**Assignment 3  
  
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INFO8356: Requirements Analysis for cloud  
  
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Question 1

**Analyse and complete the table by indicating the necessary amounts based on the considerations.**

**Cost Analysis:** The monthly cost of a single virtual server is $2,000.00. The cost per hour for a typical 30-day month is calculated by dividing the monthly expense by the total number of hours in the month (30 days \* 24 hours).

**Calculating Daily Costs:** The hours used at each server level multiplied by the hourly rate yields the daily cost:

* one virtual server for ten hours,
* two virtual servers for four hours,
* three virtual servers for ten hours.

The daily cost of hardware utilization is determined by adding up all these computations.

**Labor Costs**: There is a $1,200 one-time labor expense involved in configuring the scaling settings.

The following are the final modified costs:   
**Hardware Usage (Monthly):** Its about $6000 for 3 servers.

**Labor (One-Time) Costs:** An extra $1,200 for configuration scaling changes.

Given that labor and ongoing licensing costs are constant, these numbers ought to be listed in the cloud computing column of the cost comparison table.

**The New Updated Server:**

|  |  |  |
| --- | --- | --- |
| **Category** | **Cloud Computing** | **On-premises** |
| Up-front Costs (one-time) | $12,500 | $62,400 |
| Hardware Purchase | $0 | $42,000 |
| Software Purchase | $0 | $15,000 |
| Labor Costs | $2,400 | $4,400 |
| Ongoing Costs (monthly) | $10,100 | $7,200 |
| Hardware Usage | $6,000 | $0 |
| Bandwidth Usage | $1,200 | $0 |
| Hosting Costs | $0 | $1,800 |
| Insurance Costs | $0 | $600 |
| Licensing Costs | $700 | $1,800 |
| Labor Costs | $1,200 | $3,000 |

Questions 2:

**AWS Server costing used:**

Number of application load balancer features: 3

For the EC2 instances to automatically scale, a load balancer is utilized with the lambda function enabled.

A screenshot of a computer

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The following are the costs associated with creating small servers based on the analysis.

**Initial Cost:** 0.0USD

**Monthly cost:** 148.58 USD

**Per Day COST:** 4.95 USD

**Azure Service Costing used:**

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**Monthly Cost:** 265.19 USD

**Per Day Cost:** 8.83 USD

The following services have been added for comparison between the two service providers:

1. A virtual computer outfitted with hardware, each with a single core CPU and two gigabytes of RAM.
2. Services for load balancers.

**Conclusion**

Even if AWS appears less expensive up first, selecting a cloud provider necessitates considering factors other than price. Important considerations include scalability, ease of integration with current systems, and long-term affordability. Although the cheaper cost of AWS may be alluring, it might not be the most cost-effective option in the long run.   
Because Azure offers a greater range of services and more seamless integration, it may be more cost-effective for Microsoft-based enterprises even though it is more expensive. This could result in savings elsewhere.