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# Chapter 1

# Cost/Benefit Analysis

## 1.1 Intoduction

A cost-benefit analysis is the process of comparing the projected or estimated costs and benefits (or opportunities) associated with a project decision to determine whether it makes sense from a business perspective.

## 1.2 Data analysis

Data analysis is a prerequisite to cost/benefit analysis. A single statement that succinctly defines clint product/service
- Fast , Secure and Reliable

## 1.3 cost

Cost determine the benifit and seving that are expected from the system and compare them with the expected costs.

The cost for a project mainly depend on time,server,hardware ,equipment and personnel cost.

**Hardware/software cost:**

It include the cost of purchasing or leasing of computers and its peripherals.Software cost involves required software cost.

| CloudLinux LIVE Limit | Eco | Standard | Advanced |
|---|---|---|---|
| RAM | 700 MB | 1 GB | 2 GB |
| Disk I/O | 20 Mbps I/O | 20 Mbps I/O | 50 Mbps I/O |
| Concurrent Connections | 20 EP | 20 EP | 50 EP |
| Max. Number of Processes | 100 nPROC | 100 nPROC | 100 nPROC |
| CPU Cores | 1 CPU Core | 1 CPU Core | 2 CPU Core |

Figure 1.1: using hardware list

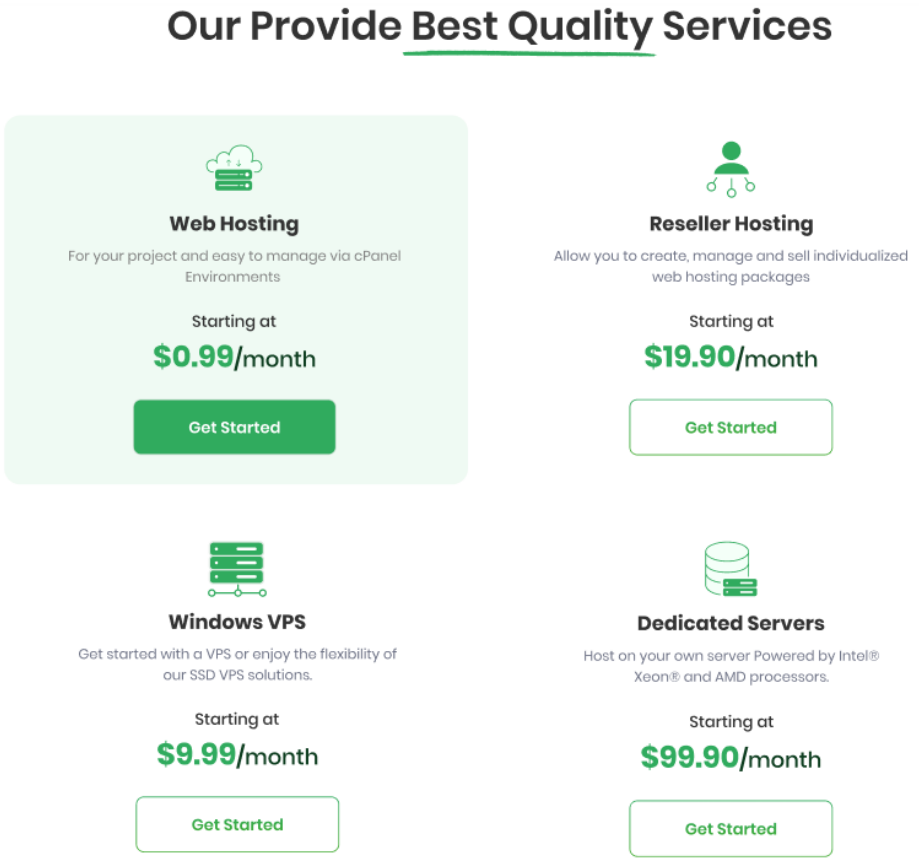


Figure 1.2: NEtaCode services

**personnel cost:**
It is the money send on the people involve in the development the project .These expenditures include salaries,other benifit such as health ,conveyance allowance etc.In netacode each personnel cost is 50000 per month and forevery project extra working per hours they pay extra 5000.
**Time cost:** If a project need to made by personnel more time ,give them more money.

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | **Screen Name** | **Estimated Hour** | | | | |
| 2 | Homescreen | 12-15 | | | | |
| 3 | Web Hosting | 8-10 | | | | |
| 4 | Reseller Hosting | | | | | |
| 5 | Windows VPS | 8-10 | | | | |
| 6 | Dedicated Server | 7-8 | | | | |
| 7 | Partnership | 7-8 | | | | |
| 8 | About Us | 8-10 | | | | |
| 9 | Blog | 6-7 | | | | |
| 10 | Blog Details | 4-5 | | | Not Necessary Righ Now | |
| 11 | Our Datacenter | 3-4 | | | | |
| 12 | Contact us | 2-3 | | | | |
| 13 | Store | 5-6 | | | | |
| 14 | News | 5-6 | | | | |
| 15 | Knowledgebase | 3-4 | | | | |
| 16 | Support Center | 4-5 | | | | |
| 17 | Terms of Service | 1-2 | | | | |
| 18 | Privacy Policy | | | | | |
| 19 | Register | 3-4 | | | | |
| 20 | Sign In | 1 | | | | |
| 21 | Forgot Password | | | | | |
| 22 | Checkout | 7-8 | | | | |
| 23 | Payment | 4-5 | | | | |
| 24 | Dashboard | 10-12 | | | | |
| 25 | **Total** | **110-133** | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | HTML CSS Frontend | Estimate can be possible after design completion | | | | |
| 29 | | | | | | |

Figure 1.3: Time requirement for a website ECNHOST made by NetaCode

### 1.3.1 Cost analysis for a existing project

Successfully run a project by Netacode cost analysis
Total Investment by clint is 3,550,000tk

Ten member work in this project for 15 days.
personnel cost =(10*50,000)+(5000*3*10)=6,50,000tk
hardware/software cost=5,00000tk
equipment cost=20,00000tk
Others=4,00000

total=650000+500000+2000000+400000
=3550000tk

## 1.4 Benefit

The biggest advantage of Netacode audience is that -

- clint can start with their services without any technical knowledge , as we will provide full support for them.
- Very Economical ( We can beat any of our competitors) with ensuring quality service

- Multi-Carrier Route Optimized Network
- Proactive monitoring and resolution
- Exceptional performance and reliability
- Best customer retention rate
- 24 hours Live Support by responsible and reliable Staff.

### 1.4.1 Benefit analysis for a existing project

After running the project average every month in first One year earn by clint 150,000.
so,No.of month need for net benifit

n=3,550,000/200,000= 18 month= 1.8 year
and every month server cost pay by clint is 10,000tk

| month | Need cost=C-benifit | C=Server cost(10,000)+need cost | benefit | Cummulative benefit |
|---|---|---|---|---|
| 0 | 3550000 | 3560000 | 200000 | 200000 |
| 1 | 3360000 | 3370000 | 200000 | 400000 |
| 2 | 3170000 | 3180000 | 200000 | 600000 |
| 3 | 2980000 | 2990000 | 200000 | 800000 |
| 4 | 2790000 | 2800000 | 200000 | 10,00000 |
| 5 | 2600000 | 2610000 | 200000 | 12,00000 |
| 6 | 2410000 | 2420000 | 200000 | 14,00000 |
| 7 | 2220000 | 2230000 | 200000 | 16,00000 |
| 8 | 2030000 | 2040000 | 200000 | 18,00000 |
| 9 | 1830000 | 1840000 | 200000 | 20,00000 |
| 10 | 1640000 | 1650000 | 200000 | 22,00000 |
| 11 | 1250000 | 1260000 | 200000 | 24,00000 |
| 12 | 1060000 | 1070000 | 200000 | 26,00000 |
| 13 | 870000 | 880000 | 200000 | 28,00000 |
| 14 | 680000 | 690000 | 200000 | 30,00000 |
| 15 | 490000 | 500000 | 200000 | 32,00000 |
| 16 | 300000 | 310000 | 200000 | 34,00000 |
| 17 | 110000 | 120000 | 200000 | 36,00000 |
| 18 | -80000 | -70000 | 200000 | 38,00000 |

So after 18 month running this project the clint get 20,0000tk profit every month

**Summary** Cost benefit and data analysis is most Important think for every system.we can find the existing system is benifited or not after analysis cost and benefit analysis.Clint can decide the want run the system after seeing the cost analysis.