服务器配置

阿里云云服务器

- Centos 7
- 1核2G 1M带宽 40G云盘
- ip:47.94.129.13

Jenkins安装

下载repo

安装

• 在服务器上安装jdk11

```
yum install java-11-openjdk -y
java --version # 判断jdk是否安装成功
```

• 在jenkins官网上安装最新稳定版jenkins

认证失败解决办法sudo yum install -y cacertificates

```
sudo wget -0 /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key # yum下载 yum install epel-release # repository that provides 'daemonize'
```

yum install java-11-openjdk-devel yum install jenkins # 启动jenkins

systemctl start jenkins
systemctl enable jenkins

• vi /etc/sysconfig/jenkins 并修改端口为8082

```
$JENKINS_HOME location. Do not enable this, "true", unless
  you know what you're doing. See JENKINS-23273.
#JENKINS_INSTALL_SKIP_CHOWN="false"
## Type: string
## Default: "-Djava.awt.headless=true"
## ServiceRestart: jenkins
# Options to pass to java when running Jenkins.
JENKINS_JAVA_OPTIONS="-Djava.awt.headless=true"
## Type:
                integer(0:65535)
## Default:
                8080
## ServiceRestart: jenkins
# Port Jenkins is listening on.
 Set to -1 to disable
#
JENKINS_PORT="8082"
## Type:
                string
## Default:
## ServiceRestart: jenkins
 IP address Jenkins listens on for HTTP requests.
 Default is all interfaces (0.0.0.0).
JENKINS_LISTEN_ADDRESS=""
## Type:
                integer(0:65535)
## Default:
## ServiceRestart: jenkins
```

• 访问8082端口,初始化服务

配置

端口修改失败?

https://blog.csdn.net /Lifereunion/article/ details/123430619

- 初始化账户
- 在jenkins全局配置中配置jdk、maven、git工具 (maven、git的安装过程略)
- jenkins插件配置(除默认推荐外的)

docker安装

ssh nodej s在Jenki ns网页里

```
sudo yum install docker-ce docker-ce-cli containerd.io

docker version
systemctl start docker && systemctl enable docker
```

mysql安装

```
wget https://dev.mysql.com/get/mysql80-community-release-el7-1.noarch.rpm
 #安装yum源
 yum localinstall mysql80-community-release-el7-1.noarch.rpm
 #更新yum源
 yum clean all
 yum makecache
 #开始安装MySQL
                                     这条命令报错的话,前
 yum install mysql-community-server
                                     面加上一条yum module
                                     disable mysql
 systemctl start mysqld.service
 systemctl enable mysqld.service
 cat /var/log/mysqld.log | grep passwd
 # 登录
 mysql -uroot -p
 # 修改密码
 ALTER USER 'root'@'localhost' IDENTIFIED BY 'your_password';
 #远程访问设置
 mysql> use mysql;
 mysql> update user set host='%' where user='root';
                                降低mysql 密码安全性
                                https://blog.csdn.net
                                /weixin 49891946/
nodejs安装
                                article/details/
                                120791640
```

```
# As root
curl -fsSL https://rpm.nodesource.com/setup_16.x | bash
# 安装nodejs
yum install -y nodejs
# 测试安装是否成功
node -v
npm -v
```

nginx安装

报错3:GPG key到期

登录后复制
The GPG keys listed
for the "MySQL 5.7
Community Server"
repository are
already installed but
they are not correct
for this package.

-. 更新GPG key

rpm --import https:// repo.mysql.com/RPM-GPG-KEY-mysql-2022

centos下yum方式安装 mysql5.7,Error: GPG check FAILED与Unable to find a match: mysql-communityserver https://blog.51cto. com/u_13691477/528548

```
这句不能执行,下面还
是能执行
sudo rpm -Uvh http://nginx.org/packages/centos/7/noarch/RPMS/nginx-release-centos-7-0.el7.ngx.noarch.rpm

# 安装nginx
sudo yum install -y nginx

# 设置开机自启动
sudo systemctl start nginx.service
sudo systemctl enable nginx.service
```

后端项目使用Jenkins创建流水线实现CI/CD

- 创建流水线项目 backend-pipeline
- 配置该流水线项目的Jenkinsfile
 - 。 项目代码与Jenkinsfile文件都保存在github仓库上便于版本管理
 - o Jenkinsfile文件内容如下:

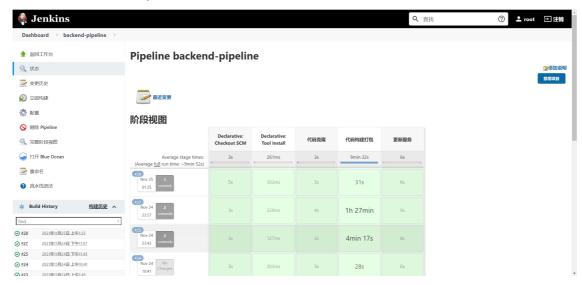
```
def VERSION = "v0"
def GITREPO = "git@github.com:zqrzxwkr-group/backend.git"
pipeline{
   agent { label 'master' }
   tools {
       jdk 'jdk11'
       maven 'maven3.6.3'
   }
    stages{
       stage("代码克隆"){
           steps{
               sh "cd /var/lib/jenkins/workspace/backend-pipeline && rm
-rf ./*"
               git branch: 'main', credentialsId: '1', url:
"${GITREPO}"
               echo "代码克隆完成"
           }
       }
       stage("代码构建打包"){
           steps{
               sh "cd /var/lib/jenkins/workspace/backend-
pipeline/backend && mvn clean package"
               echo "代码构建打包完成"
           }
       }
       stage("更新服务"){
               sh "cd /var/lib/jenkins/workspace/backend-
pipeline/backend"
               sh "chmod +x restart_jar.sh"
               sh "./restart_jar.sh"
               echo "更新服务"
           }
       }
   }
```

}

• 配置在服务器上面重启java服务的脚本 restart_jar.sh,内容如下:

```
export JENKINS_NODE_COOKIE=dontkillme
#!/bin/bash
APP_NAME=$(pwd)/backend/target/backend-0.0.1-SNAPSHOT.jar
#检查程序是否在运行
is_exist(){
 pid=`ps -ef|grep $APP_NAME|grep -v grep|awk '{print $2}'`
 #如果不存在返回1,存在返回0
 if [ -z "${pid}" ]; then
  return 1
 else
   return 0
 fi
}
#启动方法
start(){
 is_exist
 if [ $? -eq 0 ]; then
    echo "${APP_NAME} is already running. pid=${pid}"
 else
    echo "启动${APP_NAME}"
   nohup java -jar ${APP_NAME} > log.out 2>&1 &
   echo "启动结束"
 fi
}
#停止方法
stop(){
 is_exist
 if [ $? -eq "0" ]; then
   kill -9 $pid
    echo "${APP_NAME} is not running"
 fi
}
#输出运行状态
status(){
 is_exist
 if [ $? -eq "0" ]; then
   echo "${APP_NAME} is running. Pid is ${pid}"
    echo "${APP_NAME} is NOT running."
 fi
}
#重启
restart(){
 stop
 sleep 5
 start
}
```

• 配置完成后,每次在本地push代码后,只需在服务器上点击构建就能自动部署了



• 可以访问 http://47.94.129.13:8081/swagger-ui.html 来查看接口文档

前端项目部署

- 在本地执行 npm run build 命令打包
- 将打包生成的 / dist 文件夹里的 static 、 index.html 上传到服务器
- 修改 nginx.conf 配置

```
default [2].conf - 记事本
文件(F) 编辑(E) 格式(O) 视图(V) 帮助(H)

server {
    listen 80;
    server_name localhost;

#access_log /var/log/nginx/host.access.log main;

location / {
    root /etc/Front/dist;
    index index.html index.htm;
}
```

• 访问服务器的80端口,测试前端界面是否部署成功



前端部署成功