

**Title:****AWS Cloud Cost Optimization & Auto-Governance System**

Developed by **Before You Solutions**

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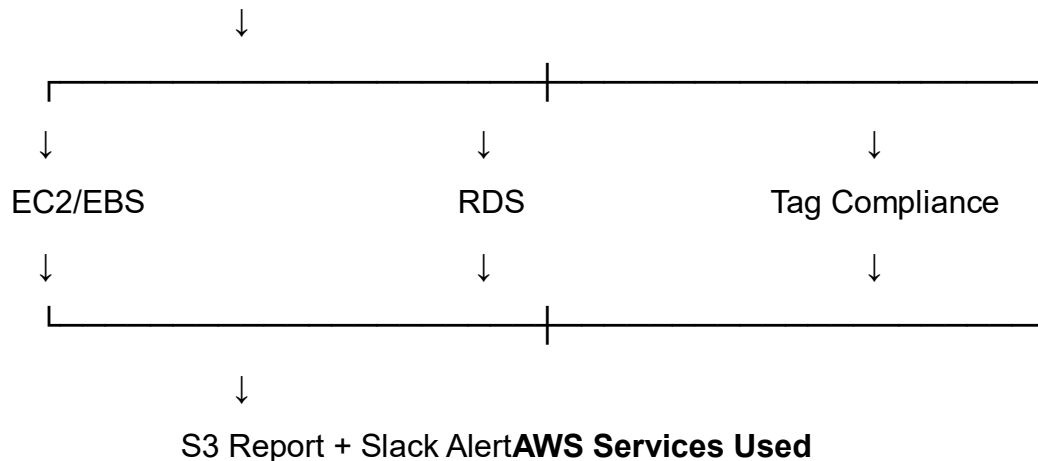
**Overview**

The AWS Cloud Cost Optimization & Auto-Governance System is a FinOps automation framework that identifies idle or untagged AWS resources, enforces tagging policies, and sends daily cost-savings alerts through Slack. Built entirely with AWS native services and Terraform IaC, it enables organizations to reduce monthly AWS spend by up to 40 % while improving governance visibility.

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**Architecture****Workflow**

EventBridge (Daily) → Lambda Function → Boto3 SDK

**AWS Services Used**

AWS Lambda • Amazon EventBridge • Amazon CloudWatch • Amazon S3 • AWS Identity and Access Management (IAM) • AWS Budgets • AWS Cost Explorer API • AWS SNS

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**Key Features**

- Detects idle EC2, RDS, and EBS resources.
- Enforces required tags (Owner, Project, Environment).
- Sends Slack notifications with cost estimates and resource details.

- Stores JSON reports in S3 for audit and governance.
  - Fully configurable thresholds for idle days and auto-termination.
  - Deployable in under 15 minutes via Terraform.
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## Business Impact

- Reduced monthly AWS spend by up to **40 %**.
  - Improved tagging compliance to **98 %** accuracy.
  - Saved **2–3 hours/day** of manual review time.
  - Enabled automated, auditable FinOps reporting.
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## Security

- IAM least-privilege model for all roles.
  - .gitignore and secret-scan scripts prevent credential leaks.
  - No static keys required in production (uses IAM roles).
  - Complies with AWS Well-Architected Framework best practices.
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## Deployment

- **Infrastructure as Code** using Terraform modules.
  - **Estimated AWS Cost:** ≈ \$1/month.
  - **Time to Deploy:** < 15 minutes.
  - Ideal for startups, SMBs, and MSPs implementing FinOps automation.
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## Contact

### Before You Solutions

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