第三周作业

1.基于docker-compose实现对nginx+tomcat web服务的单机编排(第二周已做) 2.安装gitlab、创建group、user和project并授权 3.熟练git命令的基本使用,通过git命令实现源代码的clone、push等基本操作 4.熟练掌握对gitlab服务的数据备份与恢复 5.部署jenkins服务器并安装gitlab插件、实现代码免秘钥代码clone

1. 安装gitlab、创建group、user和project并授权

1.1. 安装

1.1.1. 安装报错

```
1 root@gitlab-01:~# dpkg -i gitlab-ce 15.4.3-ce.0 amd64.deb
2 Selecting previously unselected package gitlab-ce.
3 (Reading database ... 66366 files and directories currently installed.)
4 Preparing to unpack gitlab-ce 15.4.3-ce.0 amd64.deb ...
5 Unpacking gitlab-ce (15.4.3-ce.0) ...
6 Setting up gitlab-ce (15.4.3-ce.0) ...
7 [2022-11-12T07:00:19+00:00] WARN: Please install an English UTF-8 locale for Chef
   Infra Client to use, falling back to C locale and disabling UTF-8 support.
8 It looks like there was a problem with public attributes; run gitlab-ctl reconfigure
   manually to fix.
9 dpkg: error processing package gitlab-ce (--install):
10 installed gitlab-ce package post-installation script subprocess returned error exit
11 Errors were encountered while processing:
12 gitlab-ce
13 root@gitlab-01:~#
15 #报错由于没有en语言包, 需要安装。
16 #查看当前语言包
17 root@gitlab-01:~# locale -a
18 C
19 C.utf8
20 POSIX
21 zh CN.utf8
22 zh HK.utf8
23 zh SG.utf8
24 zh TW.utf8
25 #卸载并中文包并安装en语言包
26 root@gitlab-01:~# apt-get purge locales
27 root@gitlab-01:~# apt-get purge language-pack-en
28 root@gitlab-01:~# apt-get install locales
29 root@gitlab-01:~# apt-get install language-pack-en
30 root@gitlab-01:~# locale -a
32 C.utf8
33 POSIX
34 en AG
```

```
35 en AG.utf8
36 en AU.utf8
37 en BW.utf8
38 en CA.utf8
39 en_DK.utf8
40 en GB.utf8
41 en HK.utf8
42 en IE.utf8
43 en IL
44 en IL.utf8
45 en IN
46 en IN.utf8
47 en NG
48 en NG.utf8
49 en_NZ.utf8
50 en PH.utf8
51 en SG.utf8
52 en US.utf8
53 en ZA.utf8
54 en ZM
55 en ZM.utf8
56 en ZW.utf8
```

1.1.2. 执行安装gitlab

```
1 root@gitlab-01:~# dpkg -i gitlab-ce 15.4.3-ce.0 amd64.deb
2 Selecting previously unselected package gitlab-ce.
3 (Reading database ... 66480 files and directories currently installed.)
4 Preparing to unpack gitlab-ce 15.4.3-ce.0 amd64.deb ...
5 Unpacking gitlab-ce (15.4.3-ce.0) ...
6 Setting up gitlab-ce (15.4.3-ce.0) ...
7 It looks like GitLab has not been configured yet; skipping the upgrade script.
9
       * .
                        * .
      ***
                       ***
      ****
      *****
                      *****
      *****
                      *****
13
14
    16
17
       ,,,,,,,,*****,,,,,,,,,,,
18
          ,,,,,,,****
            .,,,***,,,,
19
               ,*,.
23
24
      / ____(_) /_/ / ______//_
     / / __/ / __/ / __ `/ __
26
     / /_/ / / /_/ /___/ /__/ /_/ /
     \___/_/\__/\__/
```

```
Thank you for installing GitLab!

GitLab was unable to detect a valid hostname for your instance.

Please configure a URL for your GitLab instance by setting 'external_url'

configuration in /etc/gitlab/gitlab.rb file.

Then, you can start your GitLab instance by running the following command:

sudo gitlab-ctl reconfigure

For a comprehensive list of configuration options please see the Omnibus GitLab readme

https://gitlab.com/gitlab-org/omnibus-gitlab/blob/master/README.md

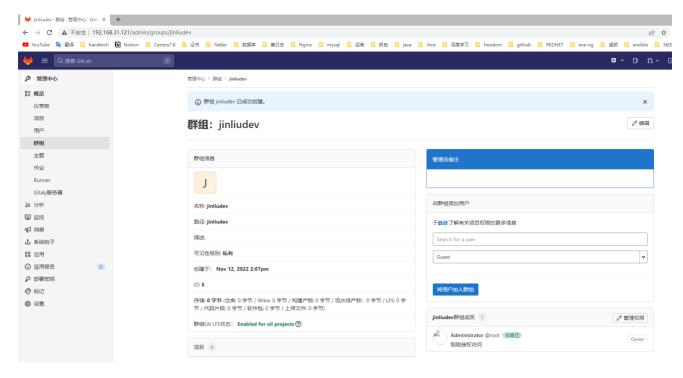
Help us improve the installation experience, let us know how we did with a 1 minute survey:

https://gitlab.fral.qualtrics.com/jfe/form/SV_6kVqZANThUQ1bZb?
installation=omnibus&release=15-4
```

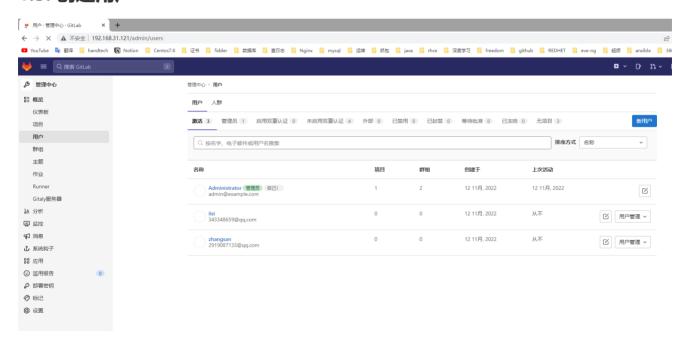
1.1.3. 修改配置

```
1 external_url 'http://192.168.31.121'
2 gitlab_rails['smtp_enable'] = true
3 gitlab_rails['smtp_address'] = "smtp.qq.com"
4 gitlab_rails['smtp_port'] = 465
5 gitlab_rails['smtp_user_name'] = "1564229817@qq.com"
6 gitlab_rails['smtp_password'] = "************
7 gitlab_rails['smtp_domain'] = "qq.com"
8 gitlab_rails['smtp_authentication'] = "login"
9 gitlab_rails['smtp_enable_starttls_auto'] = true
10 gitlab_rails['smtp_tls'] = true
11 gitlab_rails['gitlab_email_from'] = '1564229817@qq.com'
12 user['git_user_email'] = "1564229817@qq.com"
```

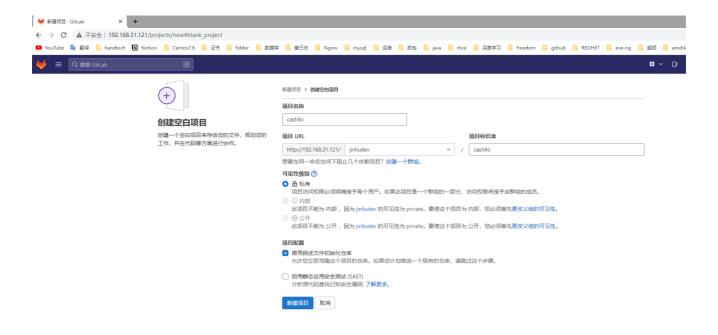
1.2. 创建group



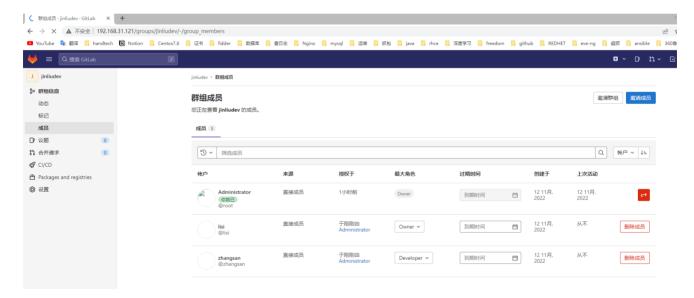
1.3. 创建用户



1.4. 创建项目



1.5. 授权



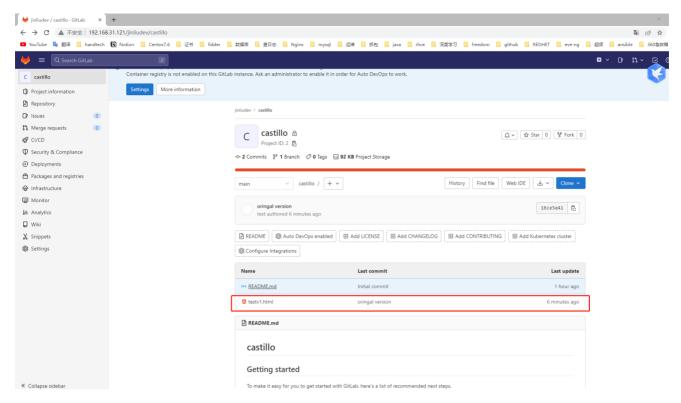
2. 熟练git命令的基本使用,通过git命令实现源代码的clone、 push等基本操作

2.1. clone&push

```
#在开发机clone项目
castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest
$ git clone http://192.168.31.121/jinliudev/castillo.git
Cloning into 'castillo'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

```
11 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest
12 $ cd castillo/
14 #将代码上传
15 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
16 $ git add .
17
18 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
19 #设置备注
20 $ git commit -m "oringal version"
21 Author identity unknown
22
23 *** Please tell me who you are.
24
25 Run
26
2.7
    git config --global user.email "you@example.com"
28
    git config --global user.name "Your Name"
29
30 to set your account's default identity.
31 Omit --global to set the identity only in this repository.
33 fatal: unable to auto-detect email address (got 'castillo@DESKTOP-FAPNCRD.(none)')
34
35 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
36 $ git config --global user.email "test@gg.com"
38 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
39 $ git config --global user.name "test"
40
41 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
42 $ git commit -m "oringal version"
43 [main 16ce5e4] oringal version
44 1 file changed, 10 insertions (+)
45
   create mode 100644 testv1.html
46
47 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
48
49 #推送代码
50 $ git push
51 Enumerating objects: 4, done.
52 Counting objects: 100\% (4/4), done.
53 Delta compression using up to 2 threads
54 Compressing objects: 100% (3/3), done.
55 Writing objects: 100% (3/3), 389 bytes | 389.00 KiB/s, done.
56 Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
57 To http://192.168.31.121/jinliudev/castillo.git
58
     7526e1f..16ce5e4 main -> main
59
60 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
61 $
```

2.2. 验证结果



3. 熟练掌握对gitlab服务的数据备份与恢复

3.1. 简单回滚

```
1 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
2 $ git status
3 On branch main
4 Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
    (use "git pull" to update your local branch)
6
   nothing to commit, working tree clean
9 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
10 $ git pull
11 Updating 7526e1f..16ce5e4
12 Fast-forward
13 testv1.html | 10 +++++++
   1 file changed, 10 insertions (+)
15 create mode 100644 testv1.html
16
17 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
18 $ git add .
19
20 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
21 $ git commit -m "v2"
22 [main 3601a17] v2
23 1 file changed, 1 insertion(+)
24
25 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
```

```
26 $ git push
27 Enumerating objects: 5, done.
28 Counting objects: 100% (5/5), done.
29 Delta compression using up to 2 threads
30 Compressing objects: 100% (3/3), done.
31 Writing objects: 100% (3/3), 328 bytes | 328.00 KiB/s, done.
32 Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
33 To http://192.168.31.121/jinliudev/castillo.git
     16ce5e4..3601a17 main -> main
36 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
37 $ git reset --hard HEAD^
38 HEAD is now at 16ce5e4 oringal version
39
40 castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)
41 $
42
```

3.2. 关键命令

```
#git reset --hard HEAD^^ #git版本回滚, HEAD为当前版本,加一个^为上一个, ^^为上上一个版本
#git reflog #获取每次提交的ID, 可以使用--hard根据提交的ID进行版本回退
castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)

$ git reflog
16ce5e4 (HEAD -> main) HEAD@{0}: reset: moving to HEAD^
3601a17 (origin/main, origin/HEAD) HEAD@{1}: commit: v2
16ce5e4 (HEAD -> main) HEAD@{2}: pull: Fast-forward
7526e1f HEAD@{3}: reset: moving to HEAD^
16ce5e4 (HEAD -> main) HEAD@{4}: commit: oringal version
7526e1f HEAD@{5}: clone: from http://192.168.31.121/jinliudev/castillo.git

castillo@DESKTOP-FAPNCRD MINGW64 /c/devtest/castillo (main)

$ #git reset --hard <提交ID> #回退到指定id的版本
```

3.3. 其它命令

```
git config --global user.name "NAME" #设置全局用户名
git config --global user.email xxxx@yy.com #设置全局邮箱
git config --global --list #列出用户全局设置
# git branch #查看当前所处的分支
#git checkout -b develop #创建并切换到一个新分支
#git checkout develop #切换分支
git log #查看操作日志
vim .gitignore #定义忽略文件上传至gitlab

git clone #克隆代码到本地
git push #提交代码到服务器
git pull #更新本地代码
git pull #更新本地代码
git add index.html、abc/、 . #添加指定文件、目录或当前目录下所有数据到暂存区

git commit -m "xx" #提交文件到工作区
```

3.4. gitlab数据备份与恢复

3.4.1. 备份

```
1 root@gitlab-01:~# gitlab-ctl stop unicorn sidekiq
 2 root@gitlab-01:~# mkdir /opt/gitbackup
 3 root@gitlab-01:~# cd /opt/git
4 gitbackup/ gitlab/
5 root@gitlab-01:~# cd /opt/gitbackup/
 6 root@gitlab-01:/opt/gitbackup# gitlab-rake gitlab:backup:create
7 2022-11-12 17:30:40 +0000 -- Dumping main database ...
8 Dumping PostgreSQL database gitlabhq production ... [DONE]
9 2022-11-12 17:30:43 +0000 -- Dumping main database ... done
10 2022-11-12 17:30:43 +0000 -- Dumping ci database ... [DISABLED]
11 2022-11-12 17:30:43 +0000 -- Dumping repositories ...
12 {"command": "create", "gl project path": "gitlab-instance-
    b269664d/Monitoring", "level": "info", "msg": "started
   create", "relative path": "@hashed/6b/86/6b86b273ff34fce19d6b804eff5a3f5747ada4eaa22f1d
   49c01e52ddb7875b4b.git", "storage name": "default", "time": "2022-11-12T17:30:44.757Z"}
13 {"command":"create", "gl project path": "gitlab-instance-
   b269664d/Monitoring.wiki", "level": "info", "msg": "started
    create", "relative path": "@hashed/6b/86/6b86b273ff34fce19d6b804eff5a3f5747ada4eaa22f1d
    49c01e52ddb7875b4b.wiki.git", "storage name": "default", "time": "2022-11-
   12T17:30:44.757Z"}
14 {"command":"create", "error": "manager: repository empty: repository
    skipped", "gl project path": "gitlab-instance-
    b269664d/Monitoring.wiki", "level": "warning", "msg": "skipped
    create", "relative path": "@hashed/6b/86/6b86b273ff34fce19d6b804eff5a3f5747ada4eaa22f1d
    49c0le52ddb7875b4b.wiki.git", "storage name": "default", "time": "2022-11-
    12T17:30:45.815Z"}
15 {"command":"create", "gl project path": "gitlab-instance-
    b269664d/Monitoring", "level": "info", "msg": "started
    create", "relative path": "@hashed/6b/86/6b86b273ff34fce19d6b804eff5a3f5747ada4eaa22f1d
    49c01e52ddb7875b4b.design.git","storage name":"default","time":"2022-11-
   12T17:30:45.816Z"}
16 {"command":"create", "error": "manager: repository empty: repository
    skipped", "gl project path": "gitlab-instance-
   b269664d/Monitoring", "level": "warning", "msg": "skipped
    create", "relative path": "@hashed/6b/86/6b86b273ff34fce19d6b804eff5a3f5747ada4eaa22f1d
    49c01e52ddb7875b4b.git", "storage name": "default", "time": "2022-11-12T17:30:45.833Z"}
17 {"command":"create","gl project path":"jinliudev/castillo","level":"info","msg":"star
    create", "relative path": "@hashed/d4/73/d4735e3a265e16eee03f59718b9b5d03019c07d8b6c51f
    90da3a666eec13ab35.git", "storage name": "default", "time": "2022-11-12T17:30:45.833Z"}
18 {"command":"create", "error": "manager: repository empty: repository
```

```
skipped", "gl_project path": "gitlab-instance-
    b269664d/Monitoring", "level": "warning", "msg": "skipped
    create", "relative path": "@hashed/6b/86/6b86b273ff34fce19d6b804eff5a3f5747ada4eaa22f1d
    49c01e52ddb7875b4b.design.git", "storage name": "default", "time": "2022-11-
    12T17:30:45.839Z"}
19 {"command":"create", "gl project path": "jinliudev/castillo.wiki", "level": "info", "msg":
    create", "relative path": "@hashed/d4/73/d4735e3a265e16eee03f59718b9b5d03019c07d8b6c51f
    90da3a666eec13ab35.wiki.git", "storage name": "default", "time": "2022-11-
    12T17:30:45.839Z"}
20 {"command":"create", "error": "manager: repository empty: repository
    skipped", "gl project path": "jinliudev/castillo.wiki", "level": "warning", "msg": "skipped
    create", "relative path": "@hashed/d4/73/d4735e3a265e16eee03f59718b9b5d03019c07d8b6c51f
    90da3a666eec13ab35.wiki.git", "storage name": "default", "time": "2022-11-
    12T17:30:45.926Z"}
21 {"command":"create", "gl project path": "jinliudev/castillo", "level": "info", "msg": "star
    create", "relative path": "@hashed/d4/73/d4735e3a265e16eee03f59718b9b5d03019c07d8b6c51f
    90da3a666eec13ab35.design.git", "storage name": "default", "time": "2022-11-
    12T17:30:45.926Z"}
22 {"command":"create", "error": "manager: repository empty: repository
    skipped", "gl project path": "jinliudev/castillo", "level": "warning", "msg": "skipped
    create", "relative path": "@hashed/d4/73/d4735e3a265e16eee03f59718b9b5d03019c07d8b6c51f
    90da3a666eec13ab35.design.git", "storage name": "default", "time": "2022-11-
    12T17:30:45.927Z"}
23 {"command":"create", "gl project path":"jinliudev/castillo", "level":"info", "msg":"comp
   leted
    create", "relative path": "@hashed/d4/73/d4735e3a265e16eee03f59718b9b5d03019c07d8b6c51f
    90da3a666eec13ab35.git", "storage name": "default", "time": "2022-11-12T17:30:46.149Z"}
24 2022-11-12 17:30:46 +0000 -- Dumping repositories ... done
25 2022-11-12 17:30:46 +0000 -- Dumping uploads ...
26 2022-11-12 17:30:46 +0000 -- Dumping uploads ... done
27 2022-11-12 17:30:46 +0000 -- Dumping builds ...
28 2022-11-12 17:30:46 +0000 -- Dumping builds ... done
29 2022-11-12 17:30:46 +0000 -- Dumping artifacts ...
30 2022-11-12 17:30:46 +0000 -- Dumping artifacts ... done
31 2022-11-12 17:30:46 +0000 -- Dumping pages ...
32 2022-11-12 17:30:46 +0000 -- Dumping pages ... done
33 2022-11-12 17:30:46 +0000 -- Dumping lfs objects ...
34 2022-11-12 17:30:46 +0000 -- Dumping lfs objects ... done
35 2022-11-12 17:30:46 +0000 -- Dumping terraform states ...
36 2022-11-12 17:30:46 +0000 -- Dumping terraform states ... done
37 2022-11-12 17:30:46 +0000 -- Dumping container registry images ... [DISABLED]
38 2022-11-12 17:30:46 +0000 -- Dumping packages ...
39 2022-11-12 17:30:46 +0000 -- Dumping packages ... done
40 2022-11-12 17:30:46 +0000 -- Creating backup archive:
   1668274240 2022 11 12 15.4.3 gitlab backup.tar ...
41 2022-11-12 17:30:46 +0000 -- Creating backup archive:
   1668274240 2022 11 12 15.4.3 gitlab backup.tar ... done
42 2022-11-12 17:30:46 +0000 -- Uploading backup archive to remote storage ...
   [SKIPPED]
43 2022-11-12 17:30:46 +0000 -- Deleting old backups ... [SKIPPED]
44 2022-11-12 17:30:46 +0000 -- Deleting tar staging files ...
```

```
45 2022-11-12 17:30:46 +0000 -- Cleaning up
   /var/opt/gitlab/backups/backup information.yml
46 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/db
47 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/repositories
48 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/uploads.tar.gz
49 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/builds.tar.gz
50 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/artifacts.tar.gz
51 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/pages.tar.gz
52 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/lfs.tar.gz
53 2022-11-12 17:30:46 +0000 -- Cleaning up
    /var/opt/gitlab/backups/terraform state.tar.gz
54 2022-11-12 17:30:46 +0000 -- Cleaning up /var/opt/gitlab/backups/packages.tar.gz
55 2022-11-12 17:30:46 +0000 -- Deleting tar staging files ... done
56 2022-11-12 17:30:46 +0000 -- Deleting backups/tmp ...
57 2022-11-12 17:30:46 +0000 -- Deleting backups/tmp ... done
58 2022-11-12 17:30:46 +0000 -- Warning: Your gitlab.rb and gitlab-secrets.json files
   contain sensitive data
59 and are not included in this backup. You will need these files to restore a backup.
60 Please back them up manually.
61 2022-11-12 17:30:46 +0000 -- Backup 1668274240 2022 11 12 15.4.3 is done.
62 root@gitlab-01:/opt/gitbackup# gitlab-ctl start unicorn sidekiq
63
64 #加上配置文件
65 /var/opt/gitlab/nginx/conf #nginx配置文件
66 /etc/gitlab/gitlab.rb #gitlab配置文件
67 /etc/gitlab/gitlab-secrets.json #key文件
68
69 root@gitlab-01:/opt/gitbackup# cp /var/opt/gitlab/nginx/conf/nginx.conf ./
70 root@gitlab-01:/opt/gitbackup# cp /etc/gitlab/gitlab.rb ./
71 root@gitlab-01:/opt/gitbackup# cp /etc/gitlab/gitlab-secrets.json ./
72 root@gitlab-01:/opt/gitbackup#
```

3.4.2. 恢复

```
#恢复
root@gitlab-01:/opt/gitbackup# gitlab-ctl stop unicorn sidekiq
root@gitlab-01:/opt/gitbackup# gitlab-rake gitlab:backup:restore
BACKUP=1668274240_2022_11_12_15.4.3
.....

2022-11-12 18:05:12 +0000 -- Cleaning up
/var/opt/gitlab/backups/terraform_state.tar.gz

2022-11-12 18:05:12 +0000 -- Cleaning up /var/opt/gitlab/backups/packages.tar.gz

2022-11-12 18:05:12 +0000 -- Deleting tar staging files ... done

2022-11-12 18:05:12 +0000 -- Deleting backups/tmp ...

2022-11-12 18:05:12 +0000 -- Deleting backups/tmp ... done

2022-11-12 18:05:12 +0000 -- Warning: Your gitlab.rb and gitlab-secrets.json files contain sensitive data

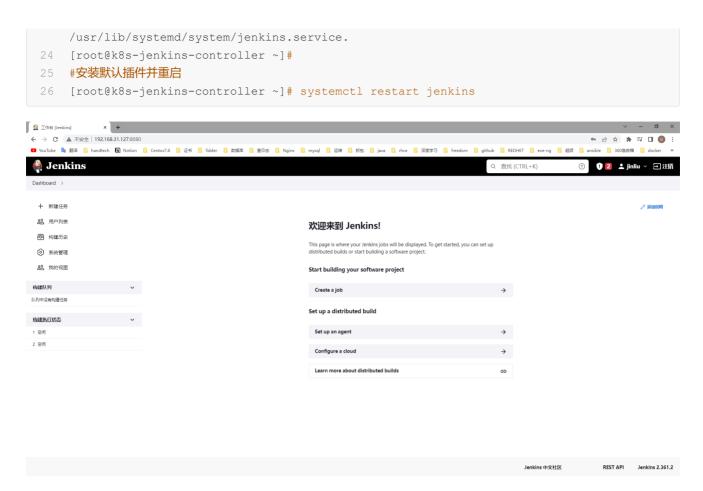
and are not included in this backup. You will need to restore these files manually.-+
2022-11-12 18:05:12 +0000 -- Restore task is done.

root@gitlab-01:/opt/gitbackup# gitlab-ctl start unicorn sidekiq
```

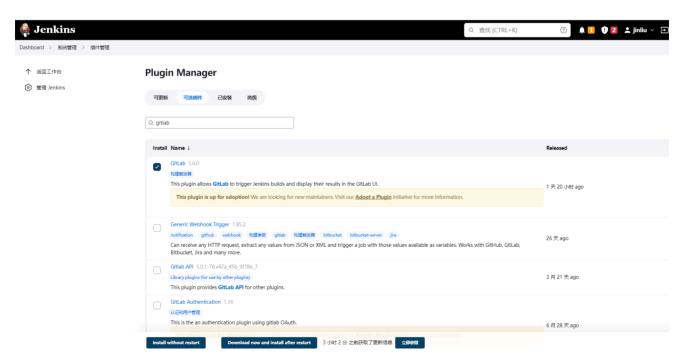
4. 部署jenkins服务器并安装gitlab插件、实现代码免秘钥代码clone

4.1. 安装jenkins

```
1 [root@k8s-jenkins-controller ~]# rpm -ivh jenkins-2.361.2-1.1.noarch.rpm
2 warning: jenkins-2.361.2-1.1.noarch.rpm: Header V4 RSA/SHA512 Signature, key ID
   45f2c3d5: NOKEY
3 Preparing...
                                       ########## [100%]
4 Updating / installing...
     1:jenkins-2.361.2-1.1
                                       ########### [100%]
6 [root@k8s-jenkins-controller ~] # yum install -y java-11-openjdk
8 #修改配置
9 [root@k8s-jenkins-controller ~] # vim /usr/lib/systemd/system/jenkins.service
10 # $JENKINS WEBROOT.
11 User=root
12 Group=root
14 # Arguments for the Jenkins JVM
15 Environment="JAVA OPTS=-Djava.awt.headless=true -
   Dhudson.security.csrf.GlobalCrumbIssuerConfiguration.DISABLE CSRF PROTECTION=true"
16 -----
   [root@k8s-jenkins-controller ~] # systemctl daemon-reload
18 [root@k8s-jenkins-controller ~] # systemctl start jenkins
19 [root@k8s-jenkins-controller ~] # ps -ef |grep jenkins
20 root 17696 1 99 17:07 ? 00:00:50 /usr/bin/java -
   Djava.awt.headless=true -
   Dhudson.security.csrf.GlobalCrumbIssuerConfiguration.DISABLE CSRF PROTECTION=true -
   jar /usr/share/java/jenkins.war --webroot=%C/jenkins/war --httpPort=8080
21 root 17844 16866 0 17:08 pts/0 00:00:00 grep --color=auto jenkins
22 [root@k8s-jenkins-controller ~]# systemctl enable jenkins
23 Created symlink from /etc/systemd/system/multi-user.target.wants/jenkins.service to
```



4.2. 安装gitlab插件



4.3. 代码免秘钥代码clone

4.3.1. 拷贝公钥

```
1 #将jenkis上ssh公钥拷贝至gitlab服务器
2 #ubuntu机器需要更改ssh配置文件,默认无法使用root登录!!!
3 [root@k8s-jenkins-controller ~] # ssh-copy-id 192.168.31.121
4 /usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/root/.ssh/id rsa.pub"
5 /usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out
   any that are already installed
6 /usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted
   now it is to install the new keys
7 root@192.168.31.121's password:
9 Number of key(s) added: 1
11 Now try logging into the machine, with: "ssh '192.168.31.121'"
12 and check to make sure that only the key(s) you wanted were added.
14 [root@k8s-jenkins-controller ~] # ssh root@192.168.31.121
15 Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-52-generic x86 64)
16
17 * Documentation: https://help.ubuntu.com
18
    * Management:
                    https://landscape.canonical.com
19 * Support:
                    https://ubuntu.com/advantage
20
21 This system has been minimized by removing packages and content that are
22 not required on a system that users do not log into.
23
24 To restore this content, you can run the 'unminimize' command.
25 Last login: Sun Nov 13 16:34:54 2022 from 192.168.31.127
26 root@gitlab-01:~# ^C
28 #拷贝至girlab前端
29 [root@k8s-jenkins-controller ~] # cat .ssh/id rsa.pub
   AAAAB3NzaC1yc2EAAAADAQABAAABAQDpCt4EQ2KfW3qrTdk2ARBN1nfFR+6Pf9s585WvtuZNoX9Rigmp7AVng
   +4cTm/VpDwo6HWlmwMSDucxHiT9HEhfHWwwbdflRP6UwC2zjIqsK6k7YZET+PvNJMyrFyNqMrRayN9fNwWIKz
   dMJ5PWjlWJy0frvmrd0TgbkMoOuoPHsea2GLvtgV6W74qOsz0LvlXu3vMeE+5sMIAUvNrD1b91eyNez3sz7ia
   YlpxQuqwbSdCcCUzSLYdvfYptnQJR9P03mNai9rcGef3oMoDvVY+uFMOmFROsKfmPjBpVlJCz7PiDMjNCbywt
   m/OPuM9RFK/zecKBvhmnDnxp9rL1E2Z7 root@k8s-jenkins-controller
31 [root@k8s-jenkins-controller ~]#
32 [root@k8s-jenkins-controller tmp]# git clone
   git@192.168.31.121:jinliudev/castillo.git
33 Cloning into 'castillo'...
34 remote: Enumerating objects: 9, done.
35 remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 9
36 Receiving objects: 100% (9/9), done.
37 Resolving deltas: 100% (1/1), done.
38 [root@k8s-jenkins-controller tmp] # ls -1
39 total 3308
40 drwxr-xr-x 3 root root
                               54 Nov 14 00:47 castillo
41 drwxr-xr-x. 2 root root
                              18 Nov 14 00:09 hsperfdata root
42 drwx----- 2 root root
                               6 Nov 14 00:09 jetty-0 0 0 0-8080-war- -any-
   4727860105485333804
43 drwx----- 3 root root 17 Nov 13 23:26 systemd-private-
```

```
691936fc0dc34e64a02aed698a63edc2-chronyd.service-xpHvTA

44 -rw-r--r 1 root root 3383324 Nov 14 00:09 winstone17659666405022763521.jar

45 [root@k8s-jenkins-controller tmp]# cd castillo/

46 [root@k8s-jenkins-controller castillo]# ls -1

47 total 12

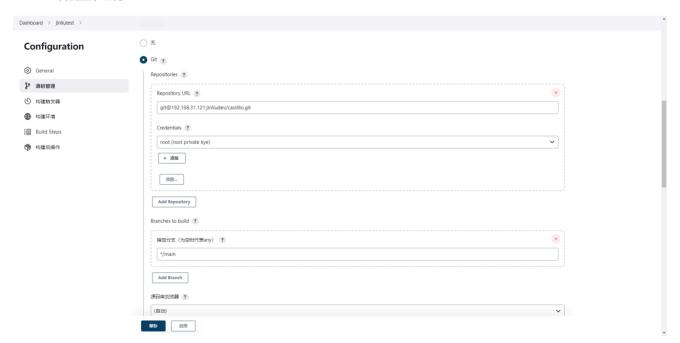
48 -rw-r--r 1 root root 6203 Nov 14 00:47 README.md

49 -rw-r--r 1 root root 186 Nov 14 00:47 testv1.html

50 [root@k8s-jenkins-controller castillo]#
```



4.3.2. 配置私钥

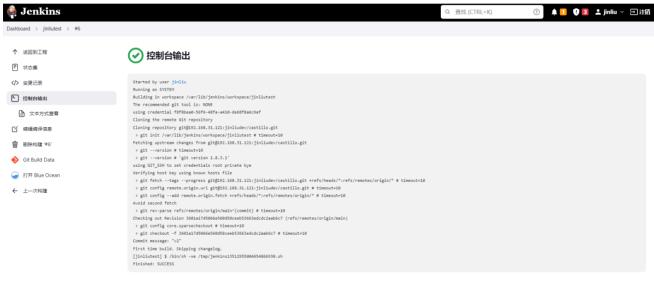


4.3.3. 验证通过git拉取

```
[root@k8s-jenkins-controller ~]# cd /var/lib/jenkins/workspace/
[root@k8s-jenkins-controller workspace]# ls -l

total 0
drwxr-xr-x. 3 root root 54 Nov 14 00:57 jinliutest
drwxr-xr-x 2 root root 6 Nov 14 00:57 jinliutest@tmp
[root@k8s-jenkins-controller workspace]# cd jinliutest
[root@k8s-jenkins-controller jinliutest]# ls -l
```

```
8 total 12
 9 -rw-r--r-- 1 root root 6203 Nov 14 00:57 README.md
 10 -rw-r--r-- 1 root root 186 Nov 14 00:57 testv1.html
 11 [root@k8s-jenkins-controller jinliutest]# cat testv1.html
 12 <!DOCTYPE html>
 13 <html lang="en">
 14 <head>
     <meta charset="UTF-8">
      <title>jinliu测试</title>
 16
17 </head>
 18 <body>
 19 <h1>测试v1版本</h1>
      <h1>测试v2版本</h1>
 21 </body>
22 </html>
 23 [root@k8s-jenkins-controller jinliutest]#
```



Jenkins 中文社区 REST API Jenkins 2.361.2