HashiCorp

Vault

Vault

Diego Pacheco

About Me

- ❏ Cat's Father
- ❏ Principal Software Architect
- ❏ Agile Coach
- ❏ SOA/Microservices Expert
- ❏ DevOps Practitioner
- ❏ Speaker
- ❏ Author

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Building Applications with Scala

Write modern, scalable, and reactive applications with the power of Scala

Packt>

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Building Effective Microservices

Explore microservices and their implementation hands-on

Packt>

Manage Secrets | Protect Data

Secrets Management

Centrally store, access, and distribute dynamic secrets such as tokens, passwords, certificates, and encryption keys
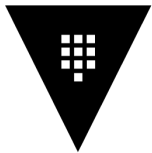
Data Protection

Keep application data secure with centralized key management and simple APIs for data encryption

Install Vault

```
install-vault.sh  ✕

1   #!/bin/bash
2
3   wget https://releases.hashicorp.com/vault/1.0.1/vault_1.0.1_linux_amd64.zip
4   unzip vault_1.0.1_linux_amd64.zip
5   chmod +x vault
```

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vault

```
$ vault

Usage: vault <command> [args]

Common commands:
    read        Read data and retrieves secrets
    write       Write data, configuration, and secrets
    delete      Delete secrets and configuration
    list        List data or secrets
    login       Authenticate locally
    server      Start a Vault server
    status      Print seal and HA status
    unwrap      Unwrap a wrapped secret

Other commands:
    audit       Interact with audit devices
    auth        Interact with auth methods
    lease       Interact with leases
    operator    Perform operator-specific tasks
    path-help   Retrieve API help for paths
    policy      Interact with policies
    secrets     Interact with secrets engines
    ssh         Initiate an SSH session
    token       Interact with tokens
```

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vault server -dev

Checking if vault is FINE

Write | Read Secrets

Get Data as JSON

diego@4winds: ~/github/diegopacheco/DevOpsEngineerExpress/source/vault
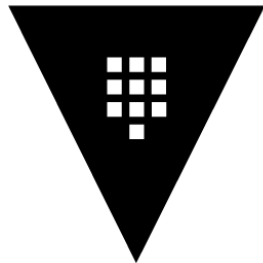
File Edit View Search Terminal Tabs Help

diego@4winds: ~/github/diegopacheco/DevOpsEngineerExpress/source/vault   vault server -dev
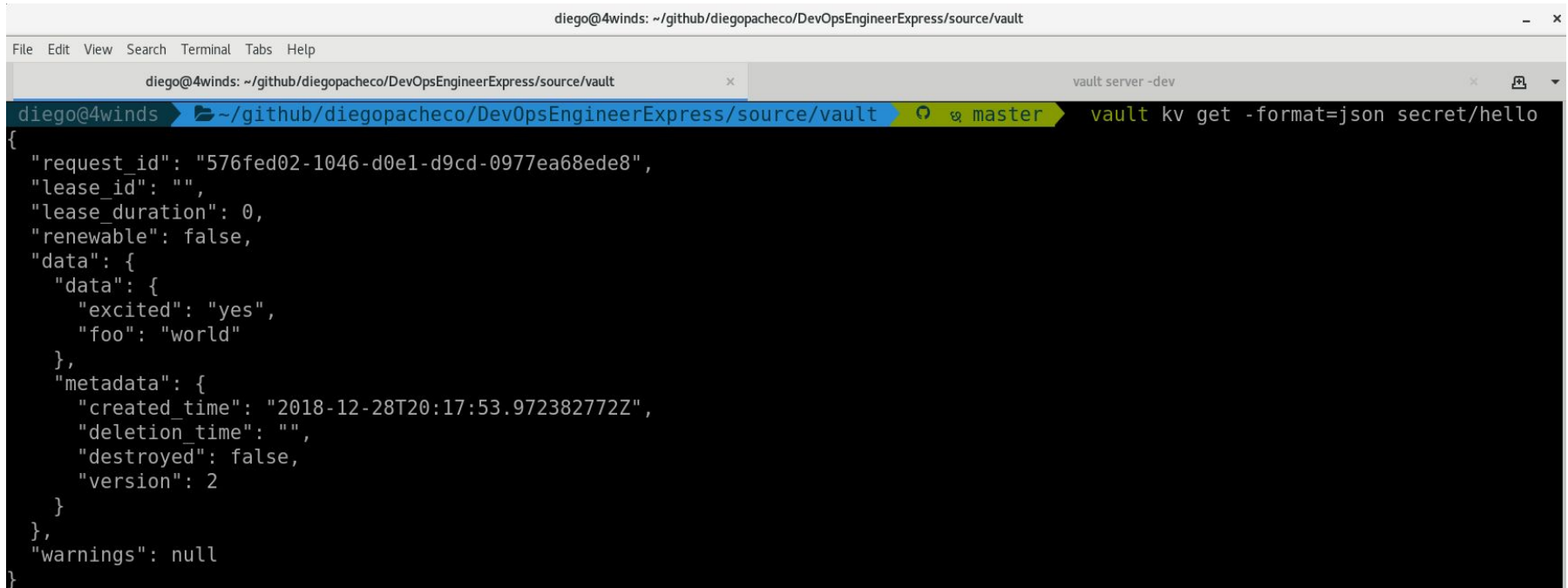
diego@4winds   ~/github/diegopacheco/DevOpsEngineerExpress/source/vault   ○ ⑁ master   vault kv get -format=json secret/hello

```
{
  "request_id": "576fed02-1046-d0e1-d9cd-0977ea68ede8",
  "lease_id": "",
  "lease_duration": 0,
  "renewable": false,
  "data": {
    "data": {
      "excited": "yes",
      "foo": "world"
    },
    "metadata": {
      "created_time": "2018-12-28T20:17:53.972382772Z",
      "deletion_time": "",
      "destroyed": false,
      "version": 2
    }
  },
  "warnings": null
}
```

Deleting Secrets

Vault Web UI

http://127.0.0.1:8200/ui/vault

... Much More!

- ❏ Secret Engines
- ❏ Dynamic Secrets
- ❏ Roles
- ❏ Great | Revoke Access Tokens
- ❏ Policies(HCL) Support
- ❏ Consul Integration for Distributed Backend

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