

Jenkins 环境

V1.0 版本 操作指南

西安金箍棒信息技术服务有限公司

西安市碑林区雁塔北路 67 号红锋商务大厦 4 层

目 录

一、商品说明.....	1
1、版本说明	1
2、安全加固	1
二、操作指南.....	1
1、Jenkins 环境信息	1
2、安全组开放相应的端口 8080	2
3、登录 Jenkins 服务器.....	3
4、Jenkins 配置信息	5
5、Jenkins 环境简单使用	6
6、常规错误如何排查.....	9
7、Jenkins 官方手册	10
三、技术支持.....	11
1、售后服务	11
2、服务范围	11

一、商品说明

1、版本说明

此镜像为 Jenkins 环境镜像，系统：Rockylinux（兼容 CentOS），更新时间为 2024 年 8 月。您可以一键快速搭建自己的 Jenkins 环境服务器。

2、安全加固

为进一步提升云服务的安全性，我公司对镜像产品实施了全面的安全加固，共计完成 88 项基线加固措施。这些精细化的安全改进，不仅确保我们的镜像产品严格符合等保 2.0 的安全标准，更在防御外部攻击、内部漏洞修复、数据加密保护等多个安全维度上实现了显著增强，为您的数据的安全存储与业务的平稳运行提供坚实保障。选择我们的镜像产品，意味着您将获得一个经过深度安全加固、符合高标准安全要求的云端解决方案，让您的业务在安全的护航下稳健运行。

如您的业务环境有其他安全需求，请与客服联系，我们可为您提供一对一定制服务。

二、操作指南

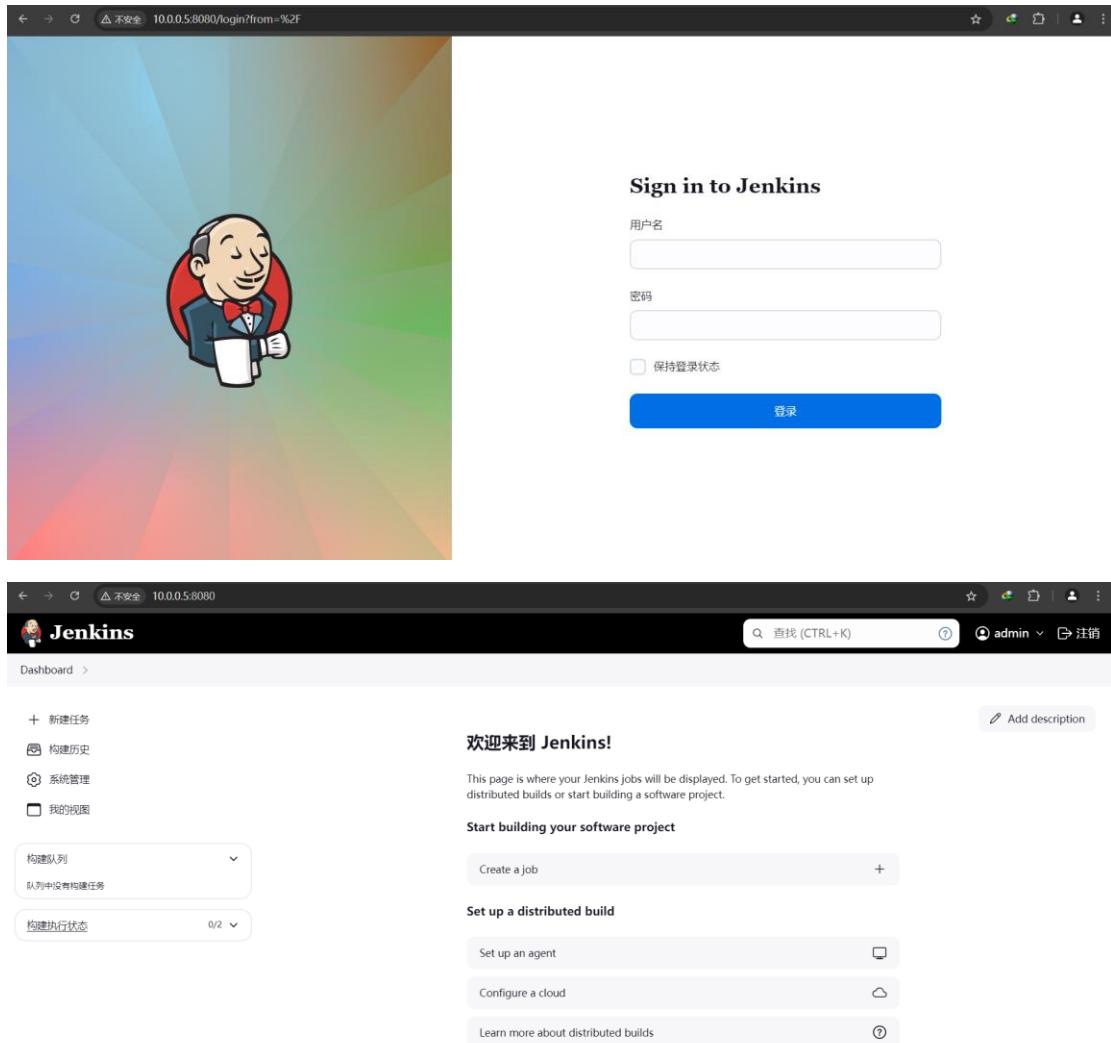
1、Jenkins 环境信息

wordpress 版本 2.48

外网地址：<http://公网 IP:8080>

用户名：admin

密码：123@.com



The image shows two screenshots of a Jenkins environment. The top screenshot is the 'Sign in to Jenkins' page, featuring a cartoon character logo and a 'Sign in' button. The bottom screenshot is the Jenkins dashboard, showing a 'Welcome to Jenkins!' message, a 'Create a job' button, and sections for 'Set up a distributed build' and 'Configure a cloud'.

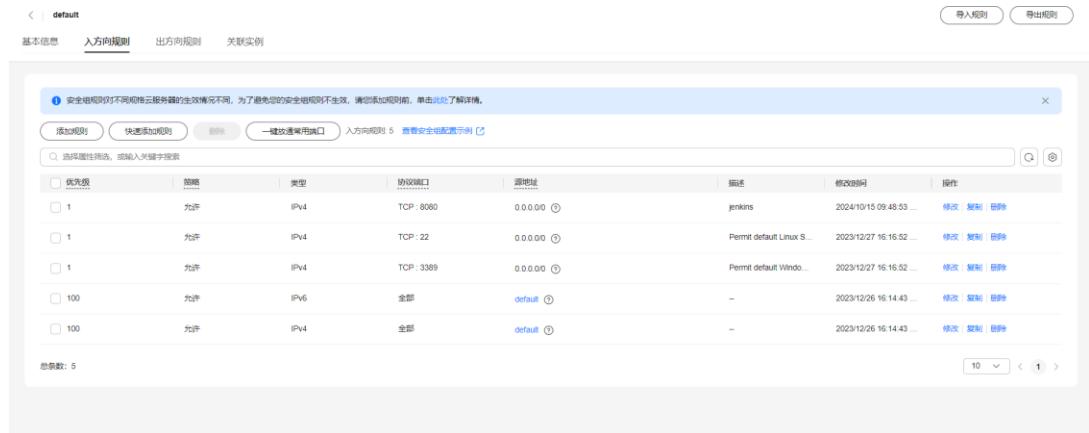
2、安全组开放相应的端口 8080

点击 ecs，点击安全组，入方向，手动添加



The image shows the 'Add Inbound Rule' dialog box for an ECS security group. It includes fields for 'Port' (8080), 'Protocol' (TCP), 'Source' (0.0.0.0/0), and a 'Name' field (jenkins). The dialog also contains a note about adding multiple rules and a 'Confirm' button.

允许 TCP、端口 8080、允许所有 IPv4, 保存即可。

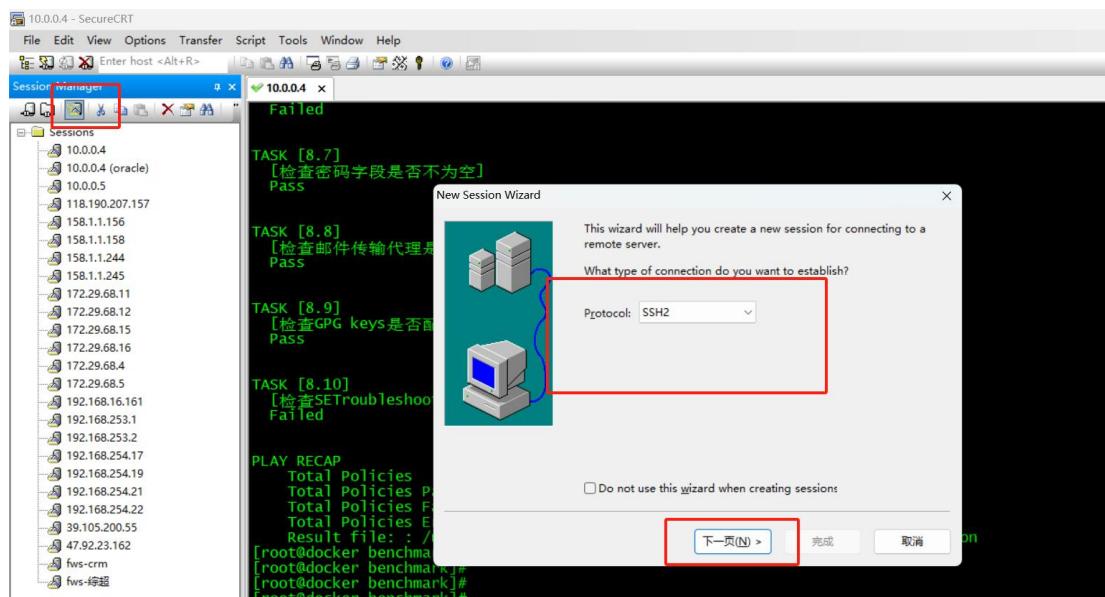


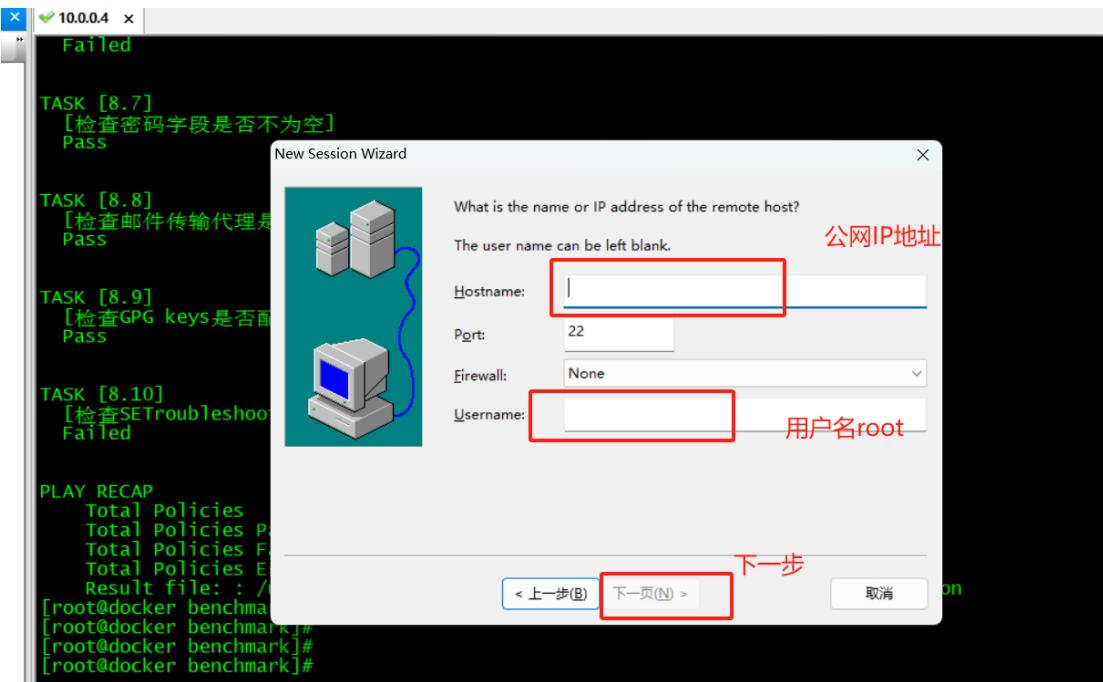
3、登录 Jenkins 服务器

修改 Jenkins 配置文件，登录服务器

使用 (Crt、putty、xshell 等远程工具进行链接)。

选择 ssh 协议、输入公网地址以及账户名密码，进行远程链接。





双击链接即可

```
cd /var/lib/jenkins/
```

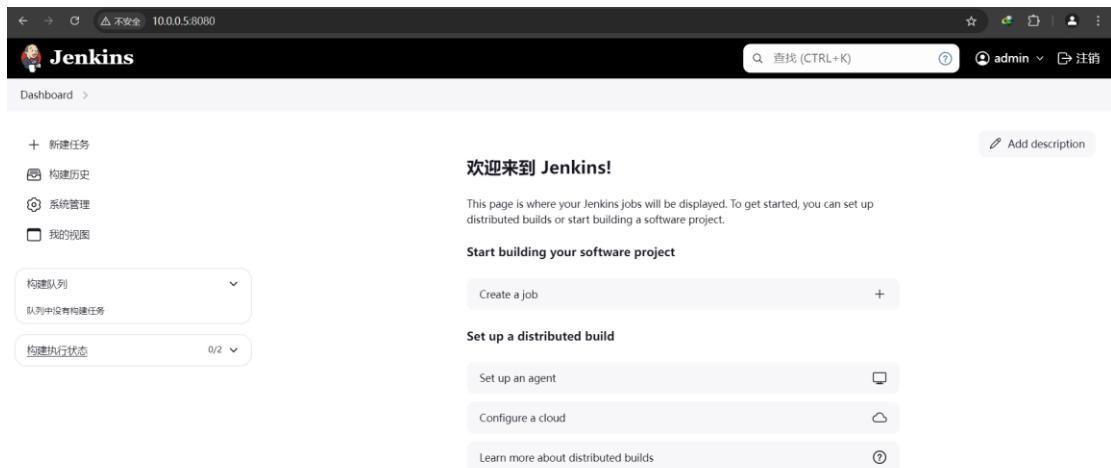
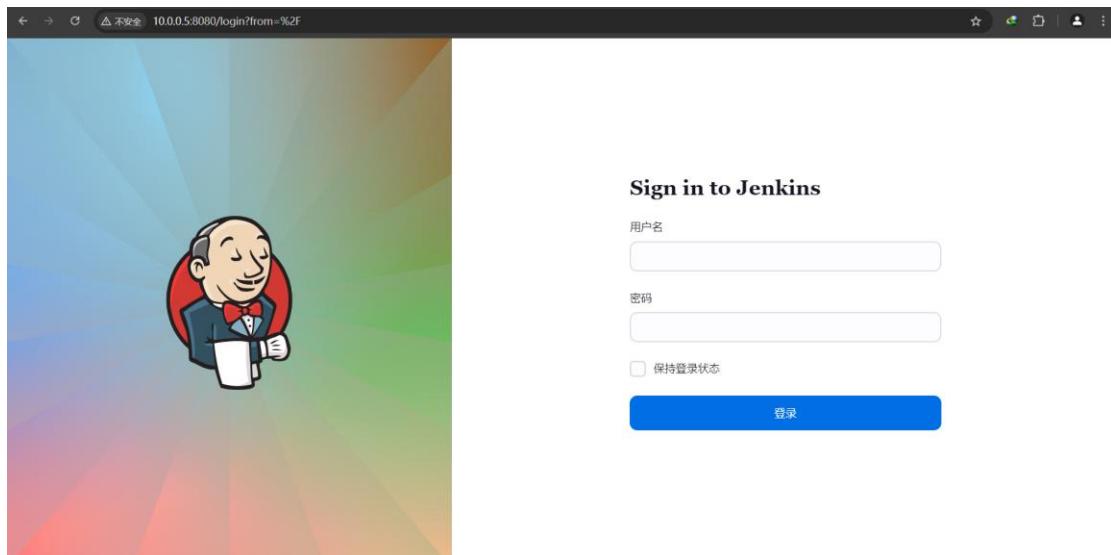
```
ll jenkins.model.JenkinsLocationConfiguration.xml
```

```
vi jenkins.model.JenkinsLocationConfiguration.xml
```

```
<?xml version='1.1' encoding='UTF-8'?>
<jenkins.model.JenkinsLocationConfiguration>
  <jenkinsUrl>http://10.0.0.5:8080/</jenkinsUrl>
</jenkins.model.JenkinsLocationConfiguration>
~
```

改成真实IP地址

打开浏览器，输入链接地址。http://公网 IP:8080



面板包含（新建任务、构建历史、系统管理、我的试图、构建队列）

4、Jenkins 配置信息

Jenkins 安装位置

/var/lib/Jenkins

```
[root@jenkins ~]# cd /var/lib/jenkins/
[root@jenkins jenkins]# pwd
/var/lib/jenkins
[root@jenkins jenkins]# ll
total 60
-rw-r--r-- 1 jenkins jenkins 1762 Oct 16 09:45 config.xml
-rw-r--r-- 1 jenkins jenkins 156 Oct 16 09:45 hudson.model.UpdateCenter.xml
-rw-r--r-- 1 jenkins jenkins 1223 Oct 9 10:25 hudson.plugins.emaiText.ExtendedEmailPublisher.xml
-rw-r--r-- 1 jenkins jenkins 370 Oct 9 09:59 hudson.plugins.git.GitTool.xml
-rw----- 1 jenkins jenkins 1680 Oct 9 09:59 identity.key.enc
-rw-r--r-- 1 jenkins jenkins 5 Oct 16 09:45 jenkins.install.InstallUtil.lastExecVersion
-rw-r--r-- 1 jenkins jenkins 5 Oct 9 10:03 jenkins.install.UpgradeWizard.state
-rw-r--r-- 1 jenkins jenkins 179 Oct 9 10:37 jenkins.model.JenkinsLocationConfiguration.xml
-rw-r--r-- 1 jenkins jenkins 171 Oct 9 09:53 jenkins.telemetry.Correlator.xml
drwxr-xr-x 2 jenkins jenkins 6 Oct 9 09:53 jobs
drwxr-xr-x 2 jenkins jenkins 32 Oct 9 10:00 logs
-rw-r--r-- 1 jenkins jenkins 1037 Oct 16 09:45 nodeMonitors.xml
drwxr-xr-x 93 jenkins jenkins 8192 Oct 9 09:59 plugins
-rw-r--r-- 1 jenkins jenkins 258 Oct 14 14:25 queue.xml.bak
-rw-r--r-- 1 jenkins jenkins 64 Oct 9 09:53 secret.key
-rw-r--r-- 1 jenkins jenkins 0 Oct 9 09:53 secret.key.not-so-secret
drwxr----- 2 jenkins jenkins 162 Oct 9 10:40 secrets
drwxr-xr-x 2 jenkins jenkins 149 Oct 14 09:55 updates
drwxr-xr-x 2 jenkins jenkins 24 Oct 9 09:53 userContent
drwxr-xr-x 3 jenkins jenkins 56 Oct 9 10:02 users
```

Jenkins 日志位置

/var/lib/jenkins/logs

```
[root@jenkins logs]# ll
total 4
-rw-r--r-- 1 jenkins jenkins 507 Oct 16 11:13 health-checker.log
[root@jenkins logs]# pwd
/var/lib/jenkins/logs
[root@jenkins logs]#
[root@jenkins logs]#
[root@jenkins logs]#
[root@jenkins logs]# pwd
/var/lib/jenkins/logs
[root@jenkins logs]# tail -f health-checker.log
Starting health checks at Wed Oct 16 11:14:39 CST 2024
Health check results at Wed Oct 16 11:14:39 CST 2024:
  * disk-space: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:14:39.158+08:00}
  * plugins: Result{isHealthy=true, message="No failed plugins", duration=0, timestamp=2024-10-16T11:14:39.158+08:00}
  * temporary-space: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:14:39.158+08:00}
  * thread-deadlock: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:14:39.159+08:00}
```

5、Jenkins 环境简单使用

执行如下命令

Jenkins 启动

```
systemctl start jenkins
```

```
[root@jenkins jenkins]# systemctl start jenkins
[root@jenkins jenkins]#
```

Jenkins 查询状态

```
systemctl status jenkins
```

```
[root@jenkins jenkins]#
[root@jenkins jenkins]# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
  Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled)
  Active: active (running) since Wed 2024-10-16 09:45:07 CST; 1h 36min ago
    Main PID: 834 (java)
       Tasks: 45 (limit: 23596)
      Memory: 506.3M
         CPU: 834 /system.slice/jenkins.service
             └─834 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war/jenkins.war

Oct 16 09:45:07 jenkins jenkins[834]:          at hudson.PluginManager.doCheckUpdatesServer(PluginManager.java:212)
Oct 16 09:45:07 jenkins jenkins[834]:          at jenkins.DailyCheck.execute(DailyCheck.java:93)
Oct 16 09:45:07 jenkins jenkins[834]:          at hudson.model.AsyncPeriodicWork$lambda$doRun$0(AsyncPeriodicWork.java:100)
Oct 16 09:45:07 jenkins jenkins[834]:          at java.base/java.lang.Thread.run(Thread.java:840)
Oct 16 09:45:07 jenkins jenkins[834]: 2024-10-16 01:45:07.377+0000 [id=48]      INFO  hudson.util.RetryingFuture
Oct 16 09:45:07 jenkins jenkins[834]: 2024-10-16 01:45:07.381+0000 [id=48]      INFO  hudson.util.RetryingFuture
Oct 16 09:45:07 jenkins jenkins[834]: 2024-10-16 01:45:07.383+0000 [id=48]      SEVERE hudson.PluginManager
Oct 16 09:45:07 jenkins jenkins[834]: 2024-10-16 01:45:07.433+0000 [id=31]      INFO  jenkins.InitReactorStep
Oct 16 09:45:07 jenkins jenkins[834]: 2024-10-16 01:45:07.472+0000 [id=23]      INFO  hudson.lifecycle.Launcher
Oct 16 09:45:07 jenkins systemd[1]: Started Jenkins Continuous Integration Server.
```

Jenkins 关闭

```
systemctl stop Jenkins
```

```
[root@jenkins jenkins]#
[root@jenkins jenkins]# systemctl stop jenkins
[root@jenkins jenkins]#
[root@jenkins jenkins]#
[root@jenkins jenkins]#
[root@jenkins jenkins]#
```

Jenkins 重启

```
systemctl restart Jenkins
```

```
[root@jenkins jenkins]# systemctl restart jenkins
[root@jenkins jenkins]#
[root@jenkins jenkins]#
[root@jenkins jenkins]#
[root@jenkins jenkins]# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
  Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled)
  Active: active (running) since Wed 2024-10-16 11:24:10 CST; 10s ago
    Main PID: 2730 (java)
      Tasks: 53 (limit: 23596)
     Memory: 454.8M
      CGroup: /system.slice/jenkins.service
              └─2730 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/instance/war

Oct 16 11:24:14 jenkins jenkins[2730]:      at hudson.model.UpdateSite.updatedDirectlyNow(UpdateSite.java:212)
Oct 16 11:24:14 jenkins jenkins[2730]:      at hudson.PluginManager.checkUpdatesServer(PluginManager.java:216)
Oct 16 11:24:14 jenkins jenkins[2730]:      at hudson.util.Retriger.start(Retriger.java:62)
Oct 16 11:24:14 jenkins jenkins[2730]:      at hudson.PluginManager.doCheckUpdatesServer(PluginManager.java:220)
Oct 16 11:24:14 jenkins jenkins[2730]:      at jenkins.DailyCheck.execute(DailyCheck.java:93)
Oct 16 11:24:14 jenkins jenkins[2730]:      at hudson.model.AsyncPeriodicWork.lambda$doRun$0(AsyncPeriodicWork.java:100)
Oct 16 11:24:14 jenkins jenkins[2730]:      at java.base/java.lang.Thread.run(Thread.java:840)
Oct 16 11:24:14 jenkins jenkins[2730]: 2024-10-16 03:24:14.962+0000 [id=48]      INFO      hudson.util.Retriger
Oct 16 11:24:14 jenkins jenkins[2730]: 2024-10-16 03:24:14.972+0000 [id=48]      INFO      hudson.util.Retriger
Oct 16 11:24:14 jenkins jenkins[2730]: 2024-10-16 03:24:14.973+0000 [id=48]      SEVERE    hudson.PluginManager
[root@jenkins jenkins]#
```

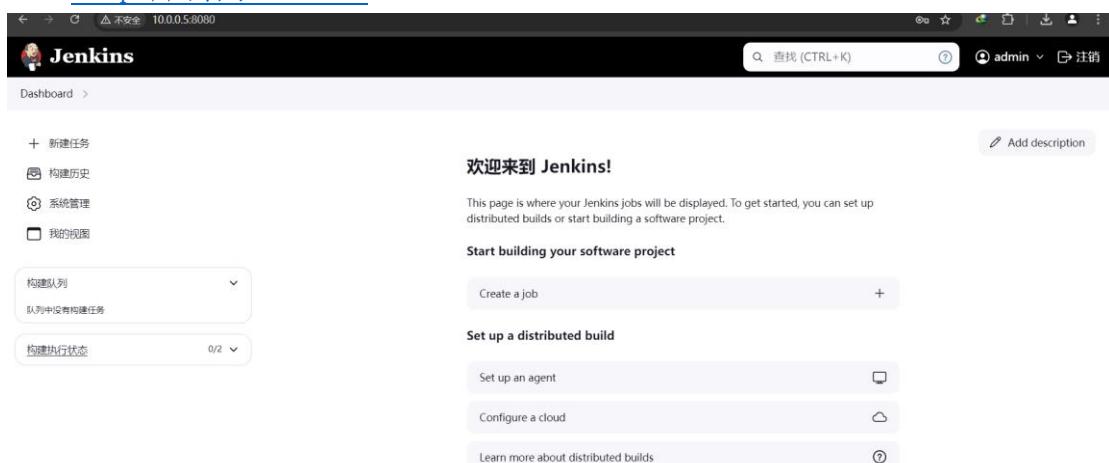
Jenkins 查询日志

```
tail -f /var/lib/jenkins/logs/health-checker.log
```

```
[root@jenkins jenkins]# cd logs/
[root@jenkins logs]# ll
total 4
-rw-r--r-- 1 jenkins jenkins 507 Oct 16 11:25 health-checker.log
[root@jenkins logs]# pwd
/var/lib/jenkins/logs
[root@jenkins logs]# tail -f health-checker.log
Starting health checks at Wed Oct 16 11:25:00 CST 2024
Health check results at Wed Oct 16 11:25:00 CST 2024:
* disk-space: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:25:00.343+08:00}
* plugins: Result{isHealthy=true, message>No failed plugins, duration=0, timestamp=2024-10-16T11:25:00.343+08:00}
}
* temporary-space: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:25:00.343+08:00}
* thread-deadlock: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:25:00.344+08:00}
```

修改用户密码

<http://公网 IP:8080>





Manage Jenkins

系统配置

全局工具配置

Clouds

Appearance

全局安全配置

凭据管理

凭据提供者配置

管理用户

10.0.0.5:8080/manage/computer

Dashboard > 系统管理 > Jenkins专有用户数据库

用户列表 1

+ Create User

User ID ↓

User ID	名称
admin	admin

这些用户能够登录到Jenkins。这是列表的子集，也包括那些只是提交了代码到某些项目但是从未登录Jenkins而自动创建的用户。

名称

admin

状态

构建

我的视图

Account

Appearance

Preferences

Security

Experiments

凭据

Security

API Token

当前 Token ?

没有属于当前用户名的 Token

添加新 Token

密码

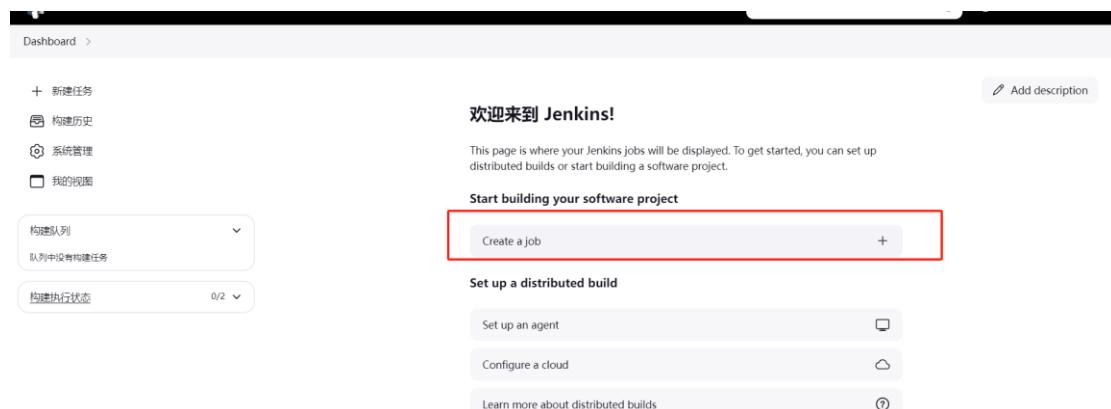
密码:

确认密码:

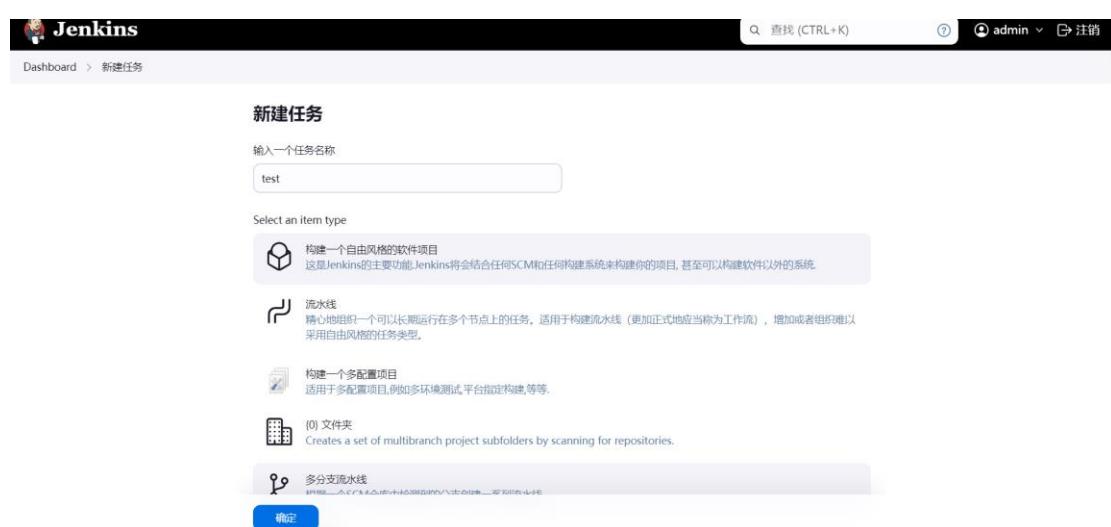
Save

应用

创建 test 项目

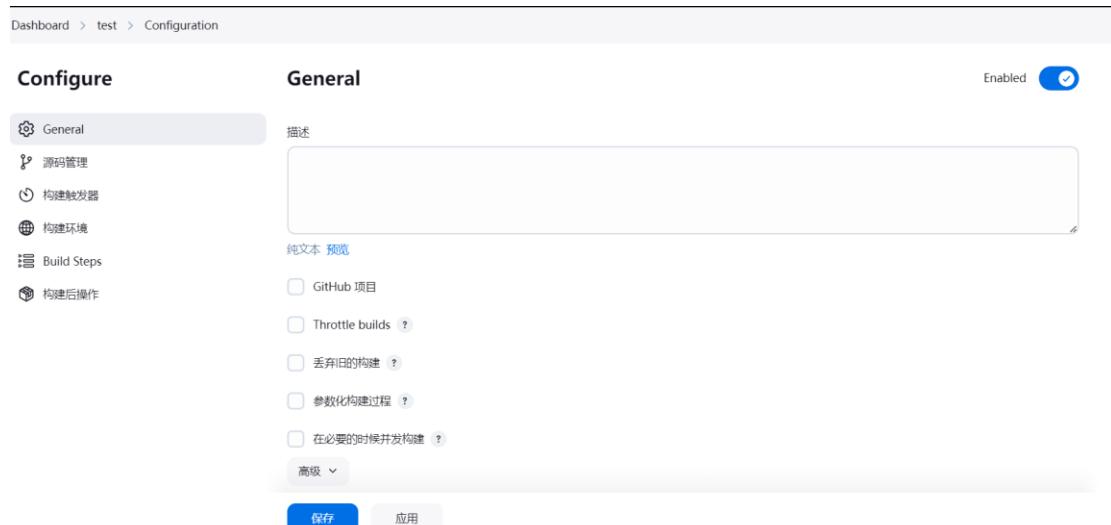


The screenshot shows the Jenkins dashboard. On the left, there are navigation links: 'Dashboard', '+ 新建任务', '构建历史', '系统管理', and '我的视图'. On the right, a message says '欢迎来到 Jenkins!' and 'This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.' Below this, a box is highlighted with a red border, containing the text 'Start building your software project' and a button 'Create a job'. Other options shown are 'Set up a distributed build', 'Create an agent', 'Configure a cloud', and 'Learn more about distributed builds'. At the bottom, there is a Jenkins logo, a search bar, and user information for 'admin'.



The screenshot shows the 'Create a new job' configuration page. The job name is 'test'. Under 'Select an item type', the '流水线' (Pipeline) option is selected, highlighted with a red box. Other options shown are '构建一个自由风格的软件项目' (Free-style software project), '构建一个多配置项目' (Multi-configuration project), and '(0) 文件夹' (Folder). A '确定' (Confirm) button is at the bottom.

对项目进行配置



The screenshot shows the configuration page for the 'test' job. The 'General' tab is selected. The 'Enabled' switch is turned on. The 'General' section includes a '描述' (Description) field, which is empty. Under '高级' (Advanced), there are several checkboxes: 'GitHub 项目', 'Throttle builds', '丢弃旧的构建', '参数化构建过程', and '在必要的时候并发构建'. At the bottom are '保存' (Save) and '应用' (Apply) buttons.

6、常规错误如何排查

首先重启相关服务是否正常。

jenkins:

```
systemctl restart jenkins
```

查看相关服务状态

jenkins:

```
systemctl status jenkins
```

查看相关服务的日志

jenkins:

Jenkins 日志位置

/var/lib/jenkins/logs

```
[root@jenkins logs]# ll
total 4
-rw-r--r-- 1 jenkins jenkins 507 Oct 16 11:13 health-checker.log
[root@jenkins logs]# pwd
/var/lib/jenkins/logs
[root@jenkins logs]#
[root@jenkins logs]#
[root@jenkins logs]# pwd
/var/lib/jenkins/logs
[root@jenkins logs]# tail -f health-checker.log
Starting health checks at Wed Oct 16 11:14:39 CST 2024
Health check results at Wed Oct 16 11:14:39 CST 2024:
  * disk-space: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:14:39.158+08:00}
  * plugins: Result{isHealthy=true, message=No failed plugins, duration=0, timestamp=2024-10-16T11:14:39.158+08:00}
}
  * temporary-space: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:14:39.158+08:00}
  * thread-deadlock: Result{isHealthy=true, duration=0, timestamp=2024-10-16T11:14:39.159+08:00}
```

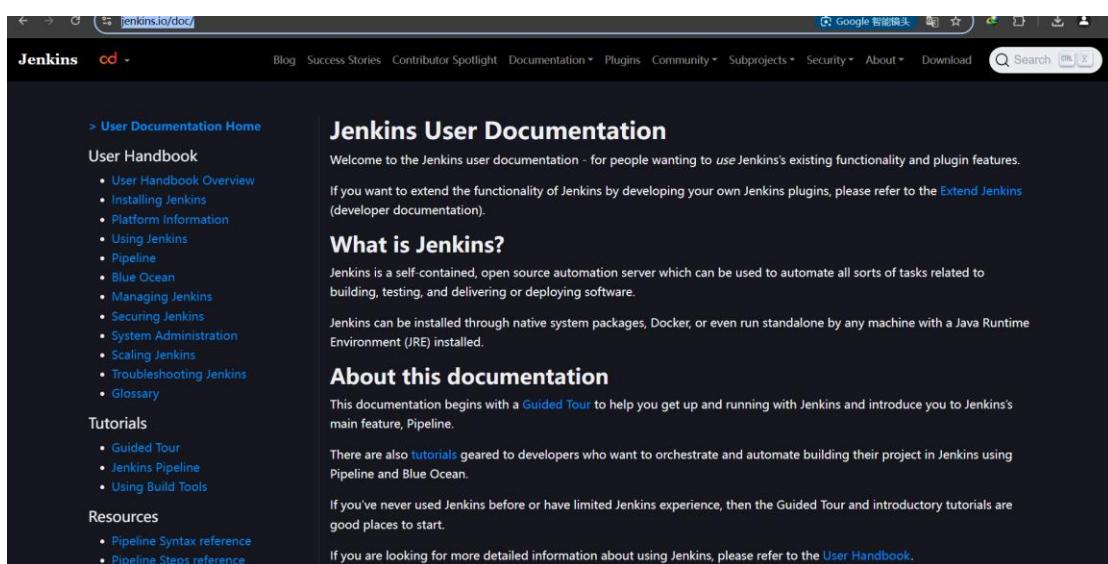
最后查看操作系统日志/var/log/messages

```
[root@java ~]#
[root@java ~]# tail -f /var/log/messages
Aug 13 14:00:06 java systemd[1]: Started system activity accounting tool.
Aug 13 14:10:06 java systemd[1]: Starting system activity accounting tool...
Aug 13 14:10:06 java systemd[1]: sysstat-collect.service: Succeeded.
Aug 13 14:10:06 java systemd[1]: Started system activity accounting tool...
Aug 13 14:20:49 java systemd[1]: Starting system activity accounting tool...
Aug 13 14:20:49 java systemd[1]: sysstat-collect.service: Succeeded.
Aug 13 14:20:49 java systemd[1]: Started system activity accounting tool.
Aug 13 14:30:06 java systemd[1]: Starting system activity accounting tool...
Aug 13 14:30:06 java systemd[1]: sysstat-collect.service: Succeeded.
Aug 13 14:30:06 java systemd[1]: Started system activity accounting tool.
```

7、Jenkins 官方手册

<https://www.jenkins.io/doc/>

浏览器输入链接信息。



Jenkins User Documentation

Welcome to the Jenkins user documentation - for people wanting to *use* Jenkins's existing functionality and plugin features.

If you want to extend the functionality of Jenkins by developing your own Jenkins plugins, please refer to the [Extend Jenkins](#) (developer documentation).

What is Jenkins?

Jenkins is a self-contained, open source automation server which can be used to automate all sorts of tasks related to building, testing, and delivering or deploying software.

Jenkins can be installed through native system packages, Docker, or even run standalone by any machine with a Java Runtime Environment (JRE) installed.

About this documentation

This documentation begins with a [Guided Tour](#) to help you get up and running with Jenkins and introduce you to Jenkins's main feature, Pipeline.

There are also [tutorials](#) geared to developers who want to orchestrate and automate building their project in Jenkins using Pipeline and Blue Ocean.

If you've never used Jenkins before or have limited Jenkins experience, then the Guided Tour and introductory tutorials are good places to start.

If you are looking for more detailed information about using Jenkins, please refer to the [User Handbook](#).

三、技术支持

1、售后服务

- (1) 您可以第一时间在华为云商店联系售后获取服务。
- (2) 服务时间：09:00-18:00（紧急情况请打电话）
- (3) 服务热线：18091296777、4009030002 转 15953
- (4) 服务邮箱：22958288@qq.com

2、服务范围

远程支持：如果您在使用过程中遇到技术操作问题，请及时联系客服，我们的工程师可远程协助您完成操作。

定制服务：本公司支持一对一定制服务，如您的业务环境有特殊需求，请与客服联系。

付费服务：本公司可提供镜像部署、故障处理、安全运维代维等一站式托管服务，全面涵盖服务器环境配置，网站程序调试，数据库配置更改，数据库权限、账户，系统安全加固，故障排查，系统调优，数据库优化等范围。如您有相关需求，请咨询客服。