### Saltstack实战安装jdk+tomcat

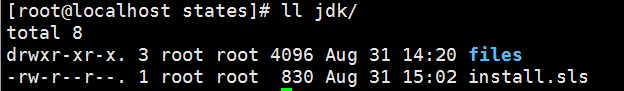
#### 说明：

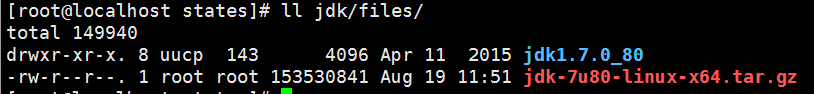
Jdk安装路径为：/usr/local/jdk-1.7

Tomcat安装路径为：/usr/local/tomcat8

#### 安装jdk

在/etc/salt/states目录下新增jdk目录



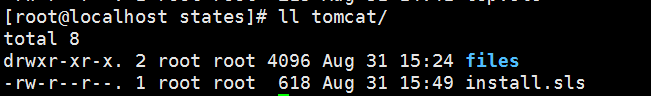


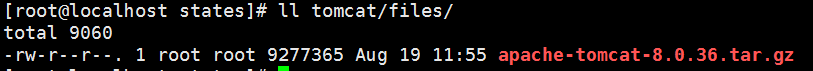
[root@localhost states]# cat jdk/install.sls

|  |
| --- |
| jdk-install:  file.managed:  - name: /usr/local/src/jdk-7u80-linux-x64.tar.gz  - source: salt://jdk/files/jdk-7u80-linux-x64.tar.gz  - user: root  - group: root  - mode: 755  cmd.run:  - name: cd /usr/local/src/ && tar xf jdk-7u80-linux-x64.tar.gz && mv jdk1.7.0\_80 /usr/local/jdk-1.7 && chown root:root -R /usr/local/jdk-1.7  - unless: test -d /usr/local/jdk-1.7  - require:  - file: jdk-install  jdk-config:  file.append:  - name: /etc/profile  - text:  - export JAVA\_HOME=/usr/local/jdk1.7  - export JAVA\_BIN=$JAVA\_HOME/bin  - export PATH=$PATH:$JAVA\_HOME/bin  - export CLASSPATH=.:$JAVA\_HOME/lib/dt.jar:$JAVA\_HOME/lib/tools.jar  - export PATH=$JAVA\_HOME/bin:$JRE\_HOME/bin:$PATH  cmd.run:  - name: source /etc/profile  - require:  - file: jdk-install |

#### 安装Tomcat

在/etc/salt/states目录下新增tomcat目录





[root@localhost states]# cat tomcat/install.sls

|  |
| --- |
| tomcat-install:  file.managed:  - name: /usr/local/src/apache-tomcat-8.0.36.tar.gz  - source: salt://tomcat/files/apache-tomcat-8.0.36.tar.gz  - user: root  - group: root  - mode: 755  cmd.run:  - name: cd /usr/local/src/ && tar xf apache-tomcat-8.0.36.tar.gz && mv apache-tomcat-8.0.36 /usr/local/tomcat8  - unless: test -d /usr/local/tomcat8  tomcat-config:  file.append:  - name: /etc/profile  - text:  - export TOMCAT\_HOME=/usr/local/tomcat8  - export CATALINA\_HOME=/usr/local/tomcat8  cmd.run:  - name: source /etc/profile  - require:  - file: tomcat-install |

[root@localhost states]# cat top.sls

|  |
| --- |
| base:  '192.168.1.135':  - jdk.install  - tomcat.install |

#### 执行命令

**[root@localhost states]# salt '192.168.1.135' state.highstate**

|  |
| --- |
| 192.168.1.135:  ----------  ID: jdk-install  Function: file.managed  Name: /usr/local/src/jdk-7u80-linux-x64.tar.gz  Result: True  Comment: File /usr/local/src/jdk-7u80-linux-x64.tar.gz updated  Started: 15:58:58.592631  Duration: 3811.342 ms  Changes:  ----------  diff:  New file  mode:  0755  ----------  ID: jdk-install  Function: cmd.run  Name: cd /usr/local/src/ && tar xf jdk-7u80-linux-x64.tar.gz && mv jdk1.7.0\_80 /usr/local/jdk-1.7 && chown root:root -R /usr/local/jdk-1.7  Result: True  Comment: Command "cd /usr/local/src/ && tar xf jdk-7u80-linux-x64.tar.gz && mv jdk1.7.0\_80 /usr/local/jdk-1.7 && chown root:root -R /usr/local/jdk-1.7" run  Started: 15:59:02.412091  Duration: 32022.558 ms  Changes:  ----------  pid:  1893  retcode:  0  stderr:  stdout:  ----------  ID: jdk-config  Function: file.append  Name: /etc/profile  Result: True  Comment: Appended 5 lines  Started: 15:59:34.435179  Duration: 15.278 ms  Changes:  ----------  diff:  ---  +++  @@ -79,3 +79,8 @@  PATH=/usr/local/mysql/bin:$PATH  export PATH    +export JAVA\_HOME=/usr/local/jdk1.7  +export JAVA\_BIN=$JAVA\_HOME/bin  +export PATH=$PATH:$JAVA\_HOME/bin  +export CLASSPATH=.:$JAVA\_HOME/lib/dt.jar:$JAVA\_HOME/lib/tools.jar  +export PATH=$JAVA\_HOME/bin:$JRE\_HOME/bin:$PATH  ----------  ID: jdk-config  Function: cmd.run  Name: source /etc/profile  Result: True  Comment: Command "source /etc/profile" run  Started: 15:59:34.451069  Duration: 32.605 ms  Changes:  ----------  pid:  1913  retcode:  0  stderr:  stdout:  ----------  ID: tomcat-install  Function: file.managed  Name: /usr/local/src/apache-tomcat-8.0.36.tar.gz  Result: True  Comment: File /usr/local/src/apache-tomcat-8.0.36.tar.gz updated  Started: 15:59:34.484328  Duration: 560.731 ms  Changes:  ----------  diff:  New file  mode:  0755  ----------  ID: tomcat-install  Function: cmd.run  Name: cd /usr/local/src/ && tar xf apache-tomcat-8.0.36.tar.gz && mv apache-tomcat-8.0.36 /usr/local/tomcat8  Result: True  Comment: Command "cd /usr/local/src/ && tar xf apache-tomcat-8.0.36.tar.gz && mv apache-tomcat-8.0.36 /usr/local/tomcat8" run  Started: 15:59:35.045623  Duration: 554.228 ms  Changes:  ----------  pid:  1927  retcode:  0  stderr:  stdout:  ----------  ID: tomcat-config  Function: file.append  Name: /etc/profile  Result: True  Comment: Appended 2 lines  Started: 15:59:35.600711  Duration: 11.894 ms  Changes:  ----------  diff:  ---  +++  @@ -84,3 +84,5 @@  export PATH=$PATH:$JAVA\_HOME/bin  export CLASSPATH=.:$JAVA\_HOME/lib/dt.jar:$JAVA\_HOME/lib/tools.jar  export PATH=$JAVA\_HOME/bin:$JRE\_HOME/bin:$PATH  +export TOMCAT\_HOME=/usr/local/tomcat8  +export CATALINA\_HOME=/usr/local/tomcat8  ----------  ID: tomcat-config  Function: cmd.run  Name: source /etc/profile  Result: True  Comment: Command "source /etc/profile" run  Started: 15:59:35.613820  Duration: 41.111 ms  Changes:  ----------  pid:  1931  retcode:  0  stderr:  stdout:  Summary  ------------  Succeeded: 8 (changed=8)  Failed: 0  ------------  Total states run: 8 |

补充：

1、state.highstate会读取所有环境（包括base环境）的top.sls文件，并且执行top.sls文件内容里面定义的sls文件，不在top.sls文件里面记录的sls则不会被执行；

2、state.sls默认读取base环境，但是它并不会读取top.sls文件。你可以指定state.sls执行哪个sls文件，只要这个sls文件在base环境下存在；

**要是不通过top.sls执行使用以下命令：**

salt '192.168.1.135' state.sls jdk.install

salt '192.168.1.135' state.sls tomcat.install