

## 配置Tomcat

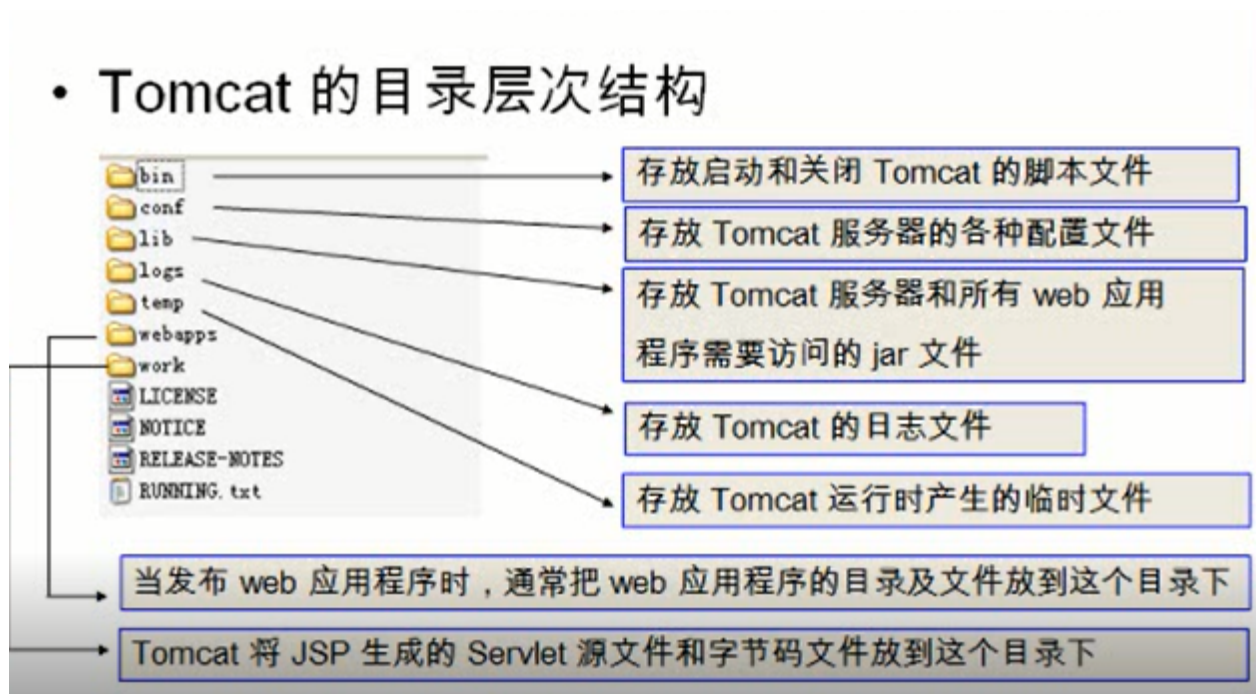
配置CATALINA\_HOME

启动/关闭Tomcat

Tomcat管理程序

# 配置Tomcat

- Tomcat目录



- 配置完 JAVA\_HOME 后
  - 可以通过双击Tomcat/bin下的startup.bat和shutdown.bat启动和关闭Tomcat
  - 11. 部署并启动 tomcat 服务器。
  - 21). 解压 apache-tomcat-6.0.16.zip 到一个非中文目录下
  - 32). 配置一个环境变量. java\_home(指向 JDK 安装的根目录) 或 jre\_home
  - 43). 通过双击 apache-tomcat-6.0.16\bin 目录下的 startup.bat, 启动服务器
  - 54). 可以在浏览器中输入 localhost:8080 来检验 Tomcat 安装是否正确。
  - 65). 若已经启动了一个 Tomcat 应用, 若再启动同一个 Tomcat 应用, 会抛出异常:
  - 7 java.net.BindException: Address already in use: JVM\_Bind:8080
  - 8 因为端口已经被占用了。
  - 可以通过修改Tomcat/conf下的server.xml配置端口号

```
C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\conf\server.xml - Notepad++
文件(F) 编辑(E) 搜索(S) 视图(V) 编码(N) 语言(L) 设置(T) 工具(O) 宏(M) 运行(R) 插件(P) 窗口(W) ?
server.xml x CATALINA_HOME
64 <!-- A "Connector" represents an endpoint by which requests are received
65 and responses are returned. Documentation at :
66 Java HTTP Connector: /docs/config/http.html (blocking & non-blocking)
67 Java AJP Connector: /docs/config/ajp.html
68 APR (HTTP/AJP) Connector: /docs/apr.html
69 Define a non-SSL HTTP/1.1 Connector on port 8080
70 -->
71 <Connector port="8080" protocol="HTTP/1.1"
72 connectionTimeout="20000"
73 redirectPort="8443" />
```

## 配置CATALINA\_HOME

- 可以在任意目录下启动和关闭（管理）Tomcat

| C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90 |                 | CATALINA_HOME |       |  |
|---|-----------------|---------------|-------|--|
| 名称  | 修改日期            | 类型            | 大小    |  |
| bin   | 2018/7/2 13:08  | 文件夹           |       |  |
| conf  | 2018/9/18 18:12 | 文件夹           |       |  |
| lib   | 2018/7/2 13:08  | 文件夹           |       |  |
| logs  | 2018/9/18 18:12 | 文件夹           |       |  |
| temp  | 2018/7/2 13:08  | 文件夹           |       |  |
| webapps   | 2018/7/2 13:08  | 文件夹           |       |  |
| work  | 2018/9/18 18:12 | 文件夹           |       |  |
| BUILDING.txt                                      | 2018/7/2 13:08  | 文本文档          | 19 KB |  |
| CONTRIBUTING.md                                   | 2018/7/2 13:08  | Markdown File | 7 KB  |  |
| LICENSE   | 2018/7/2 13:08  | 文件            | 57 KB |  |
| NOTICE  | 2018/7/2 13:08  | 文件            | 2 KB  |  |
| README.md   | 2018/7/2 13:08  | Markdown File | 4 KB  |  |
| RELEASE-NOTES                                     | 2018/7/2 13:08  | 文件            | 10 KB |  |
| RUNNING.txt                                       | 2018/7/2 13:08  | 文本文档          | 18 KB |  |

## 17660 的用户变量(U)

| 变量        | 值  |
|-----------|--|
| JAVA_HOME | C:\F\Java\jdk\64Bit  |
| OneDrive  | C:\Users\17660\OneDrive                                    |
| Path      | C:\Users\17660\AppData\Local\Microsoft\WindowsApps;C:\F... |
| TEMP      | C:\Users\17660\AppData\Local\Temp                          |
| TMP       | C:\Users\17660\AppData\Local\Temp                          |

搜索"a



新建(N)...

编辑(E)...

删除(D)

## 新建用户变量



变量名(N):

CATALINA\_HOME

变量值(V):

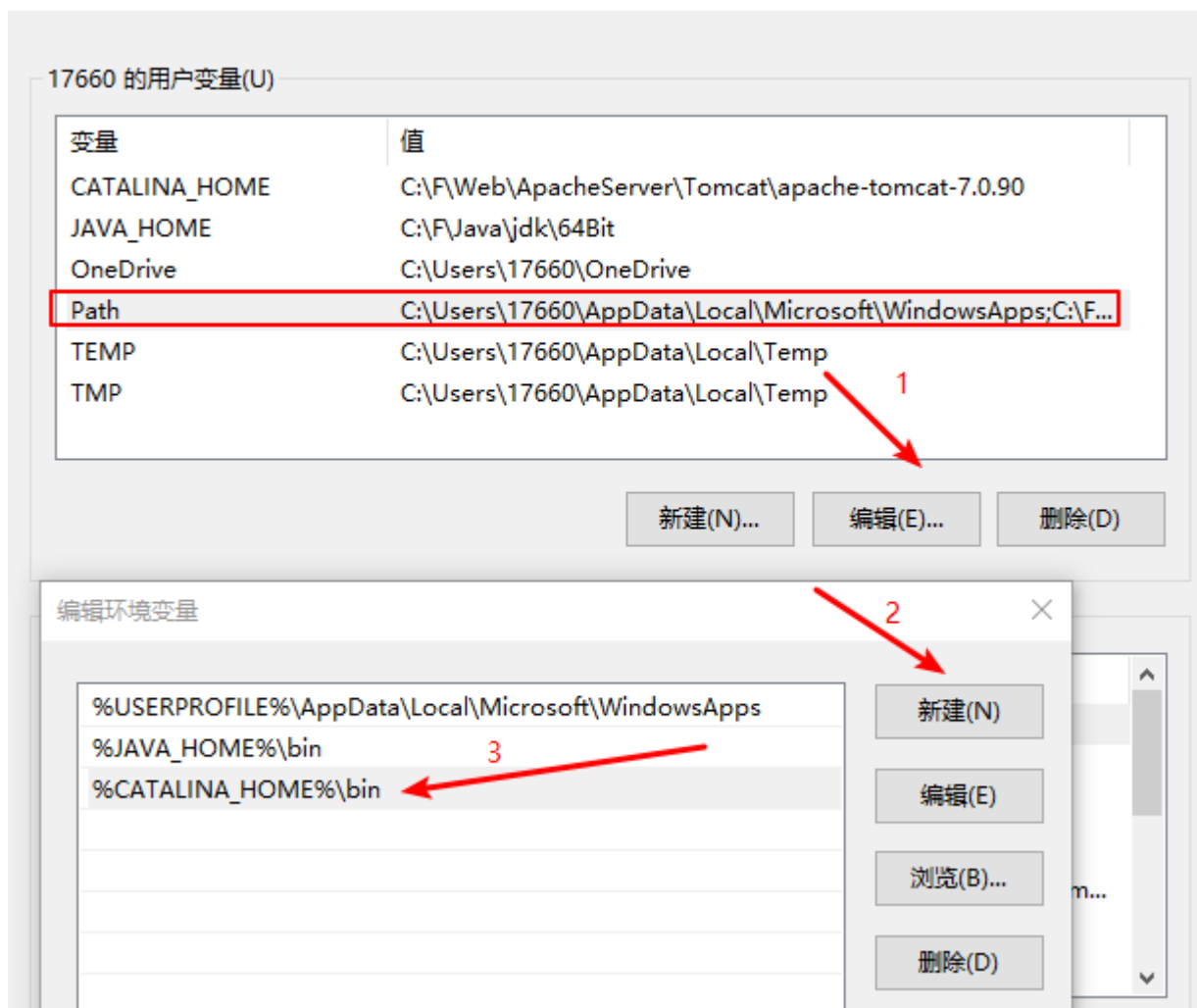
C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90

浏览目录(D)...

浏览文件(F)...

确定

取消



C:\WINDOWS\system32\cmd.exe

```
Microsoft Windows [版本 6.0.6002.18005]
(c) 2017 Microsoft Corporation. 保留所有权利。

C:\Users\17660>startup
Using CATALINA_BASE:   "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90"
Using CATALINA_HOME:   "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90"
Using CATALINA_TMPDIR: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\temp"
Using JRE_HOME:        "C:\F\Java\jdk\64Bit"
Using CLASSPATH:       "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\bin\bootstrap.jar;C:\F\
\apache-tomcat-7.0.90\bin\tomcat-juli.jar"
C:\Users\17660>
```

```
Tomcat
九月 18, 2018 6:54:41 下午 org.apache.catalina.startup.HostConfig deployDirectory
信息: Deployment of web application directory C:\F\Web\ApacheServer\Tomcat\apach
d in 689 ms
九月 18, 2018 6:54:41 下午 org.apache.catalina.startup.HostConfig deployDirectory
信息: Deploying web application directory C:\F\Web\ApacheServer\Tomcat\apach
九月 18, 2018 6:54:42 下午 org.apache.catalina.startup.HostConfig deployDirectory
信息: Deployment of web application directory C:\F\Web\ApacheServer\Tomcat\apach
in 1,232 ms
```

## 启动/关闭Tomcat

- 配置完 CATALINA\_HOME，将CATALINA\_HOME\bin加入环境path变量之后

- 通过catalina.bat和参数启动/关闭Tomcat

```
Usage: catalina ( commands ... )
commands:
  debug          Start Catalina in a debugger
  debug -security Debug Catalina with a security manager
  jpda start      Start Catalina under JPDA debugger
  run            Start Catalina in the current window
  run -security   Start in the current window with security manager
  start          Start Catalina in a separate window
  start -security Start in a separate window with security manager
  stop           Stop Catalina
  configtest     Run a basic syntax check on server.xml
  version        What version of tomcat are you running?

C:\Users\17660>catalina start
Using CATALINA_BASE: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90"
Using CATALINA_HOME: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90"
Using CATALINA_TMPDIR: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\temp"
Using JRE_HOME: "C:\F\Java\jdk\64Bit"
Using CLASSPATH: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\bin\bootstrap.jar
\apache-tomcat-7.0.90\bin\tomcat-juli.jar"

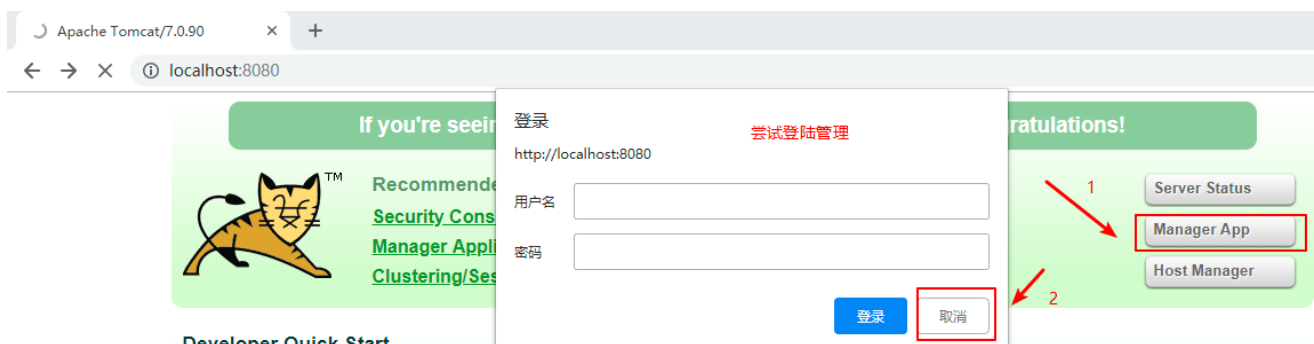
C:\Users\17660>catalina stop
Using CATALINA_BASE: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90"
Using CATALINA_HOME: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90"
Using CATALINA_TMPDIR: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\temp"
Using JRE_HOME: "C:\F\Java\jdk\64Bit"
Using CLASSPATH: "C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\bin\bootstrap.jar
\apache-tomcat-7.0.90\bin\tomcat-juli.jar"

C:\Users\17660>
```

## Tomcat管理程序

管理我们部署的项目

- 获取管理员配置信息



401 Unauthorized

localhost:8080/manager/html

## 401 Unauthorized

You are not authorized to view this page. If you have not changed any configuration files, please examine the file `conf/tomcat-users.xml` in your installation. That file must contain the credentials to let you use this. For example, to add the `manager-gui` role to a user named `tomcat` with a password of `secret`, add the following to the config file listed above.

```
<role rolename="manager-gui"/>
<user username="tomcat" password="secret" roles="manager-gui"/>
```

Note that for Tomcat 7 onwards, the roles required to use the manager application were changed from the single `manager` role to the following four roles. You will need to assign the role(s) required for the function

- `manager-gui` - allows access to the HTML GUI and the status pages
- `manager-script` - allows access to the text interface and the status pages
- `manager-jmx` - allows access to the JMX proxy and the status pages
- `manager-status` - allows access to the status pages only

The HTML interface is protected against CSRF but the text and JMX interfaces are not. To maintain the CSRF protection:

- Users with the `manager-gui` role should not be granted either the `manager-script` or `manager-jmx` roles.
- If the text or jmx interfaces are accessed through a browser (e.g. for testing since these interfaces are intended for tools not humans) then the browser must be closed afterwards to terminate the session.

For more information - please see the [Manager App HOW-TO](#).

- 进行配置

C:\F\Web\ApacheServer\Tomcat\apache-tomcat-7.0.90\conf\tomcat-users.xml - Notepad++

文件(F) 编辑(E) 搜索(S) 视图(V) 编码(N) 语言(L) 设置(T) 工具(O) 宏(M) 运行(R) 插件(P) 窗口(W) ?

server.xml x tomcat-users.xml x

```
1 <?xml version='1.0' encoding='utf-8'?>
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 <tomcat-users>
19   <role rolename="manager-gui"/>
20   <user username="tomcat" password="" roles="manager-gui"/>
```

配置密码和用户名和角色 (我们默认设置GUI)

- 进行访问测试



## Tomcat Web Application Mana

Message: OK

### Manager

[List Applications](#)[HTML Manager Help](#)

### Applications

| Path          | Version        | Display Name                    | Running | Sessions |
|---------------|----------------|---------------------------------|---------|----------|
| /             | None specified | Welcome to Tomcat               | true    | 0        |
| /docs         | None specified | Tomcat Documentation            | true    | 0        |
| /examples     | None specified | Servlet and JSP Examples        | true    | 0        |
| /host-manager | None specified | Tomcat Host Manager Application | true    | 0        |
| /manager      | None specified | Tomcat Manager Application      | true    | 1        |