Amar Lojo

Solutions Engineer at HashiCorp he/him

amar@hashicorp.com GitHub: github.com/lomar92



Packer & HCP Vault Better Together

GitHub | AWS Secrets | Vault Management



Problem Statement



- Secrets Management f
 ür CI CD/GitHub Actions
- Secrets sind verteilt in Repos und Pipelines
- AWS Secrets sind statisch
- GitHub Auth Engine für Vault nicht ausreichend
- Zero Trust
- Einfaches Management von Vault

Introduction

例

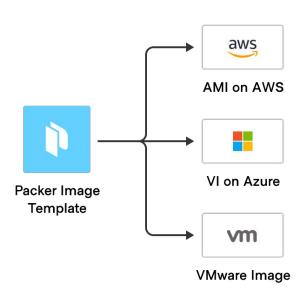
HashiCorp Vault



Introduction

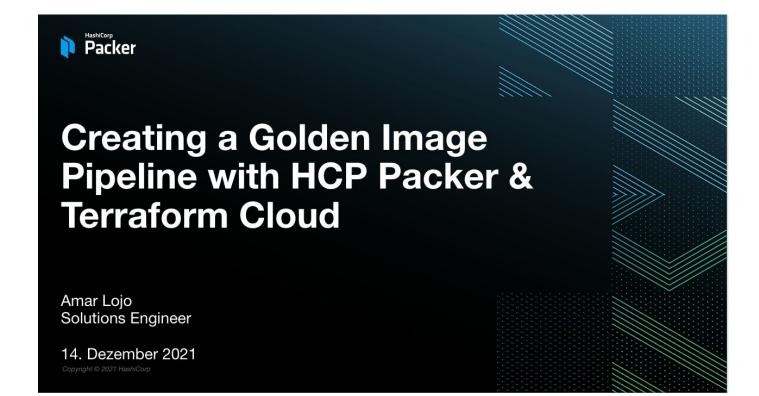


Packer



- Easy to read and write: Leverages HCL2,
 making it easier to use alongside Terraform
- Extensible: Use one language to manage images across clouds and integrate with other configuration tools
- Open source: Use existing community templates, or write your own





<u>Creating a Golden Image Pipeline with HCP Packer & Terraform Cloud Demo</u>

Wie lösen wir es?



i hashicorp-guide-vault-github-oidc.de



Die Website ist nicht erreichbar

Prüfe, ob "www.hashicorp-guide-vault-github-oidc.de" einen Tippfehler enthält.

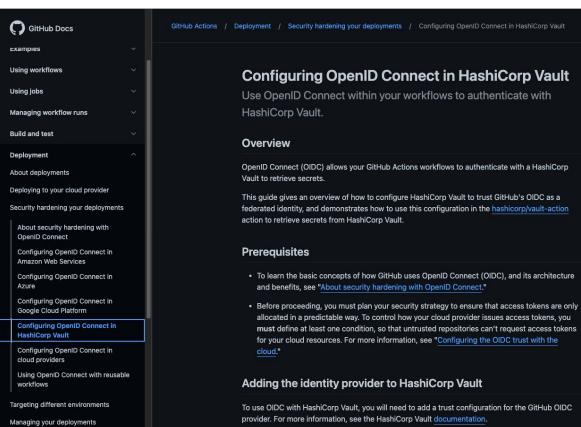
DNS_PROBE_FINISHED_NXDOMAIN

Neu laden

GitHub Doku



- GitHub OIDC
- HashiCorp Vault support?

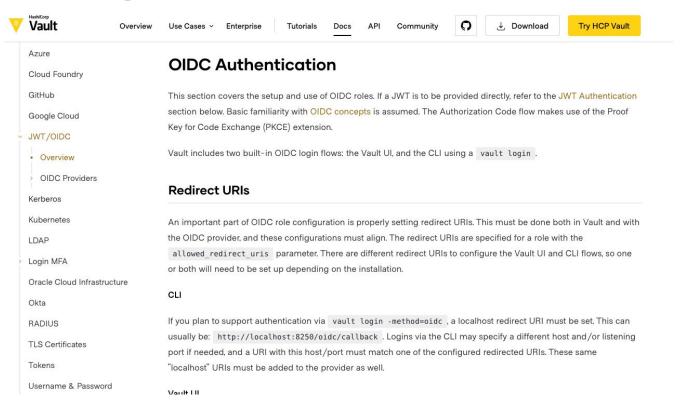


Deploying Xcode applications

To configure your Vault server to accept JSON Web Tokens (JWT) for authentication:

HashiCorp Doku





Vault OIDC: https://www.vaultproject.io/docs/auth/jwt

Was muss konfiguriert werden?

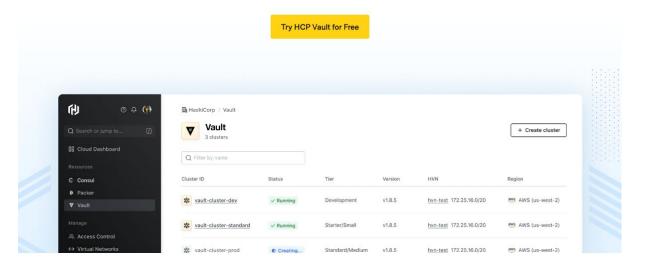


Pricing

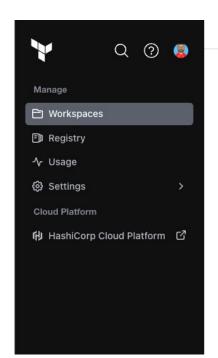
Documentation

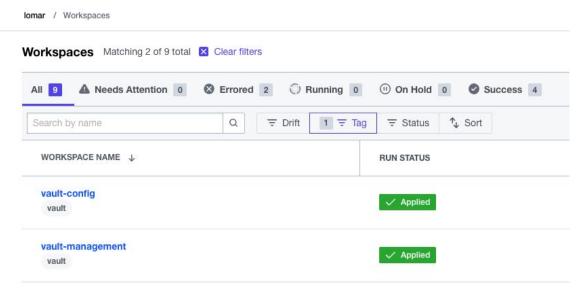
Secure applications and protect sensitive data.

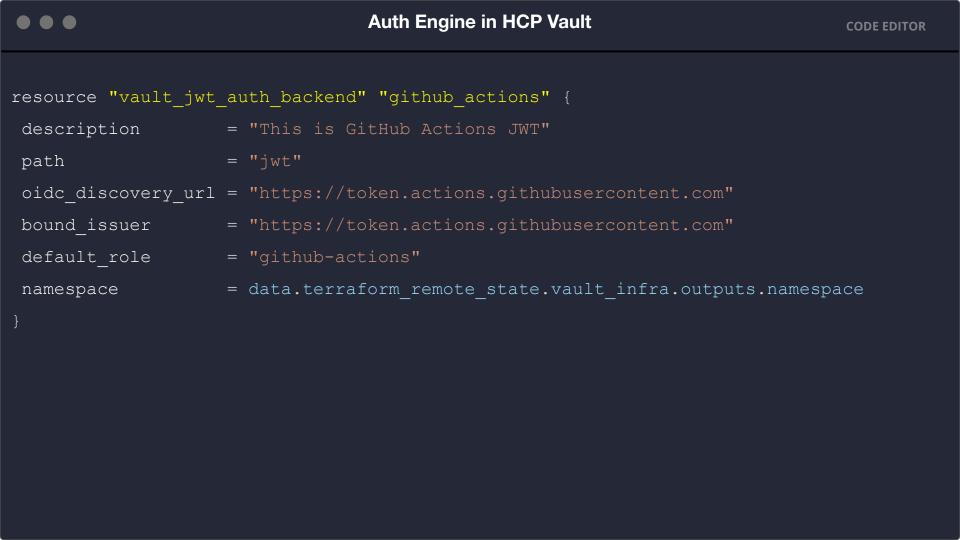
HCP Vault provides all of the power and security of Vault, without the complexity and overhead of managing it yourself. Access Vault's best-in-class secrets management and encryption capabilities instantly and onboard applications and teams easily











```
resource "vault aws secret backend" "aws" {
access key = var.AWS ACCESS KEY ID
                                                             Terraform Cloud
secret key = var.AWS SECRET ACCESS KEY
region = "eu-central-1"
namespace = data.terraform remote state.vault infra.outputs.namespace
```

Last Step

例

GitHub Konfiguration?





Notes & Lessons Learned



- AWS Credential Management nach Least Privilege Ansatz
- AWS IAM oder AWS STS credentials werden unterschiedlich für die Pipeline verarbeitet bzw. zur Verfügung gestellt. "AWS Consistency"
- AWS Secrets Engine: Konfigurieren und anschließend Secrets rotieren.
- Vault mithilfe von Terraform managen
- GitHub Repo zum selber probieren: https://github.com/lomar92/tf-vault-packer



112 HashiCorp User Groups

hugs@hashicorp.com | learn.hashicorp.com | discuss.hashicorp.com



Thank You

hugs@hashicorp.com | learn.hashicorp.com | discuss.hashicorp.com