**Performance Testing for Igor Using Apache Benchmarking Tool**

<https://httpd.apache.org/docs/2.4/programs/ab.html>

Setting up:

Operating System used: Centos 7.4 (<https://www.centos.org/>)

Steps to install AB on Centos 7.4

1. Open a shell

2. Login as root

3. Type ‘yum install httpd-tools’ (<https://thegrue.org/install-apache-benchmark-centos/>)

**Testing Igor With Capabilities**

First, install Igor from Git (access-capabilities branch) :<https://github.com/cwi-dis/igor/tree/access-capabilities>

1. Testing response time for first page – https

Execute: ab -n 100 -c 10 [https://igor.local:9333/](https://igor.fritz.box:9333/)

2. Testing response time for reading pauline’s data in /data/people/pauline

Steps:

a) First, we need to get the “cookie” for the session to login to Igor for this script to work. Run

*wget --save-cookies cookies.txt \*

*--keep-session-cookies \*

*--no-check-certificate\*

*--post-data 'username=admin&password=p-ranger' \*

*--delete-after \*

*https://igor.local:9333/login*

b) Then, get the content of the cookie by typing “cat cookies.txt”

c) Copy the cookie, for example, 'webpy\_session\_id=f7c9c673a54caaac401501af68a237f3e99f9ae6'

d) Add cookie into the script for AB:

ab -n 100 -c 10 -C 'webpy\_session\_id=f7c9c673a54caaac401501af68a237f3e99f9ae6'  [https://igor.local:9333/data/people/pauline](https://igor.fritz.box:9333/data/people/pauline)

3. Testing response time for POST data in Igor

a) For POST, we need a text file to store the content to post into Igor. Create a text file called beep.txt by typing “echo "Someone rang the bell beep beep beep!" > beep.txt”

b) Then, run this script : ab -n 100 -c 10 -p beep.txt -C 'webpy\_session\_id=f7c9c673a54caaac401501af68a237f3e99f9ae6'  [https://igor.local:9333/data/environment/messages/message](https://igor.fritz.box:9333/data/environment/messages/message)

4. Testing response time for PUT data in Igor

a) For PUT, similar step as POST

b) Run this script : ab -n 100 -c 10 -u beep.txt -C 'webpy\_session\_id=f7c9c673a54caaac401501af68a237f3e99f9ae6'  [https://igor.local:9333/data/environment/messages/message](https://igor.fritz.box:9333/data/environment/messages/message)

**Testing Igor Without Capabilities**

First, install Igor from Git (older branch) : [https://github.com/cwi-dis/igor/tree/30f3848682ccaa92cde76da24ef4716838a7b665](https://github.com/cwi-dis/igor/tree/access-none)

1. Testing response time for first page – http

Execute : ab -n 100 -c 10 [http://igor.local:9333/](http://igor.fritz.box:9333/)

2. Testing response time for reading pauline’s data in /data/environment/morninggreeting

Execute : ab -n 100 -c 10 [http://igor.local:9333/data/environment/morninggreeting](http://igor.fritz.box:9333/data/environment/morninggreeting)

3. Testing response time for POST data in Igor (see earlier section on how to create “beep.txt”)

Execute : ab -n 100 -c 10 -p beep.txt http://igor.local:9333/data/environment/messages/message

4. Testing response time for PUT data in Igor

a) For PUT, similar step as POST

b) Run this script : ab -n 100 -c 10 -u beep.txt [https://igor.local:9333/data/environment/messages/message](https://igor.fritz.box:9333/data/environment/messages/message)