前言

系统环境: Centos7、jdk1.8

私服是一种特殊的远程仓库,它是架设在局域网内的仓库服务,私服代理广域网上的远程仓库,供局域网内的用户使用。当Maven需要下载构件的时候,它从私服请求,如果 私服上不存在该构件,则从外部远程仓库下载,缓存在私服上之后,再为Maven的下载请求提供服务。

安装

一、安装maven 3.6.1

1. 下载maven

```
1 # wget下载maven3.6.1
2 [root@localhost home] # wget http://mirrors.tuna.tsinghua.edu.cn/apache/maven/maven-3/3.6.1/binaries/apache-maven-3.6.1-bin.tar.gz20
21 # 解压maven
22 [root@localhost home] # tar -zxvf apache-maven-3.6.1-bin.tar.gz 27
28 # 重命名maven
29 [root@localhost home] # mv apache-maven-3.6.1 maven
```

2.设置maven环境变量

```
1 # 修改环境变量增加maven

2 [root@localhost home] # vi /etc/profile

3

4 export MAVEN_HOME=/home/maven

6 export PATH=$MAVEN_HOME/bin:$PATH

6

7 # 重载生效

8 [root@localhost home] # source /etc/profile
```

3.验证maven

```
1 [root@localhost home]# mvn -v
2 Apache Maven 3.6.1 (d66c9c0b3152b2e69ee9bac180bb8fcc8e6af555; 2019-04-05T03:00:29+08:00)
3 Maven home: /home/maven
4 Java version: 1.8.0_221, vendor: Oracle Corporation, runtime: /home/jdk/jre
5 Default locale: zh_CN, platform encoding: UTF-8
6 OS name: "linux", version: "3.10.0-957.27.2.el7.x86 64", arch: "amd64", family: "unix"
```

二、安装Nexus3.11.0 maven私服

1.下载

```
1 # wget下载nexus的tar包
2 [root@localhost home]# wget http://sonatype-download.global.ssl.fastly.net/nexus/3/nexus-3.6.0-02-unix.tar.gz
3
4 # 解压
5 [root@localhost home]# tar -C nexus -zxvf nexus-3.6.0-02-unix.tar.gz
1 [root@localhost home]# cd nexus
2 [root@localhost nexus]# ls
3 nexus-3.6.0-02 sonatype-work
4 [root@localhost nexus]# mv nexus-3.6.0-02/ nexus
5
6 [root@localhost nexus]# ls -1
7 总用量 0
8 drwxr-xr-x. 9 root root 136 9月 19 13:11 nexus
9 drwxr-xr-x. 3 root root 20 9月 19 13:11 sonatype-work
```

2.修改nexus端口号

修改etc目录下nexus-default.properties文件

```
## DO NOT EDIT - CUSTOMIZATIONS BELONG IN $data-dir/etc/nexus.properties
##
# Jetty section
application-port=8000
application-host=0.0.0.
nexus-args=${jetty.etc}/jetty.ml,${jetty.etc}/jetty-http.xml,${jetty.etc}/jetty-requestlog.xml
nexus-context-path=/
# Nexus section
nexus-edition=nexus-pro-edition
nexus-features=\
nexus-features=\
nexus-pro-feature
```

3.修改maven运行jvm

修改bin目录下的nexus.vmoptions文件

```
[root@localhost bin]# cat nexus.vmoptions
-Xms1200M
-Xms1200M
-XX:MaxDirectMemorySize=26
-XX:+UnlockDiagnosticVMOptions
-XX:+Unsyncloadclass
-XX:+LogVMOutput
-XX:LogVMOutput
-XX:-OmitStackTraceInFastThrow
-Djava.net.preferIPv4Stack=true
-Dkaraf.home=.
-Dkaraf.base=.
-Dkaraf.base=.
-Dkaraf.base=.
-Dkaraf.ctc=etc/karaf
-Djava.util.logging.config.file=etc/karaf/java.util.logging.prop
-Dkaraf.data=../sonatype-work/nexus3
-Djava.io.tmpdir=../sonatype-work/nexus3/tmp
-Dkaraf.startLocalConsole=false
```

4.启动私服

此处警告:可以useradd nexus, 然后chown -R nexus:nexus/home/nexus 然后重启nexus解决 nexus start|stop|status|restart

5.浏览器打开http://192.168.8.10:8002/访问,默认密码admin/admin123。nexus启动很慢,耐心等待。



登录发现警告 "System Requirement: max file descriptors [4096] likely too low, increase to at least [65536]."

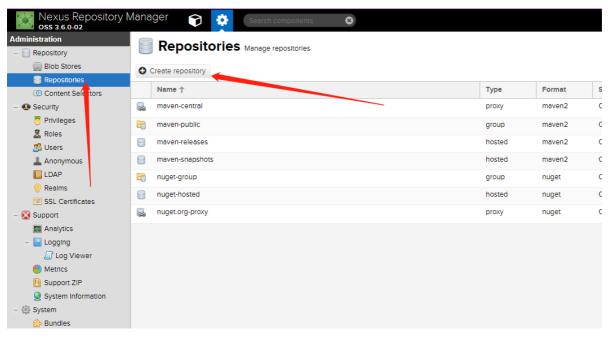
解决: vi /etc/security/limits.conf

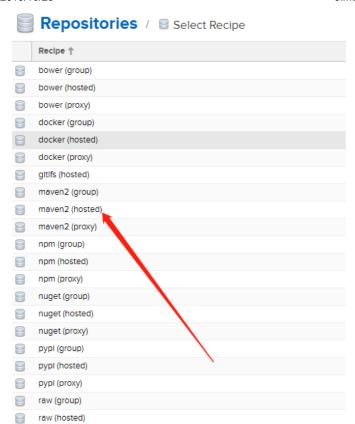
在文件末尾增加

- * soft nofile 65536
- * hard nofile 65536
- * soft nproc 4096
- * hard nproc 4096

重启nexus解决。

6.创建java仓库

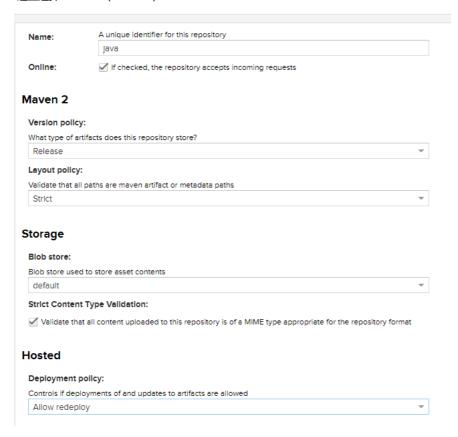




这里选择 maven2 (hosted)

rubygems (group)

raw (proxy)



maven配置:修改maven的settings.xml配置文件

```
<password>admin123</password>
          </server>
     </servers
     <!一组资源库的url地址 id和name自定义,mirrorOf的值设置为central,写死的一>
      #后续测试增加maven私服的配置后,无法拉取官方的jar包,注释掉解决问题
         <mirror>
<id>nexus</id>
                   chanks\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\files\
          </mirror>
            <mirror>
                    <id>alimaven</id>
                   (name)aliyun maven
<ur>
<ur>
(unl>http://maven.aliyun.com/nexus/content/groups/public/</url>
<ur>
<ur>
(mirror0f>central</mirror0f>

       </mirrors>
profiles>
     file>
       <id>jdk-1.8</id>
                          <activation>
                                    <activeByDefault>true</activeByDefault>
                                     <jdk>1.8</jdk>
                          </activation>
                           properties>
                                     <maven.compiler.source>1.8</maven.compiler.source>
                                   <maven.compiler.target>1.8/maven.compiler.target>
<maven.compiler.compilerVersion>1.8/maven.compiler.compilerVersion>
                          </properties>
      </profile>
       file>
            <id>noilie/
<id>nexus-java</id>
<!-- 远程仓库列表 -->
            <repositories>
            <repository>
<id>java</id>
               <name>Nexus Central</name>
            <!-- 虚拟的URL形式,指向镜像的URL-->
<url>http://192.168.8.10:8002/repository/java/</url>
               <layout>default</layout>
            <!-- 表示可以从这个仓库下载releases版本的构件-->
              <releases>
                    <enabled>true</enabled>
            </releases>
<!-- 表示可以从这个仓库下载snapshot版本的构件 -->
               <snapshots>
                    <enabled>true</enabled>
               </snapshots
          </repository>
  </repositories>
<!-- 插件仓库列表 -->
<pluginRepositories>
          <pluginRepository>
              <id>java</id>
               <name>Nexus Central</name>
               \label{lem:curl} $$ \sup_{http://192.168.8.10:8002/repository/java/</url> $$
              <layout>default</layout>
              <snapshots>
                   <enabled>true</enabled>
              <\!/snapshots>
              <releases>
                     <enabled>true</enabled>
          </releases>
</pluginRepository>
     </pluginRepositories>
     </profile>
</profiles>
     <activeProfiles>
            <!--需要激活 <profile>中的ID才生效-->
         <activeProfile>nexus-java</activeProfile>
<activeProfile>jdk-1.8</activeProfile>
     </activeProfiles>
     <!-- activeProfiles
| List of profiles that are active for all builds.
          <activeProfile>alwaysActiveProfile</activeProfile>
           <activeProfile>anotherAlwaysActiveProfile</activeProfile>
     </activeProfiles>
```

maven私服其他仓库建立及调用过程请参考: https://www.cnblogs.com/kongweifeng/p/9369936.html

常见错误问题:

1.未认证或认证失败:错误码401

```
[ERROR] Failed to execute goal org.apache.maven.plugins:maven-deploy-plugin:2.8.2:deploy (default-deploy) on project mingbytesiteapi: Failed to deploy artifacts: Con [ERROR]
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e switch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please read the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MojoExecutionException1
```

解决:maven的setting.xml配置文件中的server username和password未配置或者配置不正确