigate to the directory where RedisTest.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" RedisTest.java
java -cp ".:jedis-5.1.0.jar:commons-pool2-2.11.1.jar" RedisTest
```

## On Windows :

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

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

```
Connected to Redis
Retrieved value: Hello Redis
```

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