

apache-tomcat-8.5.27 相关配置

1、解压 tomcat 和 jdk

解压 tomcat 到/usr/local/目录下。

解压 jdk-8u161-linux-x64.tar.gz 到/usr/local/apache-tomcat-8.5.27/目录下。

```
[root@linux1 apache-tomcat-8.5.27]# pwd
/usr/local/apache-tomcat-8.5.27
[root@linux1 apache-tomcat-8.5.27]# ll
总用量 124
drwxrwxrwx 2 root root 4096 6月 8 10:36 bin
drwxrwxrwx 3 root root 4096 6月 8 09:12 conf
drwxrwxrwx 8 uucp 143 4096 12月 20 08:24 jdk1.8.0_161
drwxrwxrwx 2 root root 4096 6月 7 16:46 lib
-rwxrwxrwx 1 root root 58153 6月 7 16:45 LICENSE
drwxrwxrwx 3 root root 4096 6月 8 09:11 logs
-rwxrwxrwx 1 root root 1774 6月 7 16:46 NOTICE
-rwxrwxrwx 1 root root 7316 6月 7 16:46 RELEASE-NOTES
-rwxrwxrwx 1 root root 16722 6月 7 16:46 RUNNING.txt
drwxrwxrwx 2 root root 4096 6月 7 16:46 temp
drwxrwxrwx 8 root root 4096 6月 8 09:19 webapps
drwxrwxrwx 3 root root 4096 6月 7 16:46 work
```

2、配置指定 JDK 路径

编辑 apache-tomcat-8.5.27/bin/ setclasspath.sh

在开始位置添加 jdk 相对路径：

export JAVA_HOME=\$CATALINA_BASE/jdk1.8.0_161

export JRE_HOME=\$CATALINA_BASE/jdk1.8.0_161/jre

```
1 #!/bin/sh
2
3 # Licensed to the Apache Software Foundation (ASF) under one or more
4 # contributor license agreements. See the NOTICE file distributed with
5 # this work for additional information regarding copyright ownership.
6 # The ASF licenses this file to You under the Apache License, Version 2.0
7 # (the "License"); you may not use this file except in compliance with
8 # the License. You may obtain a copy of the License at
9 #
10 # http://www.apache.org/licenses/LICENSE-2.0
11 #
12 # Unless required by applicable law or agreed to in writing, software
13 # distributed under the license is distributed on an "AS IS" BASIS,
14 # WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
15 # See the License for the specific language governing permissions and
16 # limitations under the License.
17
18 # -----
19 # Set JAVA_HOME or JRE_HOME if not already set, ensure any provided settings
20 # are valid and consistent with the selected start-up options and set up the
21 # endorsed directory.
22 # -----
23 export JAVA_HOME=$CATALINA_BASE/jdk1.8.0_161
24 export JRE_HOME=$CATALINA_BASE/jdk1.8.0_161/jre
25 # Make sure prerequisite environment variables are set
26 if [ -z "$JAVA_HOME" -a -z "$JRE_HOME" ]; then
27     if $darwin; then
28         # Bugzilla 54390
29         if [ -x '/usr/libexec/java_home' ]; then
30             export JAVA_HOME='/usr/libexec/java_home'
31             # Bugzilla 37284 (reviewed).
32         elif [ -d "/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home" ]; then
33             export JAVA_HOME="/System/Library/Frameworks/JavaVM.framework/Versions/CurrentJDK/Home"
34         fi
35     else
36         JAVA_PATH=`which java 2>/dev/null`
37         if [ "$JAVA_PATH" != "" ]; then
38             JAVA_PATH=`dirname $JAVA_PATH 2>/dev/null`
39             JRE_HOME=`dirname $JAVA_PATH 2>/dev/null`
40         fi
41         if [ "$JRE_HOME" = "" ]; then
42             # XXXX: Should we try other locations?
43             if [ -x /usr/bin/java ]; then
44                 JRE_HOME=/usr
45             fi
46         fi
47     fi
48 fi
```

- 3、配置参数，使 tomcat 能够自动 shutdown 而不用手动 kill 掉

编辑apache-tomcat-8.5.27/bin/shutdown.sh，修改最后一行：

原来：exec "\$PRGDIR"/"\$EXECUTABLE" stop "\$@"

修改为：exec "\$PRGDIR"/"\$EXECUTABLE" stop -force "\$@"

```
51 else
52   if [ ! -x "$PRGDIR"/"$EXECUTABLE" ]; then
53     echo "Cannot find $PRGDIR/$EXECUTABLE"
54     echo "The file is absent or does not have execute permission"
55     echo "This file is needed to run this program"
56     exit 1
57   fi
58 fi
59
60 exec "$PRGDIR"/"$EXECUTABLE" stop -force "$@"
```

在apache-tomcat-8.5.27/bin/catalina.sh脚中，在PRGDIR=`dirname "\$PRG"`后面加上：

```
if [ -z "$CATALINA_PID" ]; then
  CATALINA_PID=$PRGDIR/CATALINA_PID
  cat $CATALINA_PID
fi
```

```
131 PRG=`dirname "$PRG"`/"$link"
132 fi
133 done
134
135 # Get standard environment variables
136 PRGDIR=`dirname "$PRG"`
137
138 if [ -z "$CATALINA_PID" ]; then
139   CATALINA_PID=$PRGDIR/CATALINA_PID
140 fi
141
142 fi
143
144 # Only set CATALINA_HOME if not already set
```

- 4、修改端口号

A、HTTP端口，默认8080，如下改为8088：

```
<Connector port="8088" protocol="HTTP/1.1" connectionTimeout="20000" redirectPort="8443" />
```

其中，8088 为 http 端口，8443 为 https 端口。

B、远程停服务端口，默认8005，如下改为8006：

```
<Server port="8006" shutdown="SHUTDOWN">
```

其中，8006 为远程停服务端口。

C、AJP端口，默认8009，如下改为8010：

```
<Connector port="8010" protocol="AJP/1.3" redirectPort="8443" />
```

其中，8010 为 AJP 端口，APACHE 能通过 AJP 协议访问 TOMCAT 的 8009 端口。

- 5、配置用户，使用户能够通过 <http://ip:port/> 登录 tomcat，并上传 war 包

编辑/usr/local/apache-tomcat-8.5.27/conf/tomcat-users.xml

在标签<tomcat-users> </tomcat-users>中加入：

```

<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-jmx"/>
<role rolename="manager-status"/>
<user username="admin" password="admin" roles="manager-gui,manager-
-script,manager-jmx,manager-status"/>

```

修改上传 war 包的最大限制:

编辑 apache-tomcat-8.5.27/webapps/manager/WEB-INF/web.xml, 修改 max-file-size 和 max-request-size, 默认为 50M。

```

30 <!--
31 NOTE: The sample user and role entries below are intended for use with the
32 examples web application. They are wrapped in a comment and thus are ignored
33 when reading this file. If you wish to configure these users for use with the
34 examples web application, do not forget to remove the <!-- ... --> that surrounds
35 them. You will also need to set the passwords to something appropriate.
36 -->
37 <!--
38 <role rolename="tomcat"/>
39 <role rolename="role1"/>
40 <user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
41 <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
42 <user username="role1" password="<must-be-changed>" roles="role1"/>
43 </tomcat-users>
44 <role rolename="manager-gui"/>
45 <role rolename="manager-script"/>
46 <role rolename="manager-jmx"/>
47 <role rolename="manager-status"/>
48 <user username="admin" password="admin" roles="manager-gui,manager-script,manager-jmx,manager-status"/>
49 </tomcat-users>

```

6、配置远程调试

a)、修改 catalina.sh

在 apache-tomcat-8.5.27/bin/catalina.sh 脚本中, 在开头注释结束都第一行添加

```
CATALINA_OPTS="-Xdebug -Xrunjdwp:transport=dt_socket,address=8000,server=y,suspend=n"
```

例如:

```

96 # LOGGING_CONFIG="-Djava.util.logging.config.file=${CATALINA_BASE}/conf/logging.properties"
97 #
98 # LOGGING_MANAGER (Optional) Override Tomcat's logging manager
99 # Example (add one line)
100 # LOGGING_MANAGER=Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager"
101 #
102 # UMASK (Optional) Override Tomcat's default UMASK of 0027
103 #
104 # USE_NOHUP (Optional) If set to the string true the start command will
105 # use nohup so that the Tomcat process will ignore any hangup
106 # signals. Default is "false" unless running on HP-UX in which
107 # case the default is "true"
108 #
109 # CATALINA_OPTS="-Xdebug -Xrunjdwp:transport=dt_socket,address=8000,server=y,suspend=n"
110 # OS specific support. $var _must_ be set to either true or false.
111 cygwin=false
112 darwin=false
113 os400=false
114 hpux=false
115 case "$uname" in
116   Darwin*) cygwin=true;;
117   Darwin*) darwin=true;;
118   OS400*) os400=true;;
119   HP-UX*) hpux=true;;
120   esac
121 # resolve links - $0 may be a softlink
122 PRG="$0"
123 while [ -h "$PRG" ]; do
124   ls=`ls -ld "$PRG"`
125   link=`expr "$ls" : '.*-> \(.*\) $'`
126   if expr "$link" : '/..' > /dev/null; then
127     PRG="$link"
128   else
129     PRG=`dirname "$PRG" "/"$link`
130   fi
131 done
132 # Get standard environment variables
133 PRGDIR=`dirname "$PRG"`
134 if [ -z "$CATALINA_PID" ]; then
135   CATALINA_PID=$PRGDIR/CATALINA_PID
136 fi

```

b)、在 apache-tomcat-8.5.27/bin/catalina.sh 脚本中，在下面判断中修改

原来：JPDA_ADDRESS="localhost:8000"

修改为：JPDA_ADDRESS="0.0.0.0:8000"

```
if [ -z "$JPDA_ADDRESS" ]; then
    JPDA_ADDRESS="0.0.0.0:8000"
fi
```

例如：

```
826 else
827     echo "Using JRE_HOME:      $JRE_HOME"
828 fi
829 echo "Using CLASSPATH:      $CLASSPATH"
830 if [ ! -z "$CATALINA_PID" ]; then
831     echo "Using CATALINA_PID:    $CATALINA_PID"
832 fi
833 fi
834
835
836
837 if [ "$1" = "jpda" ] ; then
838     if [ -z "$JPDA_TRANSPORT" ]; then
839         JPDA_TRANSPORT="dt_socket"
840     fi
841     if [ -z "$JPDA_ADDRESS" ]; then
842         JPDA_ADDRESS="0.0.0.0:8000"
843     fi
844     if [ -z "$JPDA_SUSPEND" ]; then
845         JPDA_SUSPEND="n"
846     fi
847     if [ -z "$JPDA_OPTS" ]; then
848         JPDA_OPTS="-agentlib:jdwp=transport=$JPDA_TRANSPORT,address=$JPDA_ADDRESS,server=y,suspend=$JPDA_SUSPEND"
849     fi
850     CATALINA_OPTS="$JPDA_OPTS $CATALINA_OPTS"
851     shift
852 fi
853
854 if [ "$1" = "debug" ] ; then
855     if $os400; then
856         echo "Debug command not available on OS400"
857         exit 1
858     else
859         shift
860         if [ "$1" = "--security" ] ; then
861             if [ $have_tty -eq 1 ]; then
862                 echo "Using Security Manager"
863             fi
```

c)、在 apache-tomcat-8.5.27/bin/catalina.sh 脚本中，最后一行

i.临时启动 tomcat 远程调试

在 tomcat/bin 目录下执行：

sh catalina.sh jpda start

ii.配置 tomcat 永久执行调试模式

原来：exec "\$PRGDIR"/"\$EXECUTABLE" start "\$@"

修改为：exec "\$PRGDIR"/"\$EXECUTABLE" jpda start "\$@"

例如：

```
42 EXECUTABLE=catalina.sh
43
44 # Check that target executable exists
45 if $os400; then
46     # -x will Only work on the os400 if the files are:
47     # 1. owned by the user
48     # 2. owned by the PRIMARY group of the user
49     # this will not work if the user belongs in secondary groups
50     eval
51 else
52     if [ ! -x "$PRGDIR"/"$EXECUTABLE" ]; then
53         echo "Cannot find $PRGDIR/$EXECUTABLE"
54         echo "The file is absent or does not have execute permission"
55         echo "This file is needed to run this program"
56         exit 1
57     fi
58 fi
59
60 # exec "$PRGDIR"/"$EXECUTABLE" start "$@"
61 exec "$PRGDIR"/"$EXECUTABLE" jpda start "$@"
```