Golang Development Environment Golang开发环境

Introduction 介绍

Visual Studio Code（简称VS Code）是一个由微软开发，支持测试，并内置了Git 版本控制功能，同时也具有开发环境功能，例如代码补全、代码片段和代码重构等。

安装了vs-code-go之后，就可以使用VS Code来进行golang开发。

Visual Studio Code (VS Code for short) is a software developed by Microsoft, supports testing, and has built-in Git version control functions. It also has development environment functions, such as code completion, code snippets, and code refactoring.

After installing vs-code-go, you can use VS Code for golang development.

前期准备 Installation and Deployment

安装vs code

打开官网：https://code.visualstudio.com/

下载vs code，并安装。

Install vs code

Open the official website: https://code.visualstudio.com/

Download vs code and install it.

安装golang

如果是macOS，推荐使用homebrew安装。（homebrew官网：https://brew.sh/ ）

执行：`brew install go`

Install golang

If it is macOS, it is recommended to use homebrew to install. (homebrew official website: https://brew.sh/)

Execute: brew install go

配置环境变量

加入环境变量：

Configure environment variables

Add environment variables:

```
export GOPATH="$HOME/go"
export GOROOT="/usr/local/Cellar/go/1.13.1/libexec"
export PATH="$PATH:${GOPATH}/bin:${GOROOT}/bin"
```
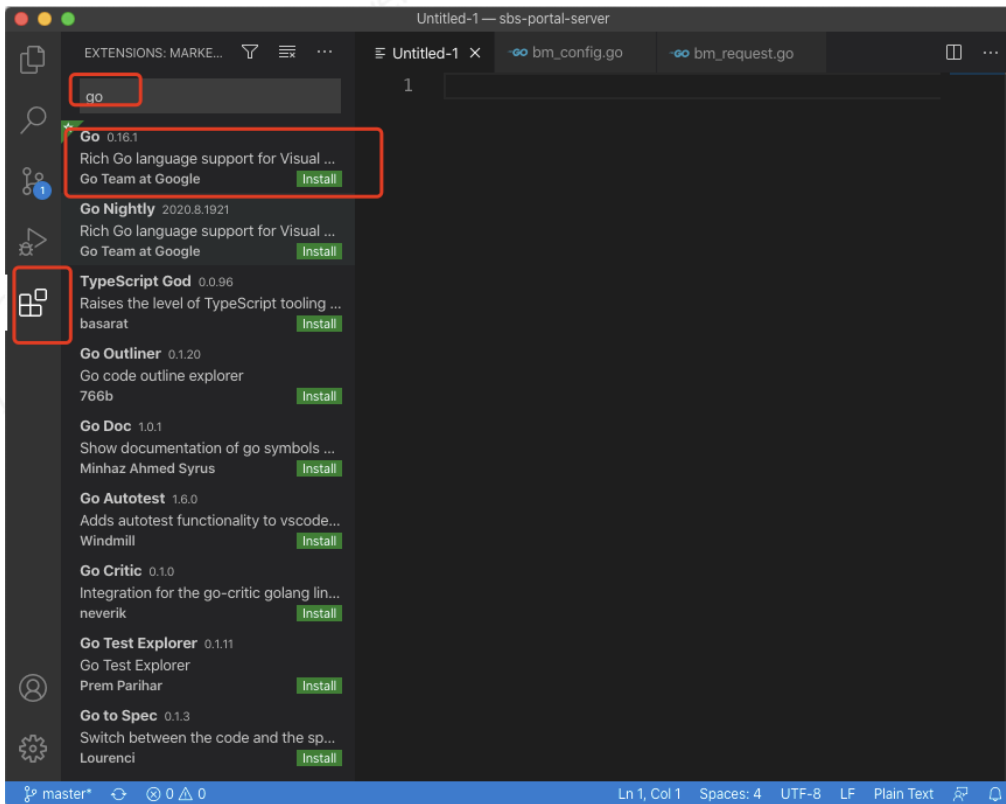
完成以上步骤之后，可以通过 `go version`来验证是否安装成功。

After completing the above steps, you can verify whether the installation was successful through go version.

安装 Install vs-code-go

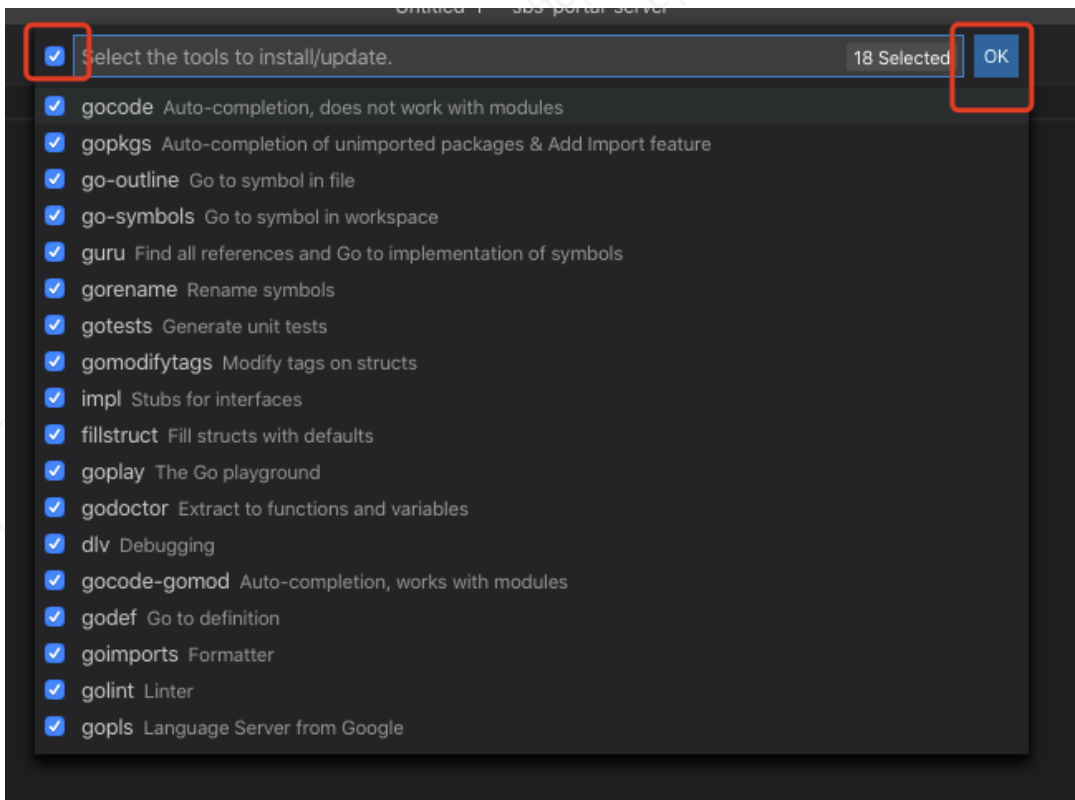打开vs code之后，选择左边的`Extensions` ，然后查询找到`go`，并安装。

After opening vs code, select Extensions on the left, then query to find go, and install it.

安装必要插件Install Necessary Extension

打开（command + shift + P）命令行，并输入命令：`>Go Install/Update Tools`。

Open (command + shift + P) the command line and enter the command: >Go Install/Update Tools.

全选，并选择安装。

安装成功后，会提示：All tools successfully installed. You are ready to Go :).

After the installation is successful, it will prompt: All tools successfully installed. You are ready to Go :).

插件介绍：Extension introduction:

- gopkgs：导入包时自动补全(列出可导入的包列表，主要用于包导入时的提示功能)Auto-completion when importing packages (listing the list of importable packages, mainly used for the prompt function when importing packages)
- go-outline：当前文件做符号(Symbol)搜索，相当于文件outline Do a symbol search in the current file, which is equivalent to the file outline
- go-symbols：工作区符号搜索Workspace Symbol Search
- guru：能获得全部代码对应引用。All code references are available.
- gopls：支持support go module。
- gorename：提供重命名的特性。Provides the ability to rename.
- godoctor：提供重构的特性。Provides refactoring features.
- delve：提供debugging的功能。Provide debugging function.
- gotests：用例测试use case test

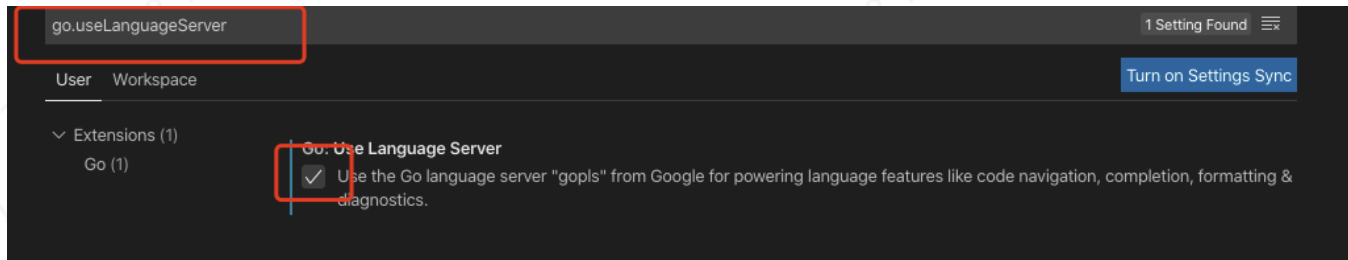更多可以查看Click here for more info：https://github.com/golang/vscode-go/blob/master/docs/tools.md

配置Configure language server

因为项目开发中，多会使用到模块化（Go modules）开发。所以推荐额外安装gopls。

首先，打开setting（command +,）。在搜索栏中输入go.useLanguageServer 找到该配置项并勾选上。

The development of modular (Go modules) is frequently used during the development of the project. So it is recommended to install gopls additionally.

First, open the setting (command + ,). Enter go.useLanguageServer in the search bar to find the configuration item and check it.

然后打开（command + shift + P）命令行，并输入命令：>Go Install/Update Tools。

选择gopls包，并进行安装。

至此，已经完成了vs code搭建golang开发环境。

Then open (command + shift + P) the command line and enter the command: > Go Install/Update Tools.

Select the gopls package and install it.

So far, the vs code installation has been completed to build the golang development environment.

参考资料References：

https://github.com/golang/vscode-go

https://golang.org/

https://code.visualstudio.com/

https://brew.sh/