

Jenkins C++ubuntu 持续集成环境



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搭建jenkins+gitlab持续集成环境

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分步阅读

毕业设计基于jenkins+gitlab持续集成环境，配置时候踩过不少坑，整理一下搭建过程，希望可以帮到大家。

工具/原料

ubuntu 14.04

方法/步骤

安装jenkins

参照官网wiki，[http://wiki.jenkins-ci.org/](#)：

安装后的jenkins在/usr/lib/jenkins启动关闭jenkins:

```
sudo /etc/init.d/jenkins start  
sudo /etc/init.d/jenkins stop
```

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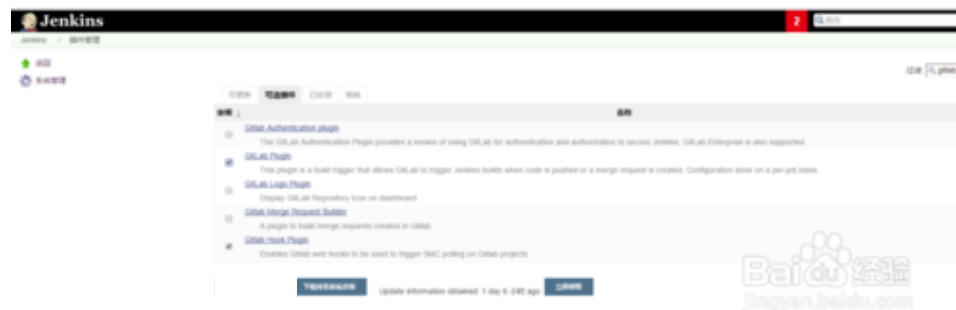
```

6
7 wget -q -O - https://pkg.jenkins.io/debian/jenkins-ci.org.key | sudo apt-key add -
8 sudo sh -c 'echo http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
sudo apt-get update
sudo apt-get install jenkins

```

配置jenkins

Jenkins安装好之后，需要为其安装gitlab插件:在主面板上点击Manage Jenkins -> Manage Plugins，选择安装Gitlab Plugin和Gitlab Hook Plugin。



搭建gitlab源码

参照官网wiki，

安装完之后默认能本机通过localhost访问的，修改/etc/gitlab/gitlab.rb中的对应配置项如下：
 external_url 'http://your ip:8080'
 nginx['listen_addresses'] = ['your ip']
 nginx['listen_port'] = 8080



如要投诉，请到[百度经验投诉中心](#)，如要提出意见、建议，请到[百度经验管理吧](#)反馈。

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```
curl -sS http://packages. 6 cc/install/gitlab-ce/script.deb.sh | sudo bash
sudo apt-get install gitla
sudo gitlab-ctl reconfigu 7
8
```

配置SSH key

由于jenkins需要从gitlab上拉取代码，通过ssh方式。所以需要在jenkins机器上安装git，并且将jenkins机器上生成的ssh密钥的公钥（id_rsa.pub中的内容）添加到gitlab的ssh key s中：

在jenkins安装机器上安装git

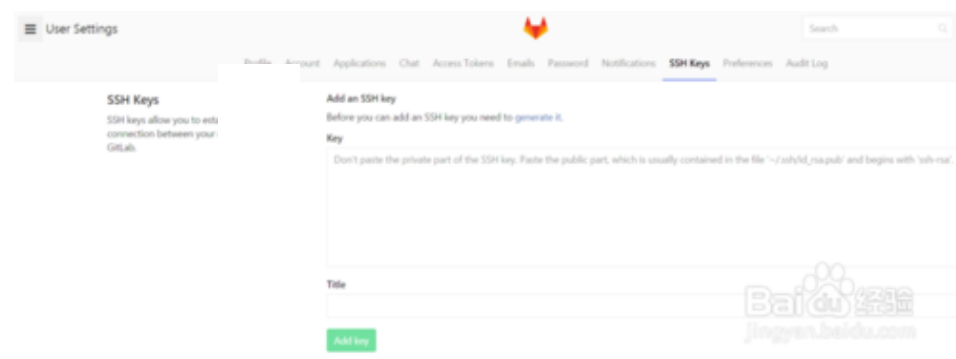
```
sudo apt-get install git
```

配置username和Email，生成ssh密钥

```
git config --global user.name "your name"git config --global user.email "your email"
```

```
ssh-keygen -t rsa -C "10010@gmail.com"
```

拷贝公钥内容填到gitlab服务器



User Settings

SSH Keys

SSH keys allow you to establish connection between your GitLab.

Add an SSH key

Before you can add an SSH key you need to generate it.

Key

Don't paste the private part of the SSH key. Paste the public part, which is usually contained in the file '~/.ssh/id_rsa.pub' and begins with 'ssh-rsa'.

Title

Add key

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配置GitLab connectio 6 连接到gitlab拉取代码使用，配置证书，使用gitlab api token。token从gitlab中获取，7 在设置中有Access Token一栏，创建一个token，填入jenkins的系统管理 -> 系统设置 8 gitlab配置中。
Test Connection，显示Success则表示配置成功。

The screenshot shows the GitLab user interface. The top navigation bar includes links for Profile, Account, Applications, Chat, Access Tokens, Emails, Password, Notifications, SSH Keys, Preferences, and Audit Log. The 'Access Tokens' section is active, displaying 'Add a Personal Access Token' with instructions to pick a name and a unique token. It includes input fields for 'Name' and 'Expires at', and a list of scopes: 'api (Access your API)' and 'read_user (Read user information)'. A green 'Create Personal Access Token' button is at the bottom. Below this, the 'GitLab connections' section is visible, showing a table with columns for 'Connection name', 'GitLab host URL', and 'Credentials'. One connection named 'jenkins_gitlab' is listed with the host URL 'http://192.168.201.129:8080' and 'GitLab API token' as credentials. A watermark for 'Baidu 经验 jingyan.baidu.com' is visible on the right side of the screenshot.

测试集成环境

新建一个项目，管理选git，填入对应的仓库URL，配置 Credentials，这里可以选择用ssh username private key（其他的我也没试成功过。。），输入用户名和对应的私钥即可

接下来构建触发 1 选择Build when a change is pushed to GitLab. GitLab CI Service URL: ...

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None

Git

Repositories

Repository URL

92.168.201.129:8080/project/wangwei10061/weather_forcast.git

Credentials

wei10061

Add

高级...

Add Repository

Branches to build

Branch Specifier (blank for 'any')

*/master

源代码浏览器

(自动)

Build when a change is pushed to GitLab. GitLab CI Service URL: http://192.168.201.130:8080/project/wangwei10061

Enabled GitLab triggers

Push Events

Merge Request Events

Rebuild open Merge Requests

Never

Comments

Comment for triggering a build

Jenkins please retry a build

GitHub hook trigger for GITScm polling

添加hook

由于我们的jenkins 任务由webhook事件来通知，所以需要将上面的CIService URL添加到gitlab对应项目的ci configurations配置中。

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when something is happening within the project.

Secret Token 6

Use this token to trigger builds from external systems. 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 pushes
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

☐ 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

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RUN

配置完之后apply，保存。jenkins任务就新建完成了此时我们在本地push代码到gitlab服务器，可以看到：成功地触发一次jenkins构建，效果如下：

至此jenkins+gitlab持续集成环境搭建完成！



END

注意事项

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本文档记录，部署jenkins+gitlab

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经验内容仅供参考，如果您需解决相关问题(尤其法律、医学等领域)，建议您详细咨询相关领域专业人士。

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作者声明：本篇经验系本人依照真实经历原创，未经许可，谢绝转载。[举报](#)

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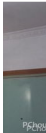
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