

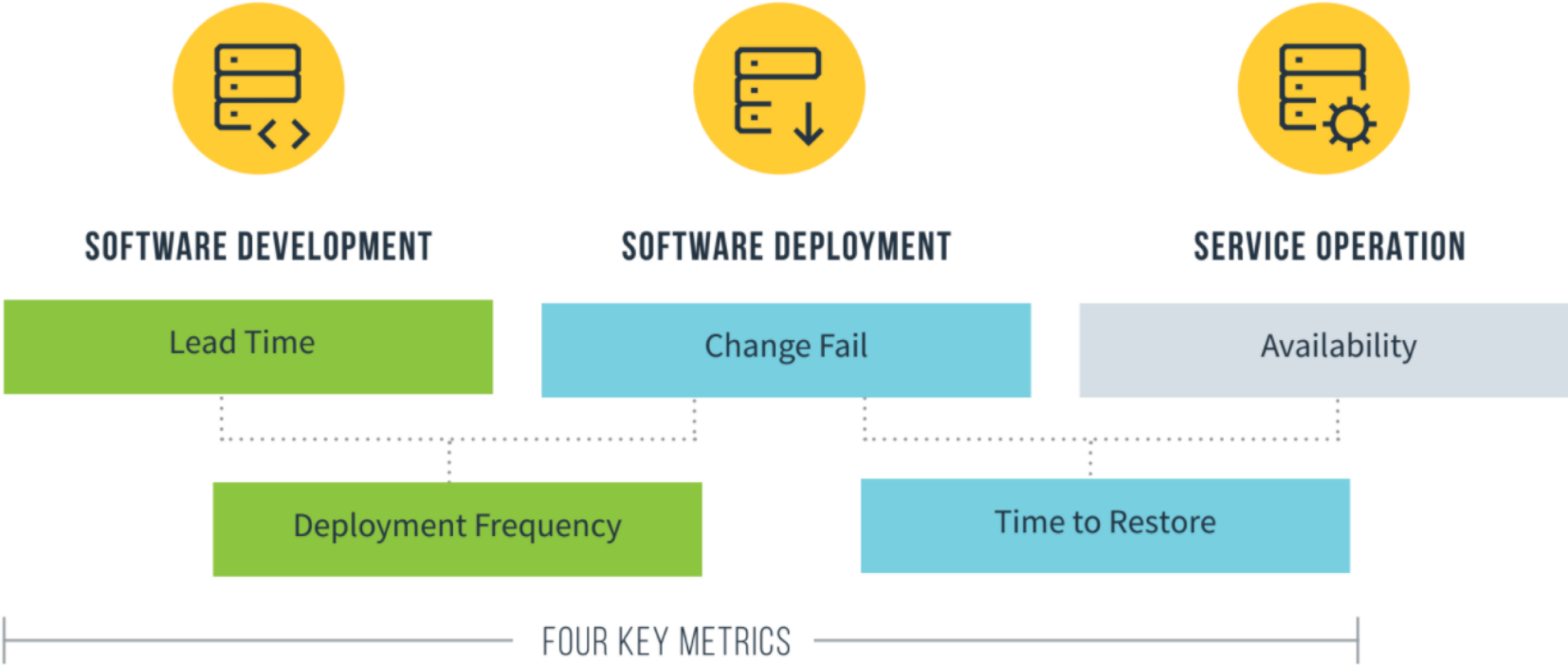
Generating DORA Metrics with GCP

The Four Keys Project
Dina Graves Portman

**DEVOPS
WORLD**
by CloudBees

Background: DORA

PERFORMANCE METRICS



The Four Keys Project

github.com/GoogleCloudPlatform/fourkeys

Four Keys

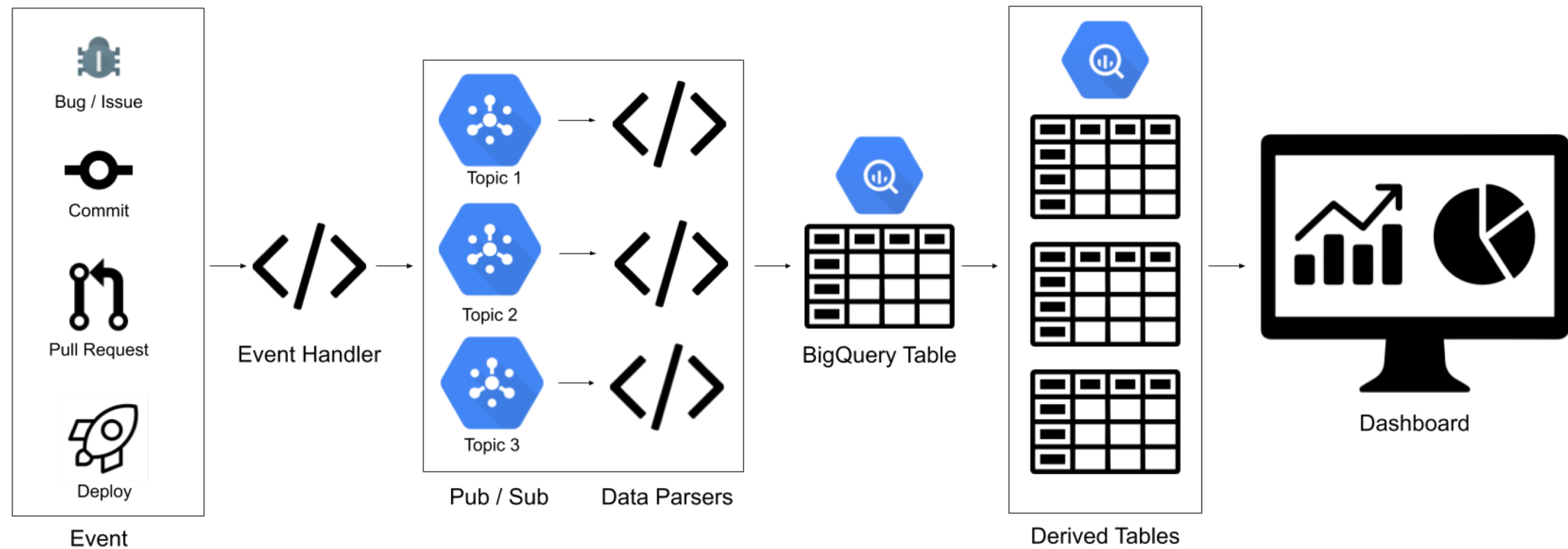
Background

Through six years of research, the [DevOps Research and Assessment \(DORA\)](#) team has identified four key metrics that indicate the performance of a software development team. This project allows you to collect your data and compiles it into a dashboard displaying these key metrics.

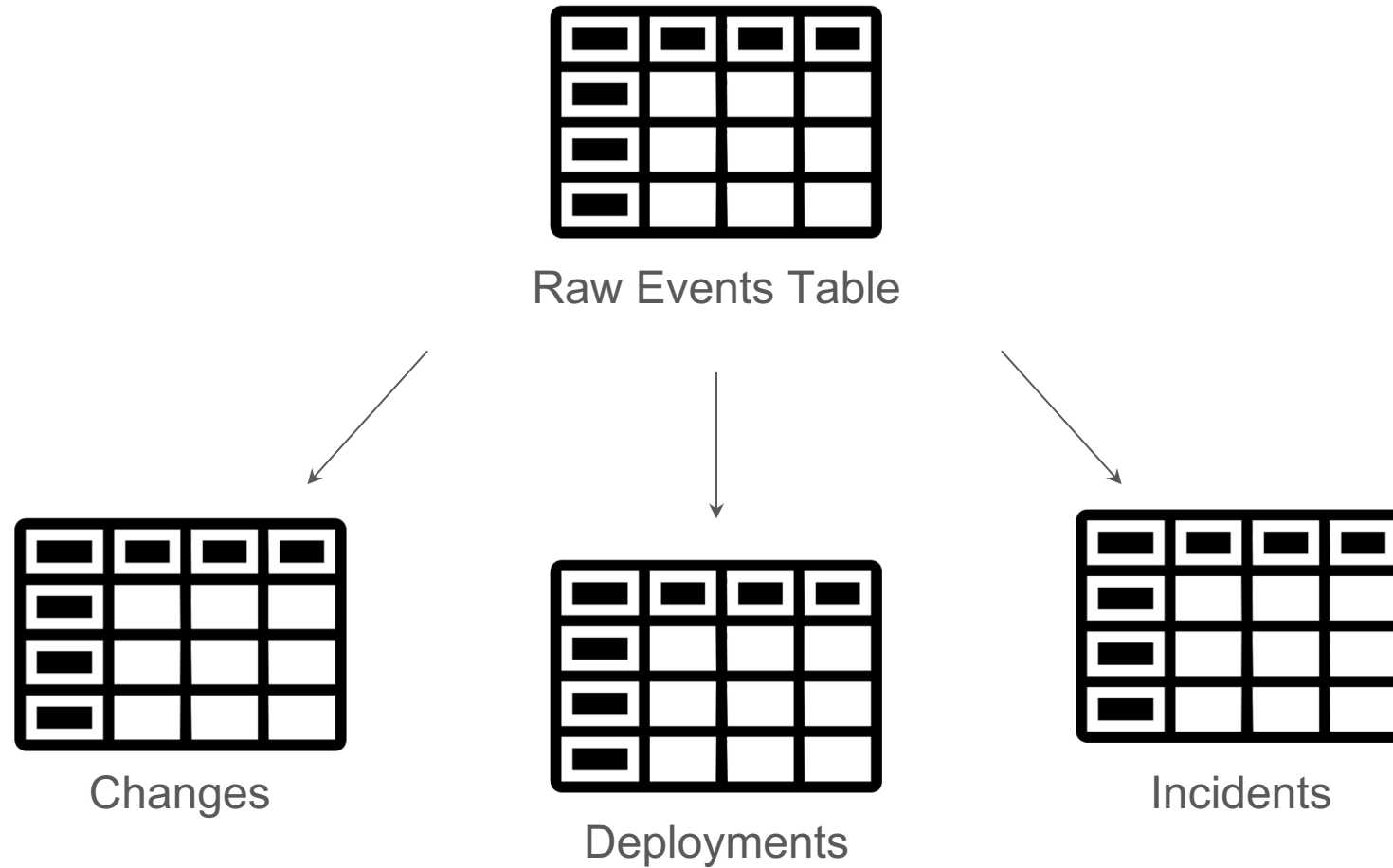
- Deployment Frequency
- Lead Time for Changes
- Time to Restore Services
- Change Failure Rate

How it works

Design: Four Keys Infrastructure

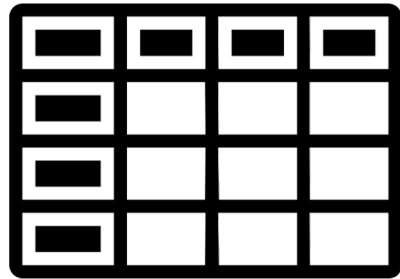


Design: Four Keys Tables

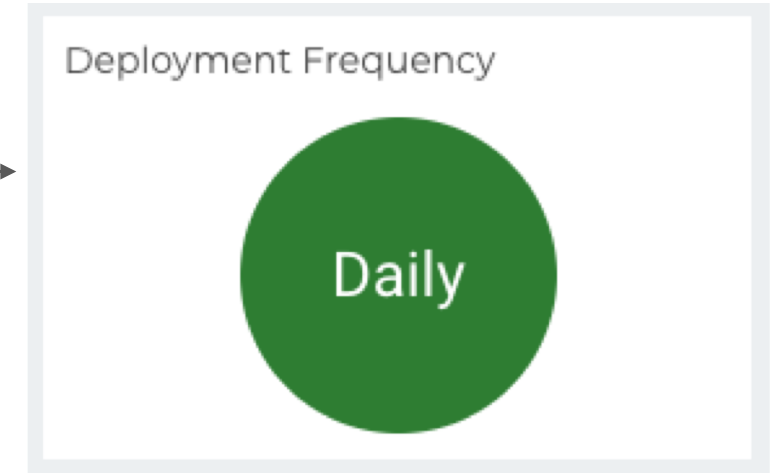
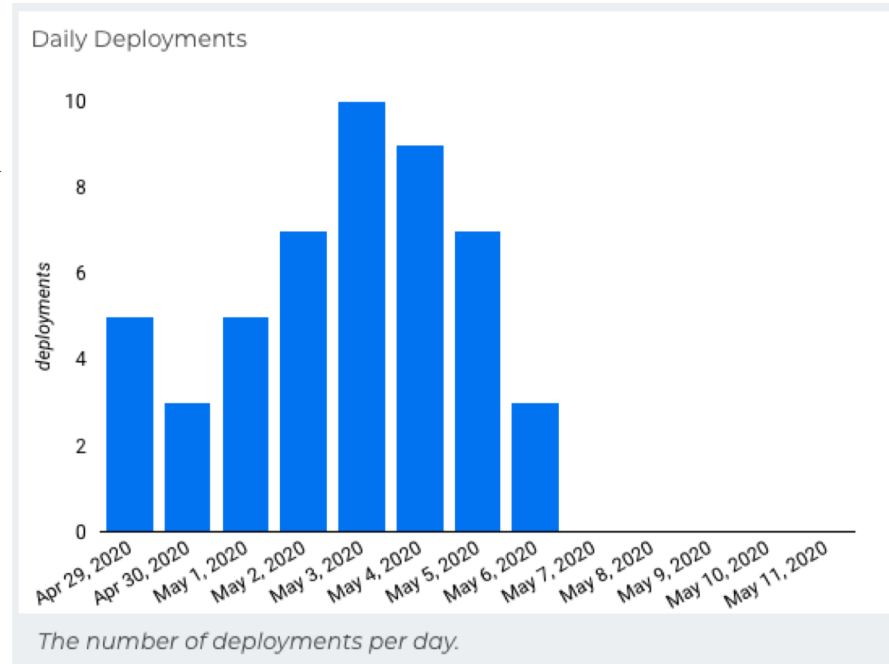


Metrics: Deployment Frequency

*Definition: How **often** does an organization **successfully** release to production*

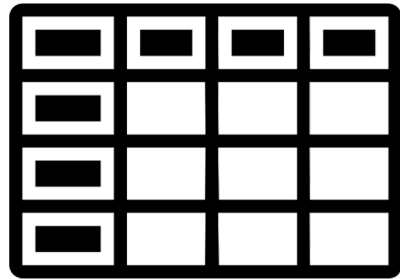


Deployments

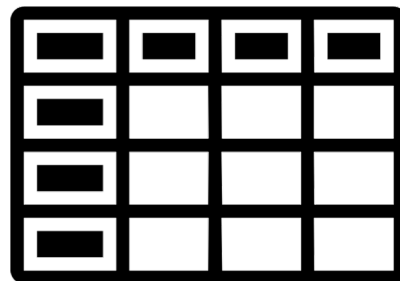


Metrics: Lead Time to Change

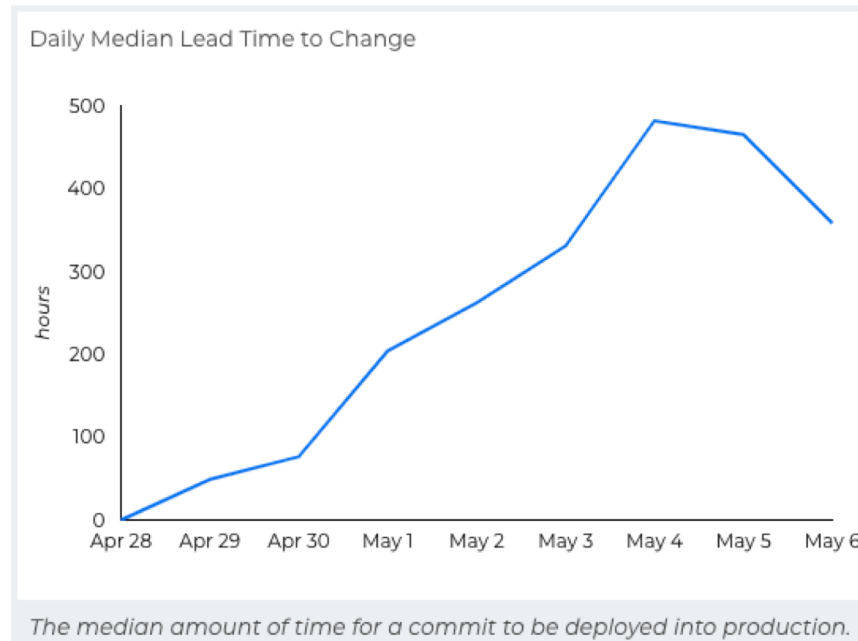
*Definition: The amount of **time** it takes a **commit** to get into **production***



Deployments

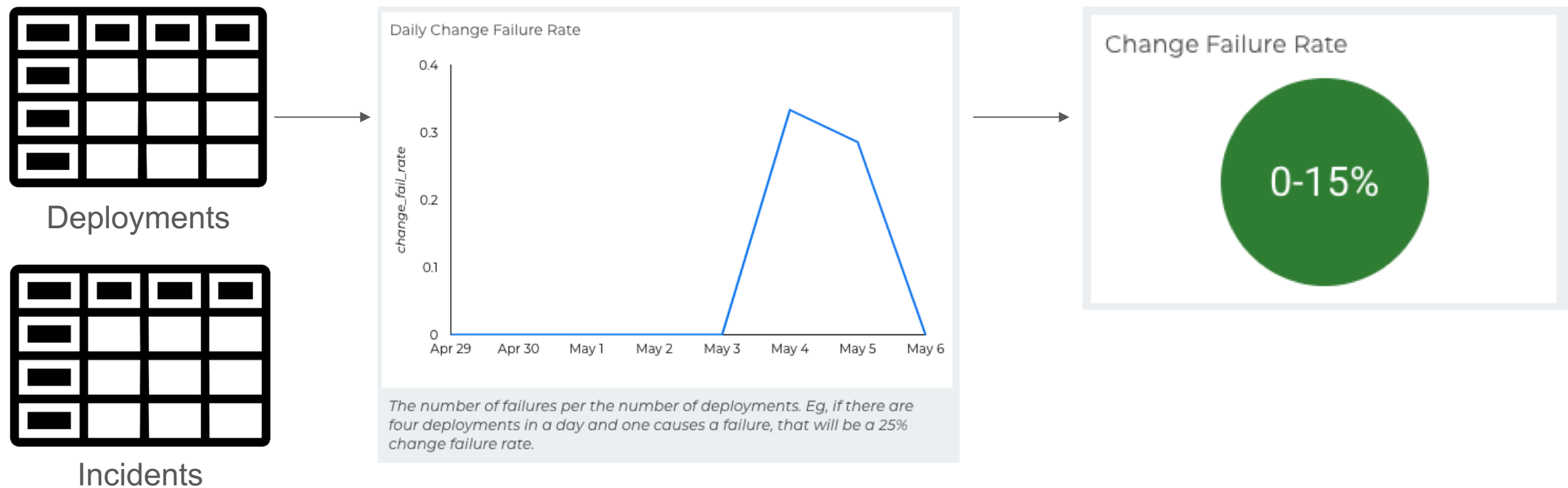


Changes



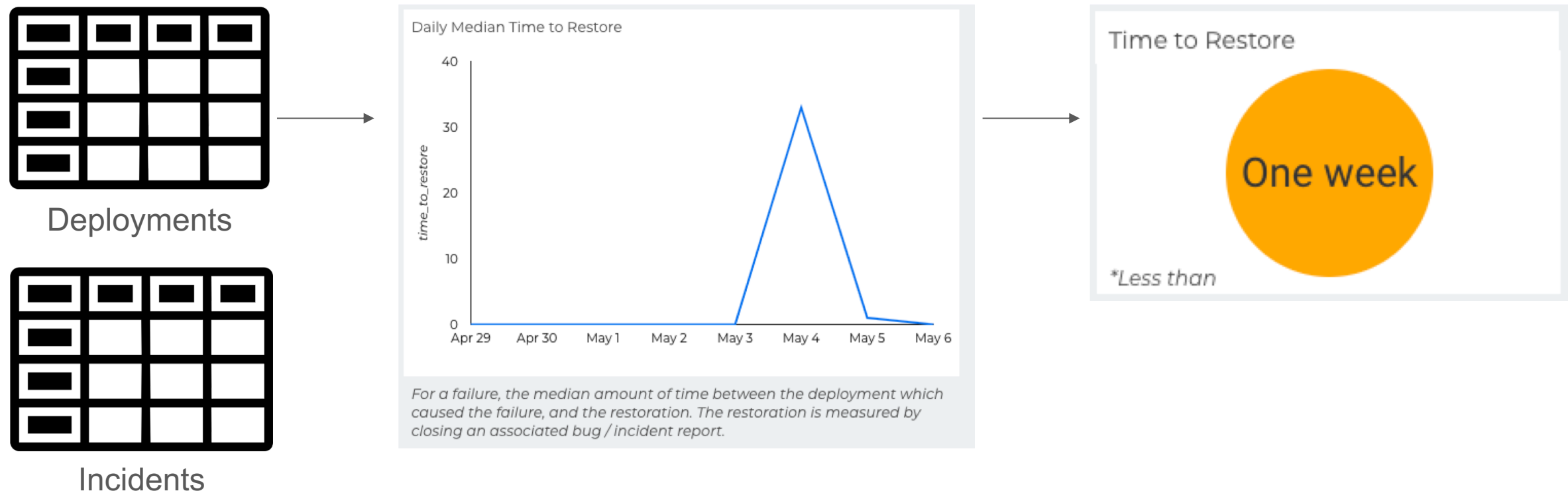
Metrics: Change Failure Rate

Definition: The **percentage of deployments** causing a **failure** in production

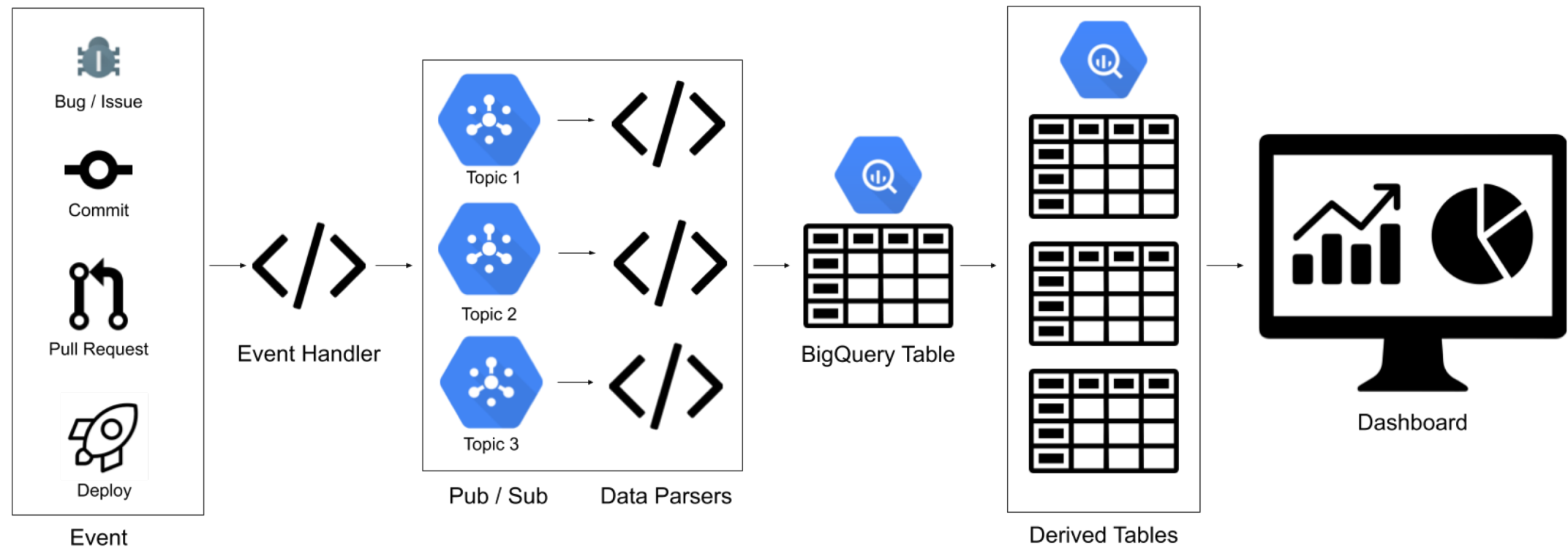


Metrics: Time to Restore

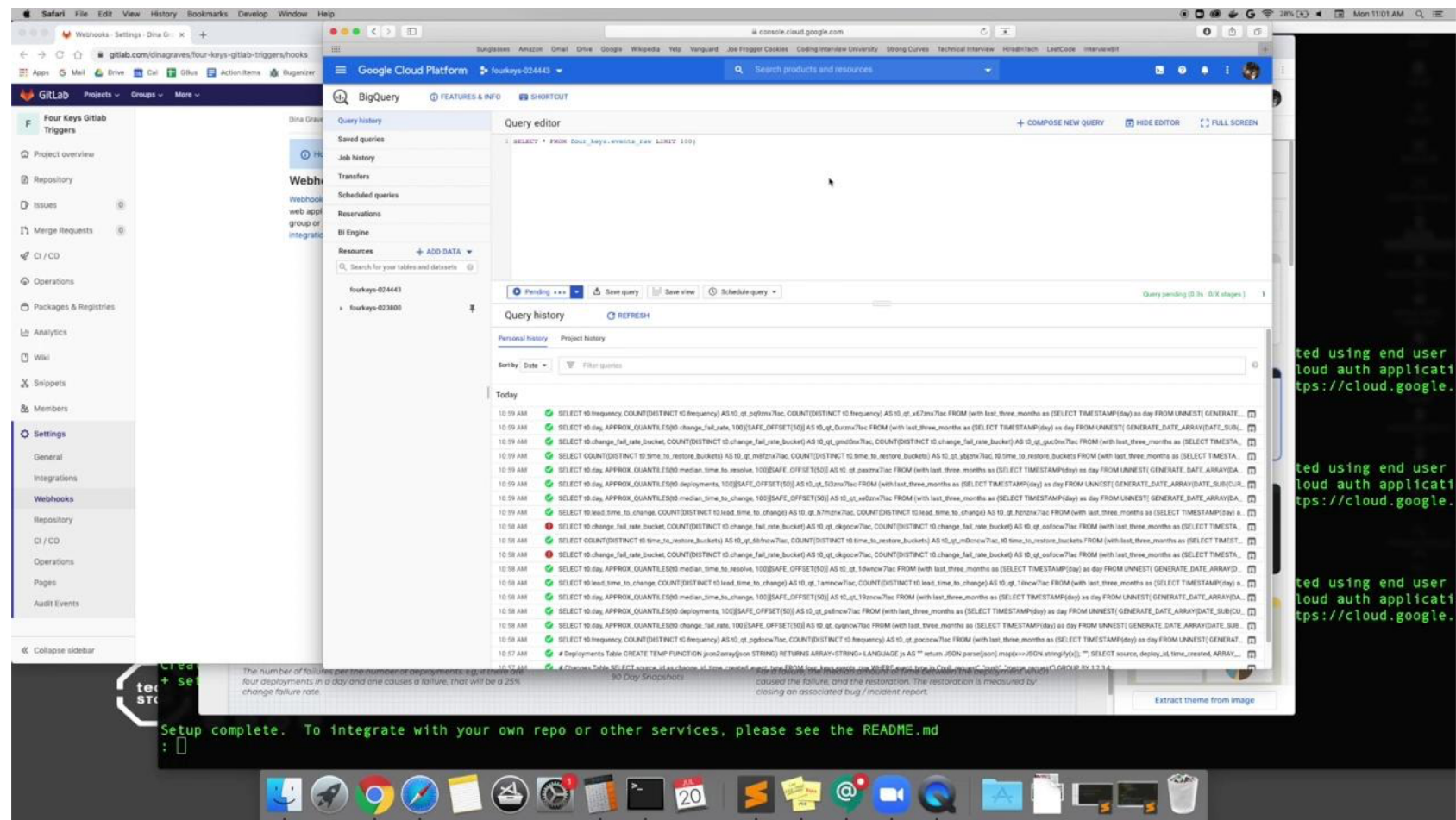
*Definition: How **long** does it take an organization to **recover** from a failure in production*



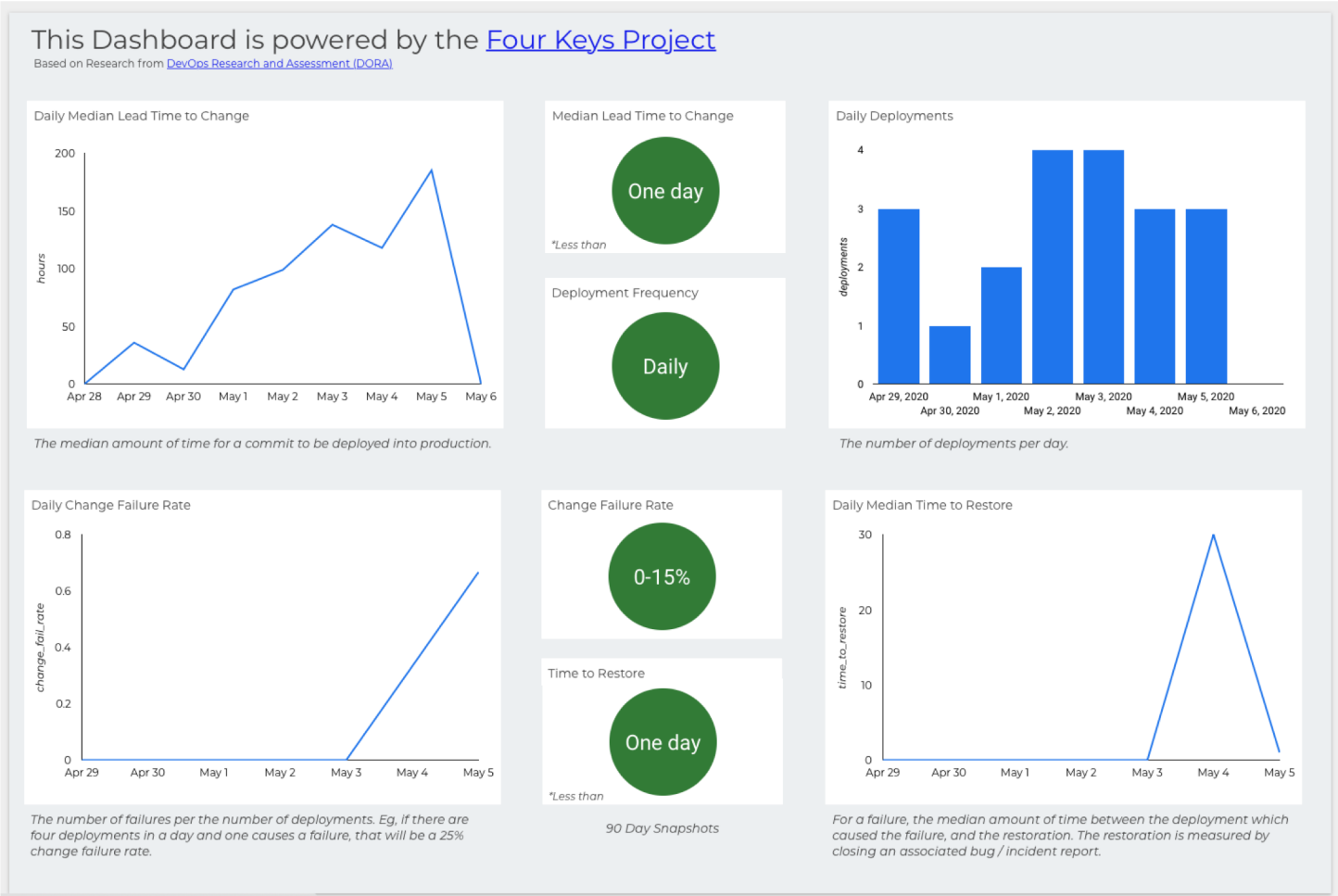
Reminder: Four Keys Infrastructure



Demo Video



The Dashboard





Try it out!

github.com/GoogleCloudPlatform/fourkeys



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