

Elastic Cloud Computing

Terminology

Number of available server – This is total number of servers available with the organization to handle/process all the requests that come in.

Maximum load of each machine – This is maximum number of request each server can handle in one second. Maximum load of 4 means each server can process maximum of 4 request in one second. The 5th request in that second will go to another server or it will get queued.

Time (in seconds) – This is the timer that will run for number of seconds entered. For each second, random number of request will come to servers and servers will handle them based on their load.

Number of virtual machine used – This is the output that will show the number of servers used from the pool of servers in the specified time.

Maximum waiting time – This is the output result that will show the maximum time any request waited in the server queue to be processed.

Run configuration

1. Open the project in NetBeans and run it
2. Enter the number of available servers in the organization. Click on 'Allocate the Servers' button
Number of Servers entered will be allocated
3. Enter the maximum load of each server
4. Enter the time (in seconds)
5. Click on start button
Application will start and run for the time (in seconds) specified
6. Once application's run completes, the number of virtual machine/servers used in specified time will be shown. Also, maximum waiting time of the request will be shown

The screenshot shows a web application titled "Elastic Cloud Computing". It contains several input fields and buttons. The inputs are: "Enter the number of available servers" with value 3, "Enter maximum load of each machine" with value 4, "Enter the time (in seconds)" with value 3, "Number of Virtual Machines user" with value 2, and "Maximum waiting time" with value 3. There are two buttons: "Allocate the Servers" and "Start".

Elastic Cloud Computing	
Enter the number of available servers	3
Enter maximum load of each machine	4
Enter the time (in seconds)	3
Start	
Number of Virtual Machines user	2
Maximum waiting time	3