

Connecting with Python


This guide explains how to connect a Python application to a Valkey database using the [redis](#) library. It walks through the required setup, configuration, and execution of a simple Valkey command.

Variables

To connect to Valkey, the following parameters are needed. You can find these values in the Elestio Valkey service overview.

Variable	Description	Purpose
HOST	Valkey hostname (from Elestio service overview)	Address of the Valkey server.
PORT	Valkey port (from Elestio service overview)	Port used to connect to Valkey. The default is 6379.
PASSWORD	Valkey password (from Elestio service overview)	Authentication credential for the Valkey connection.

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.

 **valkey**

Valkey

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

Prerequisites

Install Python and pip

- Check if Python is installed by running:

```
python3 --version
```

- If not installed, download and install it from python.org.
- Check pip (Python package installer):

```
pip --version
```

Install the redis Package

Install the official redis library using pip:

```
pip install redis
```

Code

Create a file named `valkey.py` and paste the following code:

```
import redis

config = {
    "host": "HOST",
    "port": PORT, # Example: 6379
    "password": "PASSWORD",
    "decode_responses": True
}

try:
    client = redis.Redis(**config)
    client.set("testKey", "Hello Valkey")
    value = client.get("testKey")
    print("Connected to Valkey")
    print("Retrieved value:", value)

except redis.RedisError as err:
    print("Valkey connection or operation failed:", err)
```

To execute the script, open the terminal or command prompt and navigate to the directory where `valkey.py` is located. Once in the correct directory, run the script with the command:

```
python3 redis.py
```

If everything is set up correctly, the output will be:

```
Connected to Valkey
Retrieved value: Hello Valkey
```

Revision #2

Created 4 July 2025 10:45:02 by kaiwalya

Updated 4 July 2025 10:46:42 by kaiwalya