

# It was Good, until the bill arrived

**Dharmesh Vaya**  
Google Developer Expert



# Agenda

01.  
Context

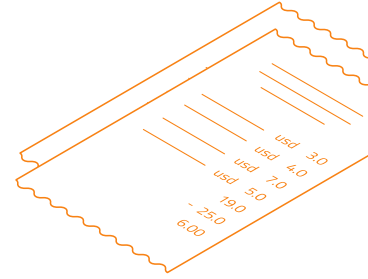
02.  
Problem  
Statement

03.  
Solution

04.  
Fundamentals

05.  
FinOps

06.  
Use-Cases



# Context



01

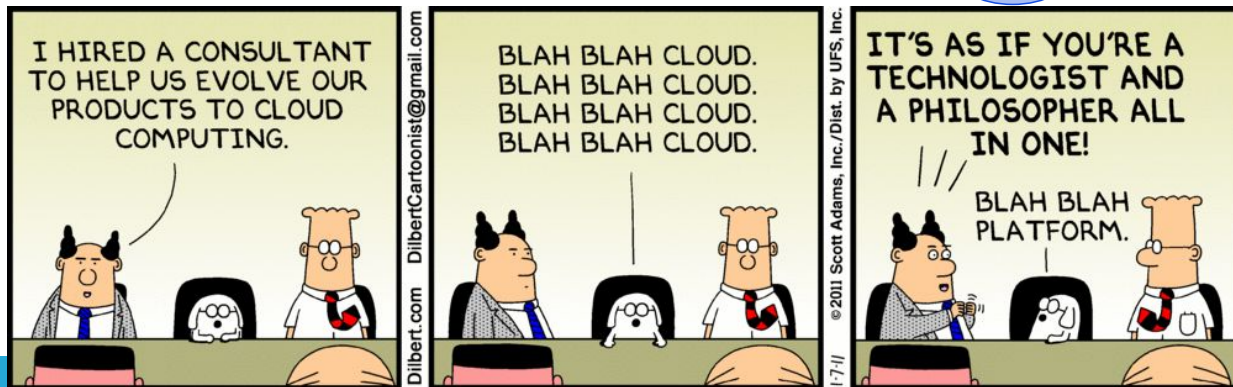
✕



# Cloud

**Let's Move to the Cloud !**

The de facto solution to all problems ...





# Cost Efficient

Cloud was always sold on the premise that it is going to be cheaper, you would improve on Operational Efficiency (OpEx).

# Bill Arrives ...



## Abrupt Usage

High Spikes,  
Was it expected ?  
Was it accidental ?



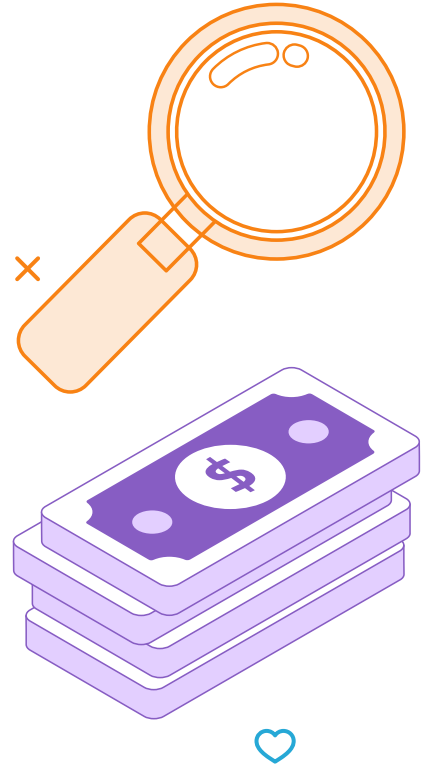
## Accountability

Budgets  
Impact  
Who is  
accountable ?



## Optimization

How to optimize ?  
What if ..



# Problem Statement



02

It was good,  
until the **bill** arrived...





***Don't blame the Cloud,  
you were sold on  
Pay-as-you-Go***



# Problem / Solution

## Problem

Cost Management

Innovation should  
not stop

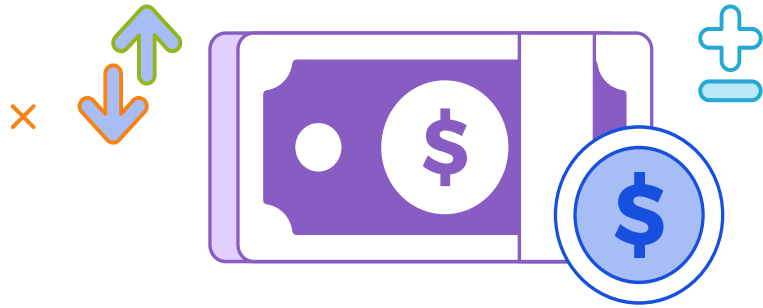
Maximize Value  
Realization



## Solution

FinOps

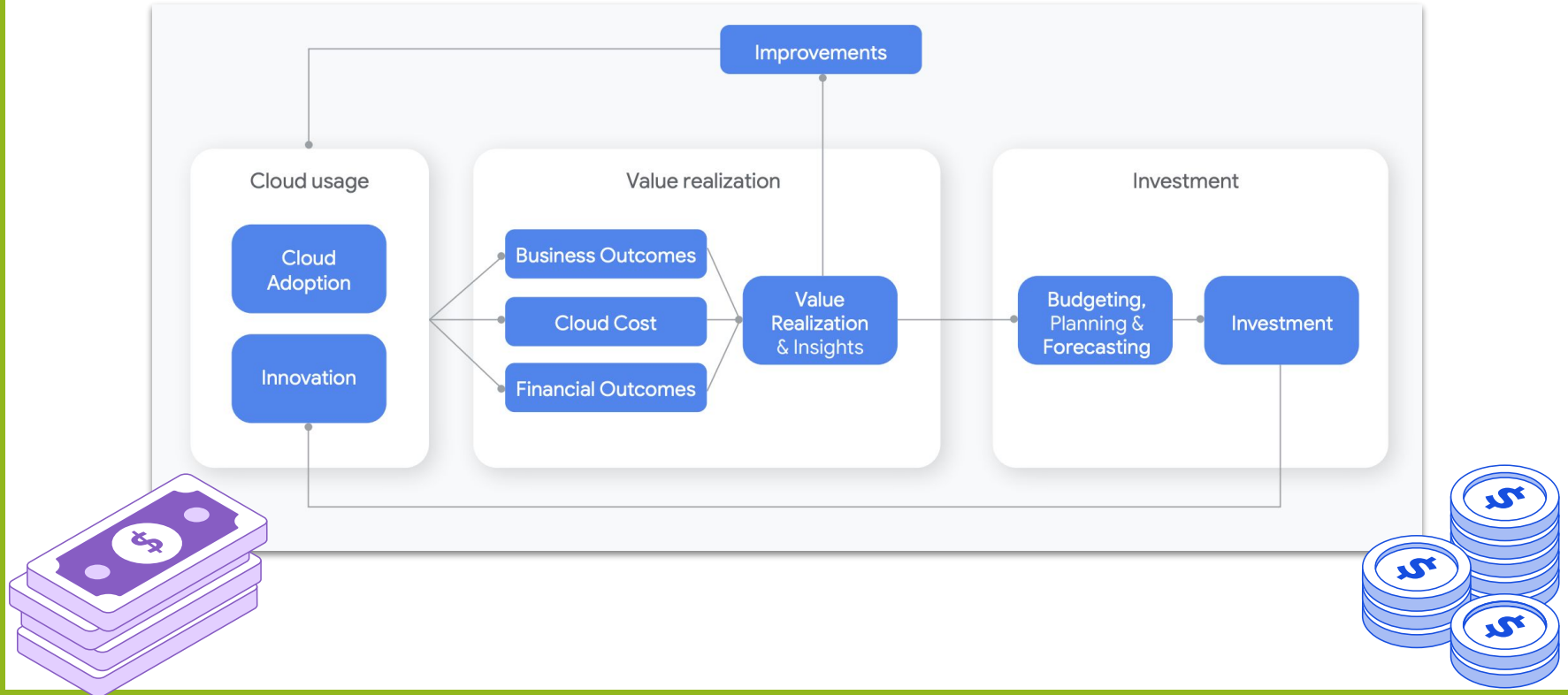
# Solutiln



03



# Cloud FinOps



# Why - When ?



## Why

Maximizing cloud  
investment



## When

Start Small..  
Start ASAP !!

# Who - How ?



## Who

Just like Security..

Everyone !!

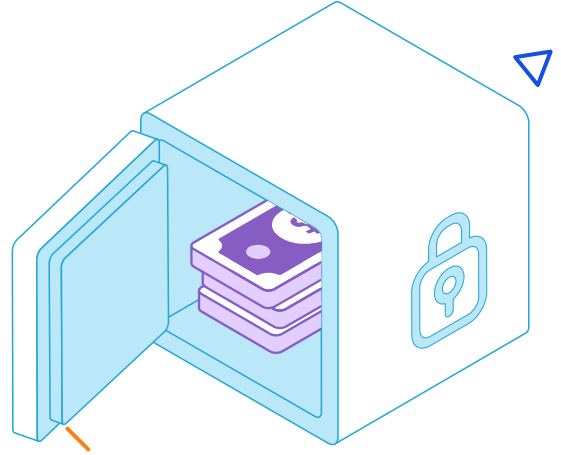


## How

Similar to DevOps

People  
Process  
Technology

# Fundamentals ▽



04

# FinOps Principles



**Nature of Cloud**



**Value based  
decisioning**



**Accountability**



**Collaboration/  
Blamelessness**



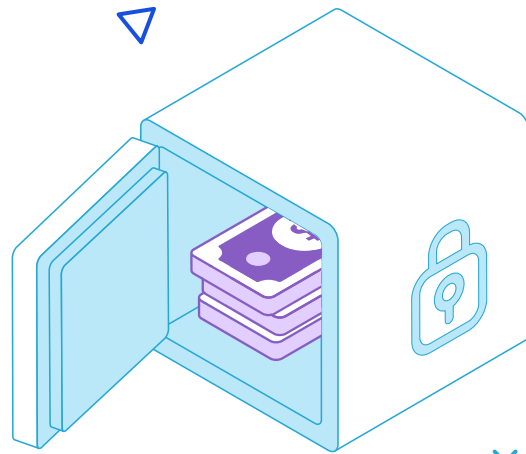
**Democratization  
of Data**



**Agility**



# FinOps Lifecycle



05



1

## Inform

Make information visible

2

## Optimize

Drive cloud efficiency

3

## Operate

Embed FinOps and drive self-sufficiency

# Use-Cases



06

# Use-Cases / Case-Studies



## Storage

Location



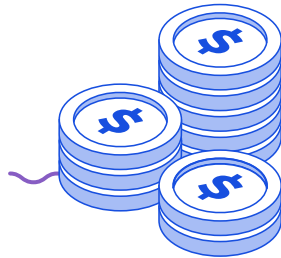
## Compute

Preemptible  
Instances



## Analytics

Predictability

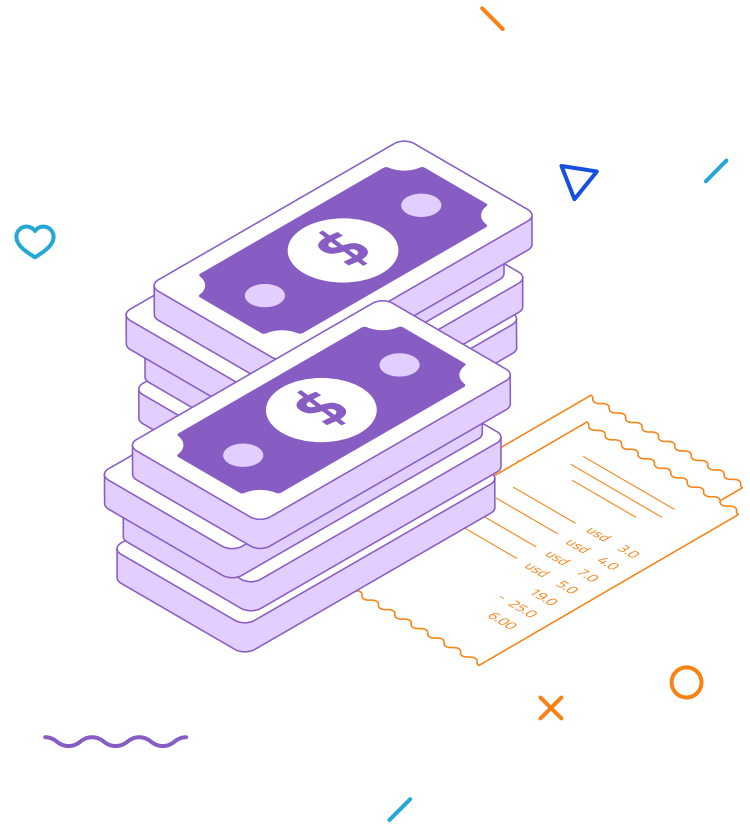


# Storage

Storage Pricing -Directly dependent on Location

**Store Local**

**Serve Local**



# Compute - Chaos Engineering

How to predict Compute failures ?

## Chaos Engineering + Preemptible Instances

- Not guaranteed to be available.
- They live at most 24 hours and then automatically terminated.
- Instances are up-to 80% cheaper when compared to on-demand prices.
- Price of preemptible instances is known in advance.



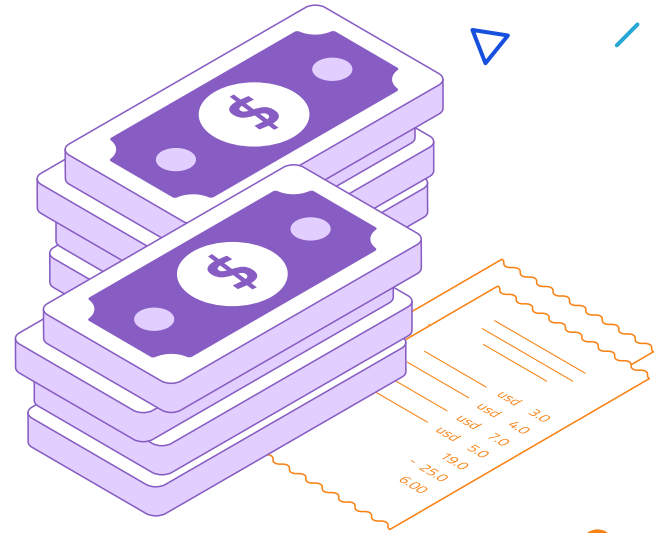
# Analytics

Decoupled Architecture = Decoupled Pricing

## Pricing

On-demand v/s Flat-Rate

How do you save in actual ?





# A PICTURE ALWAYS REINFORCES THE CONCEPT



Images reveal large amounts of data, so remember: use an image instead of a long text. Your audience will appreciate it





# Resources

## Read:

<https://www.finops.org/introduction/what-is-finops/>

<https://cloud.google.com/resources/principles-of-cost-optimization-whitepaper>

<https://cloud.google.com/solutions/cost-efficiency-on-google-cloud>

<https://deploy.live/tags/finops/>

## Labs:

<https://www.cloudskillsboost.google/focuses/7114?parent=catalog>

# Thanks!

Do you have any questions?

**Dharmesh Vaya**

Google Developer Expert



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