

Web性能测试一帮助文档

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JMeter运行环境要求

运行环境

- 1. 请在慕测网站(www.mooctest.net)下载大赛专用的插件版JMeter客户端,不要在Apache JMeter官网下载
- 2. 除慕测提供的JMeter安装包,还需安装Java环境。
- 3. Java环境要求使用JDK1.8版本

9.Java环境可在本机命令行查看

```
_ 0
Mindows 命令处理程序
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。
C:\Windows\System32>java -version
java version "1.8.0_111"
Java(TM) SE Runtime Environment (build 1.8.0_111-b14)
Java HotSpot(TM) 64-Bit Server UM (build 25.111-b14, mixed mode)
C:\Windows\System32>
```

注: JDK版本要求使用1.8



慕测JMeter配置指南

1.登录慕测官网(www.mooctest.net)



2.登入后,点击工具下载



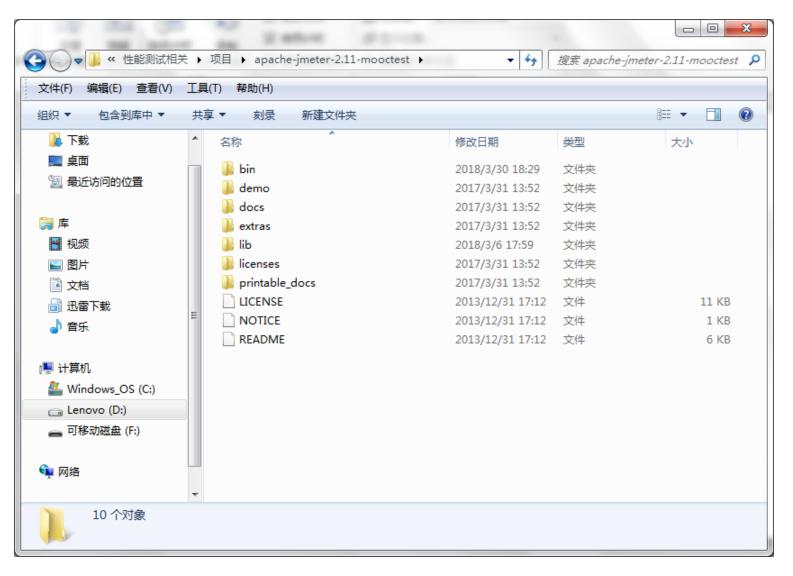
3.进入慕测插件下载页面



4.选择测试插件及Eclipse下载



5.解压下载的JMeter文件夹



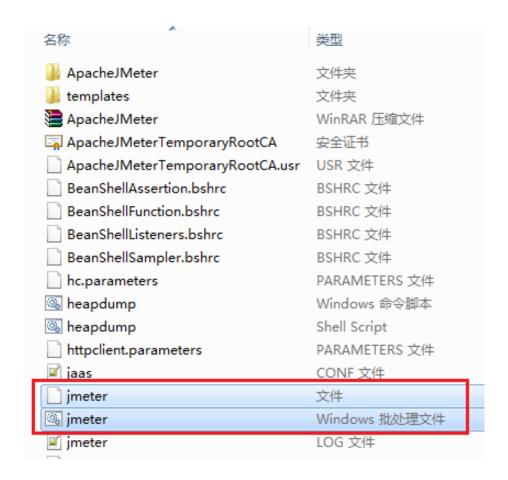
6.运行JMeter

Windows用户:

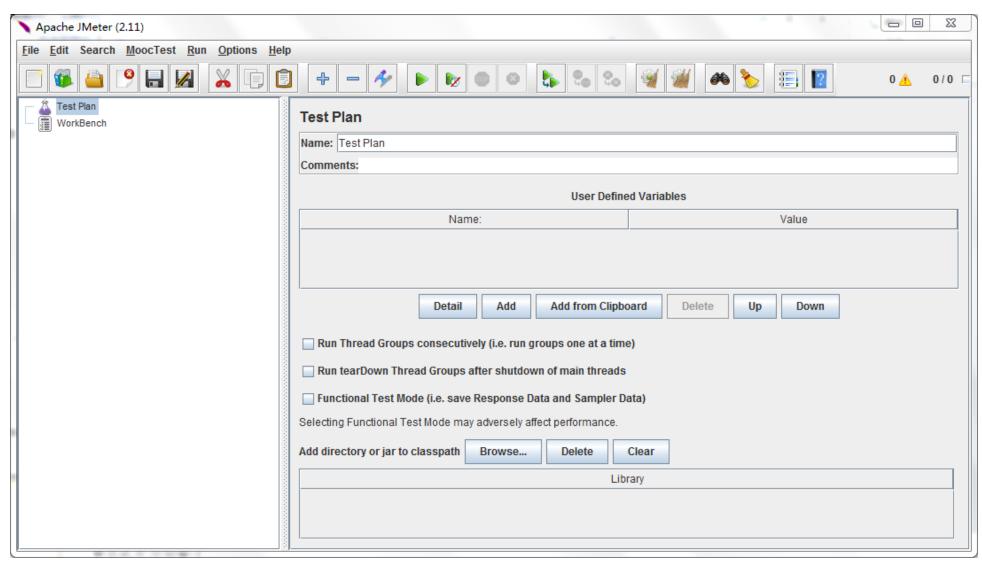
运行bin文件夹下的jmeter.bat文件

Mac/Linux用户:

运行bin文件夹下的jmeter文件



7.运行截图





Web性能测试-JMeter客户端使用方法

1.登录慕测官网(www.mooctest.net)



2.从大赛入口选择Web测试-团队赛进行报名



3.报名完成后点击参赛

大赛官网 慕测论坛 工具下载 使用帮助 大赛入口 成为教师



4.选择查看详情。可以看到密钥

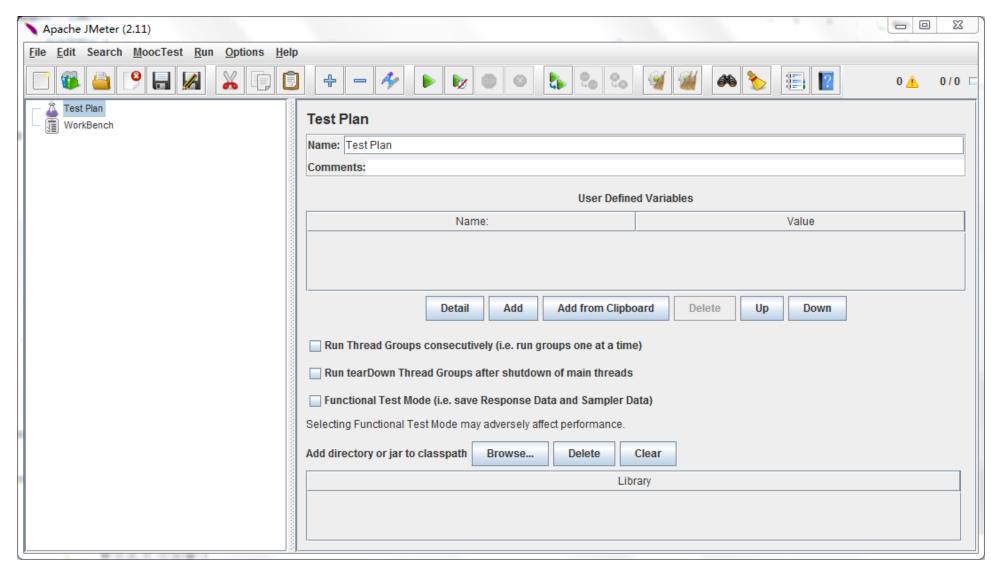


5.复制密钥

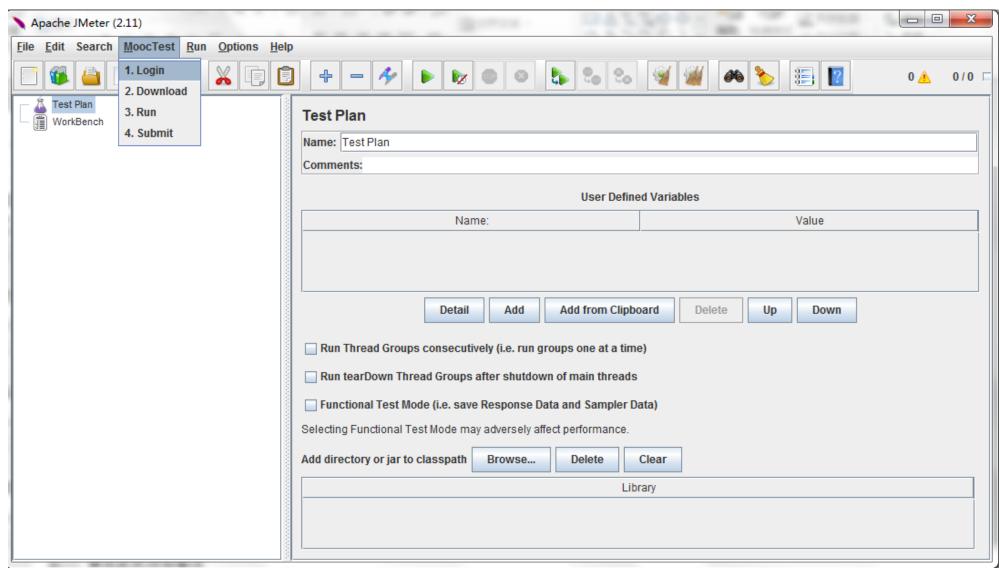
大赛官网 慕测论坛 工具下载 使用帮助 大赛入口 成为教师



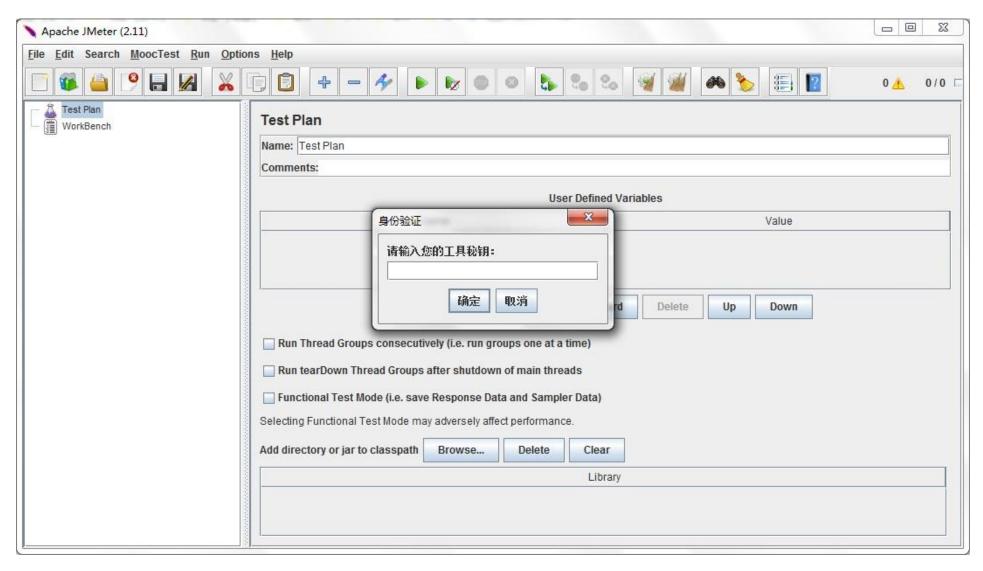
6.打开安装有插件的JMeter客户端



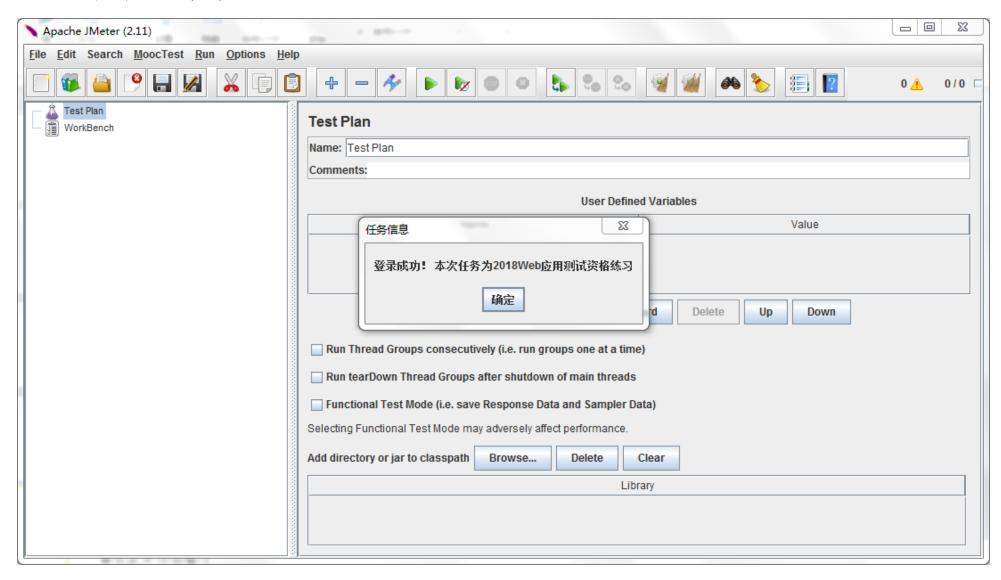
7.在插件中选择Login选项



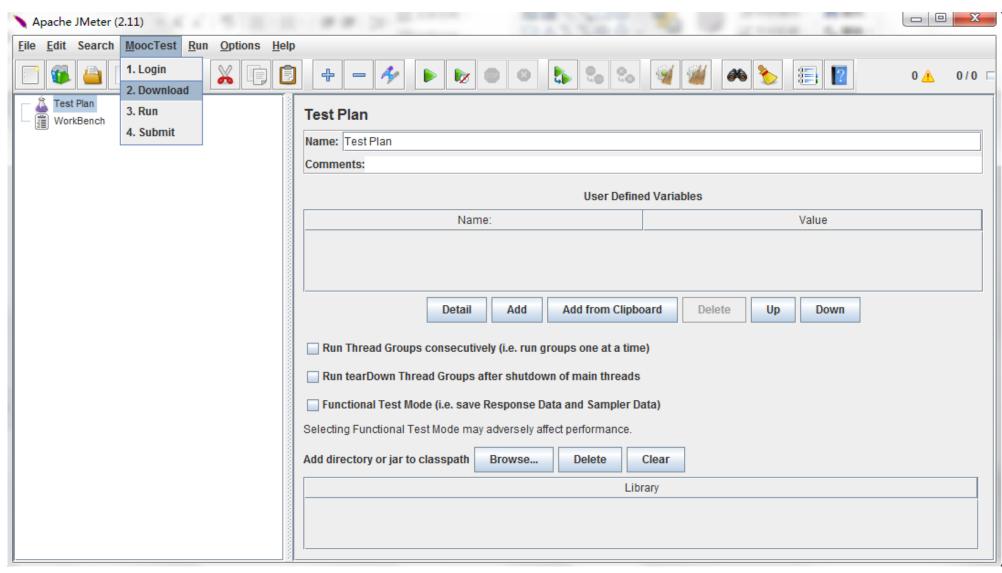
8.输入考试密钥



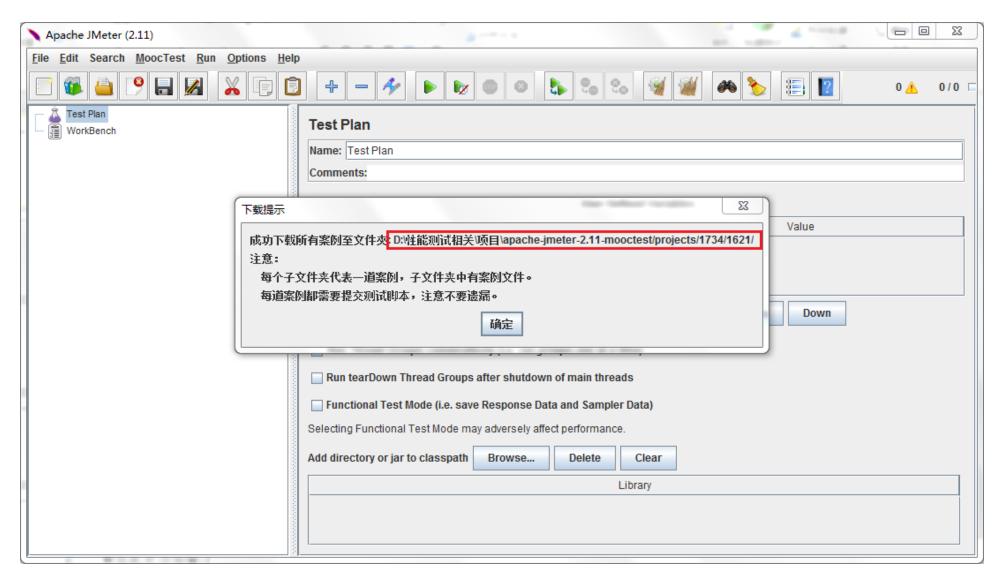
9.登录成功



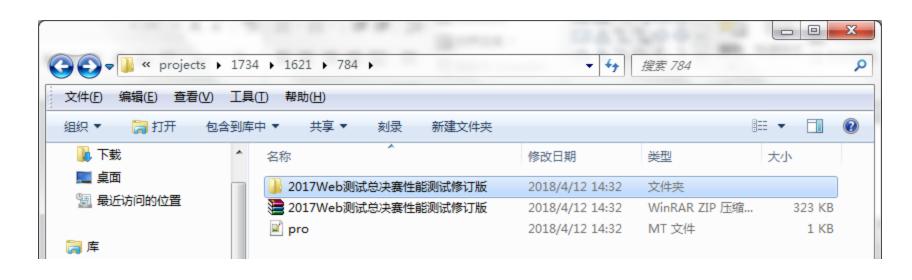
10.在插件中选择Download选项



11.下载成功,下载位置见提示信息。



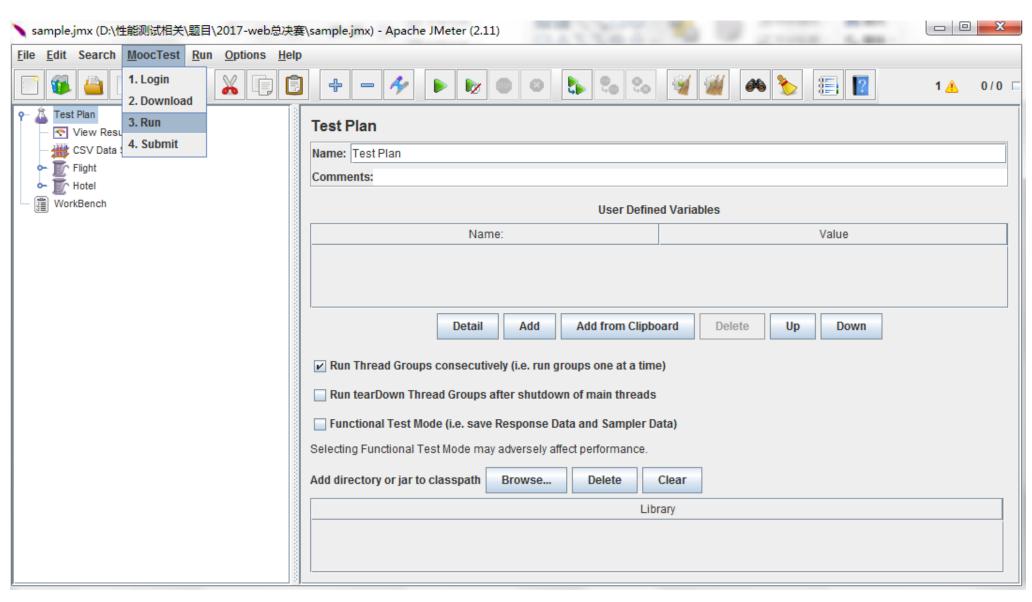
12.在下载位置查看测试需求文档。



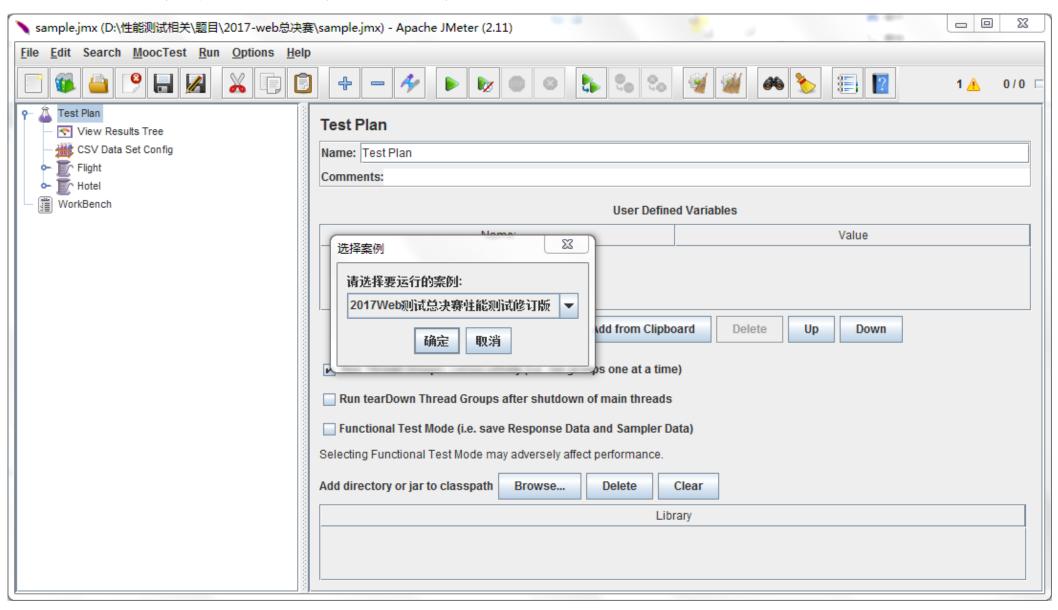
该文件夹下的2017-Web应用测试-性能测试-总决赛.pdf文件即为测试需求文件

注:如果忘记了下载位置,可以在菜单MoocTest中重新点击Download,在下载成功的提示信息中查看下载位置

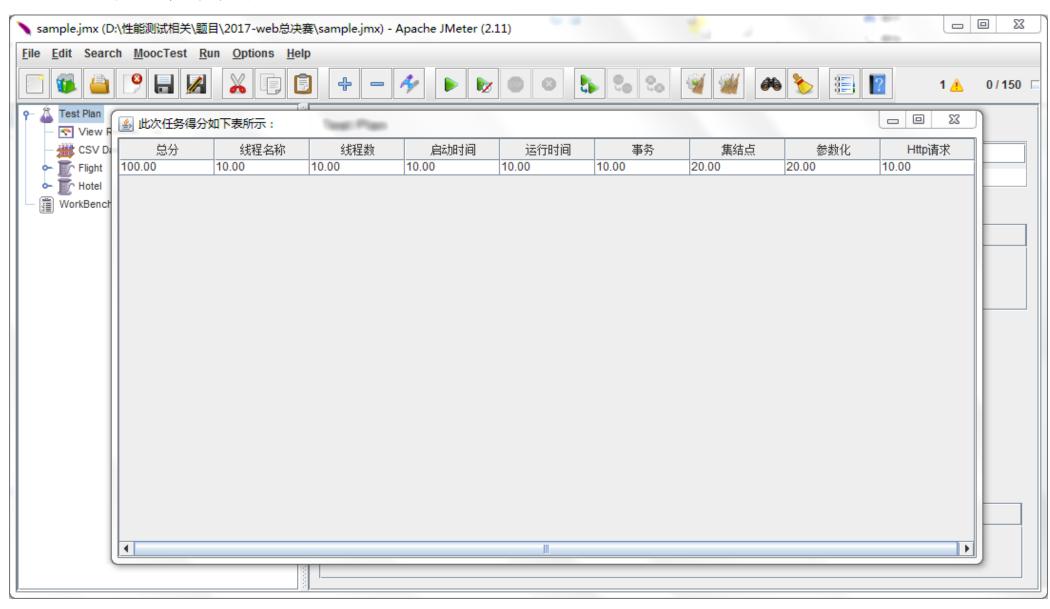
13.在插件中选择Run选项,进行运行和评分



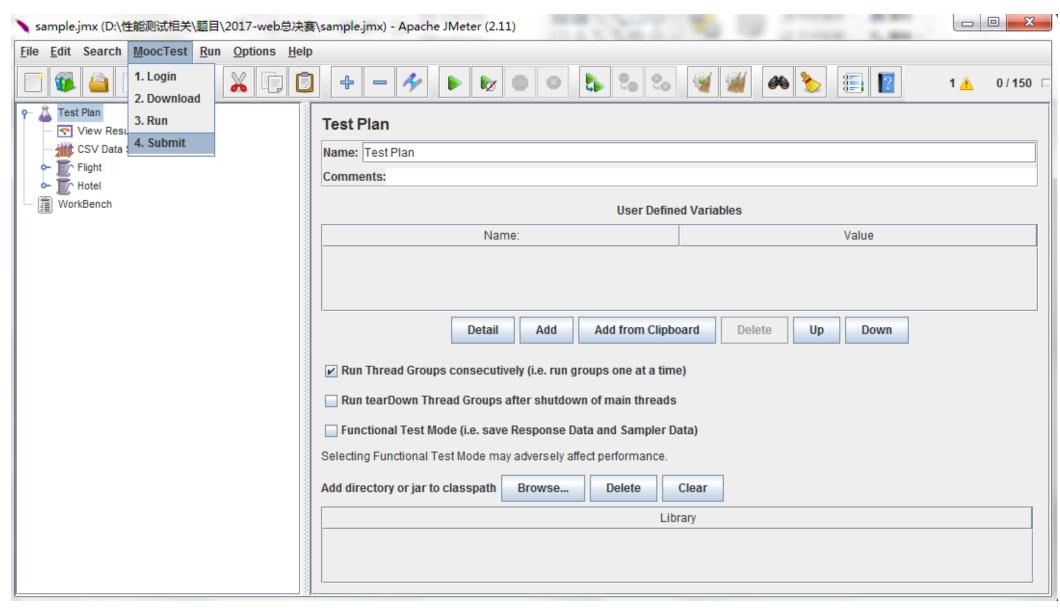
14.选择需要运行的案例



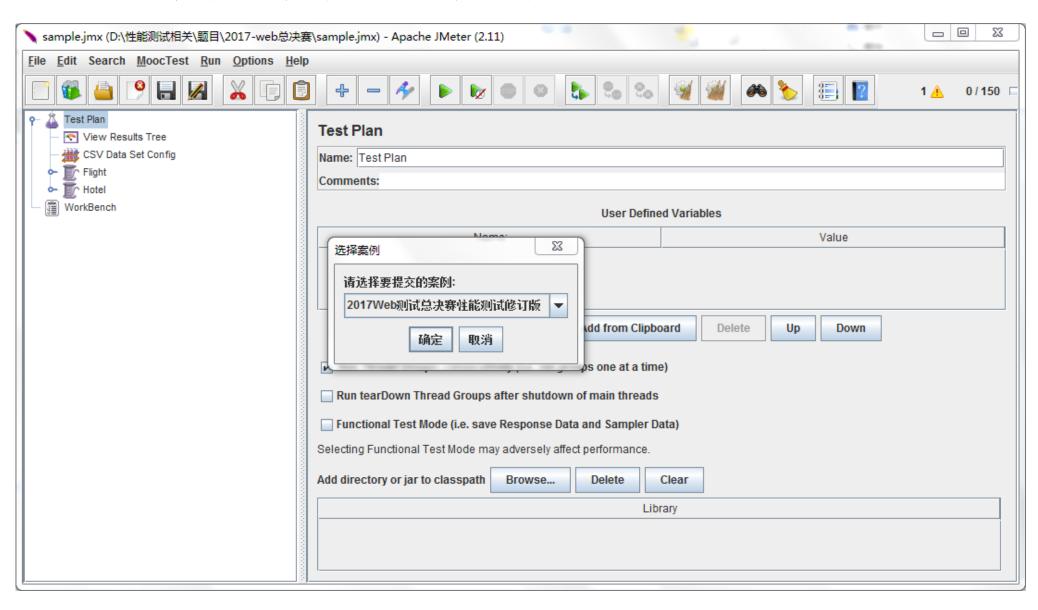
15.运行得分



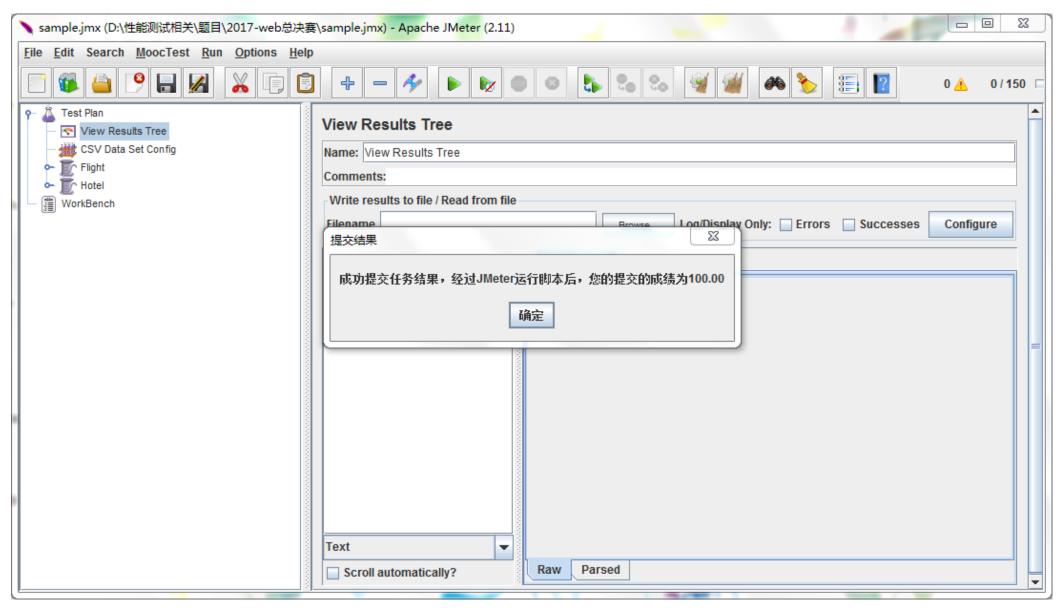
16.在插件中选择Submit选项,进行评分和提交



17.选择需要提交的案例



18.提交成功



19.提交后慕测网站有"已提交"的标识

大赛官网
慕测论坛
工具下载
使用帮助
大赛入口
成为教师





Web性能测试-在线做题使用方法

1.在资格练习页面选择在线做题

大赛官网	2018Web应用测试资格练习 (比
慕测论坛	⑤ 考试ID: 1734 ▲ ⓒ
工具下载	○起止时间: 2018-04-11 00:00
使用帮助	直接采用慕测WebIDE或者下载安 准1:Selenium脚本的测试需求覆
大赛入口	分数累加合计总分。
成为教师	■ 试卷: 2018Web <u>应用测试资格</u> 约
	2018Web应用测试资格练习



2.跳转到慕测提供的表单式WEB IDE

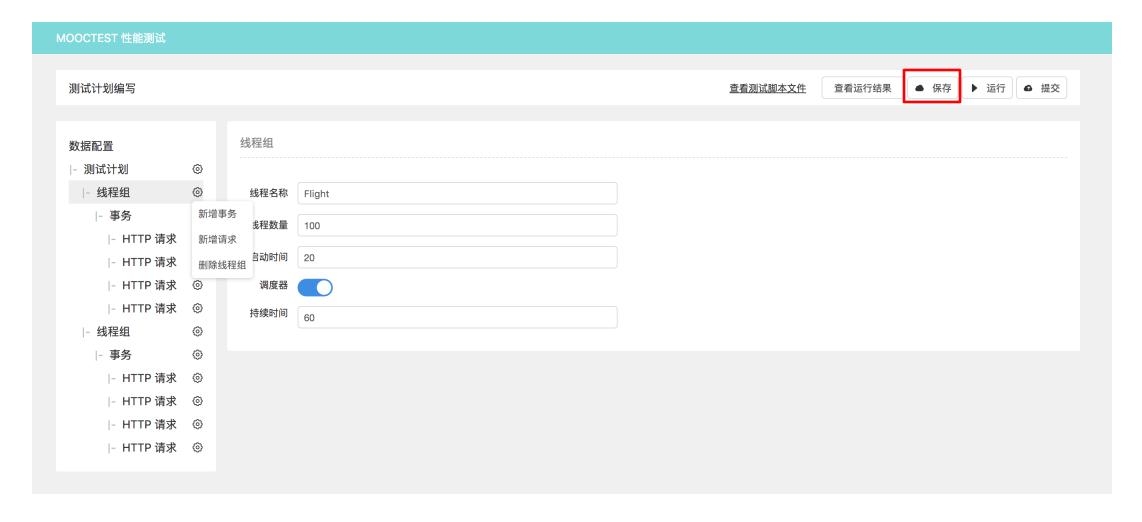
OOCTEST 性能测试					
测试计划编写				查看测试脚本文件	查看运行结果 ● 保存 ▶ 运行 ● 提
数据配置	线程	呈组			
- 测试计划	0				
- 线程组	⑤ 线	程名称	Flight		
- 事务 - HTTP 请求	新增事务 表 新增请求	程数量	100		
- HTTP 请求	删除线程组	动时间	20		
- HTTP 请求		调度器			
│- HTTP 请求	⑤ 持	续时间	60		
- 线程组	0				
- 事务	0				
- HTTP 请求	0				
- HTTP 请求	0				
- HTTP 请求	0				
- HTTP 请求	0				

2.1 数据配置方法

数据配置		数据配置	
- 测试计划	©		
- 线程组	0	参数名 cityid,checkIn,checkOut,from,to,date1,date2	
- 事务	0	循环使用	
- HTTP 请求	0		
- HTTP 请求	0	参数内容 选取 .csv 数据文件 上传	
- HTTP 请求	0	gulangyuD9458_25,2018-06-05,2018-06-08,SHA,CAN,2018-06-05,2018-06-08	^
- HTTP 请求	0		
- 线程组	0		
- 事务	0		
- HTTP 请求	0		-
- HTTP 请求	0	←	+
- HTTP 请求	0		
- HTTP 请求	0		

- 1. 数据文件的格式只允许**CSV文件**,上传成功后,可在灰色方框中预览文件的全部内容
- 2. 数据文件中只写参数内容,即参数值,参数名不需要写在数据文件中
- 3. 参数值之间用英文逗号","隔开,中间不加空格。每一行代表一组参数
- 4. 参数名之间用英文逗号","隔开,中间不加空格
- 5. 参数名和参数值的位置对应,例如图中参数cityid对应的参数值是gulangyuD9458_25

3.保存测试脚本



直接刷新浏览器会丢失脚本修改内容,请注意在做题过程中保存脚本

3.运行案例

МООС	CTEST 性能测试										
测试	式计划编写					查看测试脚本文件	隐藏	运行结果	● 保存	▶ 运行	6 提交
	居配置	0	数据配置								

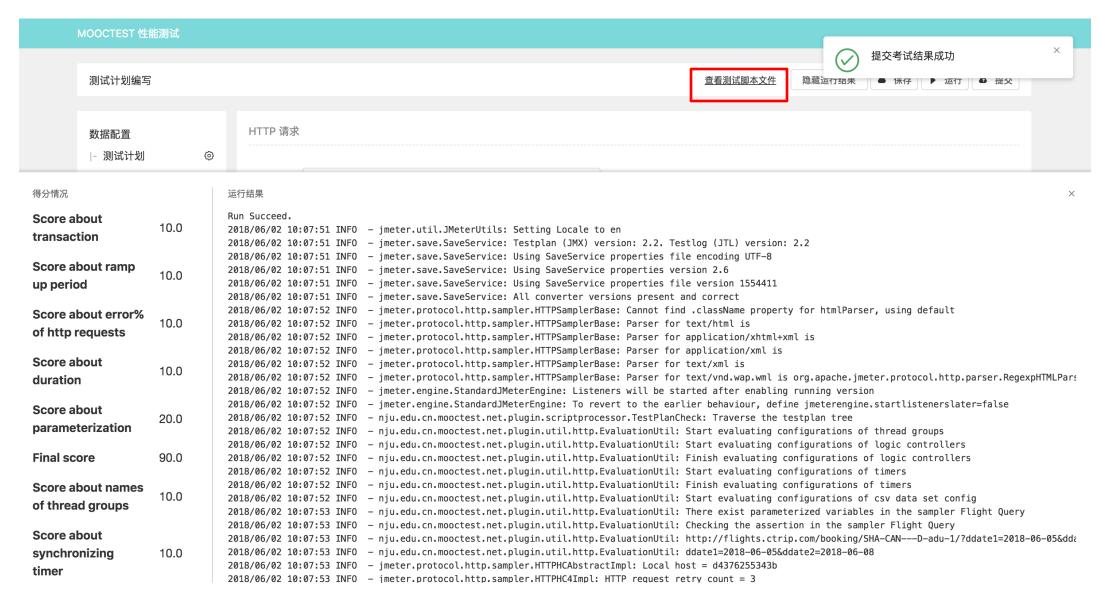
得分情况		运行结果	×
Score about transaction	10.0	Run Succeed. 2018/06/02 09:58:21 INFO – jmeter.util.JMeterUtils: Setting Locale to en 2018/06/02 09:58:21 INFO – jmeter.save.SaveService: Testplan (JMX) version: 2.2. Testlog (JTL) version: 2.2	
Score about ramp up period	10.0	2018/06/02 09:58:21 INFO – jmeter.save.SaveService: Using SaveService properties file encoding UTF-8 2018/06/02 09:58:21 INFO – jmeter.save.SaveService: Using SaveService properties version 2.6 2018/06/02 09:58:21 INFO – jmeter.save.SaveService: Using SaveService properties file version 1554411 2018/06/02 09:58:21 INFO – jmeter.save.SaveService: All converter versions present and correct	
Score about error% of http requests	10.0	2018/06/02 09:58:21 INFO — jmeter.protocol.http.sampler.HTTPSamplerBase: Cannot find .className property for htmlParser, using default 2018/06/02 09:58:21 INFO — jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for text/html is 2018/06/02 09:58:21 INFO — jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for application/xhtml+xml is	
Score about duration	10.0	2018/06/02 09:58:21 INFO – jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for application/xml is 2018/06/02 09:58:21 INFO – jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for text/xml is 2018/06/02 09:58:21 INFO – jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for text/vnd.wap.wml is org.apache.jmeter.protocol.http.parser.RegexpHTMLPars 2018/06/02 09:58:21 INFO – jmeter.engine.StandardJMeterEngine: Listeners will be started after enabling running version	ng.
Score about parameterization	0.0	2018/06/02 09:58:21 INFO — jmeter.engine.StandardJMeterEngine: To revert to the earlier behaviour, define jmeterengine.startlistenerslater=false 2018/06/02 09:58:21 INFO — nju.edu.cn.mooctest.net.plugin.scriptprocessor.TestPlanCheck: Traverse the testplan tree 2018/06/02 09:58:22 INFO — nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of thread groups	
Final score	70.0	2018/06/02 09:58:22 INFO – nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of logic controllers 2018/06/02 09:58:22 INFO – nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Finish evaluating configurations of logic controllers 2018/06/02 09:58:22 INFO – nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of timers	
Score about names of thread groups	10.0	2018/06/02 09:58:22 INFO — nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Finish evaluating configurations of timers 2018/06/02 09:58:22 INFO — nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of csv data set config 2018/06/02 09:58:22 INFO — nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Finish evaluating configurations of csv data set config	
Score about synchronizing timer	10.0	2018/06/02 09:58:22 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of logic controllers 2018/06/02 09:58:22 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Finish evaluating configurations of logic controllers 2018/06/02 09:58:22 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of timers 2018/06/02 09:58:22 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Finish evaluating configurations of timers 2018/06/02 09:58:22 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of csv data set config	

3.提交案例

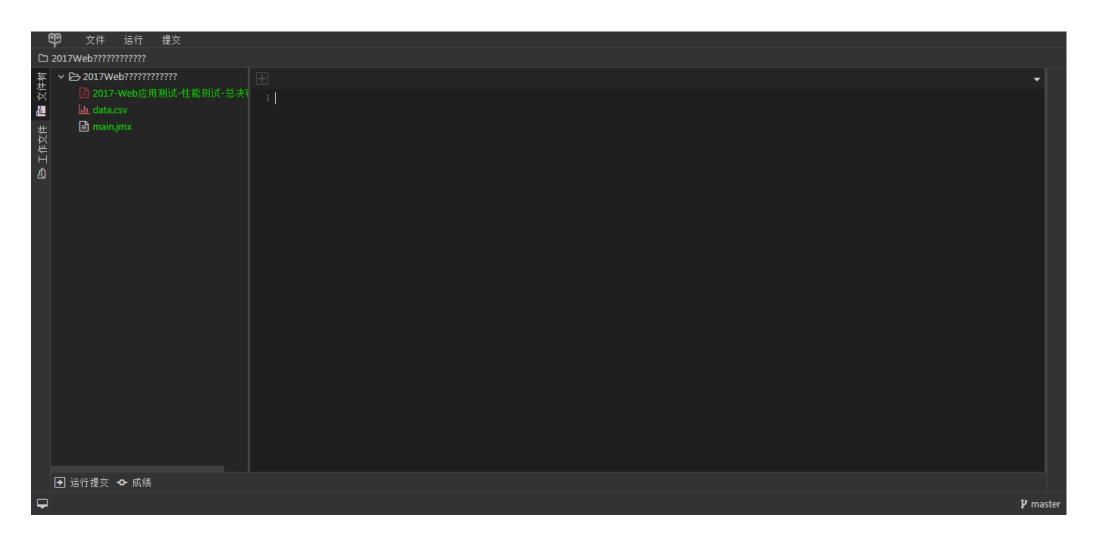
MOOCTEST 性能测试		
测试计划编写	查看测试服	提交考试结果成功 - □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
数据配置	HTTP 请求	
得分情况 Score about transaction	运行结果 Run Succeed. 2018/06/02 10:07:51 INFO – jmeter.util.JMeterUtils: Setting Locale to en	×

10.03 16.00		A THAT A
Score about transaction	10.0	Run Succeed. 2018/06/02 10:07:51 INFO – jmeter.util.JMeterUtils: Setting Locale to en 2018/06/02 10:07:51 INFO – jmeter.save.SaveService: Testplan (JMX) version: 2.2. Testlog (JTL) version: 2.2
Score about ramp up period	10.0	2018/06/02 10:07:51 INFO - jmeter.save.SaveService: Using SaveService properties file encoding UTF-8 2018/06/02 10:07:51 INFO - jmeter.save.SaveService: Using SaveService properties version 2.6 2018/06/02 10:07:51 INFO - jmeter.save.SaveService: Using SaveService properties file version 1554411 2018/06/02 10:07:51 INFO - jmeter.save.SaveService: All converter versions present and correct
Score about error% of http requests	10.0	2018/06/02 10:07:52 INFO — jmeter.protocol.http.sampler.HTTPSamplerBase: Cannot find .className property for htmlParser, using default 2018/06/02 10:07:52 INFO — jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for text/html is 2018/06/02 10:07:52 INFO — jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for application/xhtml+xml is
Score about duration	10.0	2018/06/02 10:07:52 INFO – jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for application/xml is 2018/06/02 10:07:52 INFO – jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for text/xml is 2018/06/02 10:07:52 INFO – jmeter.protocol.http.sampler.HTTPSamplerBase: Parser for text/vnd.wap.wml is org.apache.jmeter.protocol.http.parser.RegexpHTMLPars 2018/06/02 10:07:52 INFO – jmeter.engine.StandardJMeterEngine: Listeners will be started after enabling running version
Score about parameterization	20.0	2018/06/02 10:07:52 INFO - jmeter.engine.StandardJMeterEngine: To revert to the earlier behaviour, define jmeterengine.startlistenerslater=false 2018/06/02 10:07:52 INFO - nju.edu.cn.mooctest.net.plugin.scriptprocessor.TestPlanCheck: Traverse the testplan tree 2018/06/02 10:07:52 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of thread groups
Final score	90.0	2018/06/02 10:07:52 INFO — nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of logic controllers 2018/06/02 10:07:52 INFO — nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Finish evaluating configurations of logic controllers 2018/06/02 10:07:52 INFO — nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of timers
Score about names of thread groups	10.0	2018/06/02 10:07:52 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Finish evaluating configurations of timers 2018/06/02 10:07:52 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Start evaluating configurations of csv data set config 2018/06/02 10:07:53 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: There exist parameterized variables in the sampler Flight Query
Score about synchronizing timer	10.0	2018/06/02 10:07:53 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: Checking the assertion in the sampler Flight Query 2018/06/02 10:07:53 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: http://flights.ctrip.com/booking/SHA-CAND-adu-1/?ddate1=2018-06-05&dda 2018/06/02 10:07:53 INFO - nju.edu.cn.mooctest.net.plugin.util.http.EvaluationUtil: ddate1=2018-06-05&ddate2=2018-06-08 2018/06/02 10:07:53 INFO - jmeter.protocol.http.sampler.HTTPHCAbstractImpl: Local host = d4376255343b 2018/06/02 10:07:53 INFO - jmeter.protocol.http.sampler.HTTPHC4Impl: HTTP request retry count = 3

3.查看脚本源文件——到文本编辑WebIDE



4.跳转到慕测提供的WEB IDE



5.编写测试代码选择运行

- 1. 脚本文件在main.jmx文件中编写,参数文件在data.csv文件中编写
- 2. jmx文件中使用data.csv作为引用参数文件的地址

```
运行 提交

∨ В 2017Web???????????

    main.jmx x ∃

                                       ılı data.csv
       🔼 2017-Web应用测试-性能测试-总决器
                                         1 <?xml version="1.0" encoding="UTF-8"?>
                                         2 <jmeterTestPlan version="1.2" properties="2.6" jmeter="2.11">
       main.imx
                                              <TestPlan guiclass="TestPlanGui" testclass="TestPlan" testname="Test Plan" enabled="true">
                                                <stringProp name="TestPlan.comments"></stringProp>
                                                <boolProp name="TestPlan.functional mode">false
                                                <boolProp name="TestPlan.serialize threadgroups">false/boolProp>
                                                <elementProp name="TestPlan.user defined variables" elementType="Arguments" guiclass="ArgumentsPanel" testclass="Arguments" testname="Us</pre>
                                                 <collectionProp name="Arguments.arguments"/>
                                                <stringProp name="TestPlan.user_define_classpath"></stringProp>
                                              </TestPlan>
                                              <hashTree>
                                                <ThreadGroup guiclass="ThreadGroupGui" testclass="ThreadGroup" testname="Ticket" enabled="true">
                                                  <stringProp name="ThreadGroup.on_sample_error">continue</stringProp>
                                                  <elementProp name="ThreadGroup.main controller" elementType="LoopController" guiclass="LoopControlPanel" testclass="LoopController" te</pre>
                                                    <boolProp name="LoopController.continue forever">false</boolProp>
                                                    <stringProp name="LoopController.loops">1</stringProp>
                                                  <stringProp name="ThreadGroup.num threads">1</stringProp>
                                                  <stringProp name="ThreadGroup.ramp_time">1</string</pre>
                                                        Prop name="ThreadGroup.start time">1521799081000</long
                                                        Prop name="ThreadGroup.end_time">1521799081000</longProp>
                                                  <boolProp name="ThreadGroup.scheduler">true</boolProp>
                                                  <stringProp name="ThreadGroup.duration">5</string</pre>
                                                  <stringProp name="ThreadGroup.delay"></stringProp>
                                                  <TransactionController guiclass="TransactionControllerGui" testclass="TransactionController" testname="Transaction Controller 1" enabl</p>
                                                    <boolProp name="TransactionController.includeTimers">false</boolProp>
                                                    <boolProp name="TransactionController.parent">false</boolProp>
  ▶ 运行提交 ◆ 成绩
                                                                                                                                                              行:1列:1 utf8 XML P master
```

6.选择提交,提交到服务器

```
提交
□ 2017Web??????????
                       main.imx
   🖹 main.jmx 🗴 🖽
                                        ılı data.csv
       🔼 2017-Web应用测试-性能测试-总决
                                         1 <?xml version="1.0" encoding="UTF-8"?>
d
       ılı data.csv
                                         2 <jmeterTestPlan version="1.2" properties="2.6" jmeter="2.11">
工作文件
       main.jmx
                                               <TestPlan guiclass="TestPlanGui" testclass="TestPlan" testname="Test Plan" enabled="true">
                                                 <stringProp name="TestPlan.comments"></stringProp>
                                                 <boolProp name="TestPlan.functional mode">false
                                                 <boolProp name="TestPlan.serialize_threadgroups">false/boolProp>
Ø
                                                 <elementProp name="TestPlan.user defined variables" elementType="Arguments" guiclass="ArgumentsPanel" testclass="Arguments" testname="Us</pre>
                                                  <collectionProp name="Arguments.arguments"/>
                                                 <stringProp name="TestPlan.user define classpath"></stringProp>
                                               </TestPlan>
                                                 <ThreadGroup guiclass="ThreadGroupGui" testclass="ThreadGroup" testname="Ticket" enabled="true">
                                                   <stringProp name="ThreadGroup.on_sample_error">continue</stringProp>
                                                   <elementProp name="ThreadGroup.main controller" elementType="LoopController" guiclass="LoopControlPanel" testclass="LoopController" te
                                                    <boolProp name="LoopController.continue forever">false</boolProp>
                                                    <stringProp name="LoopController.loops">1</stringProp>
                                                   </elementProp>
                                                   <stringProp name="ThreadGroup.num_threads">1</stringProp>
                                                   <stringProp name="ThreadGroup.ramp time">1</stringF</pre>
                                                   <longProp name="ThreadGroup.start_time">1521799081000</longProp>
                                                   <longProp name="ThreadGroup.end_time">1521799081000</longProp>
                                                   <boolProp name="ThreadGroup.scheduler">true</boolProp>
                                                   <stringProp name="ThreadGroup.duration">5</stringProp>
                                                 <stringProp name="ThreadGroup.delay"></stringProp>
</ThreadGroup>
                                                   <TransactionController guiclass="TransactionControllerGui" testclass="TransactionController" testname="Transaction Controller 1" enabl</p>
                                                     <boolProp name="TransactionController.includeTimers">false</boolProp>
                                                    <boolProp name="TransactionController.parent">false</boolProp>
   → 运行提交 ◆ 成绩
                                                                                                                                                               行:1列:1 utf8 XML P master
```