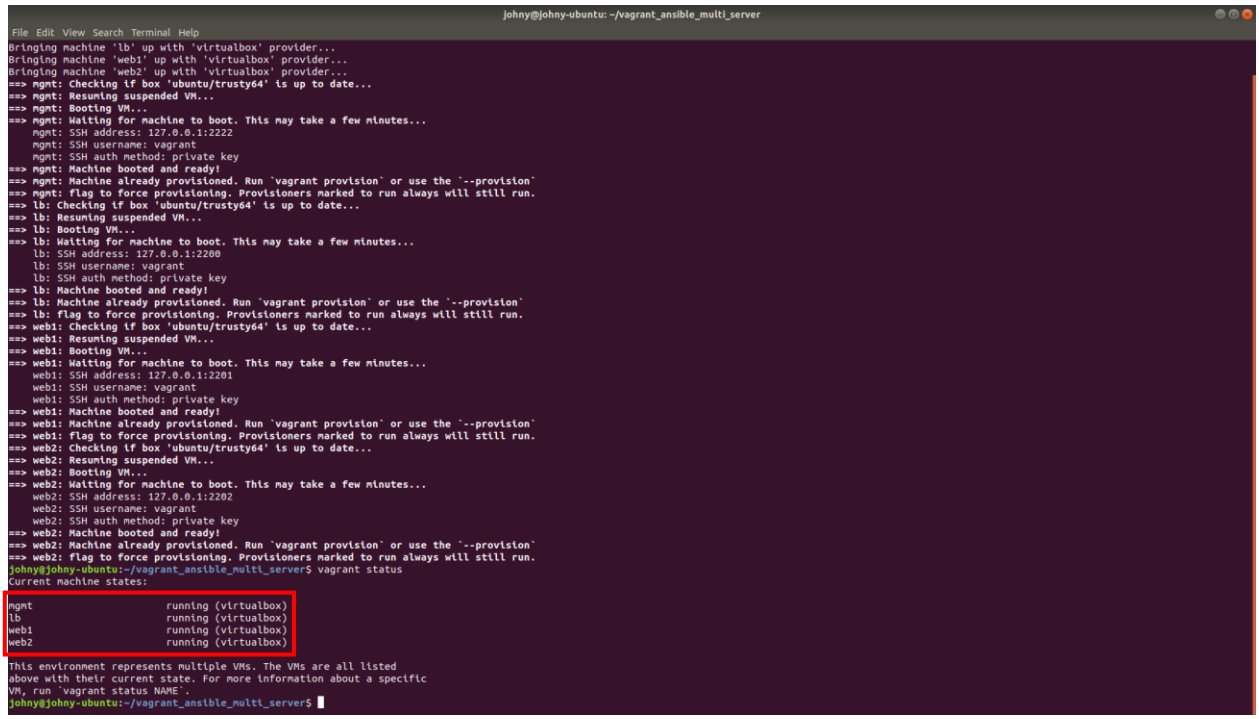
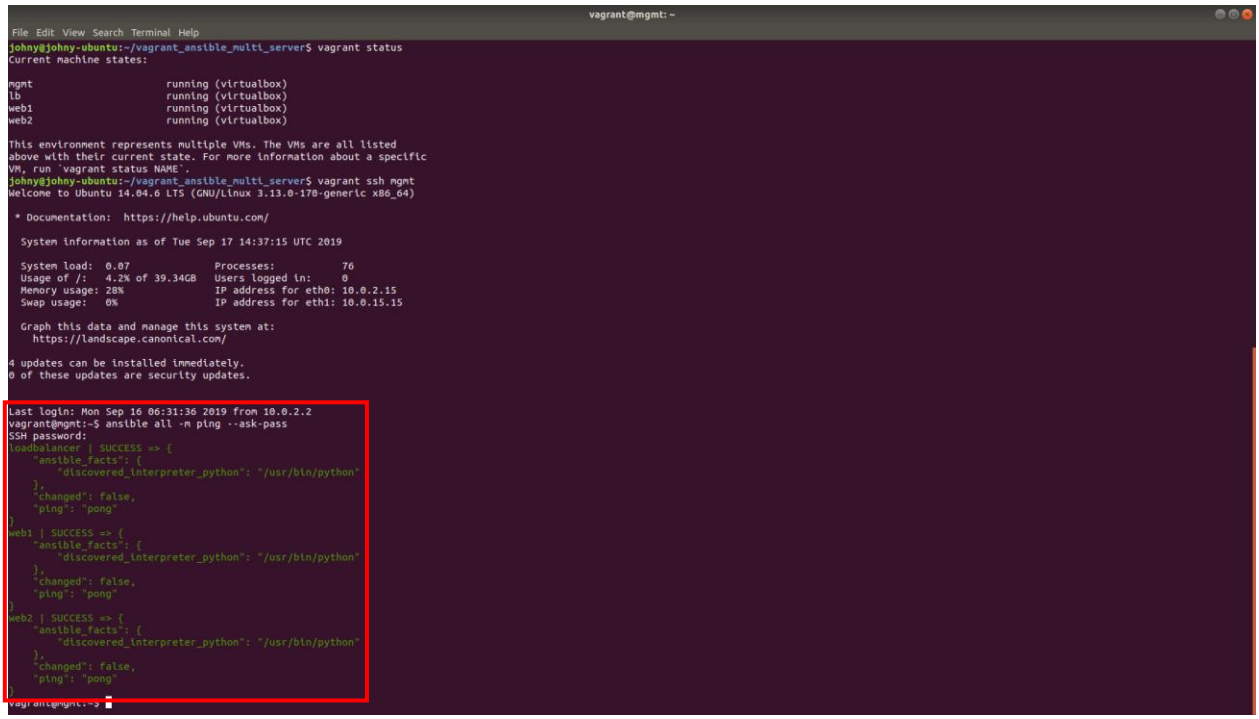
Vagrant & Load Balancing & JMeter Load Testing

Johny Huang – 01082170004

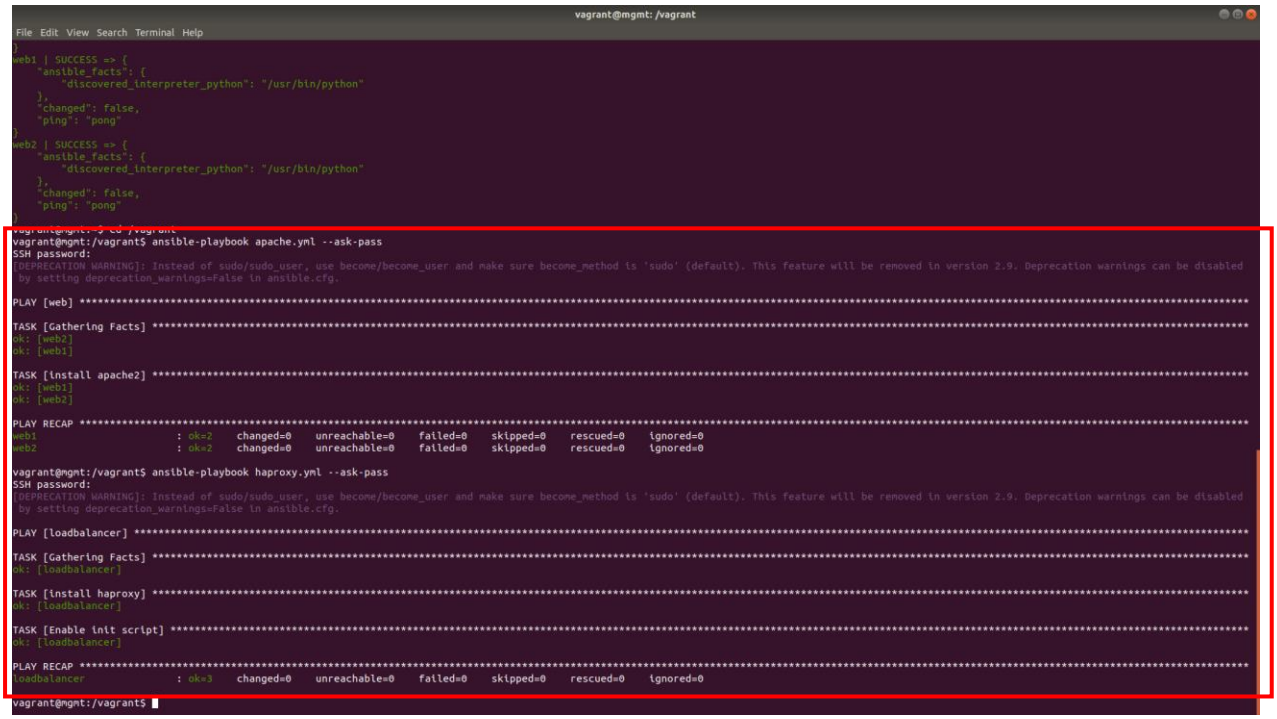
Vagrant status



Testing connection to all machines in ansible environment

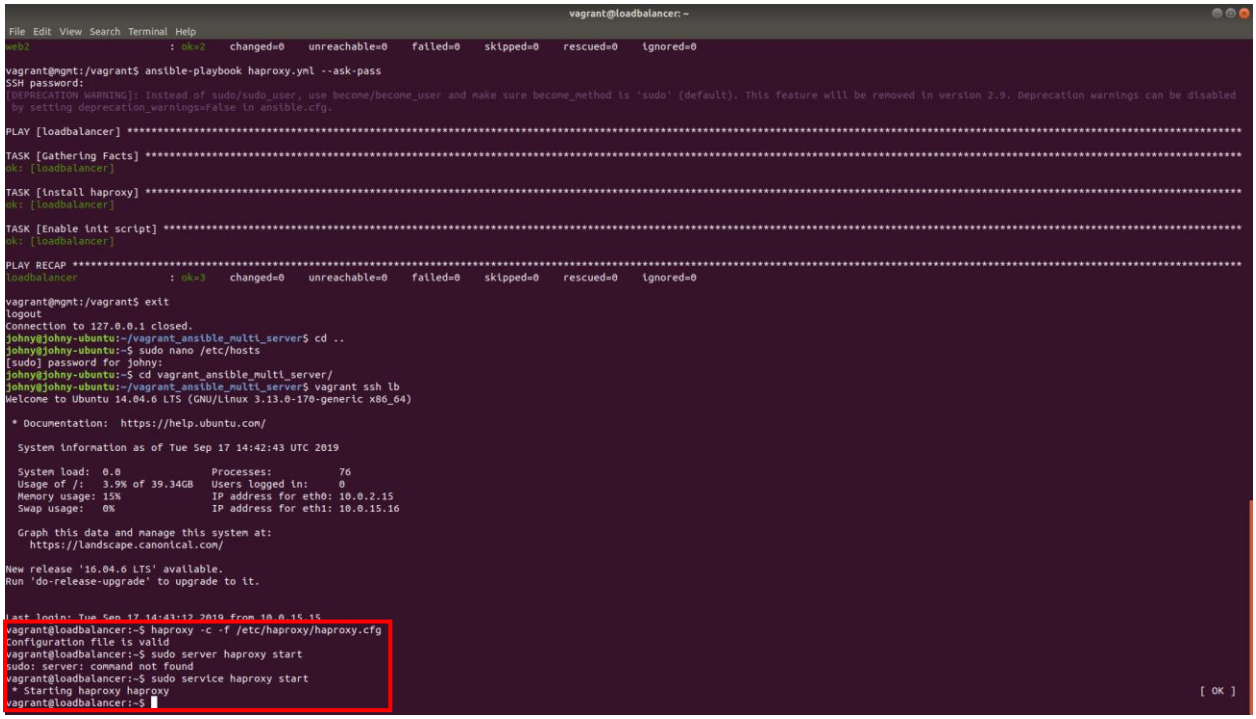


Installing Apache & HAProxy

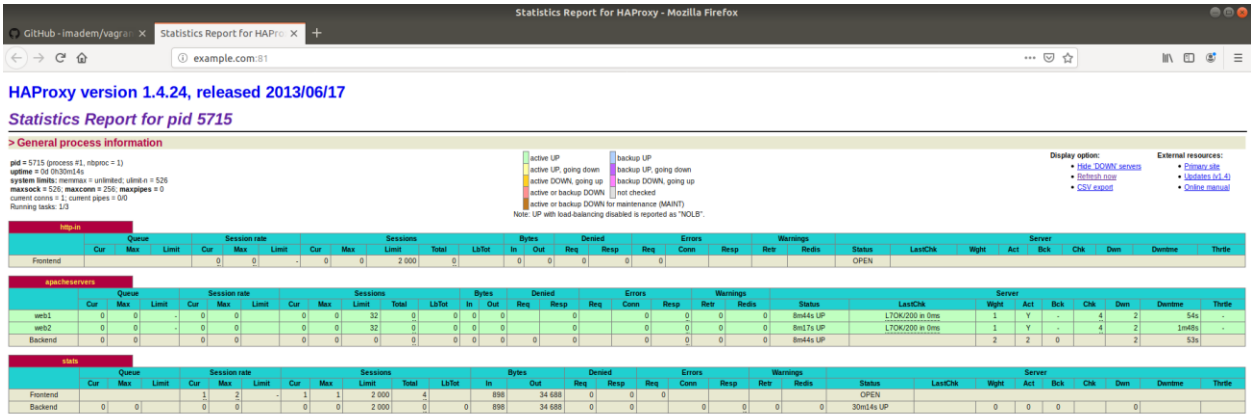


Setting mgmt server

Starting HAProxy Load Balancer

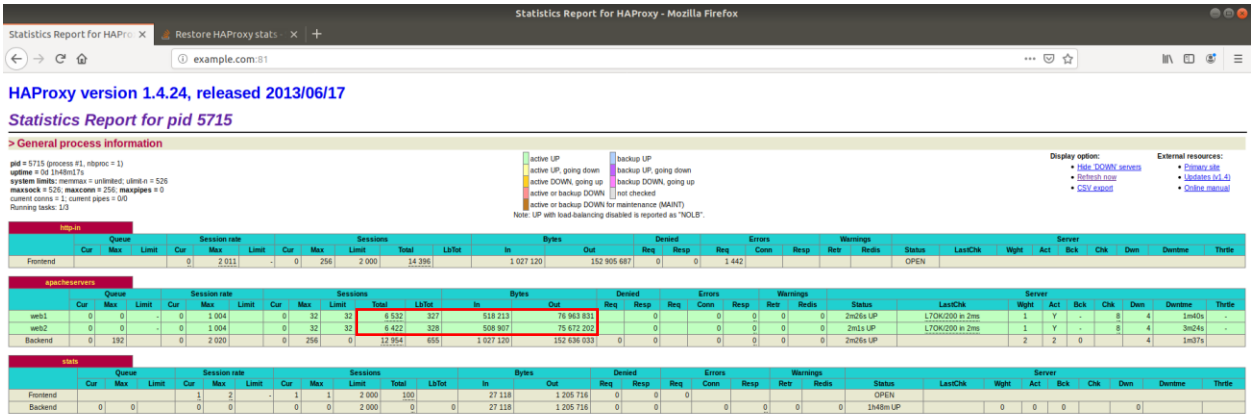


HAProxy Stats Page

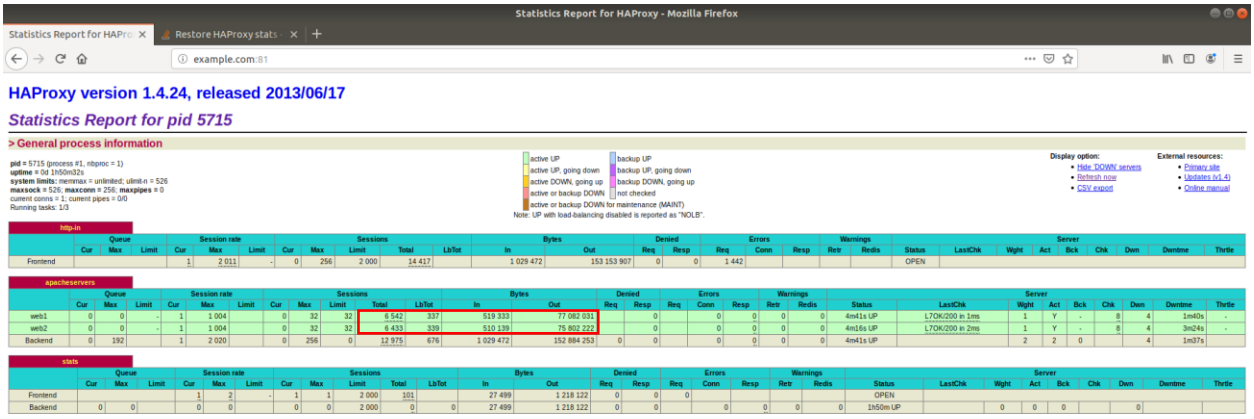


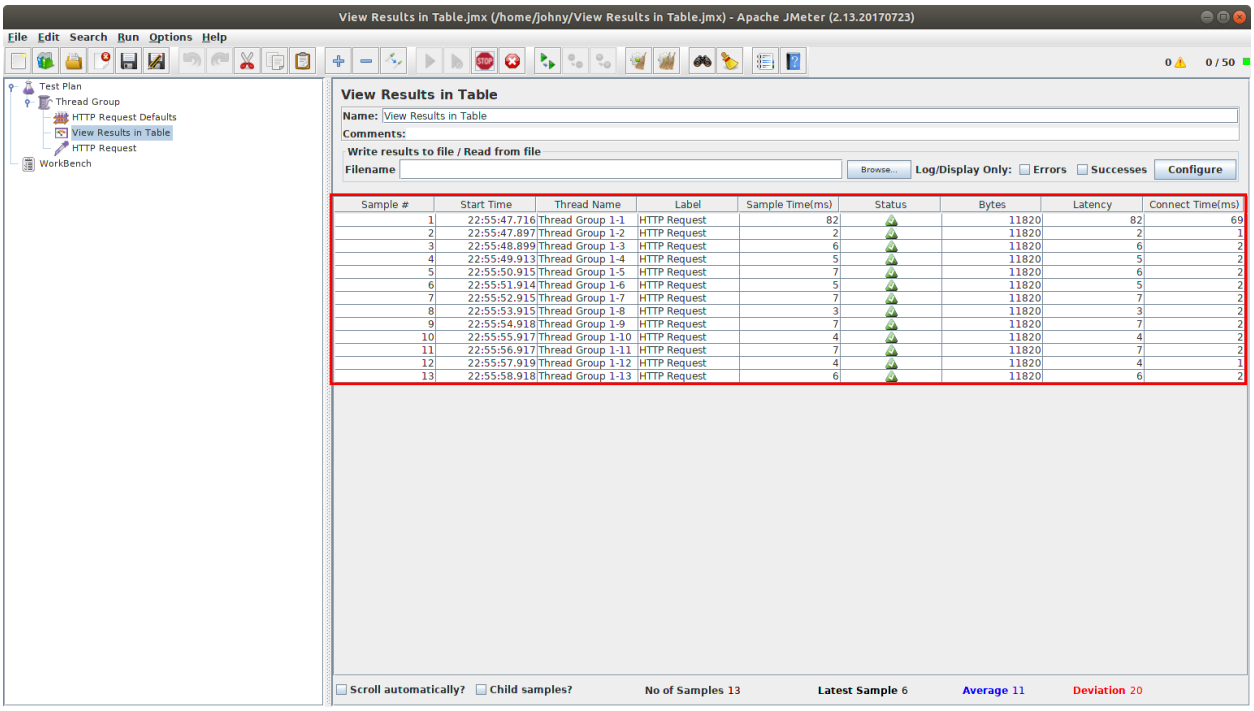
JMeter

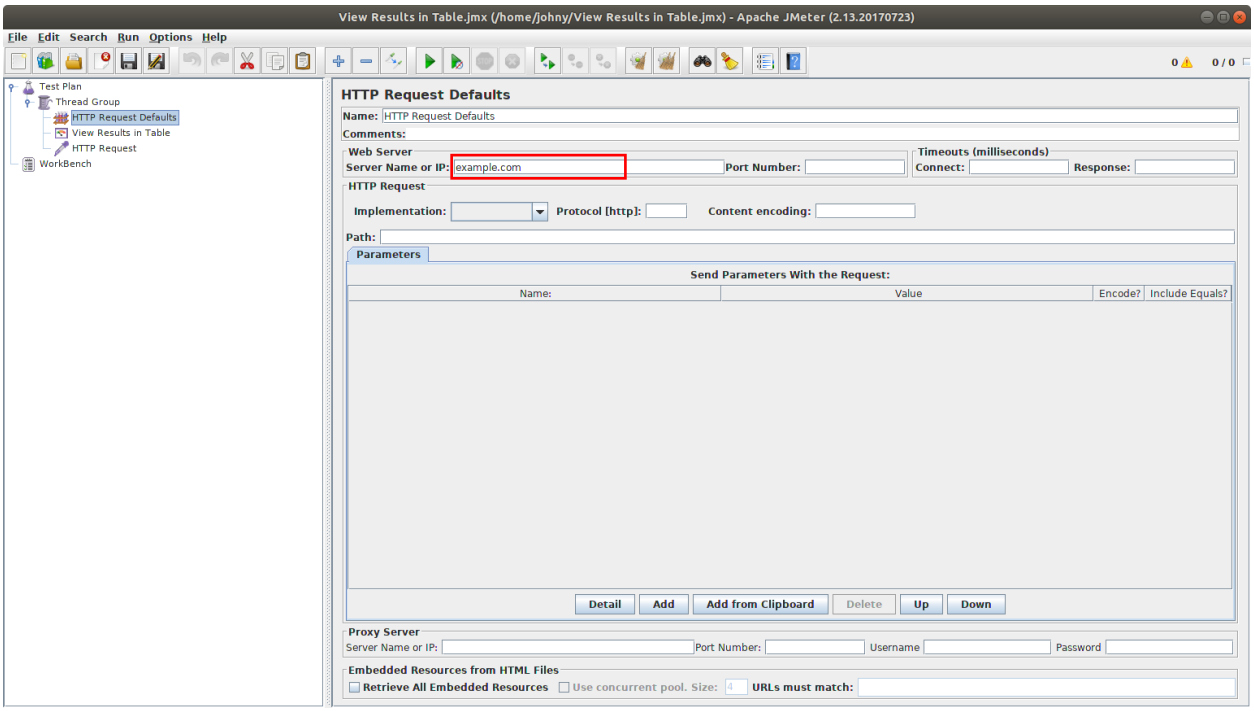
Before load test

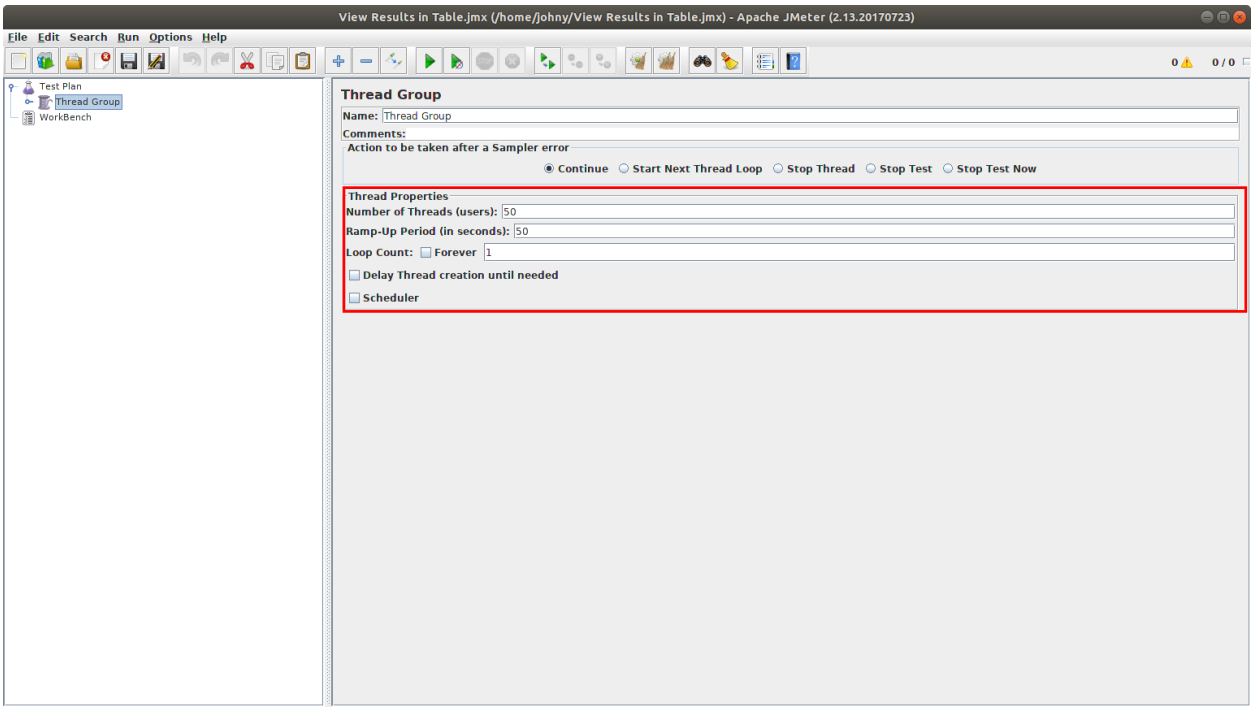


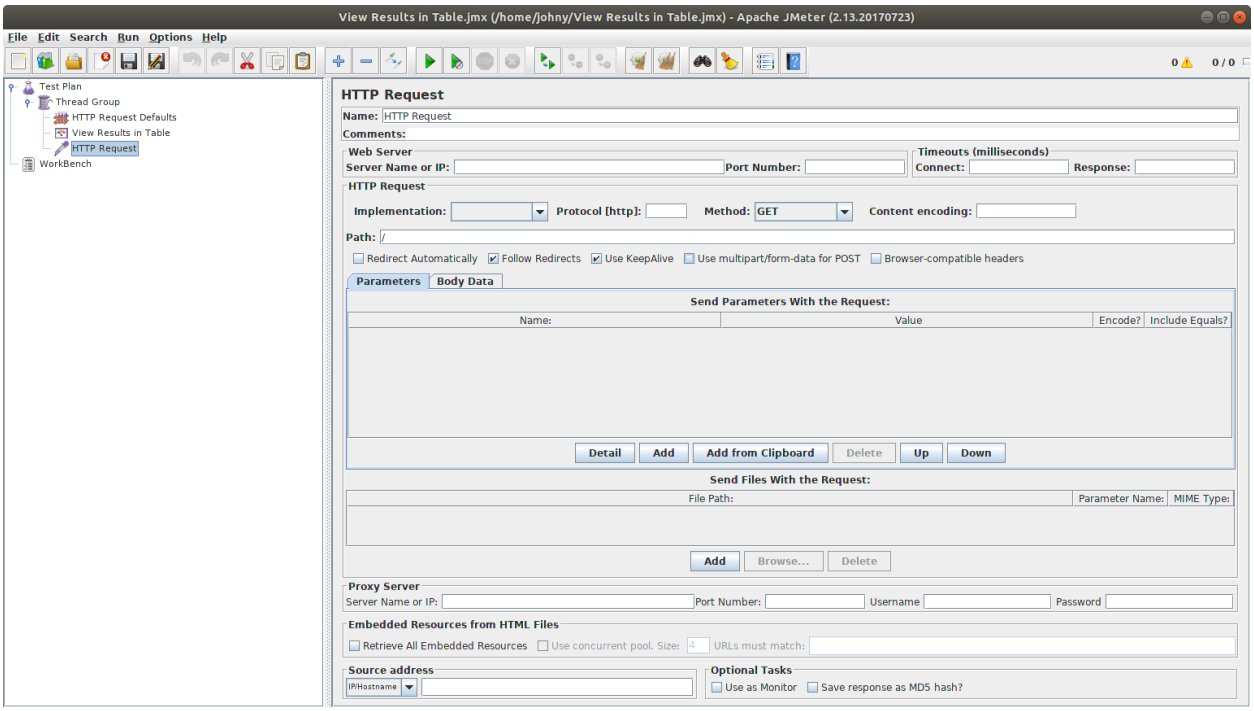
After load test




View Results in Table.jmx (/home/johny/View Results in Table.jmx) - Apache JMeter (2.13.20170723)
File Edit Search Run Options Help
0 0 / 50
Test Plan
Thread Group
HTTP Request Defaults
View Results in Table
HTTP Request
WorkBench
View Results in Table
Name: View Results in Table
Comments:
Write results to file / Read from file
Filename
Browse...
Log/Display Only: Errors Successes
Configure
Sample # Start Time Thread Name Label Sample Time(ms) Status Bytes Latency Connect Time(ms)
1 22:55:47.716 Thread Group 1-1 HTTP Request 82 11820 82 69
2 22:55:47.897 Thread Group 1-2 HTTP Request 2 11820 2 1
3 22:55:48.899 Thread Group 1-3 HTTP Request 6 11820 6 2
4 22:55:49.913 Thread Group 1-4 HTTP Request 5 11820 5 2
5 22:55:50.915 Thread Group 1-5 HTTP Request 7 11820 6 2
6 22:55:51.914 Thread Group 1-6 HTTP Request 5 11820 5 2
7 22:55:52.915 Thread Group 1-7 HTTP Request 7 11820 7 2
8 22:55:53.915 Thread Group 1-8 HTTP Request 3 11820 3 2
9 22:55:54.918 Thread Group 1-9 HTTP Request 7 11820 7 2
10 22:55:55.917 Thread Group 1-10 HTTP Request 4 11820 4 2
11 22:55:56.917 Thread Group 1-11 HTTP Request 7 11820 7 2
12 22:55:57.919 Thread Group 1-12 HTTP Request 4 11820 4 1
13 22:55:58.918 Thread Group 1-13 HTTP Request 6 11820 6 2
Scroll automatically? Child samples? No of Samples 13 Latest Sample 6 Average 11 Deviation 20


View Results in Table.jmx (/home/johny/View Results in Table.jmx) - Apache JMeter (2.13.20170723)
File Edit Search Run Options Help
0 0 / 0
Test Plan
Thread Group
HTTP Request Defaults
View Results in Table
HTTP Request
WorkBench
HTTP Request Defaults
Name: HTTP Request Defaults
Comments:
Web Server
Server Name or IP: example.com
Port Number:
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]:
Content encoding:
Path:
Parameters
Send Parameters With the Request:
Name: Value Encode? Include Equals?
Detail Add Add from Clipboard Delete Up Down
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size:
URLs must match:


View Results in Table.jmx (/home/johny/View Results in Table.jmx) - Apache JMeter (2.13.20170723)
File Edit Search Run Options Help
Test Plan
Thread Group
WorkBench
Thread Group
Name: Thread Group
Comments:
Action to be taken after a Sampler error
Continue Start Next Thread Loop Stop Thread Stop Test Stop Test Now
Thread Properties
Number of Threads (users): 50
Ramp-Up Period (in seconds): 50
Loop Count: Forever 1
Delay Thread creation until needed
Scheduler


View Results in Table.jmx (/home/johny/View Results in Table.jmx) - Apache JMeter (2.13.20170723)
File Edit Search Run Options Help
Test Plan
Thread Group
HTTP Request Defaults
View Results in Table
HTTP Request
WorkBench
HTTP Request
Name: HTTP Request
Comments:
Web Server
Server Name or IP:
Port Number:
Timeouts (milliseconds)
Connect:
Response:
HTTP Request
Implementation:
Protocol [http]:
Method: GET
Content encoding:
Path: /
Redirect Automatically Follow Redirects Use KeepAlive Use multipart/form-data for POST Browser-compatible headers
Parameters Body Data
Send Parameters With the Request:
Name: Value Encode? Include Equals?
Detail Add Add from Clipboard Delete Up Down
Send Files With the Request:
File Path: Parameter Name: MIME Type:
Add Browse... Delete
Proxy Server
Server Name or IP:
Port Number:
Username
Password
Embedded Resources from HTML Files
Retrieve All Embedded Resources
Use concurrent pool. Size:
URLs must match:
Source address
IP/Hostname
Optional Tasks
Use as Monitor
Save response as MD5 hash?