PRACTICAL-3

AIM

Perform following using Cloud Analyst:

- 1. Install a Cloud Analyst and Integrate with NetBeans. Monitor the performance of an Existing Algorithms given in Cloud Analyst.
- 2. Modify or propose a new load balancing algorithm compatible with Cloud Analyst

THEORY

CloudAnalyst:

- Cloud Analyst is a tool developed at the University of Melbourne whose goal is to support evaluation of social networks tools according to geographic distribution of users and data centers.
- In this tool, communities of users and data centers supporting the social networks are characterized and, based on their location; parameters such as user experience while using the social network application and load on the data center are obtained/logged.

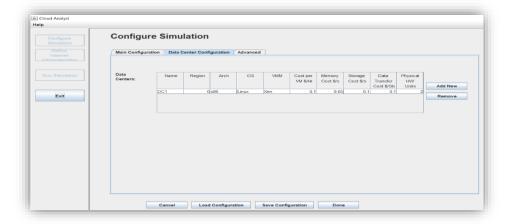
IMPLEMENTATION

- Download CloudAnalyst
- Extract Files from the Zip file which will give following folder structure.
- If you want to Run from Command line then type the following command in cmd.

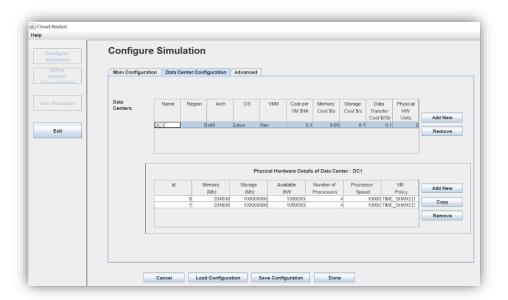
java -cp jars\simjava2.jar;jars\gridsim.jar;jars\iText-2.1.5.jar;classes;. cloudsim.ext.gui.GuiMain



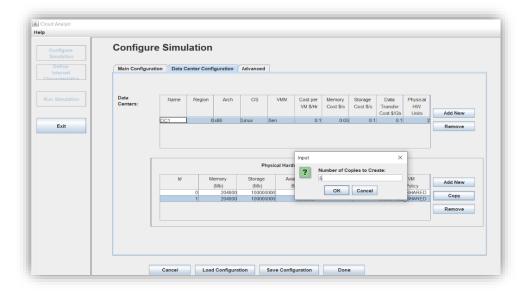
- Click on CONFIGURE Simulation.
- Data Center Configuration where you can manage Physical Hardware Details of Data center.



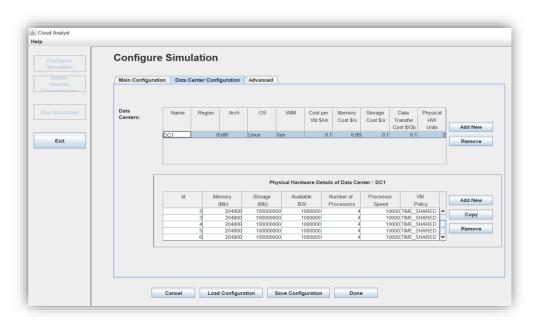
• We can double click on Datacenter to open Host information.



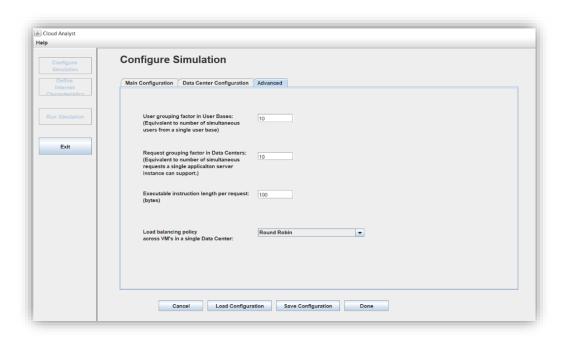
• We can click on any host and copy it as many time as we want.



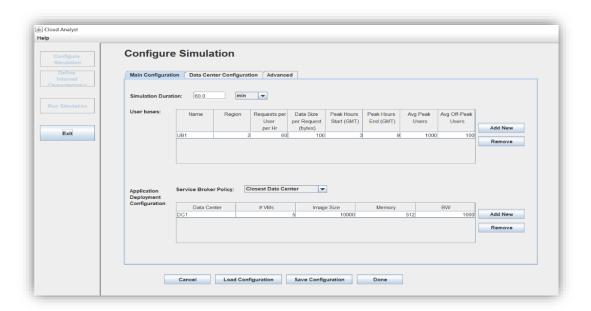
• Here we are creating 5 copies of one of them so it will give us total of 6 hosts.



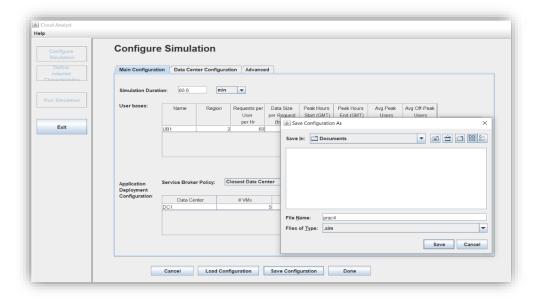
• We can also configure advanced settings.



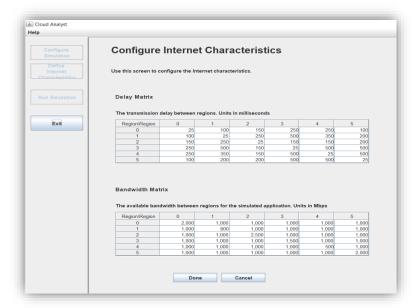
• We can also customize user base that is models a group of users and generates traffic representing the users.



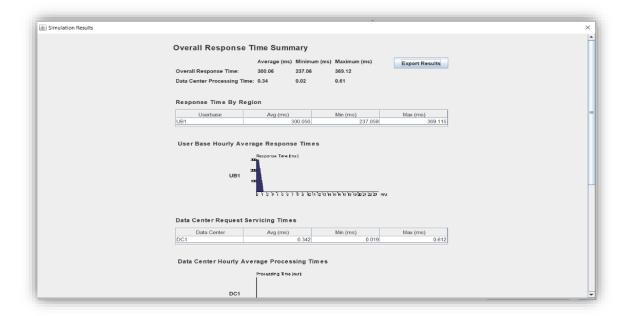
• You can Save this Configuration as well in case you want to use it later. It is stored as .sim file. XML data is generated and saved as Sim file.



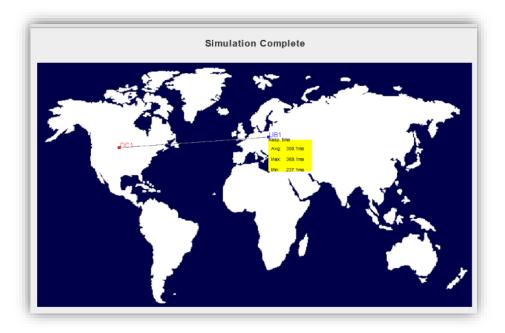
- Saved configuration can be loaded anytime easily into CloudAnalyst.
- So you need to enter data each time you want to run simulation.
- Once your are done with Configuration; click on Done!!!
- We can check bandwidth and delay between regions in "Define Internet Characteristic"



• Then we can run simulation that would give us overall report of simulation.



- We can close it.
- Main Window will give all statistics.



CONCLUSION

In this practical, I learnt the basics of cloud analyst and it's application.