

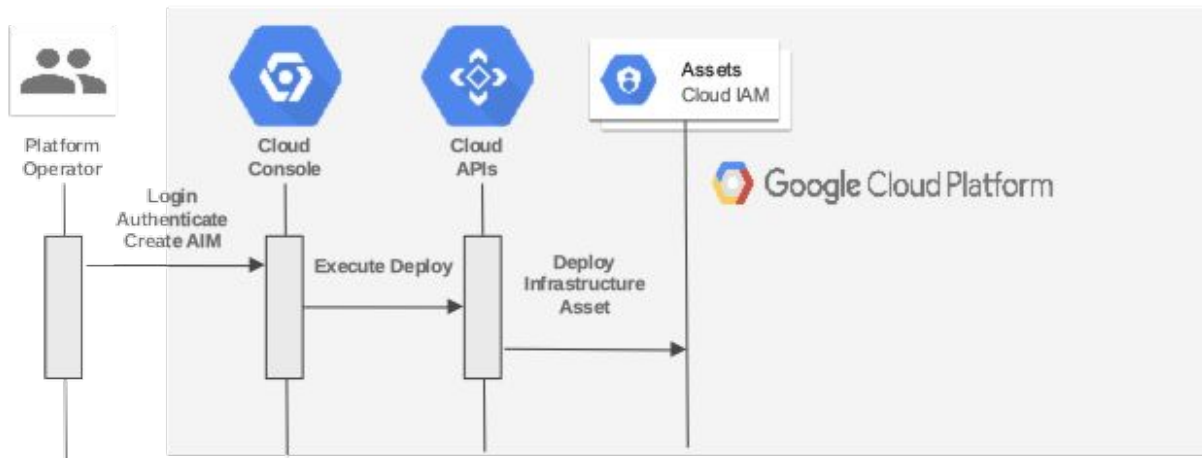
Vault on GKE Demo

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IAM Infrastructure Development & Deployment Use Case

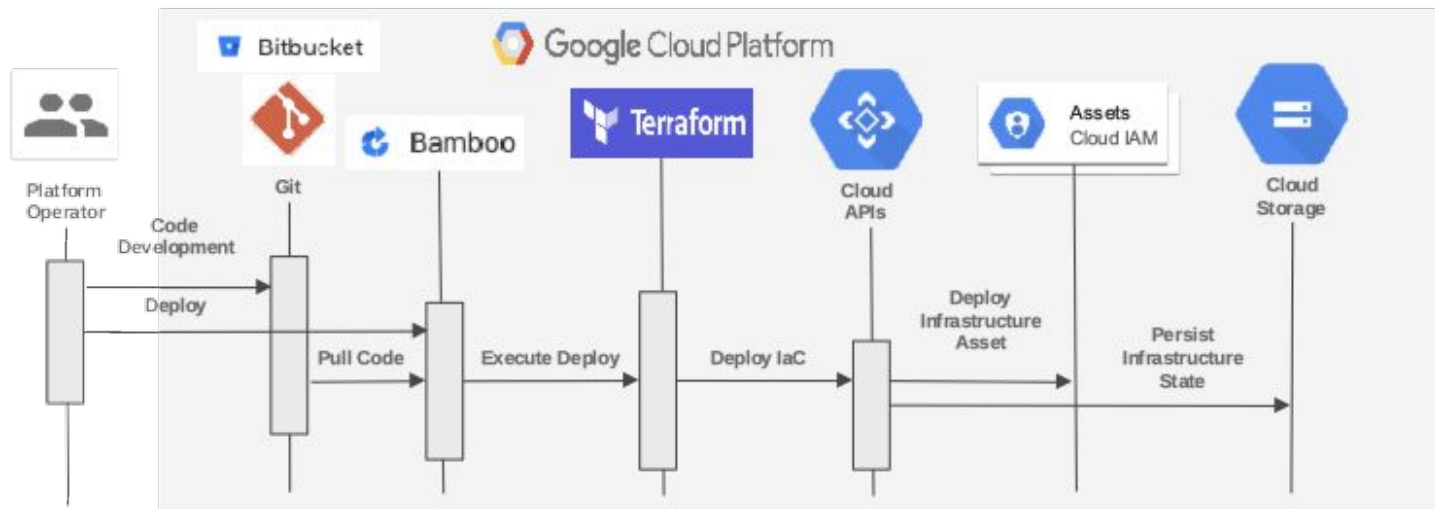
Current State:

UI driven
Manual
Hard to Scale
Intellectual Property volatility



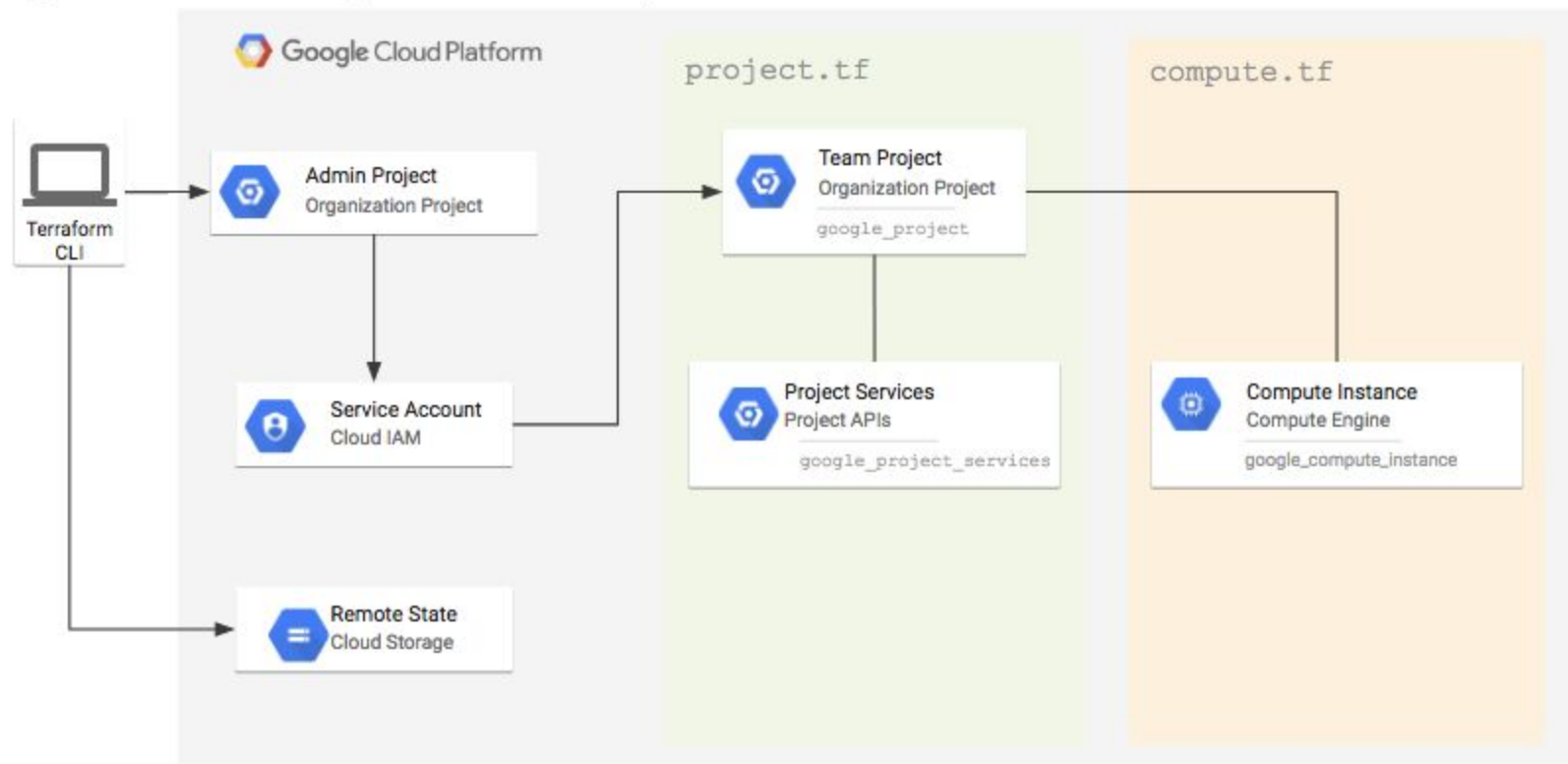
Future State:

DevOps lifecycle
IaC
State Persistence
Scalable
Reproducible
IP retention



Architecture diagram for tutorial components:

Figure 1. *Architecture diagram for tutorial components*



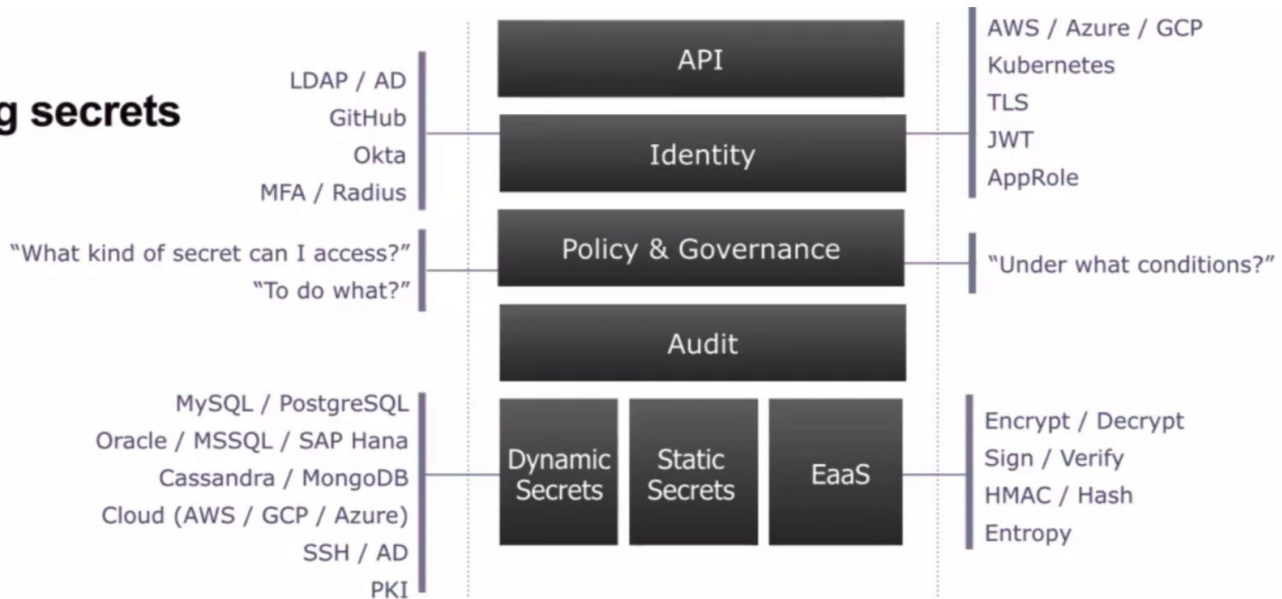
Vault adoption

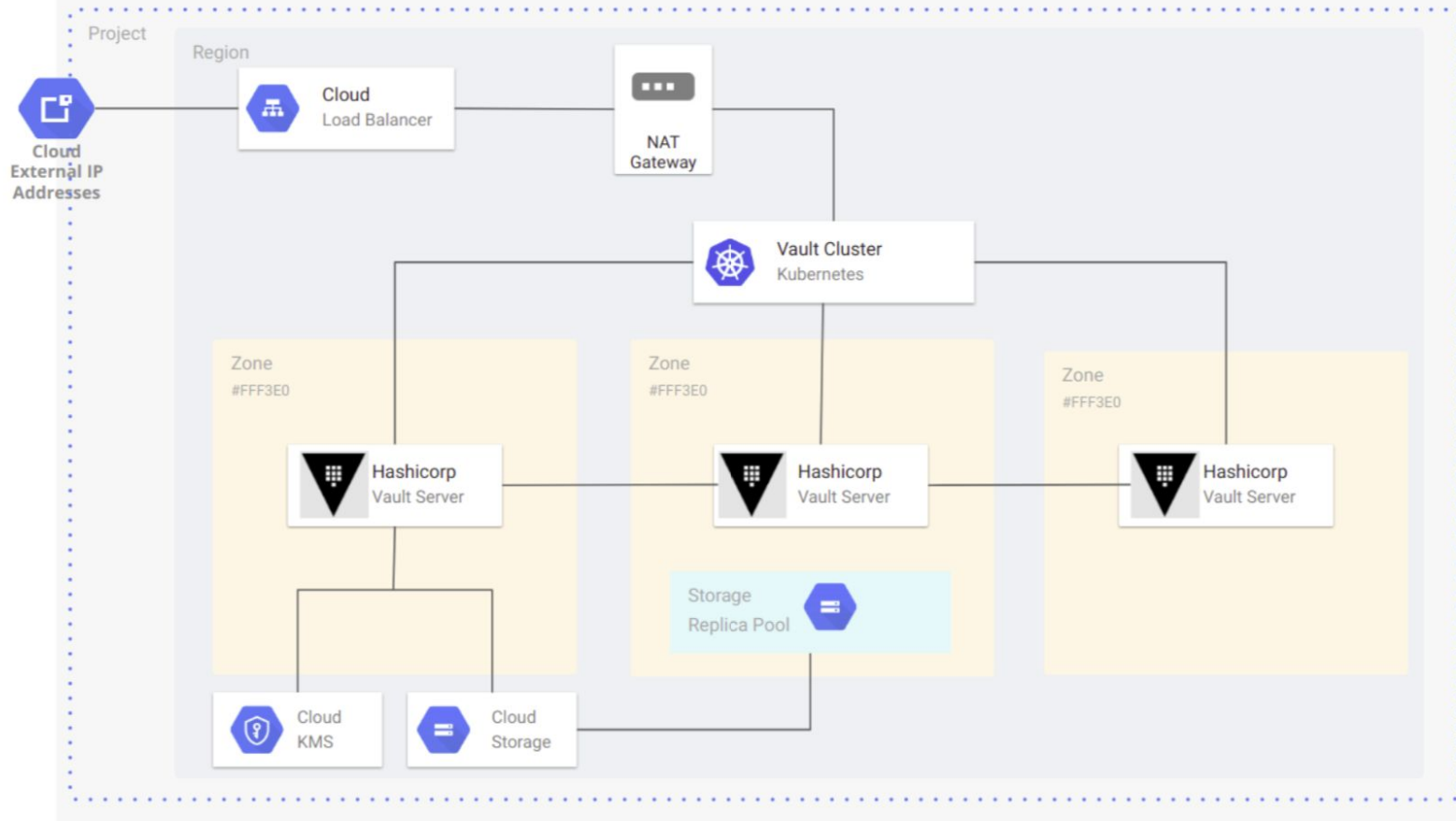
The Vault adoption has the following three primary objectives in our technology stack

- CENTRALIZE: SECRET MANAGEMENT
- ENCRYPT: SECRETS AT REST AND IN TRANSIT
- PROVIDE: SECRETS AS A SERVICE
- PROVIDE: ENCRYPTION AS A SERVICE
- Authentication Methods: Auth methods are the components in Vault that perform authentication and are responsible for assigning identity and a set of policies to a user/machine.

Vault Capabilities

Keeping secrets





Vault Integration Reference Architecture

Platform Heavy Reference Architecture

- K8s Patters: Sidecar, Init container, JWT secret
- Vault Patterns: Auth Kubernetes, AppRole

