## **Assignment4 Jmeter**

Install JMeter

```
brew update
brew install jmeter
```

how to run Jmeter GUI

```
jmeter
```

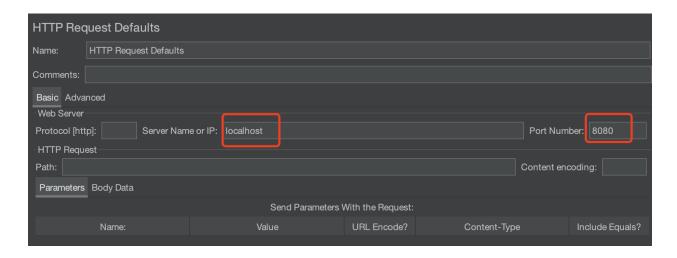
· create test plan

Right-click the Test Plan node and select Add > Threads (Users) > Thread Group.



Right-click on the Thread Group, select Add > Config Element > HTTP Request Defaults.

change this into our actual serverName/IP and port number.



Right-click on the Thread Group, select Add > Sampler > HTTP Request.

FYI, our database populate procedure will use below params:

ResortID: constant 1

SeasonID: constant 2

DayID: {1,2,3}

- keep the number of skiers and lift rides as default values for first 3
  assignments: let's say number of skiers to be 100k, the number of lift rides
  to be 200k while skierID will random from [1,100k]
- Our load testing APIs:
  - GET/skiers/{resortID}/seasons/{seasonID}/days/{dayID}/skiers/{skierID}
     get the total vertical for the skier for the specified ski day

Write below into the path:

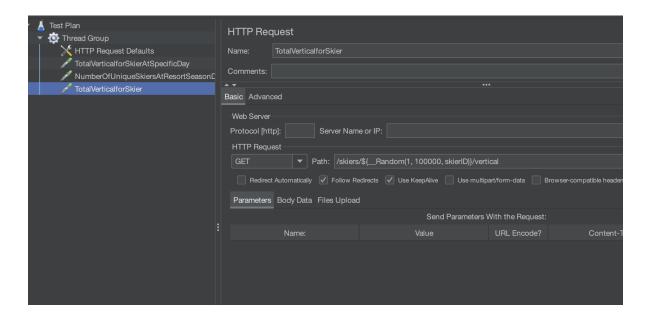
/skiers/1/seasons/2024/days/\${\_\_Random(1, 3, dayID)}/skiers/\${\_\_Random(1, 100000, skierID)}

 GET/resorts/{resortID}/seasons/{seasonID}/day/{dayID}/skiers get number of unique skiers at resort/season/day

/resorts/1/seasons/2024/day/\${\_\_Random(1, 3, dayID)}/

 GET/skiers/{skierID}/vertical get the total vertical for the skier for specified seasons at the specified resort

/skiers/\${\_\_Random(1, 100000, skierID)}/vertical

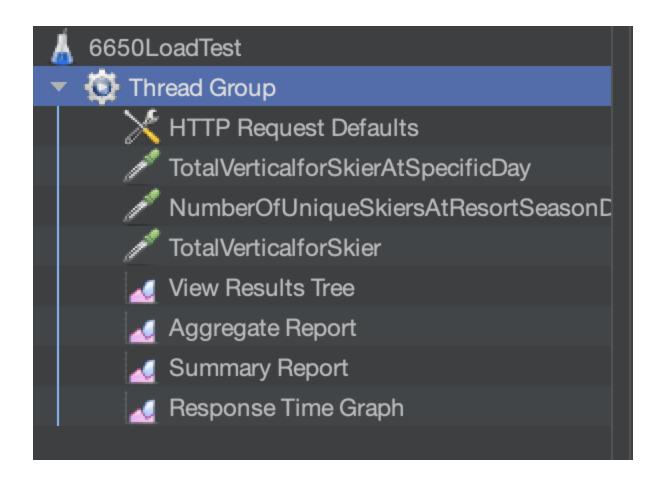


## Add Listener

Right-click on the Thread Group, select Add > Listener > View Results Tree to inspect individual request/response details.

Add Add > Listener > Aggregate Report to see aggregate statistics including average, median, 90th percentile (p90), etc.

Add Add > Listener > Summary Report and Add > Listener > Response Times Over Time to track response times and other statistics during the test.



## how to run

- run in the GUI click the green button
- run in the CLI

```
jmeter -n -t your_test_plan.jmx -l test_results.jtl -e -o /pa
```