Connecting with Go

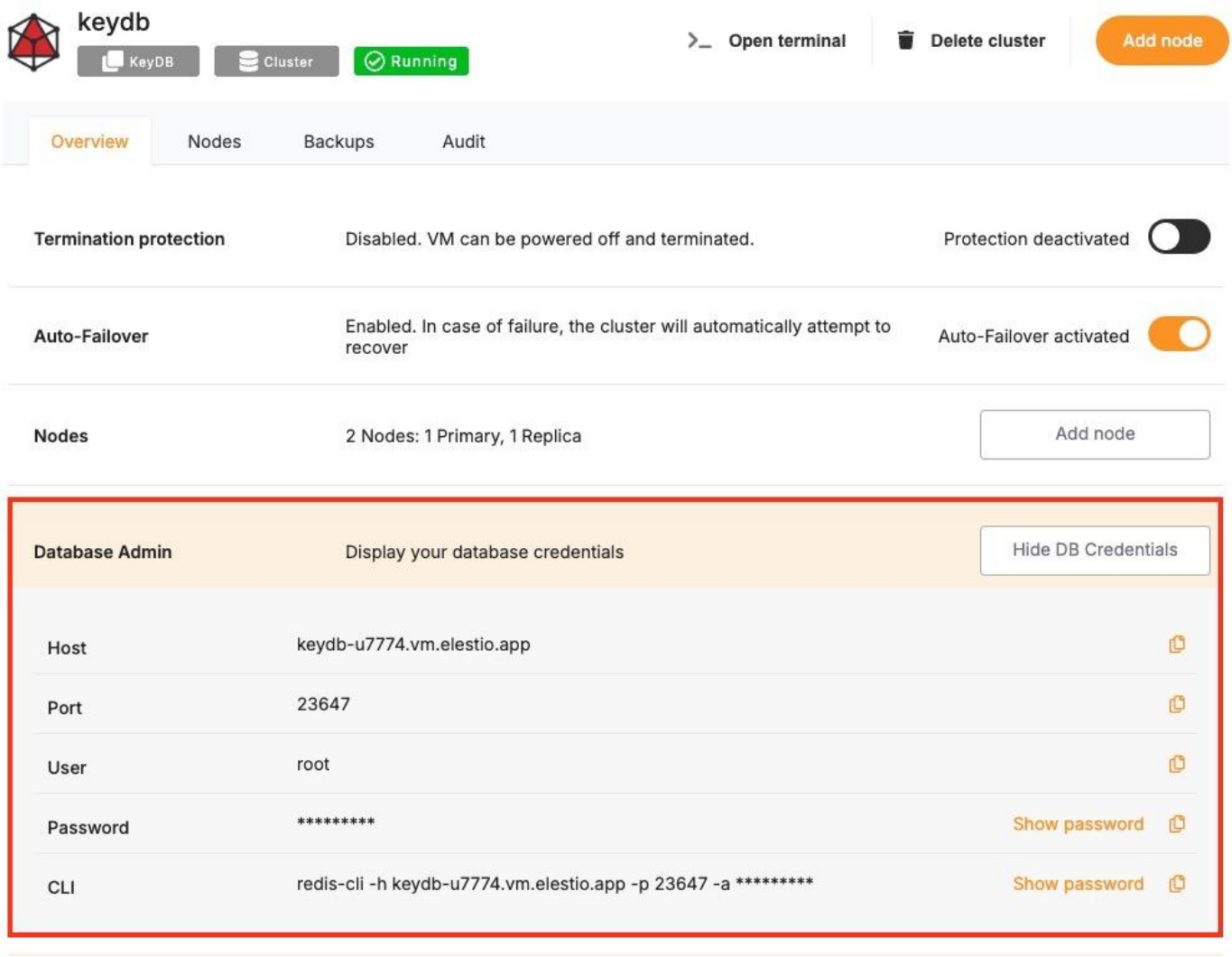
This guide explains how to establish a connection between a Go application and a KeyDB database using the go-redis package. It walks through the necessary setup, configuration, and execution of a simple KeyDB command.

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.



Prerequisites

Install Go

Check if Go is installed by running:

```
go version
```

If not installed, download it from golang.org and install.

Install the go-redis Package

The go-redis package enables Go applications to interact with KeyDB. Install it using:

```
go get github.com/redis/go-redis/v9
```

Code

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

```
package main

import (
	"context"
	"fmt"
	"time"

	"github.com/redis/go-redis/v9"
)

func main() {
	opt := &redis.Options{
		Addr:     "HOST:PORT",
		Password: "PASSWORD",
		DB:       0,
	}

	kdbdb := redis.NewClient(opt)
	ctx, cancel := context.WithTimeout(context.Background(), 5*time.Second)
	defer cancel()

	err := kdbdb.Set(ctx, "testKey", "Hello KeyDB", 0).Err()
	if err != nil {
		fmt.Println("KeyDB operation failed:", err)
		return
	}

	val, err := kdbdb.Get(ctx, "testKey").Result()
	if err != nil {
		fmt.Println("KeyDB operation failed:", err)
		return
	}

	fmt.Println("Connected to KeyDB")
	fmt.Println("Retrieved value:", val)
```

```
    if err := kdbdb.Close(); err != nil {
        fmt.Println("Error closing connection:", err)
    }
}
```

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

```
go run keydb.go
```

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

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

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