Github link: https://github.com/Darpan313/newProj5409

Marathon service is RESTfulAPI which can return factorial and Fibonacci of given number N.
http://{host-addr}:5557/fibonacci/{number}
http://{host-addr}:5557/factorial/{number}

To run service on Marathon, deploy jar file located in 'build/libs' path.

```
{
  "id": "/fibfactservice",
  "cmd": "`https://raw.githubusercontent.com/Darpan313/newProj5409/master/marathonservice/build/libs
  /marathonservice-1.0-SNAPSHOT-all.jar && java -jar marathonservice-1.0-SNAPSHOT-all.jar.jar`",
  "cpus": 1,
  "mem": 1000,
  "disk": 512,
  "instances": 1,
  "acceptedResourceRoles": [],
  "portDefinitions": [
    {
      "port": 10000,
      "name": "default",
      "protocol": "tcp"
    }
  ]
}
```

Simple Client is application to request api, To run simple client run jar file present in 'build/libs'

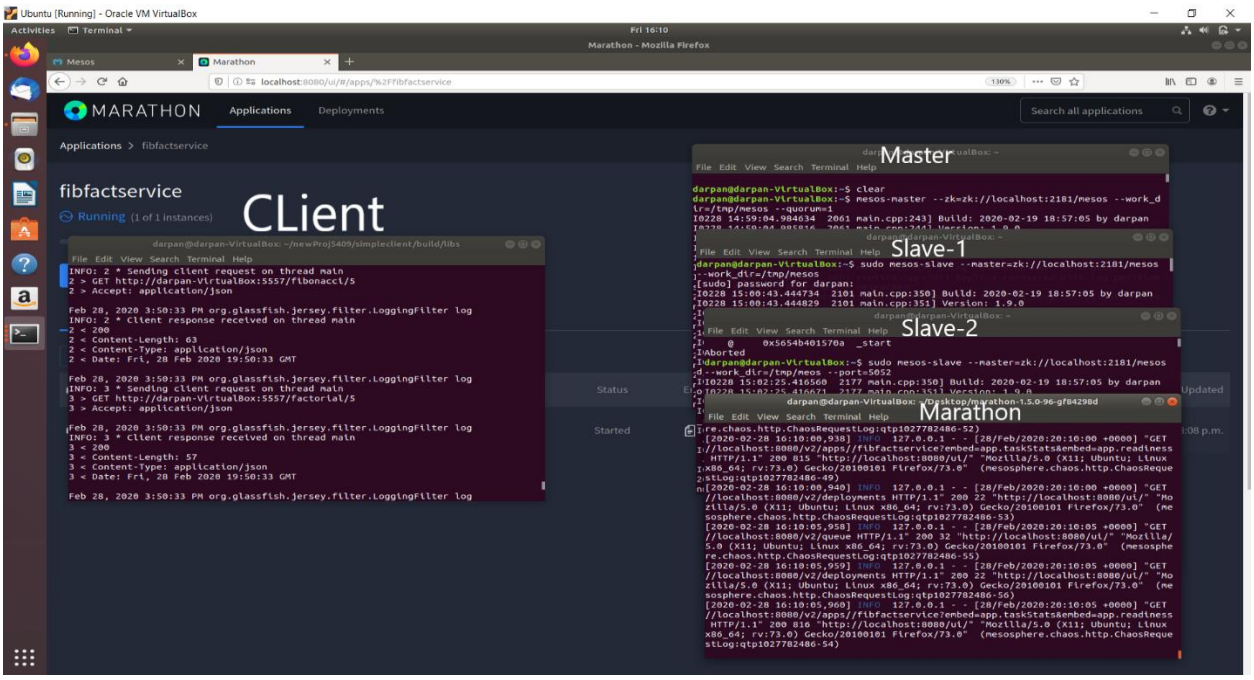

Figure 1: Running Mesos master, agent, marathon & Client

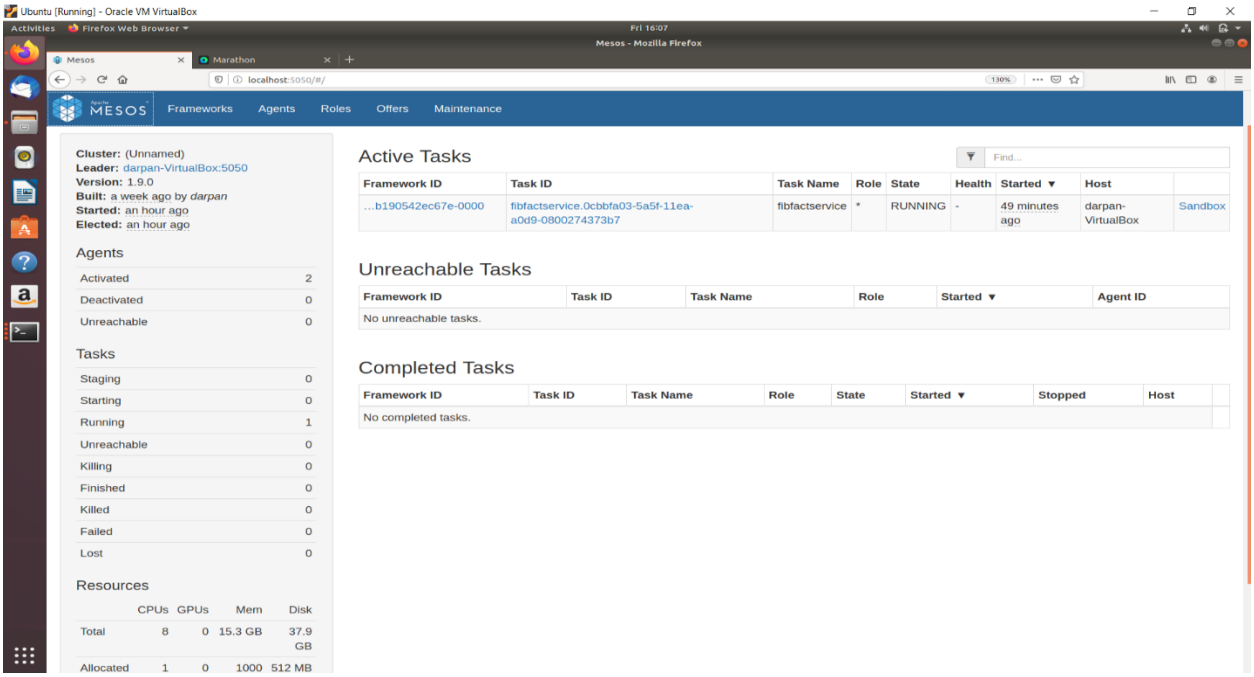

Figure 2: Mesos

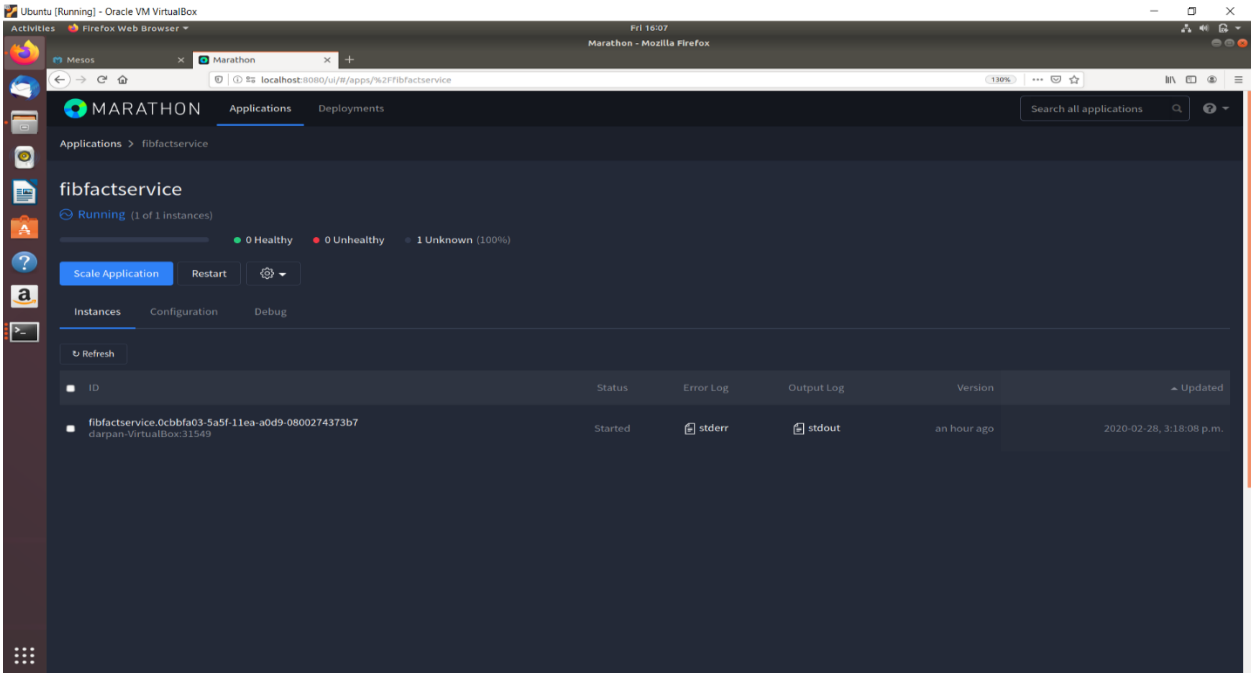

Figure 3: Marathon

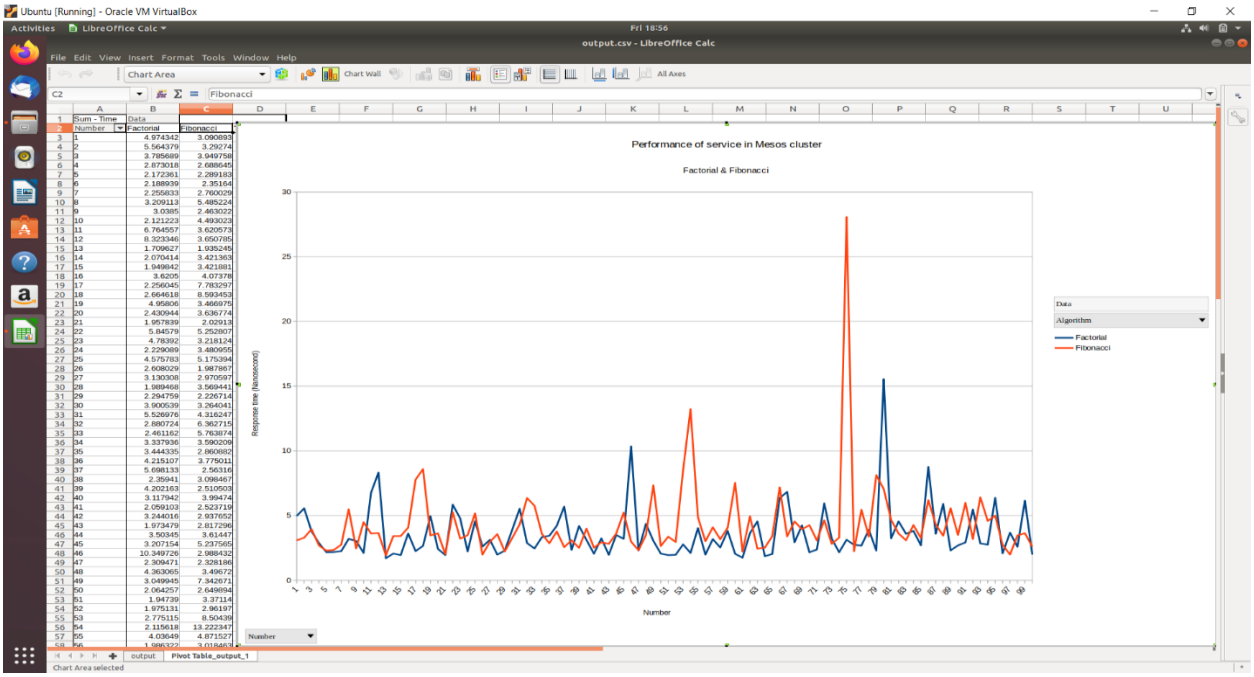

Figure 4: Graph