

Embedded Interface Design – Project-3

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Cloud Cost:

To compute the cloud cost between AWS and Google cloud platform. We used cloud computation engine. Following specifications of the system were selected.

Google Cloud platform:

Instances: 2

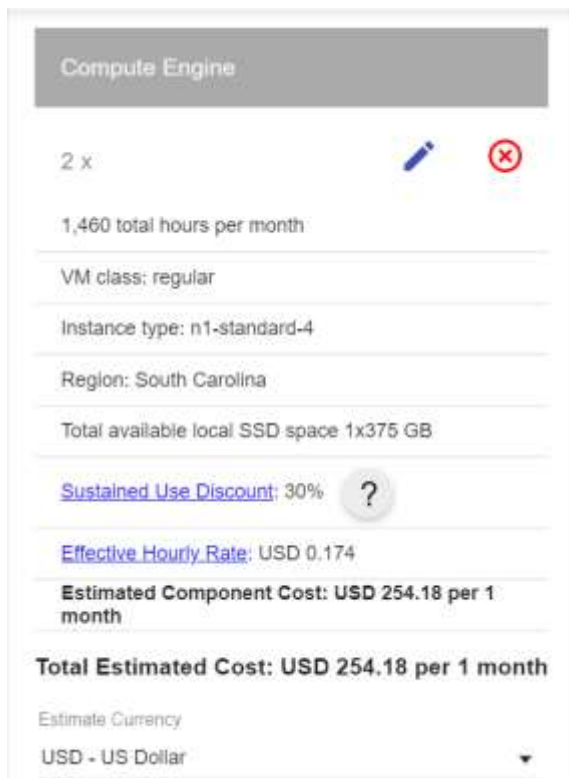
OS: Linux(Free)

Region: US East (South Carolina)

RAM: 15GB

CPU's: 4

External general purpose SSD – 375GB



The screenshot displays the Google Cloud Platform Compute Engine pricing calculator interface. It shows a configuration for 2 instances, each with 1,460 total hours per month. The VM class is regular, and the instance type is n1-standard-4. The region is South Carolina. The total available local SSD space is 1x375 GB. A sustained use discount of 30% is applied, resulting in an effective hourly rate of USD 0.174. The estimated component cost is USD 254.18 per 1 month, and the total estimated cost is also USD 254.18 per 1 month. The currency is set to USD - US Dollar.

Configuration	Value
Instances	2 x
1,460 total hours per month	1,460
VM class	regular
Instance type	n1-standard-4
Region	South Carolina
Total available local SSD space	1x375 GB
Sustained Use Discount	30%
Effective Hourly Rate	USD 0.174
Estimated Component Cost	USD 254.18 per 1 month
Total Estimated Cost	USD 254.18 per 1 month
Estimate Currency	USD - US Dollar

The cost of the google cloud platform comes as 254.18\$ per month.

Amazon Web Services:

Instances: 2

OS: Linux(Free)

Region: US East (Ohio)

RAM: 16GB

CPU's: 4

External general purpose SSD – 375GB

AWS Pricing Calculator > My Estimate		
My Estimate <small>info</small>		
<div>Add serviceAdd groupAction ▼</div>		
First 12 months total	Total upfront	Total monthly
2,552.16 USD	0.00 USD	212.68 USD
Services (1)		
Amazon EC2 <small>Region: US East (Ohio)</small>		
<div>EditAction ▼</div>		
Quick estimate		
Operating system (Linux), Instance type (t3a.xlarge), Quantity (2), Storage for each EC2 instance (General Purpose SSD (gp2)), Storage amount (375 GB)		Monthly: 212.68 USD

The monthly cost of the Amazon web services comes around 212.68\$.

The RAM which can be chosen from AWS is in multiple of 15 gigabytes. The RAM selection options in AWS is in 16 gigabytes. Hence, the only difference in the selection of the system specifications is selection of RAM where AWS compute system has 1 gigabyte of more RAM.

Conclusion: The AWS cloud computing system is cheaper than the Google Cloud platform. However, there is 1GB more RAM in AWS system but it can be conclude that it cannot cost more than 40\$ monthly which is the total difference between the two systems.