



CentOS7.9-Java 1.7 镜像使用帮助文档

1、镜像环境说明

镜像版本说明 操作系统: CentOS7.9 64 位

Java 运行环境 (CentOS 7.9 64 位 | Java 1.7 | nginx 1.16.1 | Tomcat 8)

1.1 镜像安装说明

镜像环境里相应软件的安装，是基于 CentOS 7 纯净版版的官方软件包安装配置，系统安全策略配置，系统调优、优化了相应功能。

在镜像环境中，所有软件包都是使用源码手工安装完成，您可以自由根据需求在 CentOS 7.9 系统中做自定义服务配置，安装后的环境跟全部属于默认配置。

1.2 软件默认配置:

Nginx 配置文件路径: /etc/nginx/nginx.conf

Java 路径: /usr/local/java

Tomcat 主配置文件: /usr/local/tomcat/conf/server.xml

2、软件目录及配置列表

所有软件都采用源码方式安装

Nginx 端口 80,

Tomcat 端口 8080;

3、软件操作命令汇总

Nginx: systemctl start|stop|restart nginx



```
[root@waoqi123 local]# systemctl status nginx
● nginx.service - The nginx HTTP and reverse proxy server
  Loaded: loaded (/usr/lib/systemd/system/nginx.service; disabled; vendor preset: disabled)
    Active: active (running) since Wed 2021-03-03 11:10:34 CST; 18min ago
      Process: 11887 ExecStart=/usr/sbin/nginx (code=exited, status=0/SUCCESS)
      Process: 11883 ExecStartPre=/usr/sbin/nginx -t (code=exited, status=0/SUCCESS)
      Process: 11881 ExecStartPre=/usr/bin/rm -f /run/nginx.pid (code=exited, status=0/SUCCESS)
    Main PID: 11890 (nginx)
       CGroup: /system.slice/nginx.service
           └─11890 nginx: master process /usr/sbin/nginx
             ├─11891 nginx: worker process
             ├─11892 nginx: worker process

Mar 03 11:10:34 waoqi123 systemd[1]: Starting The nginx HTTP and reverse proxy server...
Mar 03 11:10:34 waoqi123 nginx[11883]: nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
Mar 03 11:10:34 waoqi123 nginx[11883]: nginx: configuration file /etc/nginx/nginx.conf test is successful
Mar 03 11:10:34 waoqi123 systemd[1]: Started The nginx HTTP and reverse proxy server.
[root@waoqi123 local]#
```

Tomcat 需要 ps -ef | grep tomcat 查到进程号，选择 kill 进程号，再使用 startuo.sh 启动 tomcat

```
[root@waoqi123 local]# ps -ef|grep tomcat
root  11474  1  0 10:54 pts/0    00:00:05 /usr/local/java/bin/java -Djava.util.logging.config.file=/usr/local/apache-tomcat-8.5.28/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Djdk.tls.ephemeralDHKeySize=2048 -Djava.protocol.handler.pkgs=org.apache.catalina.webresources -Dignore.endorsed.dirs= -classpath /usr/local/apache-tomcat-8.5.28/bin/bootstrap.jar:/usr/local/apache-tomcat-8.5.28/bin/tomcat-juli.jar -Dcatalina.base=/usr/local/apache-tomcat-8.5.28 -Dcatalina.home=/usr/local/apache-tomcat-8.5.28 -Djava.io.tmpdir=/usr/local/apache-tomcat-8.5.28/temp org.apache.catalina.startup.Bootstrap start
root   11921 1604  0 11:31 pts/0    00:00:00 grep --color=auto tomcat
[root@waoqi123 local]# kill -9 11474
```

4、验证

Tomcat 验证页面: <http://ip:8080>

Nginx 验证页面: <http://ip>



CentOS

Welcome to CentOS
The Community ENTerprise Operating System

CentOS is an Enterprise-class Linux Distribution derived from sources freely provided to the public by Red Hat, Inc. for Red Hat Enterprise Linux. CentOS conforms fully with the upstream vendors redistribution policy and aims to be functionally compatible. (CentOS mainly changes packages to remove upstream vendor branding and artwork)

CentOS is developed by a small but growing team of core developers. In turn the core developers are supported by an active user community including system administrators, network administrators, enterprise users, managers, core Linux contributors and Linux enthusiasts from around the world.

CentOS has numerous advantages including: an active and growing user community, quickly rebuilt, tested, and QA'ed errata packages, an extensive mirror network, developers who are contactable and responsive, Special Interest Groups (SIGs) to add functionality to the core CentOS distribution, and multiple community support avenues including a wiki, IRC Chat, Email Lists, Forums, Bugs Database, and an FAQ.

Java 版本

```
[root@iZ8vb8h5pbkzf14k9xe16mZ local]# java -version
java version "1.7.0_79"
Java(TM) SE Runtime Environment (build 1.7.0_79-b15)
Java HotSpot(TM) 64-Bit Server VM (build 24.79-b02, mixed mode)
[root@iZ8vb8h5pbkzf14k9xe16mZ local]#
```

5、阿里云开放安全组

如图步骤依次点击到安全组配置

The screenshot shows the AliCloud ECS instance management interface. A context menu is open over an instance named 'i-bp121...'. The menu path is highlighted with red numbers: 1. '更多...' (More...) → 2. '网络和安全组' (Network and Security Groups) → 3. '安全组配置' (Security Group Configuration). The final step, '安全组配置', is also highlighted with a red box.

点击配置规则

The screenshot shows the AliCloud ECS instance detail page for an instance named 'i-bp121...'. On the left, there's a sidebar with navigation links like '云服务器 ECS', '事件', '标签', '自助问题排查', '发送命令/文件 (云助手)', '实例与快照', '实例', '镜像', '弹性容器实例 ECI', '专有宿主机 DDoH', '超级计算集群', '预留实例券', '资源保障', and '节省计划'. The main area shows the instance details with tabs for '实例详情', '监控', '安全组', '云盘', '快照', '远程命令/文件', '操作记录', and '健康诊断'. The '安全组' tab is selected. Below it, there are tabs for '内网入方向全网规则', '内网出方向全网规则', and '安全组列表'. Under '安全组列表', there are two buttons: '加入安全组' (Add to Security Group) and '替换安全组' (Replace Security Group). A table lists security groups with columns: '安全组ID/名称', '描述', '所属专有网卡', '安全组类型', and '操作'. One row in the table is highlighted with a red box and labeled '配置规则' (Configure Rules), which is also highlighted with a red arrow pointing to it.

点击公网入方向，点击手动添加，输入端口以及授权对象的 ip 点击保存即可



The screenshot shows a network security group configuration page. The '访问规则' (Access Rules) tab is selected. Under the '公网入方向' (Public Network Incoming Direction) section, there is a table with one row. The row details are: 操作 (Action) set to 允许 (Allow), 优先级 (Priority) set to 1, 协议类型 (Protocol Type) set to 自定义 TCP (Custom TCP), 目的 (Destination) set to 9080, and 源 (Source) set to 0.0.0.0/0. A red box highlights the destination and source fields.

6、配置 nginx 反向代理 tomcat（可选）

(1) 保证 nginx 以及 tomcat 是启动的

```
ps -ef|grep nginx
```

```
ps -ef|grep tomcat
```

```
[root@waoqil23 bin]# ps -ef|grep nginx
root    11890   1  0 11:10 ?        00:00:00 nginx: master process /usr/sbin/nginx
nginx   11891 11890  0 11:10 ?        00:00:00 nginx: worker process
nginx   11892 11890  0 11:10 ?        00:00:00 nginx: worker process
root    11985 1604  0 12:17 pts/0    00:00:00 grep --color=auto nginx
[root@waoqil23 bin]# ps -ef|grep tomcat
root    11474   1  0 10:54 pts/0    00:00:08 /usr/local/java/bin/java -Djava.util.logging.config.file=/usr/local/apache-tomcat-8.5.28/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Djdk.tls.ephemeralDHKeySize=2048 -Djava.protocol.handler.pkgs=org.apache.catalina.webresources -Dignore.endorsed.dirs= -classpath /usr/local/apache-tomcat-8.5.28/bin/bootstrap.jar:/usr/local/apache-tomcat-8.5.28/bin/tomcat-juli.jar -Dcatalina.base=/usr/local/apache-tomcat-8.5.28 -Dcatalina.home=/usr/local/apache-tomcat-8.5.28 -Djava.io.tmpdir=/usr/local/apache-tomcat-8.5.28/temp org.apache.catalina.startup.Bootstrap start
root    11987 1604  0 12:17 pts/0    00:00:00 grep --color=auto tomcat
[root@waoqil23 bin]#
```

(2) 修改 nginx 配置信息

```
vim /etc/nginx/nginx.conf
```

在 location / {} 里添加

```
proxy_pass http://ip:端口      ( tomcat 的 ip 和端口 )
```

(3) 重启 nginx

```
systemctl restart nginx
```

(4) 测试

浏览器访问 http://ip 即可看到 tomcat 页面

【公司简介】



北京众合云创科技有限公司，以技术服务为核心的技术性服务商，公司技术实力雄厚，企业核心人员，来自于BTA，拥有丰富的行业经验，以及扎实的技术功底，以及高效的团队管理经验。公司从软件定制开发，到后期安全运维服务，全方位为客户提供解决方案。节约客户成本，提高服务质量。

【声明】

- 1、镜像中如有收费软件，请根据软件官方说明购买使用版权，因版权问题产生的纠纷本公司概不负责。
- 2、镜像操作系统为公司定制，并经过反复测试验证，请参照商品详情中信息使用，免费镜像为客户体验使用，收费镜像为镜像制作费用，除镜像本身默认环境问题，均不含任何人工技术支持。
- 3、部分付费镜像有安全加固，但不保证服务器绝对安全，互联网中不存在绝对安全的服务器，请做好代码安全，并培养良好的使用习惯。

【售后问题】

- 1、如有软件不能正常使用的情况请联系在线技术支持；
- 2、如需在线技术支持，配置、调试、故障排查等参照本公司服务类商品定价，下单后联系技术支持；

【售后支持范围】

售后服务：初始环境不能正常使用；如有任何配置修改，不在售后支持范围；

售后服务时间：周一至周六 9: 00—20: 00 。

售后客服联系方式：15810196073 邮箱：hu.tang@waoqi.com

业务范围：服务器环境配置，故障排查（不含程序自身问题），数据库配置更改，数据库权限、账户，数据迁移，程序迁移，数据库故障排查等；

费用范围：详情参照本公司服务类商品定价，或咨询在线技术支持。