

AWS Costing Summary

Compliance AI Content Generation Platform (1-Page)

Costing Objective

Provide a **realistic, transparent estimate** of AWS costs for running the Compliance AI POC at enterprise scale.

AWS Services Used & Why

- **Amazon Bedrock** – LLM inference (generation + review) and embeddings
 - **Amazon OpenSearch (Serverless)** – Vector search for regulatory RAG
 - **Amazon RDS (PostgreSQL)** – Rules, results, audit logs
 - **AWS Lambda** – Prompt enhancer & orchestration
 - **Amazon S3** – Documents, outputs, logs
 - **AWS CloudWatch** – Monitoring & observability
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Key Usage Assumptions

- Avg input tokens per request: ~1,500
 - Avg output tokens per request: ~800
 - Reviewer tokens: ~1,400 per request
 - Region: ap-south-1
 - No fine-tuning
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Cost per 1,000 Requests (Approx)

Component	Cost (USD)
Bedrock – Content Generation	\$10 – \$12
Bedrock – Compliance Review	\$4 – \$6
Titan Embeddings	\$1 – \$2
OpenSearch (Vector DB)	\$0.5 – \$1
Lambda + Backend	\$1 – \$2
RDS + S3 + Logs	\$1 – \$2
Total	\$18 – \$25

Monthly Scale Examples

- **10,000 requests / month:** ~\$350 – \$750
 - **100,000 requests / month:** ~\$2,000 – \$5,000
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Cost Optimization Levers

- Prompt enhancement reduces retries
 - Rule-only short-circuiting for simple cases
 - Smaller reviewer models
 - Caching of embeddings and prompts
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Business Interpretation

For a large fintech organization, this cost is: - Predictable - Controllable - Insignificant compared to compliance risk mitigation

Executive Takeaway

The platform delivers compliance-safe AI content generation at roughly ₹1.5–2 per request, making it operationally viable for enterprise adoption.

Figures are approximate and based on official AWS pricing. Actual costs depend on model choice and usage patterns.