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安装: pip install locust
                                                         验证安装:locust -V
                                                            TaskSet:模拟用户操作类继承
                                                            class ApiDemo(TaskSet)
                                                            HttpUser:模拟用户类继承
                                                            例: class AddUser(HttpUser)
                                                            wait_time方法用于模拟用户在执行任务之间应等
                                                            待多长时间
                                                            wait_time=between(3,5)
                                          装饰器
                                                            @task:函数执行权重,数值越大,执行的频率越
                                                            on_start和on_stop方法:在继承TaskSet的用户
                                                            类中,用户开始和结束时执行该方法
                                                            host:主机属性,用于指定要测试的地址,继承
                                                           ·HttpUser类中进行指定
                                                            host="http://localhost:8080"
                                                              import os
                                                              from locust import HttpUser,task,between,TaskSet
                                                              class ApiDemo(TaskSet):
                                                                  wait_time = between(1, 2)
                                                                  @task(1)
                                                                  #get类型接口
                                                                  def getinfo(self):
                                          get请求
                                                                     self.client.get("/pinter/com/getSku?id=1")
                                                              class AddUser(HttpUser):
                                                                  tasks=[ApiDemo]
                                                                  host="http://localhost:8080"
                                                              if __name__ == '__main_ ':
                                                                  os.system("locust -f Study.py --host=http://localhost:8080 --web-host=127.0.0.1")
                                                                            import os
                                                                            from locust import HttpUser,task,between
                                                                             from locust import TaskSet
                                                                            class ApiDemo(TaskSet):
                                                                                wait_time = between(1, 2)
                                                                                #k=v类型post接口
                                                                                def post1(self):
                                          K=V类型post请求
                                                                                    self.client.post("/pinter/com/login",data={"userName":"admin","password":"1234"})
                                                                             class AddUser(HttpUser):
                                                                                tasks=[ApiDemo]
                                                                                host="http://localhost:8080"
                                                                             if __name__ == '__main__':
                                                                                os.system("locust -f Study.py --host=http://localhost:8080 --web-host=127.0.0.1")
                                                                            import os
                                                                            from locust import HttpUser, TaskSet, between, task
                                                                            class ApiDemo(TaskSet):
                                                                                wait time = between(1, 2)
                                                                                @task(2)
                                                                                #json类型post接口
                                                                                def post2(self):
                                          ison类型post请求
                                                                                    self.client.post("/pinter/com/register",json={"userName":"test","pwd":"1234"})
                                                                            class AddUser(HttpUser):
                                                                                tasks=[ApiDemo]
                                                                                host="http://localhost:8080"
                                                                                os.system("locust -f Study.py --host=http://localhost:8080 --web-host=127.0.0.1")
                                                                                from locust import HttpUser, task, between, TaskSet
                                                                               class ApiDemo(TaskSet):
                                                                                    wait_time = between(1, 2)
                                                                                    @task(2)
                                                                                    #k=json混合类型post请求
                                                                                    def post3(self):
                                          K=json类型post请求
                                                                                        self.client.post("/pinter/com/buy",data={"param":{"skuId":123,"num":10}})
                                                                               class AddUser(HttpUser):
                                                                                    tasks=[ApiDemo]
                                                                                   host="http://localhost:8080"
                                                                               if __name__ == '__main__':
    os.system("locust -f Study.py --host=http://localhost:8080 --web-host=127.0.0.1")
                                                                  from locust import HttpUser,task,between,TaskSet
                                                                  class ApiDemo(TaskSet):
                                                                     wait time = between(1, 2)
                                                                      #设置请求头
                                                                     def post2(self):
                                                                         header={"content-type":"application"}
                                                                         self.client.post("/pinter/com/register",json={"userName":"test","password":"1234"},headers=header)
                                          设置请求头
                                                                  class AddUser(HttpUser):
                                                                     tasks=[ApiDemo]
                                                                 host="http://localhost:8080"

if __name__ == '__main__':
    os.system("locust -f Study.py --host=http://localhost:8080 --web-host=127.0.0.1")
Locust框架
                                                        import random
                                                         from locust import HttpUser, task, between, TaskSet
                                                        class ApiDemo(TaskSet):
                                                             wait_time = between(1, 2)
                                                             @task(1)
                                                             #get类型接口
                                                             def getinfo(self):
                                                                 id=random.randint(1,100)
                                          断言
                                                                  with self.client.get("/pinter/com/getSku",params={"id":id},catch_response=True) as respon:
                                                                      if respon.json()["code"]=="0":
                                                                        respon.success()
                                                                      else:
                                                                          respon.failure("断言失败")
                                                         class AddUser(HttpUser):
                                                             tasks=[ApiDemo]
                                                             host="http://localhost:8080"
                                                        if __name__ == '__main__':
    os.system("locust -f Study.py --host=http://localhost:8080 --web-host=127.0.0.1")
                                                            import os
                                                            from locust import HttpUser, TaskSet, between, task
                                                            class ApiLogin(TaskSet):
                                                                wait time = between(1,3)
                                                                #用python代码读取参数化文件
                                                                def get_data(self):
                                                                   userdata=[]
                                                                    with open("./userinfo.txt", encoding="utf-8")as f:
                                                                      result = f.readlines()
                                                                   for i in result:
                                                                       userdata=userdata.append(userinfo)
                                                                def on_start(self):
    self.get_data()
                                                                etask(3)
                                                                def login(self):
    login_url="/pinter/com/login"
                                                                       response=self.client.post(url=login_url,data={"userName":self.on_start()[i]["username"],"password":self.on_start()[i]["password"]})
                                                                       result=response.ison()
                                                                       if result["message"]==self.on_start()[i]["msg"]:
print("断言成功")
                                                            print("断言失败")
class AddUser(HttpUser):
                                          参数化
                                                                tasks=[ApiLogin]
                                                                wait time = between(1,2)
                                                                host="http://127.0.0.1:8080"
                                                               __name__ == '__main__':
os.system("locust -f Demo2.py --host=http://127.0.0.1:8080 --web-host=127.0.0.1")
                                                            参数化还可以使用lxml直接提取网页中信息,或
                                                            者队列方式
                                                                   import os
                                                                   from locust import HttpUser,TaskSet,between,task
#cookie关联
                                                                   class ApiQuery(TaskSet):
                                                                                       locust发起请求采取requests.session(),即自动处理cookie
                                                                    def login(self):
                                                                       resp=self.client.post("/pinter/bank/api/login",data={"userName":"admin","password":1234})
                                                                        print(resp.json())
                                                                    def guery cookie(self):
                                                                        res=self.client.get("/pinter/bank/api/query",params={"userName":"admin"})
print(res.json())
                                          cookie关联
                                                                    def on_start(self):
    self.login()
                                                                   class AddUser (HttpUser) :
                                                                      tasks=[ApiQuery]
                                                                      wait time = between(1,2)
                                                                   host="http://127.0.0.1:8080"

if __name__ == '__main__':
    os.system("locust -f Demo3.py --host=http://127.0.0.1:8080 --web-host=127.0.0.1")
                                                                  from locust import HttpUser, TaskSet, between, task
                                                                  #token关联
                                                                  class ApiQuery(TaskSet):
                                                                   def login(self):
                                                                       resp=self.client.post("/pinter/bank/api/login2",data={"userName":"admin","password":1234})
login_token=resp.json()["data"]
                                                                       return login token
                                                                   def query cookie(self):
    header = {"testfan-token": self.on_start()}
    res=self.client.get("/pinter/bank/api/query2",params={"userName":"admin"},headers=header)
    print(res.json())
                                          token关联
                                                                    def on start(self):
                                                                  self.login()
class AddUser(HttpUser):
                                                                                                            token关联
                                                                     tasks=[ApiQuery]
wait_time = between(1,2)
                                                                  host="http://127.0.0.1:8080"
if __name__ == '__main__':
                                                                     os.system("locust -f Demo3.py --host=<u>http://127.0.0.1:8080</u> --web-host=127.0.0.1")
                                                                  主机(控制机) --master
                                                                  启动主机
                                                                  locust -f 待测脚本 --master
                                                                  从机(负载机) --worker
                                          分布式压线
                                                                  启动从机
                                                                  locust -f 待测脚本 --worker --master-host=主机IP地址
                                                                  注意:分布式压测时间,主计算机和每个从计算机都必须具有测试脚本
                                                                  建议启动模拟用户数量要大于locust类的数量*从机数量
                                                                    命令行运行
                                                                    locust -f 待测脚本 --host=服务器ip --headless -u 10 -r 2 -t 1m
                                                                    --headless:命令行运行
                                          no-web模式
                                                                    -u:设置虚拟用户数
                                                                    -r:设置每秒启动虚拟用户数
                                                                    -t:设置运行时间
```