

# 6. AWS Cost Estimation Report



## AWS Cost Estimation Report – English Version

Source:

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## AWS Cost Estimation Report

**Project Name:** AWS Migration Project for SME Corporate Website

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## 1. Purpose of Cost Estimation

This document calculates the **estimated monthly cost** of the 3-tier architecture built on AWS.

It also clarifies the **cost feasibility** and **operational expense expectations** for running the environment.

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## 2. Cost Components (Included in Estimation)

- EC2 (Web/AP ×2 instances)
- RDS MySQL (Multi-AZ)
- S3 (Static files / Backup storage)
- NAT Gateway
- ALB – Application Load Balancer
- Route53 (Hosted Zone)
- CloudWatch

- Others: EIP, DNS queries, log transfer, etc.

## 3. Monthly Cost Summary

### Summary Table (from page 1-2)

Service	Monthly Cost	Notes
EC2 (Web①)	19.86 USD	t3.small, running 24h × 30 days
EC2 (Web②)	19.86 USD	Same as above
RDS for MySQL (Multi-AZ)	43.48 USD	db.t3.micro
S3	1.25 USD	Low usage
NAT Gateway	45.26 USD	Standard Tokyo region pricing
Route53	0.80 USD	Hosted Zone
CloudWatch	1.50 USD	Basic metrics
ALB	17.97 USD	LCU + running hours

**aws pricing calculator**

前払いコスト 0.00 USD	1月あたりのコスト 149.98 USD	合計 12 months コスト <b>1,799.76 USD</b> 前払いコストを含む
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**My Estimate**

サービス名	ステータス	前払いコスト	1月あたりのコスト	説明
Amazon EC2	-	0.00 USD	19.86 USD	-
Amazon RDS for MySQL	-	0.00 USD	43.48 USD	-
Amazon Simple Storage Service (S3)	-	0.00 USD	1.25 USD	-
Amazon Virtual Private Cloud (VPC)	-	0.00 USD	45.26 USD	-
Amazon Route 53	-	0.00 USD	0.80 USD	-
Amazon CloudWatch	-	0.00 USD	1.50 USD	-
Amazon EC2	-	0.00 USD	19.86 USD	-
Elastic Load Balancing	-	0.00 USD	17.97 USD	-

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## Total

- Monthly total: 149.98 USD
- Annual total: 1,799.76 USD

(Values match the AWS Pricing Calculator shown on page 2.)

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## 4. Detailed Cost Breakdown

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### 4.1 EC2 x 2 Instances (Web / AP Layer)

Type: t3.small

Count: 2

Usage: 24h × 30 days

Actual Cost:

19.86 USD × 2 = 39.72 USD / month

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### 4.2 RDS (MySQL / Multi-AZ)

Instance type: db.t3.micro

Multi-AZ: Enabled

Backup Retention: 7 days

Cost: 43.48 USD / month

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### 4.3 S3 (Backup / Static Files)

Usage: Light (a few GB)

Cost: 1.25 USD / month

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### 4.4 NAT Gateway

Count: 1 (Public Subnet 1a)

Traffic: Minimal (yum update only)

**Cost: 45.26 USD / month**

📌 *This is the single largest cost factor.*

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## 4.5 Route53

**Type:** 1 Hosted Zone

**Cost:** 0.80 USD / month

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## 4.6 CloudWatch

**Metrics:** EC2 / RDS basic metrics

**Log volume:** Small

**Cost:** 1.50 USD / month

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## 4.7 ALB (Application Load Balancer)

**Usage:** 24h × 30 days

**Traffic:** Low

**Cost:** 17.97 USD / month

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## 5. Cost Optimization Proposals

(From the table on page 4)

Item	Current Cost	Proposed Optimization	Expected Savings
NAT Gateway	45.26 USD	Replace with SSM-only access / remove NAT	-45 USD
RDS	43.48 USD	Switch to Single-AZ	-20 to -25 USD
EC2 Count	2	Min 1 instance + AutoScaling	-20 USD
ALB	17.97 USD	Run only during testing	-5 to -10 USD



## 6. Conclusion (Overall Evaluation)

- **149.98 USD/month** is appropriate for a **small production corporate website**.
- **NAT Gateway** and **RDS Multi-AZ** represent the largest share of the cost.
- For **development or staging environments**, costs can be reduced to:

 **50–70 USD/month**

(after applying optimization measures)