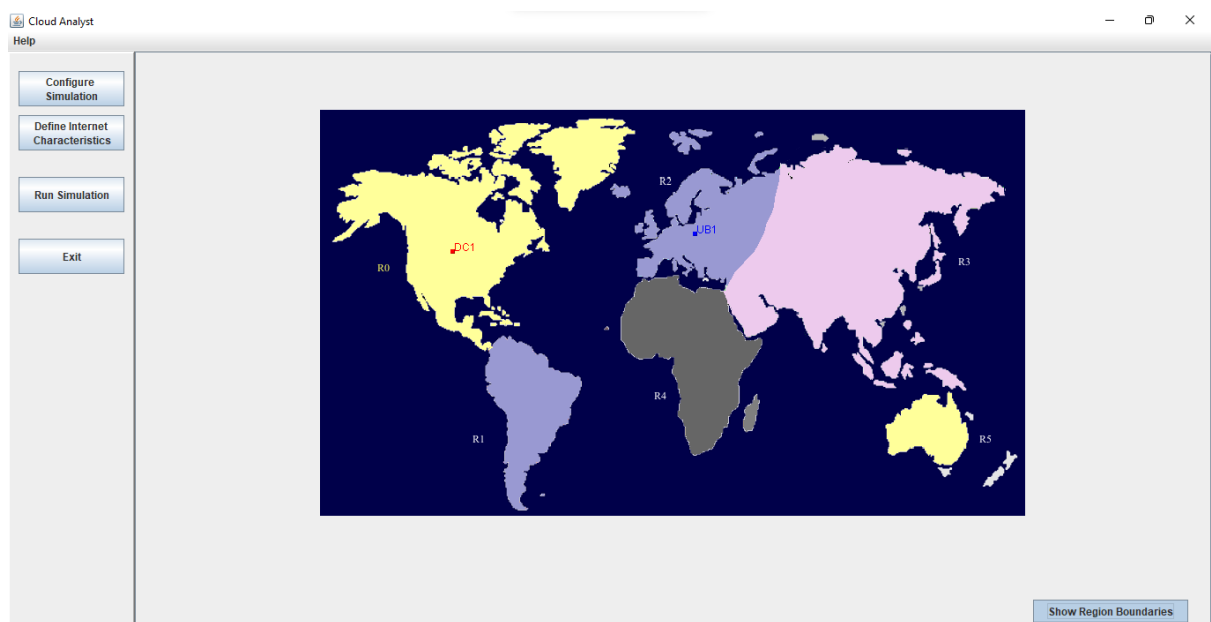


EX NO: 12 CLOUD PERFORMANCE ANALYSIS USING CLOUD ANALYST**AIM:**

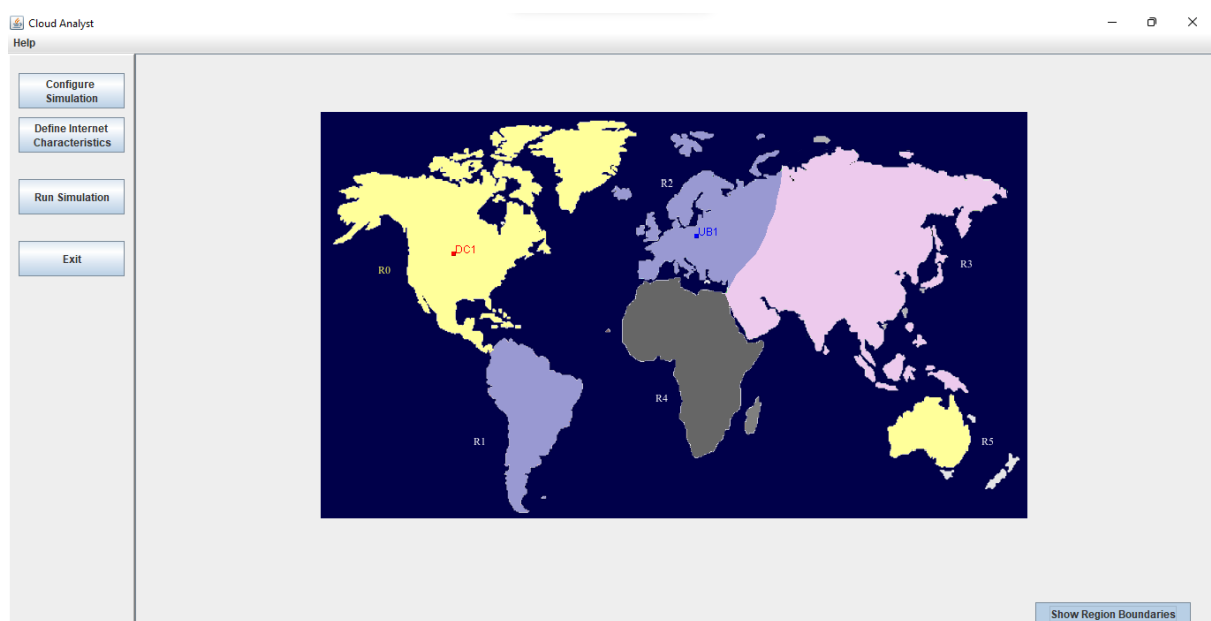
To perform cloud performance analysis using cloud analyst tool

PROCEDURE & SCREENSHOTS:

1. Download and Open cloud analyst tool from bat file from the extracted cloud analyst zip file



2. The boundaries are shown now



3. Click configure simulation

Configure Simulation

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	2	60	100	3	9	1000	100
UB2	0	60	100	3	9	1000	100
UB3	5	60	100	3	9	1000	100

Application Deployment Configuration:

Service Broker Policy: Closest Data Center

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

Buttons: Cancel Load Configuration Save Configuration Done

4. Add datacentre

Configure Simulation

Data Centers:

Name	Region	Arch	OS	VMM	Cost per VM \$/Hr	Memory Cost \$/s	Storage Cost \$/s	Data Transfer Cost \$/Gb	Physical HW Units
DC1	0	x86	Linux	Xen	0.1	0.05	0.1	0.1	2
DC2	0	x86	Linux	Xen	0.1	0.05	0.1	0.1	1

Physical Hardware Details of Data Center : DC2

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

Buttons: Cancel Load Configuration Save Configuration Done

5. Add it in main configuration and check the service broker policy if needed

The screenshot shows the 'Configure Simulation' window in the Cloud Analyst application. The 'Main Configuration' tab is active. The 'Simulation Duration' is set to 60.0 min. The 'User bases' table lists three user bases (UB1, UB2, UB3) with their respective regions, requests per user per hour, data size per request, peak hours, and average peak/off-peak users. The 'Service Broker Policy' is set to 'Closest Data Center'. The 'Application Deployment Configuration' table lists two data centers (DC1, DC2) with their respective VM counts, image sizes, memory, and bandwidth.

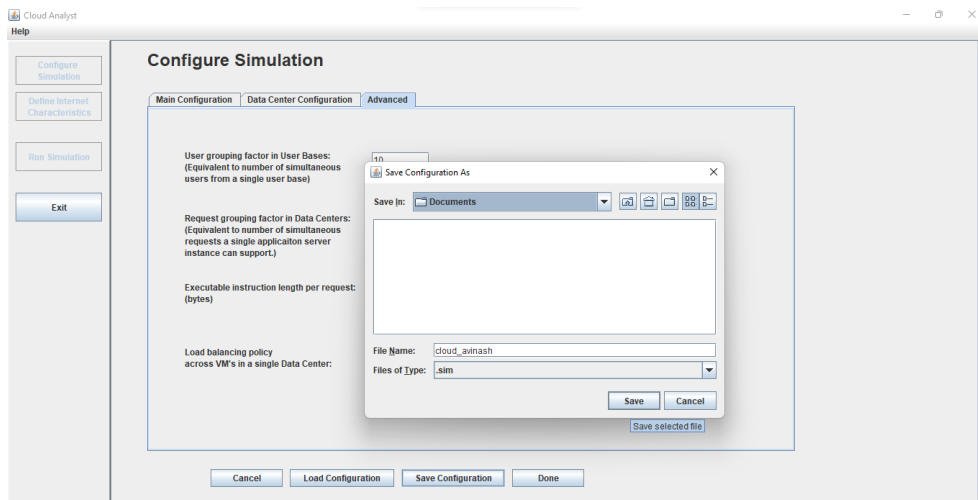
Name	Region	Requests per User per Hr	Data Size per Request (bytes)	Peak Hours Start (GMT)	Peak Hours End (GMT)	Avg Peak Users	Avg Off-Peak Users
UB1	2	60	100	3	9	1000	100
UB2	0	60	100	3	9	1000	100
UB3	0	60	100	3	9	1000	100

Data Center	# VMs	Image Size	Memory	BW
DC1	5	10000	512	1000
DC2	5	10000	512	1000

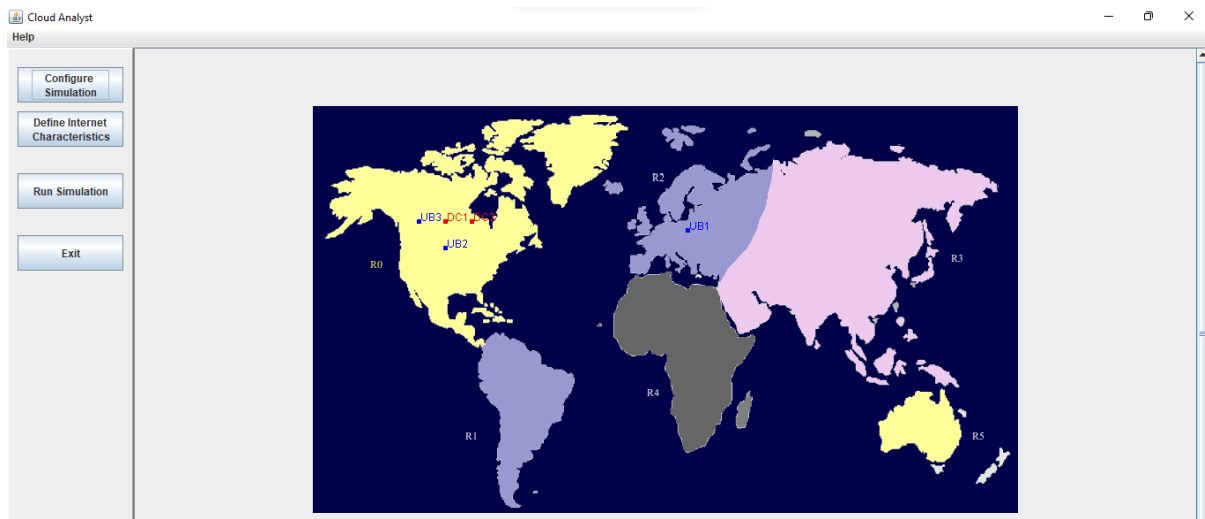
6. Change advanced configuration if needed

The screenshot shows the 'Configure Simulation' window in the Cloud Analyst application, with the 'Advanced' tab active. The 'User grouping factor in User Bases' is set to 10. The 'Request grouping factor in Data Centers' is set to 10. The 'Executable instruction length per request' is set to 100 bytes. The 'Load balancing policy across VM's in a single Data Center' is set to 'Round Robin'.

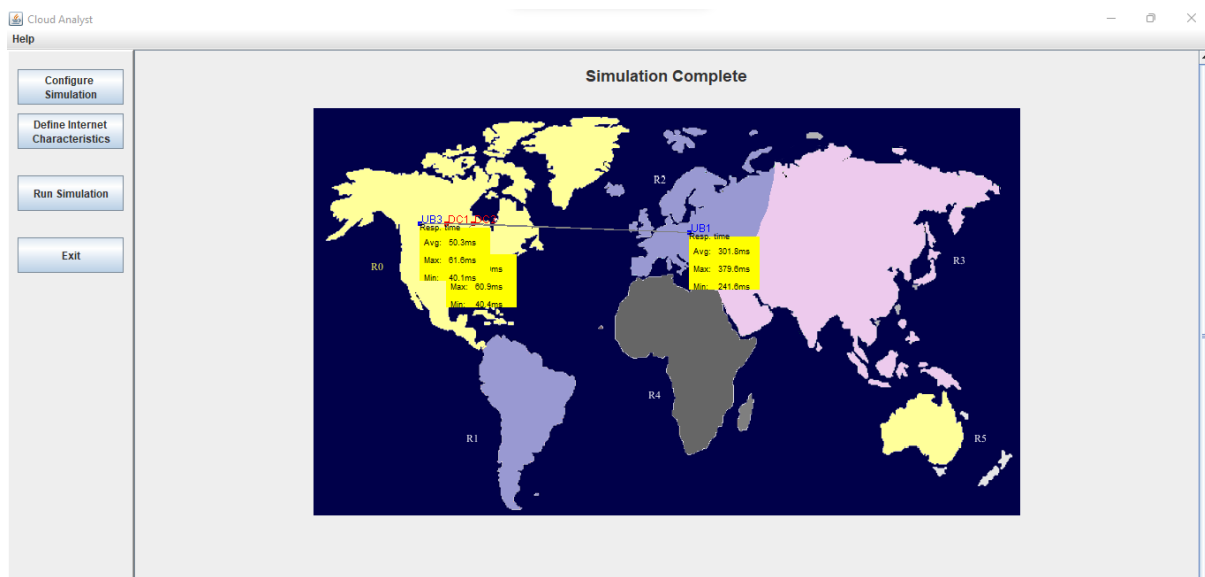
7. Save the configuration if needed

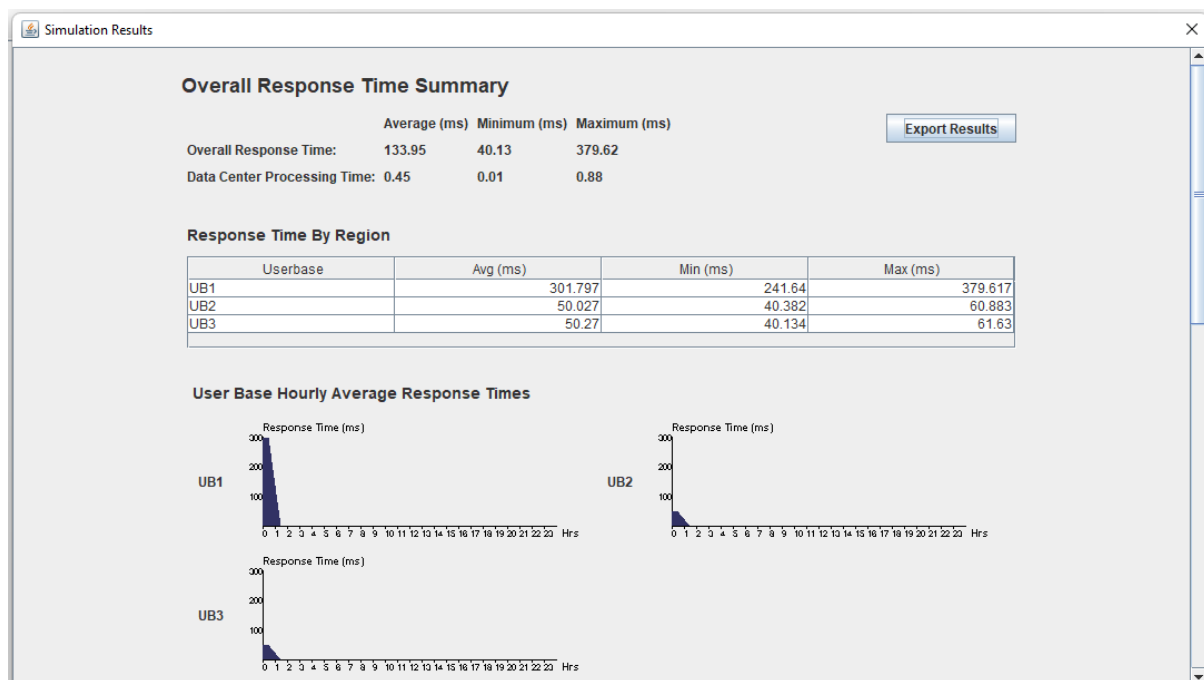


8. Click on done



9. Click run simulation





If needed we could change the internet characteristics, Hence we simulated scenario using cloud analyst and also have analysed the cloud performance using this scenario.

RESULT:

Hence cloud performance is analysed using cloud analyst tool