

6.AWS Cost Estimation Report

AWS Cost Estimation Report – English Version

Source:

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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.

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

1,799.76 USD

前払いコストを含む

My Estimate

Duplicate

🔍 リソースの検索

<input type="checkbox"/>	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
<input type="checkbox"/>	Amazon EC2		-	0.00 USD	19.86 USD	-
<input type="checkbox"/>	Amazon RDS for MySQL		-	0.00 USD	43.48 USD	-
<input type="checkbox"/>	Amazon Simple Storage Service (S3)		-	0.00 USD	1.25 USD	-
<input type="checkbox"/>	Amazon Virtual Private Cloud (VPC)		-	0.00 USD	45.26 USD	-
<input type="checkbox"/>	Amazon Route 53		-	0.00 USD	0.80 USD	-
<input type="checkbox"/>	Amazon CloudWatch		-	0.00 USD	1.50 USD	-
<input type="checkbox"/>	Amazon EC2		-	0.00 USD	19.86 USD	-
<input type="checkbox"/>	Elastic Load Balancing		-	0.00 USD	17.97 USD	-

Total

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

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

4. Detailed Cost Breakdown

4.1 EC2 × 2 Instances (Web / AP Layer)

Type: t3.small

Count: 2

Usage: 24h × 30 days

Actual Cost:

19.86 USD × 2 = 39.72 USD / month

4.2 RDS (MySQL / Multi-AZ)

Instance type: db.t3.micro

Multi-AZ: Enabled

Backup Retention: 7 days

Cost: 43.48 USD / month

4.3 S3 (Backup / Static Files)

Usage: Light (a few GB)

Cost: 1.25 USD / month

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.*

4.5 Route53

Type: 1 Hosted Zone

Cost: 0.80 USD / month

4.6 CloudWatch

Metrics: EC2 / RDS basic metrics

Log volume: Small

Cost: 1.50 USD / month

4.7 ALB (Application Load Balancer)

Usage: 24h × 30 days

Traffic: Low

Cost: 17.97 USD / month

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)