

Cloud Sprawling

DevOps Case Study

Cloud / Infrastructure Sprawling (BAD) - Causes, Consequences and Mitigation



OBJECTIVES

In the age of rapid digital transformation, an EV company faced a growing challenge: cloud sprawl. The uncontrolled proliferation of cloud resources had led to skyrocketing costs, resource inefficiency, and a chaotic IT environment. To regain control and optimize its cloud usage, they embarked on a journey to fix its cloud sprawl.

CHALLENGES

- **Cost Overruns:** Monthly cloud bills were exceeding budgets due to unused and forgotten resources.
- **Resource Redundancy:** Numerous redundant resources led to confusion and inefficiency in resource management.
- **Lack of Governance:** The absence of centralized governance and clear cloud policies contributed to the sprawl.

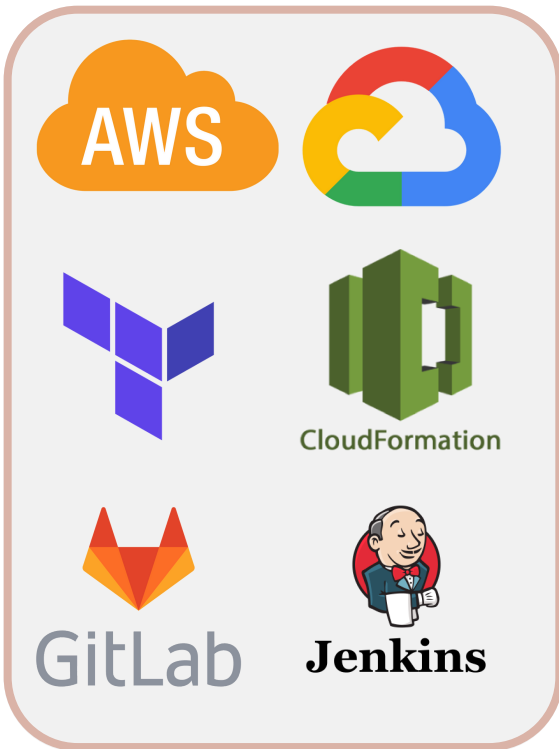


CAUSES

- **Lack of Centralized Governance:** When there is no centralized oversight or governance.
- **Lack of Visibility:** Poor visibility into existing cloud resources
- **Ease of Provisioning:** Cloud services offer easy and quick provisioning, making it tempting for teams to create resources
- **Lack of Cost Awareness:** Teams may not be aware of the cost implications.

SOLUTION

- Establishing a Cloud Governance Framework:
- Resource Tagging and Categorization:
- Cloud Resource Inventory:
- Implementing Infrastructure as Code (IaC):
- Education and Training:
- Continuous Monitoring and Optimization:



BENEFITS/RESULTS

Cost Savings

By identifying and decommissioning unused resources and optimizing existing ones, Company XYZ reduced its cloud spending by 30% within the first six months.

Resource Efficiency

The standardized tagging and categorization system, coupled with IaC, improved resource utilization and reduced redundancy.

Centralized Control

The cloud governance framework provided centralized control and visibility over cloud resources, ensuring compliance and efficient resource management.

Streamlined Operations

IT operations became more agile and efficient, thanks to automation and DevOps practices enabled by IaC.



The fix cloud sprawl demonstrates the importance of proactive governance, education, and the adoption of best practices in cloud management

This case study serves as a valuable example for organizations looking to address cloud sprawl issues and optimize their cloud usage.



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