

Connecting with PHP

This guide explains how to establish a connection between a PHP application and a Valkey database using the phredis extension. It walks through the necessary setup, configuration, and execution of a simple Valkey command.

Variables

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

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	valkey-u7774.vm.elestio.app	
Port	26379	
User	root	
Password	*****	Show password 
CLI	redis-cli -h valkey-u7774.vm.elestio.app -p 26379 --user default --pass '*****'	Show password 

Prerequisites

- **Install PHP**

- Check if PHP is installed by running:

```
php -v
```

- If not installed, download it from [php.net](https://www.php.net) and install.

- **Install the phpredis Extension**

- The phpredis extension provides a native PHP interface for Valkey. You can install it using:

```
sudo pecl install redis
```

- Then enable it in your php.ini:

```
extension=redis
```

- To verify it's installed:

```
php -m | grep redis
```

Code

Once all prerequisites are set up, create a new file named `valkey.php` and add the following code:

```
<?php

$host = 'HOST';
$port = PORT;
$password = 'PASSWORD';

$valkey = new Redis();

try {
    $valkey->connect($host, $port);

    if (!$valkey->auth($password)) {
        throw new Exception('Authentication failed');
    }

    echo "Connected to Valkey\n";

    $valkey->set("testKey", "Hello Valkey");
    $value = $valkey->get("testKey");
    echo "Retrieved value: $value\n";

    $valkey->close();
} catch (Exception $e) {
    echo "Valkey connection or operation failed: " . $e->getMessage() . "\n";
}
```

Open the terminal or command prompt and navigate to the directory where `valkey.php` is located. Once in the correct directory, run the script with the command:

```
php valkey.php
```

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

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