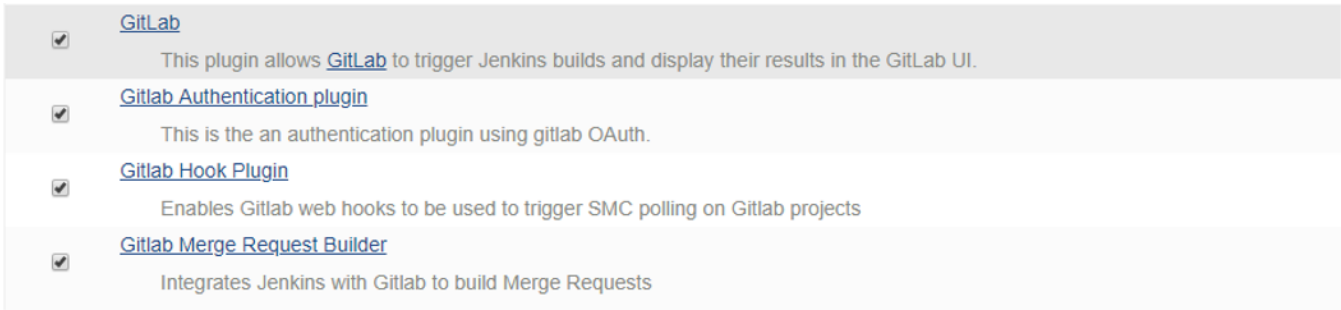


# Gitlab+jenkins配置

## 1. Jenkins配置

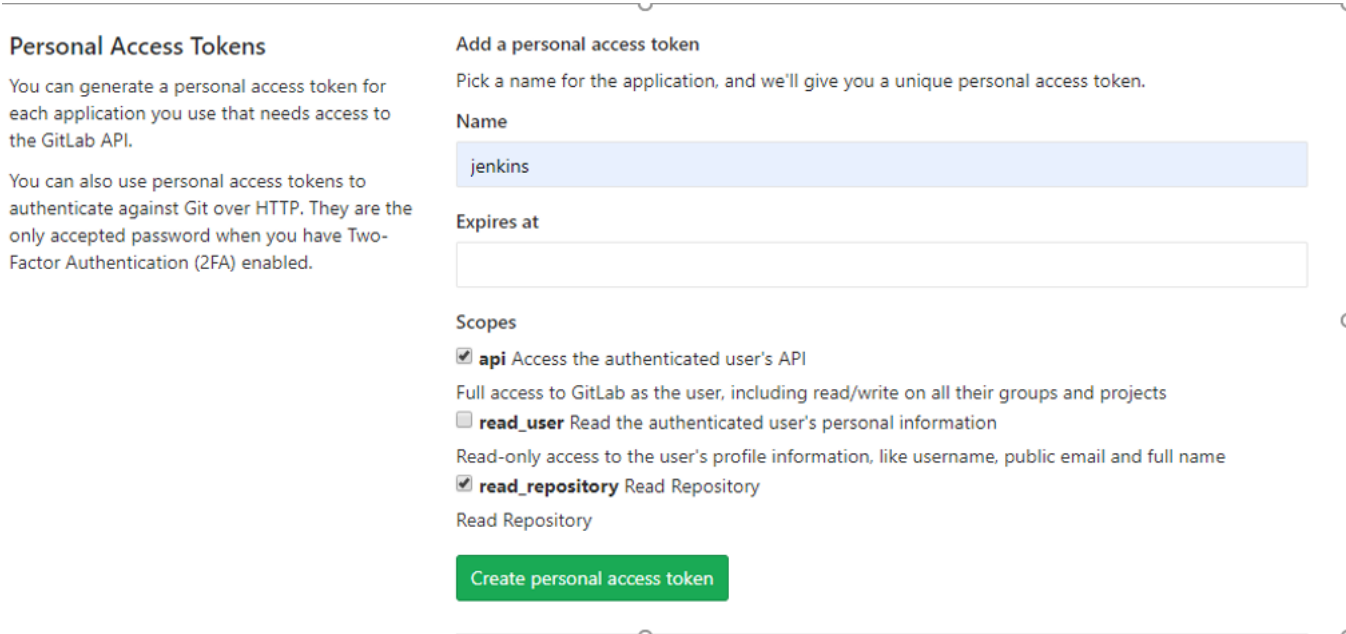
### 1.1 安装插件

在Manage Jenkins -> Manage Plugins下安装插件GitLab, [Gitlab Authentication plugin](#), Gitlab Merge Request Builder, Gitlab Hook Plugin.



### 1.2 创建Access Tokens

在gitlab的User Settings -> Access Tokens 创建token并保存



### 1.3 添加token到jenkins

在jenkins的 [Manage Jenkins](#) -> Configure System的Gitlab配置项中添加Connection name, Gitlab host URL, Credentials

## Usage Statistics

☒ Help make Jenkins better by sending anonymous usage statistics and crash reports to the Jenkins project.

## Gitlab

Enable authentication for '/project' end-point ☒

GitLab connections

Connection name

A name for the connection

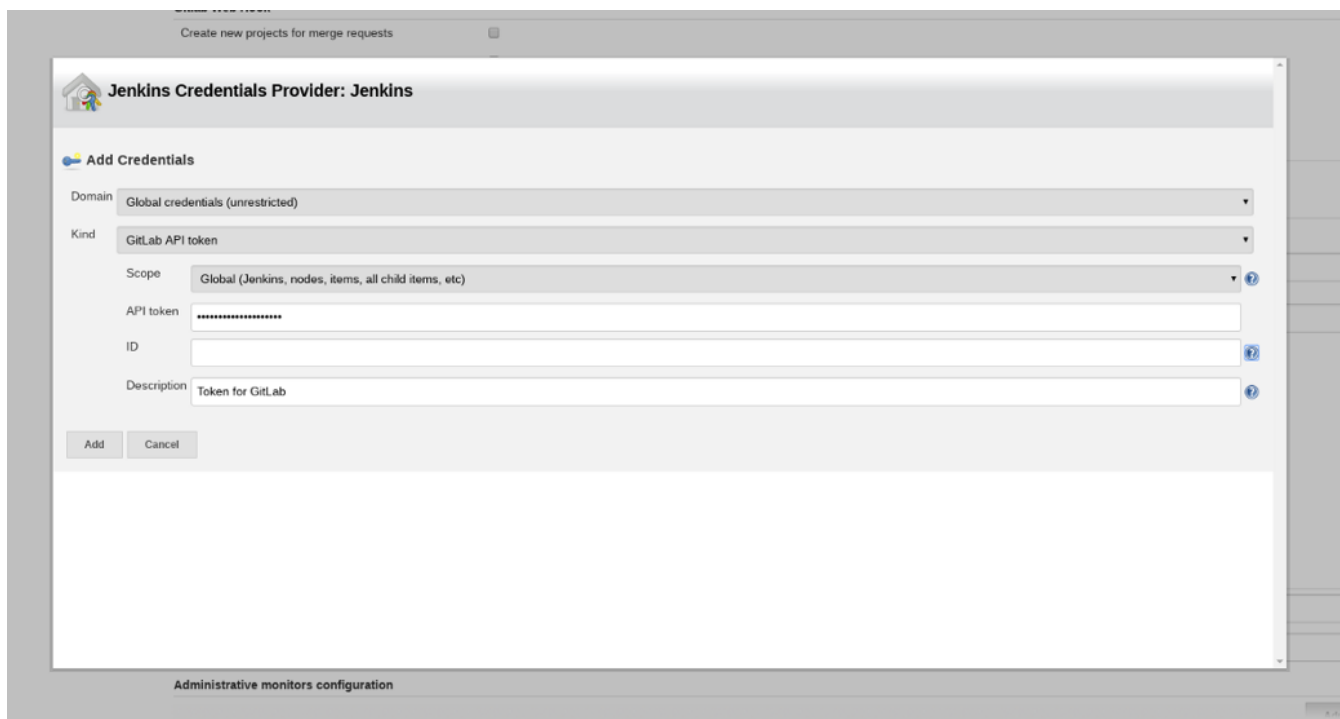
Gitlab host URL

The complete URL to the Gitlab server (e.g. http://gitlab.mydomain.com)

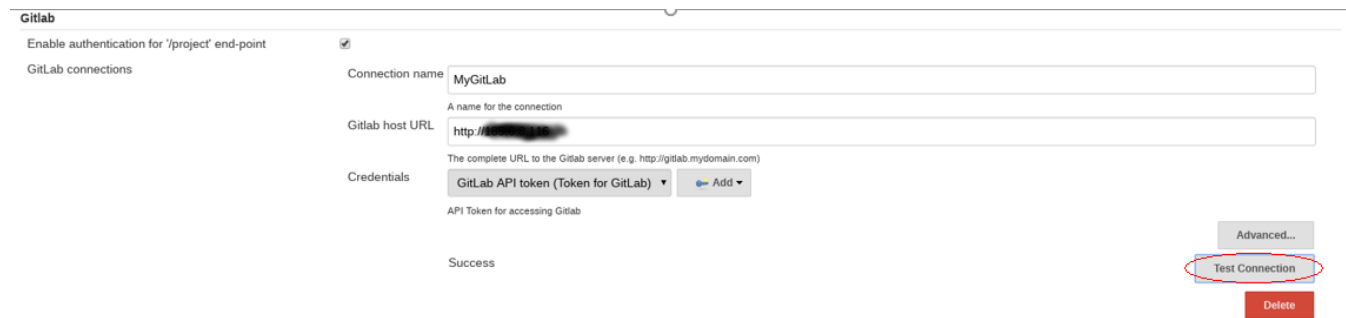
[Credentials](#)

☒ API Token ☐ Jenkins **API Tokens are required**

API Token for accessing GitLab



通过测试可以确定配置是否正确



## 1.4 创建jenkins任务（pipeline）

Enter an item name

test

» Required field

**构建一个自由风格的软件项目**  
这是Jenkins的主要功能。Jenkins将会结合任何SCM和任何构建系统来构建你的项目。甚至可以构建软件以外的系统。

**构建一个maven项目**  
构建一个maven项目。Jenkins利用你的POM文件。这样可以大大减轻构建配置。

**流水线**  
精心地组织一个可以长期运行在多个节点上的任务。适用于构建流水线（更加正式地应当称为工作流），增加或者组织难以采用自由风格的任务类型。

**External Job**  
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

**构建一个多配置项目**  
适用于多配置项目。例如多环境测试。平台指定构建。等等。

**MultiJob Project**  
MultiJob Project, suitable for running other jobs

**Bitbucket Team/Project**  
Scans a Bitbucket Cloud Team (or Bitbucket Server Project) for all repositories matching some defined markers.

**文件夹**  
创建一个可以嵌套存储的容器。利用它可以进行分组。视图仅仅是一个过滤器，而文件夹则是一个独立的命名空间，因此你可以有多个相同名称的内容，只要它们在不同的文件夹里即可。

配置jenkins job

General

Source Code Management

Build Triggers

Build Environment

Build

Post-build Actions

Description

Delivery a test kubyk repository

[Plain text] [Preview](#)

☐ Discard old builds

☐ GitHub project

GitLab Connection

MyGitLab

☐ This build requires lockable resources

☐ This project is parameterised

Build Triggers

☐ 其他工程构建后触发

☐ 定时构建

☒ Build when a change is pushed to GitLab. GitLab webhook URL: <http://jenkins.yoozoo.com/project/got-web-ci>

Enabled GitLab triggers

Push Events

☒

Opened Merge Request Events

☒

Accepted Merge Request Events

☒

Closed Merge Request Events

☒

Rebuild open Merge Requests

On push to source or target branch

Approved Merge Requests (EE-only)

☒

Comments

☒

Comment (regex) for triggering a build

Jenkins please retry a build

Advanced...

☐ GitHub hook trigger for GITScm polling

☐ Perform triggered build.

☐ 轮询 SCM

☐ Disable this project

☐ Quiet period

☐ Trigger builds remotely (e.g., from scripts)

Enable [ci-skip] ☒

Ignore WIP Merge Requests ☒

Set build description to build cause (eg. Merge request or Git Push ) ☒

Build on successful pipeline events ☒

Pending build name for pipeline

Cancel pending merge request builds on update ☒

Allowed branches

- ☒ Allow all branches to trigger this job
- ☐ Filter branches by name
- ☐ Filter branches by regex
- ☐ Filter merge request by label

Secret token

保存webhook URL和 secret token，用于gitlab上webhook配置填写

**Pipeline**

Definition

SCM

Repositories

Repository URL

Credentials

Branches to build

Branch Specifier (blank for 'any')

Repository browser

Additional Behaviours

Script Path

Lightweight checkout ☒

## 2. Gitlab配置

配置webhook，在Project Settings -> Integrations下，将1.4中保存的URL和Secret Token填入，并勾选Trigger选项。使用test测试，如果返回200并且jenkins有新任务生成，表明配置成功

## Integrations

Webhooks can be used for binding events when something is happening within the project.

URL

http://10.18.97.35:8080/project/got-web-ci

Secret Token

b0c933ec88a8207a04ffafd63703c6eb

Use this token to validate received payloads. It will be sent with the request in the X-Gitlab-Token HTTP header.

Trigger

☒ Push events

This URL will be triggered by a push to the repository

☒ Tag push events

This URL will be triggered when a new tag is pushed to the repository

☐ Comments

This URL will be triggered when someone adds a comment

☐ Confidential Comments

This URL will be triggered when someone adds a comment on a confidential issue

☐ Issues events

This URL will be triggered when an issue is created/updated/merged

☐ Confidential Issues events

This URL will be triggered when a confidential issue is created/updated/merged

☐ Merge request events

This URL will be triggered when a merge request is created/updated/merged

☐ Job events

This URL will be triggered when the job status changes

☐ Pipeline events

This URL will be triggered when the pipeline status changes

☐ Wiki Page events

This URL will be triggered when a wiki page is created/updated

SSL verification

☒ Enable SSL verification

Save changes

Test

Remove

## 3. Jenkinsfile编写

其中gitlabCommitStatus用于更新任务状态到gitlab上

```
pipeline {  
  agent {  
    label 'runner'  
  }  
  options {  
    timestamps()  
  }  
  stages {  
    stage("clean") {  
      steps {  
        gitlabCommitStatus(name: "clean") {  
          script {  
            echo "this is clean stage"  
          }  
        }  
      }  
    }  
    stage("build") {  
      steps {  
        gitlabCommitStatus(name: "build") {  
          script {  
            echo "this is build stage"  
          }  
        }  
      }  
    }  
  }  
}
```

## 4、参考链接

参考链接<https://medium.com/devopslinks/quick-and-easy-ci-cd-with-gitlab-and-jenkins-ba7821032e9c>