

CLOUD PERFORMANCE ANALYSIS WITH CLOUD ANALYST

Exp No.: 12

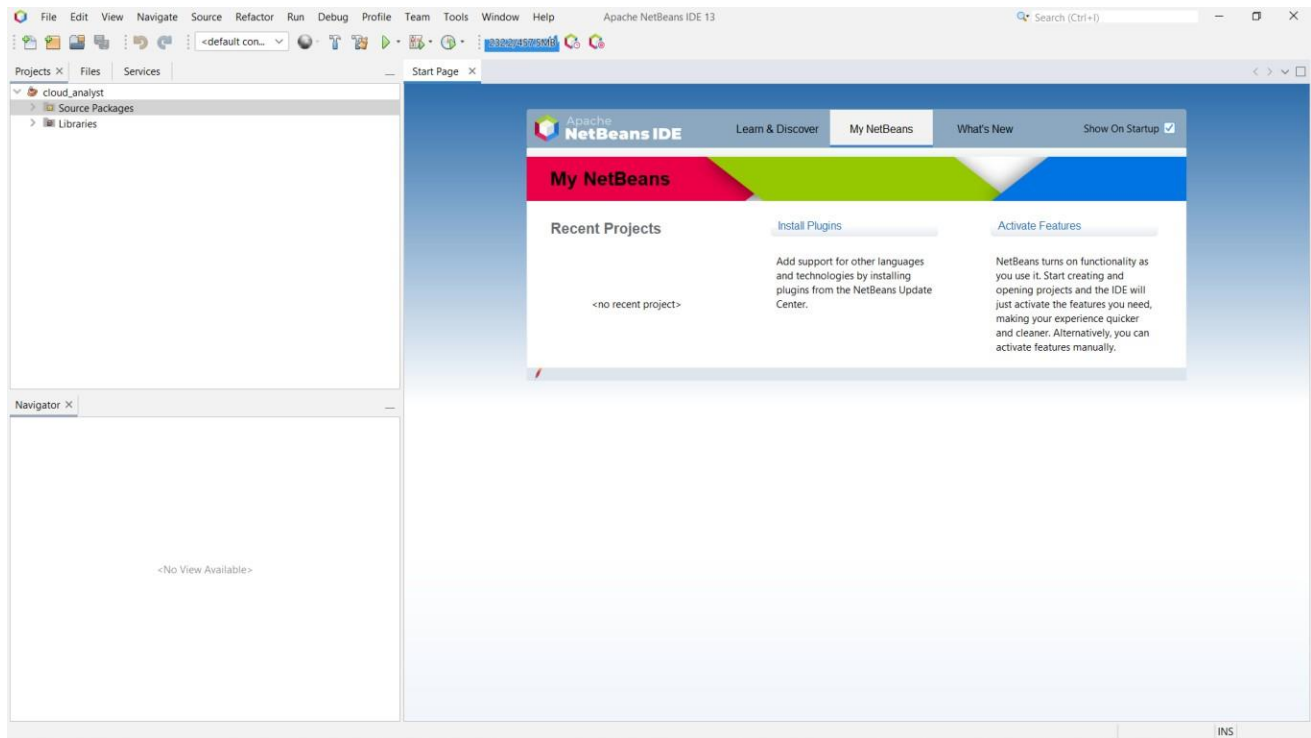
Date: 05-06-2022

AIM:

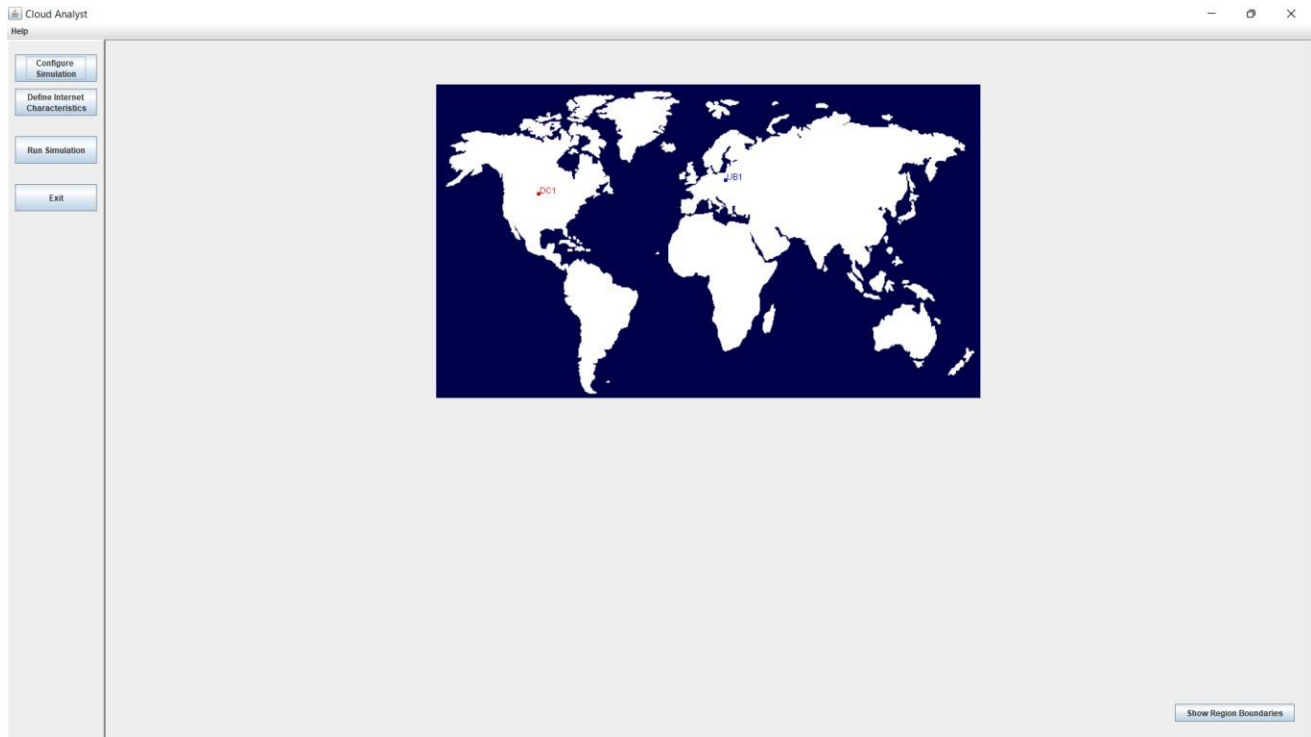
To perform cloud performance analysis with Cloud Analyst tool.

PROCEDURE:

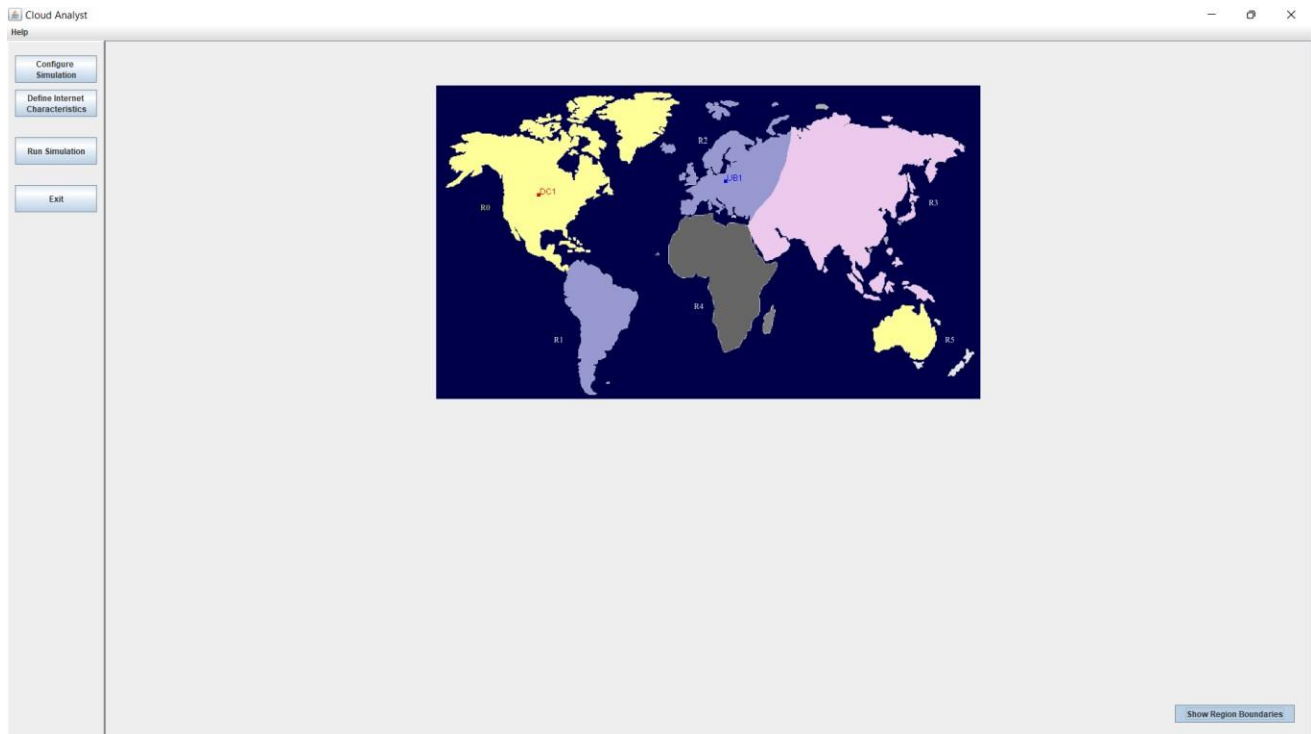
1. Download Cloud Analyst zip file and NetBeans IDE.
2. Unzip the cloud analyst file.
3. Open NetBeans and open the cloud analyst extracted file.



4. Run the project.
5. The cloud analyst tool will be opened in a new window.



6. Here, DC represents Data Center and UB represents User Base.
7. Select the **Show regions boundaries** button in the right bottom corner to view the 6 regions from R0 to R5 segregated across the world.



8. Select the Configure simulation button in the left panel to configure the user bases and data centers.

Cloud Analyst

Help

Configure Simulation

Define Internet Characteristics

Run Simulation

Exit

Configure Simulation

Main ConfigurationData Center ConfigurationAdvanced

Simulation Duration: 60.0 min

User bases:

Name	Region	Requests per User per Hr	Data Size per Request (bytes)	Peak Hours Start (GMT)	Peak Hours End (GMT)	Avg Peak Users	Avg Off-Peak Users
UB1		0	60	100	13	15	400000
UB2		1	60	100	15	17	100000
UB3		2	60	100	20	22	300000
UB4		3	60	100	1	3	150000
UB5		4	60	100	21	23	50000

Service Broker Policy: Closest Data Center

Application Deployment Configuration:

Data Center	# VMs	Image Size	Memory	BW
DC1	5	10000	512	1000

CancelLoad ConfigurationSave ConfigurationDone

Cloud Analyst

Help

Configure Simulation

Define Internet Characteristics

Run Simulation

Exit

Configure Simulation

Main ConfigurationData Center ConfigurationAdvanced

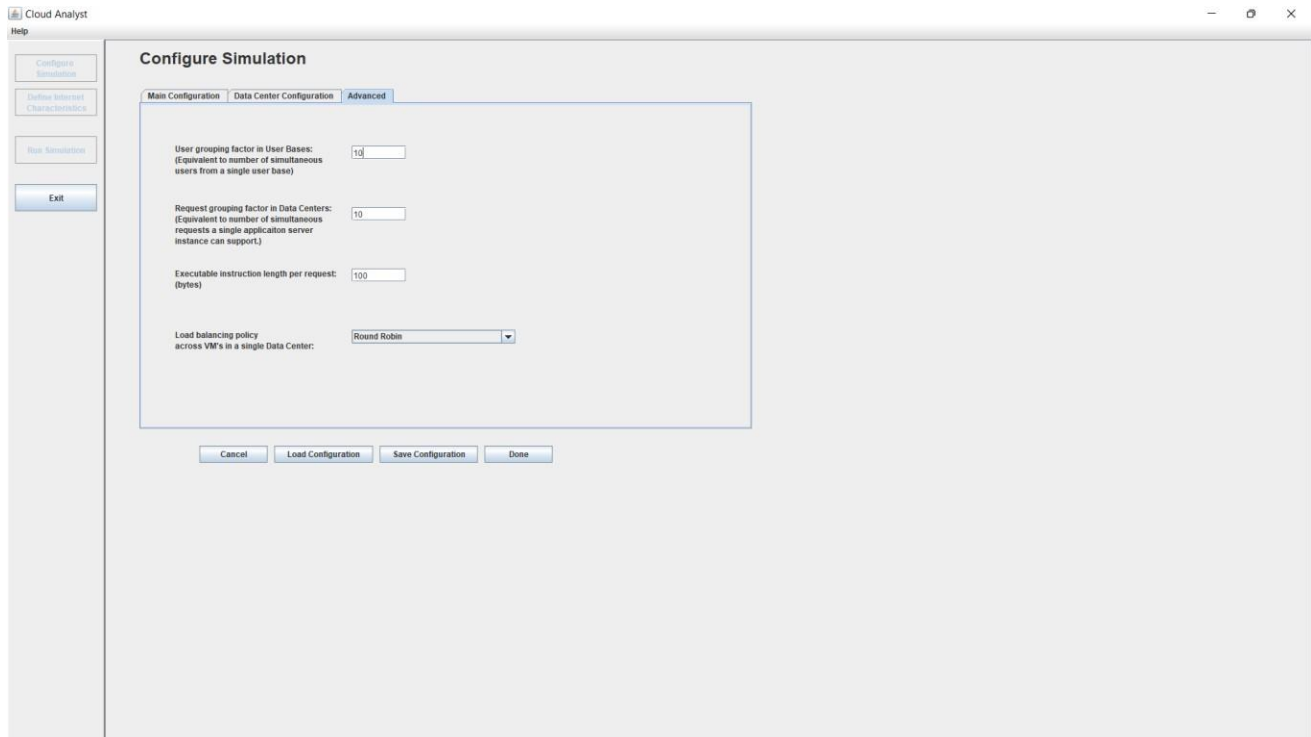
Data Centers:

Name	Region	Arch	OS	VMs	Cost per VM \$/Hr	Memory Cost \$/s	Storage Cost \$/s	Data Transfer Cost \$/G	Physical HW Units
DC1		x86	Linux	xen	120.05	0.05	0.1	512.74	25

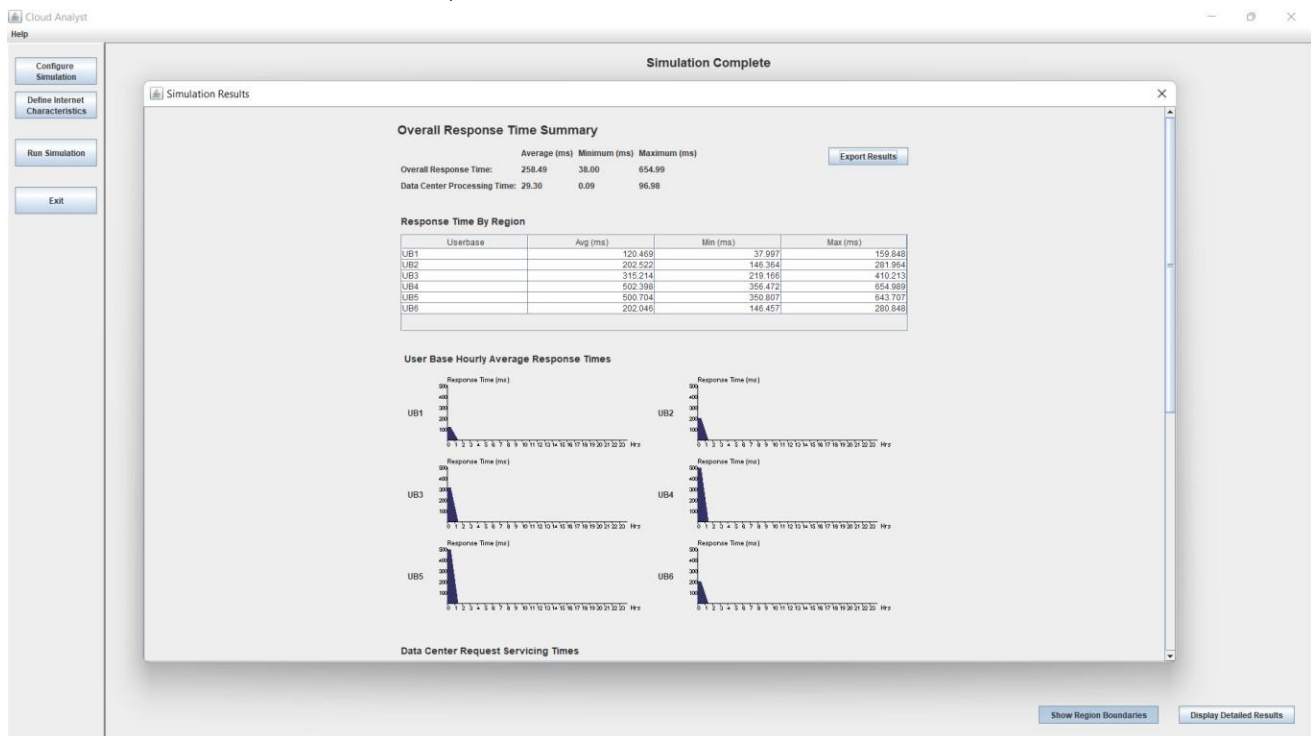
Physical Hardware Details of Data Center: DC1

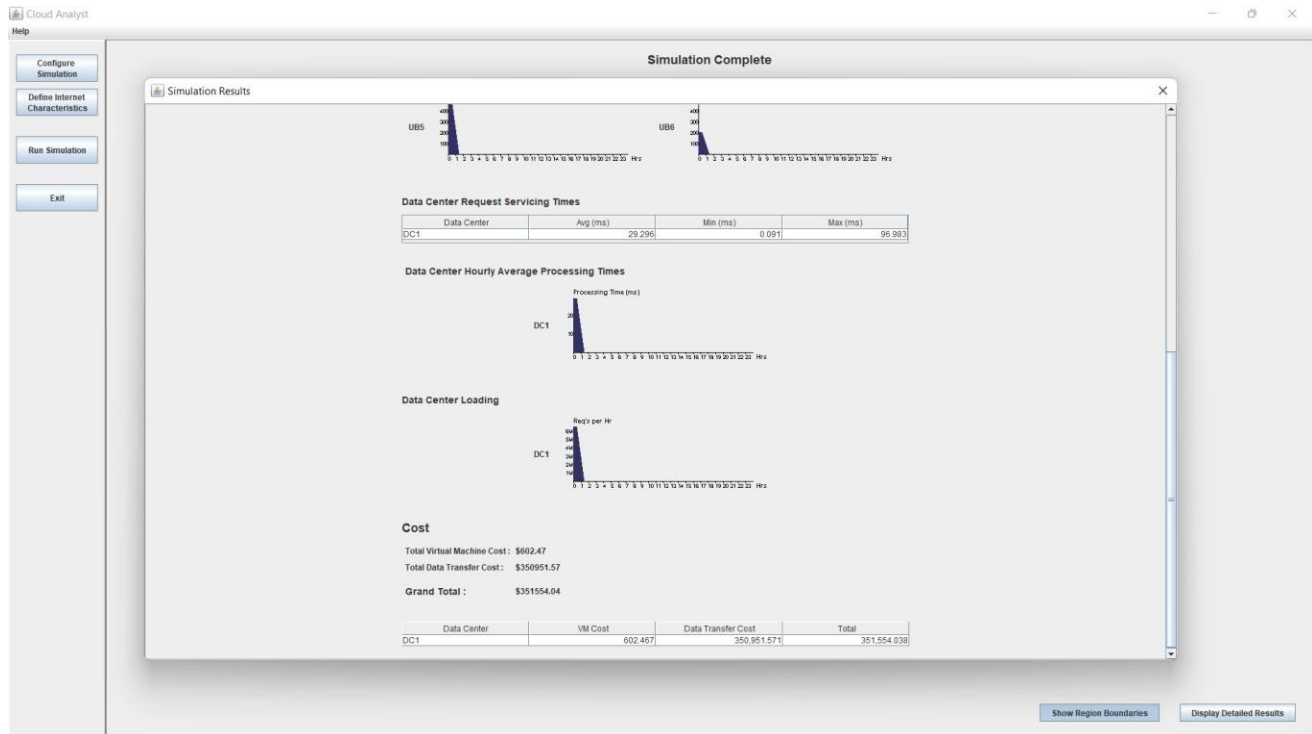
Id	Memory (Mb)	Storage (Mb)	Available BW	Number of Processors	Processor Speed	VM Policy
0	204800	100000000	1000000	4	10000	TIME_SHARED
1	204800	100000000	1000000	4	10000	TIME_SHARED
2	204800	100000000	1000000	4	10000	TIME_SHARED
3	204800	100000000	1000000	4	10000	TIME_SHARED
4	204800	100000000	1000000	4	10000	TIME_SHARED

CancelLoad ConfigurationSave ConfigurationDone

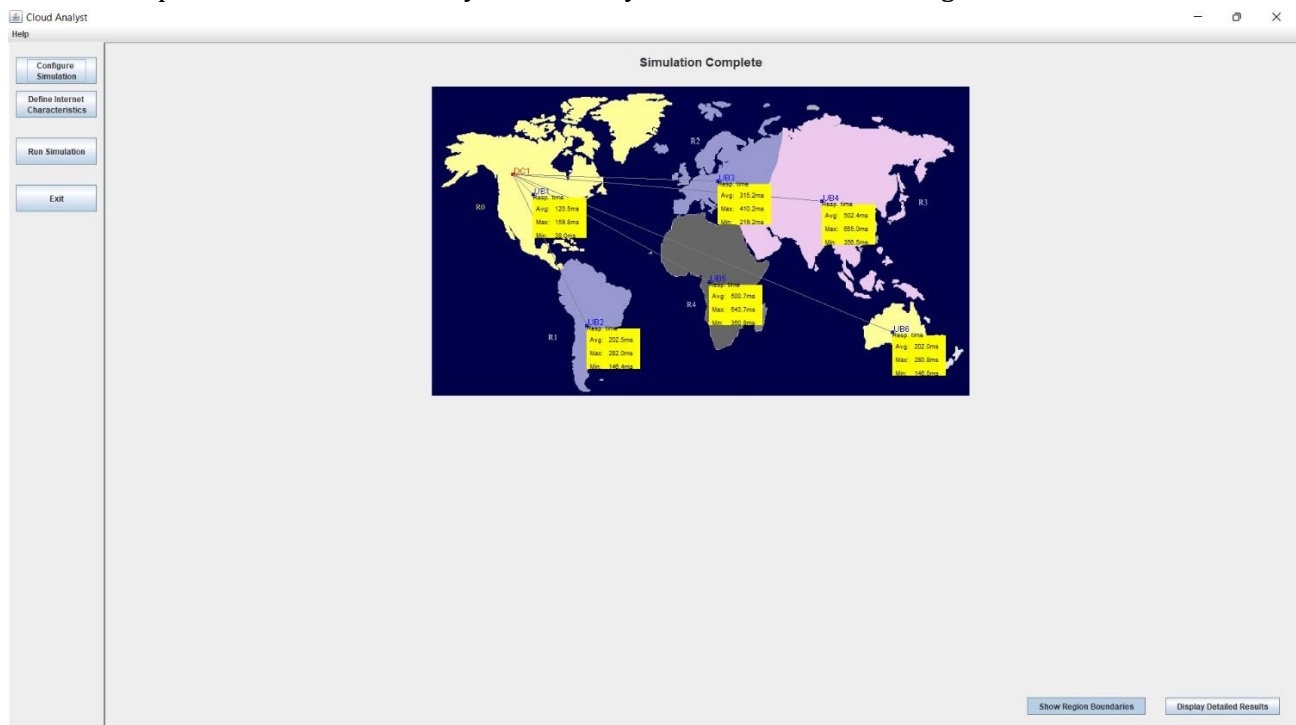


9. Set the configurations for the userbases and data centers.
10. To save the configuration, select save configuration button and click on done.
11. Select the run simulation button from the left panel to start the simulation.
12. After the simulation is done, we can view the results.





13. The performance can be analyzed similarly for different cloud configurations.



RESULT:

Hence the performance of cloud is analyzed using cloud analyst tool.