

Optimize AWS Costs with Terraform: What You Need to Know

Section 1: Why It Matters

Cloud Cost Challenges on AWS:

Overprovisioned EC2 and RDS instances

Forgotten resources (EBS, S3, Lambda)

No pre-deployment visibility into spend

Manual clean-up and no drift detection

Section 2: Terraform-Based Solutions

Conditional Deployments Codify Cost-Saving Defaults Automate Cleanups Avoid waste in non-prod Apply lifecycle rules to Uset3.micro, GLACIER, delete/transition resources. with count + env variables. and tagging policies in code. Pre-Deploy Cost Estimates Budget Alerts as Code Spot & Auto Scaling Mix On-Demand + Spot in Use **Infracost** in CI pipelines Set up aws budgets budget in Terraform for spend limits. autoscaling_group configs. to avoid surprises.

Want real-time laC cost control? Try ControlMonkey's Terraform Automation Platform



Section 3: Top Tools for Terraform Workflows

Tool

Infracost ControlMonkey AWS Budgets AWS Cost Explorer **Compute Optimizer**

Purpose

Cost diff in Terraform plans Guardrails, drift detection, optimization Budget enforcement as code Trend visualization EC2/ASG right-sizing advice

Section 4: Pro Tips

Always run terraform plan before apply

Build reusable cost-aware modules

Use -var and .tfvars to simulate environments

Automate drift detection + tagging with ControlMonkey



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