

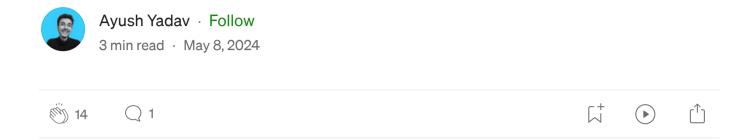








How to use private repositories in GO projects



Overview:

In this guide, we'll explore how to utilize private repositories in your Go projects. We'll cover the steps needed to configure your Go environment to seamlessly integrate private repositories.

Prerequisites:

- Ensure you have Go installed on your system.
- You should have ssh keys setup linked to your Github account.

Go Projects:

- We have 2 Go projects/ repositories here.
- The Go private repository you want to use.
- The new Go project you want to use the private repository in.
- Eg: Using a private cleaner repo in a new data pipeline Go project.

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Step-by-Step Guide

Step 1. Get the private repository path:

- Begin by navigating to your private repository's go.mod file.
- Here you will find the full path to your private repository, which is essential for the import process.
- The path usually follows the format "github.com/user/private_repo"

```
/* the go.mod file of private repository you are trying to use */
module github.com/user/private_repo
go 1.19
```

Step 2: Configure Go for Private Repositories:

To let Go know to use your private repo instead of fetching it from public servers we export GOPRIVATE variable with the full repository path.

```
export GOPRIVATE="github.com/username/private_repo"
```

Step 2: Import the private repository in your new project:

Open any Go file in your new project where you need to import your private package. For example, if you're working with a file named test.go, you would include the following import statement at the top:

```
// eg: test.go file in the new project

package main

import (
   "fmt"
   "github.com/username/private_repo"
)
```

```
test.go file in New project

package main

import (
    "fmt"

"github.com/user/private_repo"
)
```

3. Use SSH for authentication:

Run these command in terminal, to use ssh instead of http while cloning the repos

```
git config --global url."git@github.com:".insteadOf "https://github.com/"
```

Step 4: Tidy Up Your go.mod File:

This command cleans up your project's go.mod file, adding the private repository you're importing, updating the go.sum file, and downloading the necessary dependencies to your system.



Step 5: Run Your Go File

You can access any function in the new project by using the package name of the imported repo followed by function name.

eg: package_name.DoSomething()

```
// File: test.go

package main

import (
    "github.com/user/private_repo"
)

func main() {
    private_repo.DoSomething()
}

// run file using -> go run test.go
```

```
# run new project using
go run test.go

# in the test.go file use
functions using

package_name.DoSomething()
```

Conclusion:

By following these steps, we've successfully imported a private Go repository into our project.

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Happy coding, and may your Go projects run smoothly and securely!!



Go

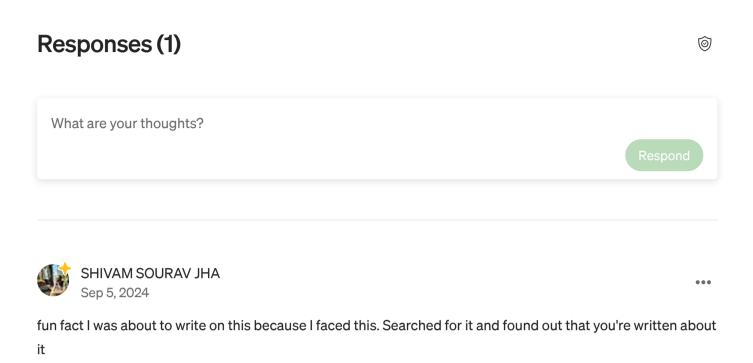
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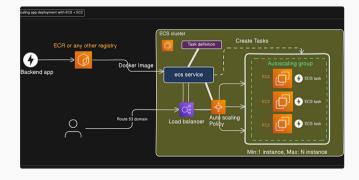


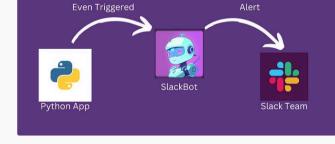
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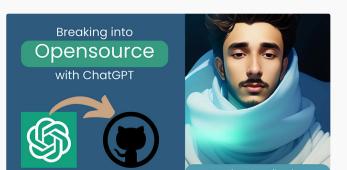
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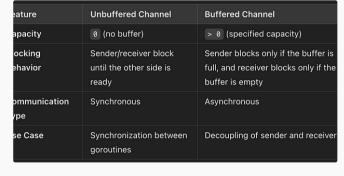




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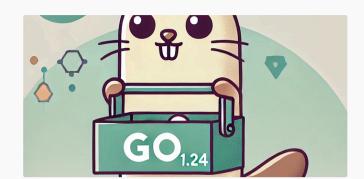
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