

30 segundos de senhas! Automatizando
o rotacionamento senhas em aplicações java

George Tavares

Postgres

- Banco de dados SQL

Helm - Pacotes - Operators

- Melhores práticas para deploy
- Múltiplos recursos - PV, PVC StatefulSet - Pod - Services

```
helm install my-release oci://registry-1.docker.io/bitnamicharts/postgresql --set  
auth.postgresPassword=admin
```

```
CREATE ROLE "rw" NOINHERIT;  
GRANT ALL PRIVILEGES ON ALL TABLES IN SCHEMA public TO "rw";  
GRANT USAGE ON SCHEMA public TO "rw";
```

```
psql -h 172.19.0.2 -p30432 -U postgres postgres
```

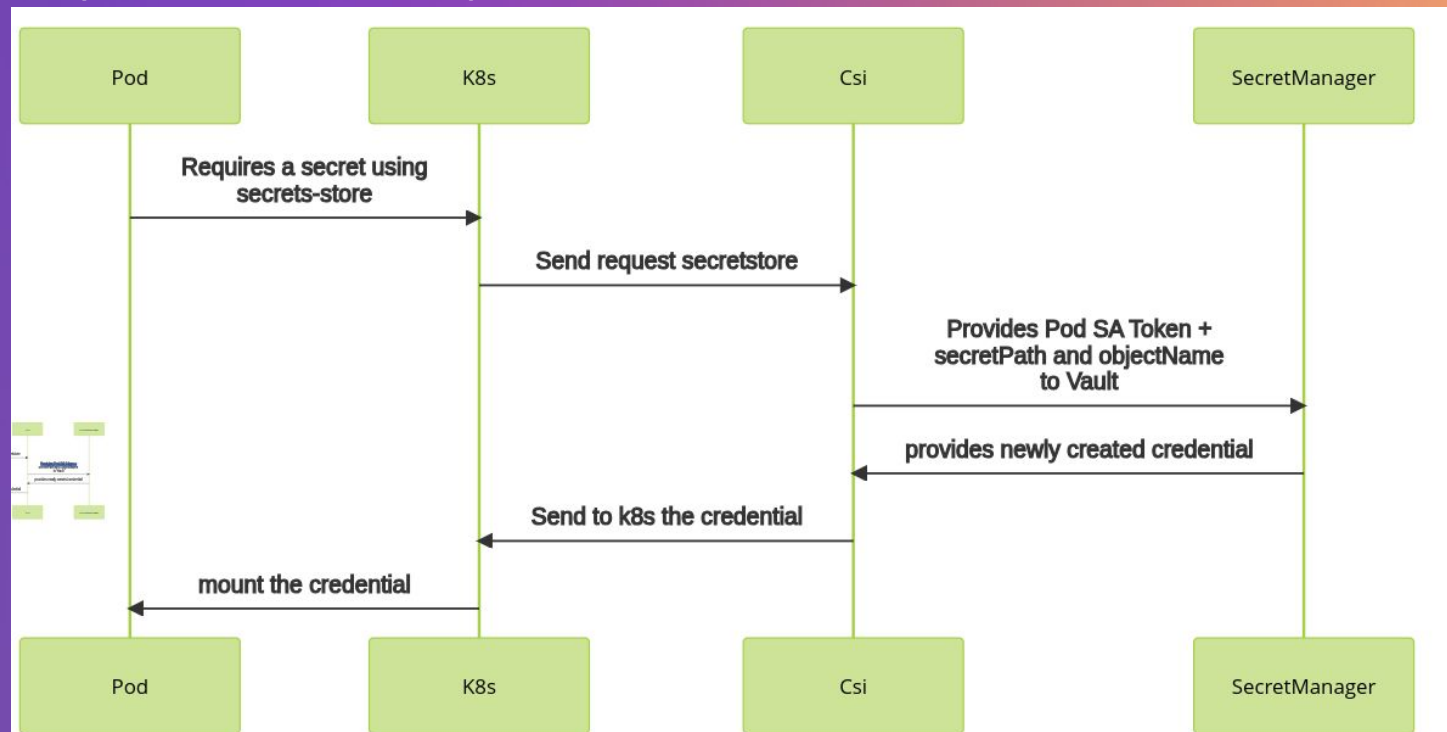
Aplicação

- Agroal
- Java 21
- “SELECT concat(session_user, ' ', current_user)”
- Configuracao: quarkus.datasource.credentials-provider=custom

<http://172.19.0.2:32200/hello>

CSI - Container Storage Interface

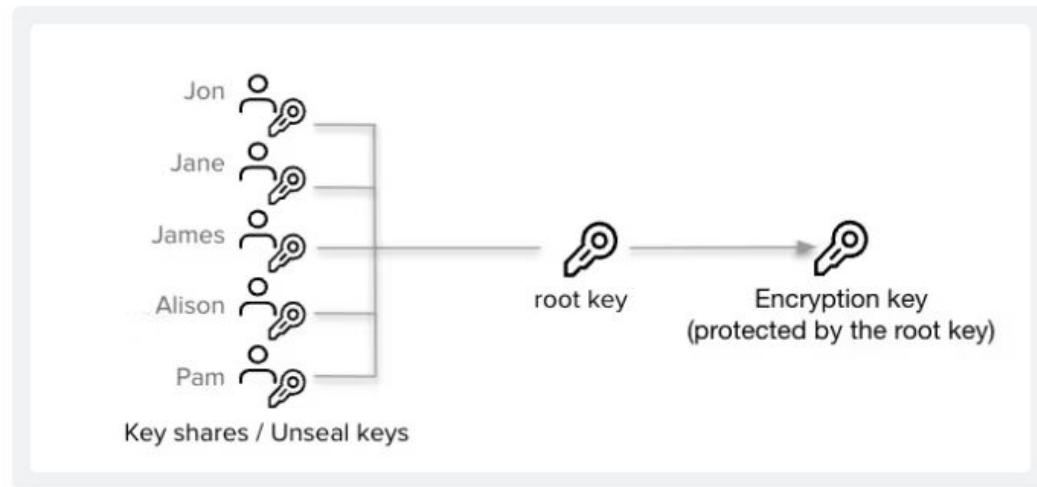
- Usado primariamente para block e device storage
- Neste caso de uso usamos para secret store - Secrets Store CSI Driver
- Suporta azure, aws, gcp e vault



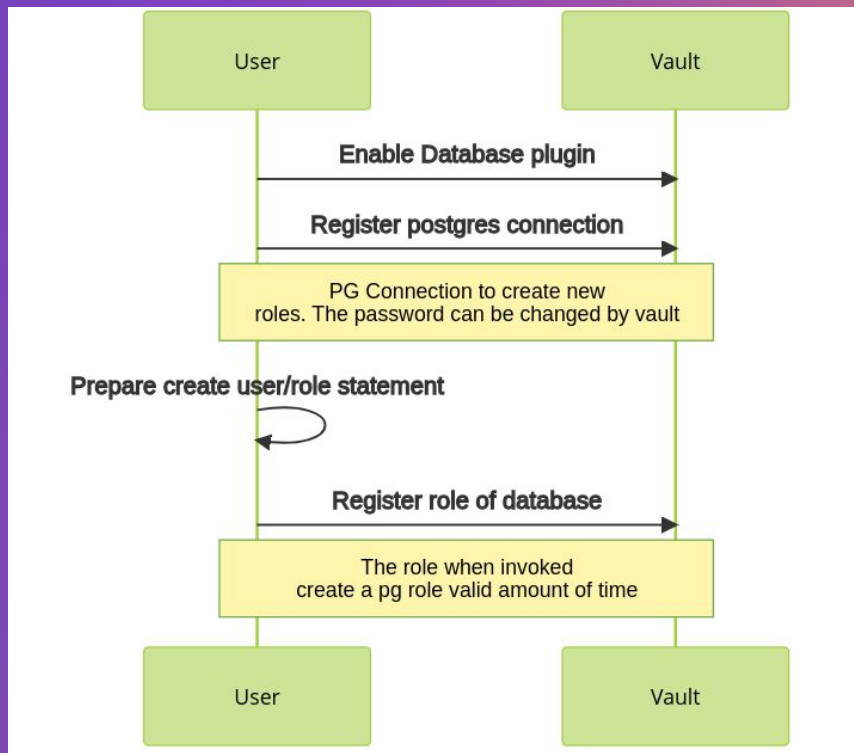
Vault

- Sistema de cofre da Hashicorp
- Static Secrets, Dynamic Secrets, Enveloped Encryption, Identidade de acesso, gerenciamento de chave (KMS)
- Database - postgres
- Auth - k8s
- Policies

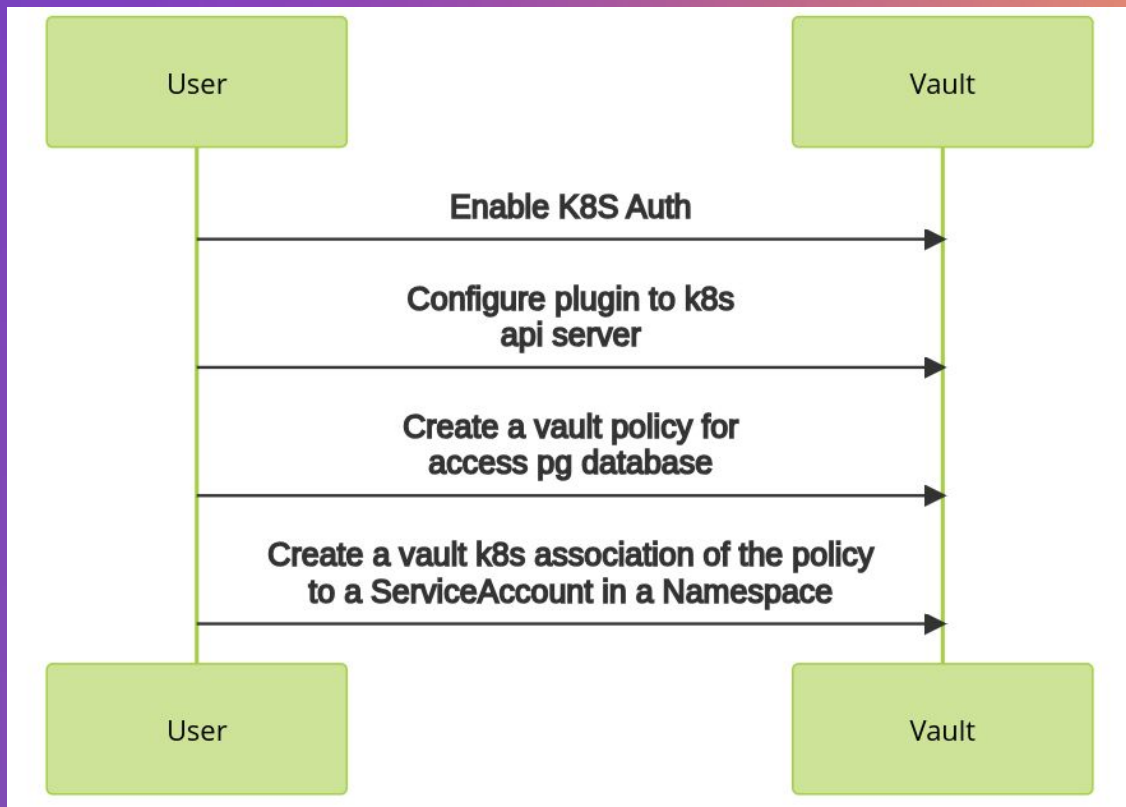
Shamir seals

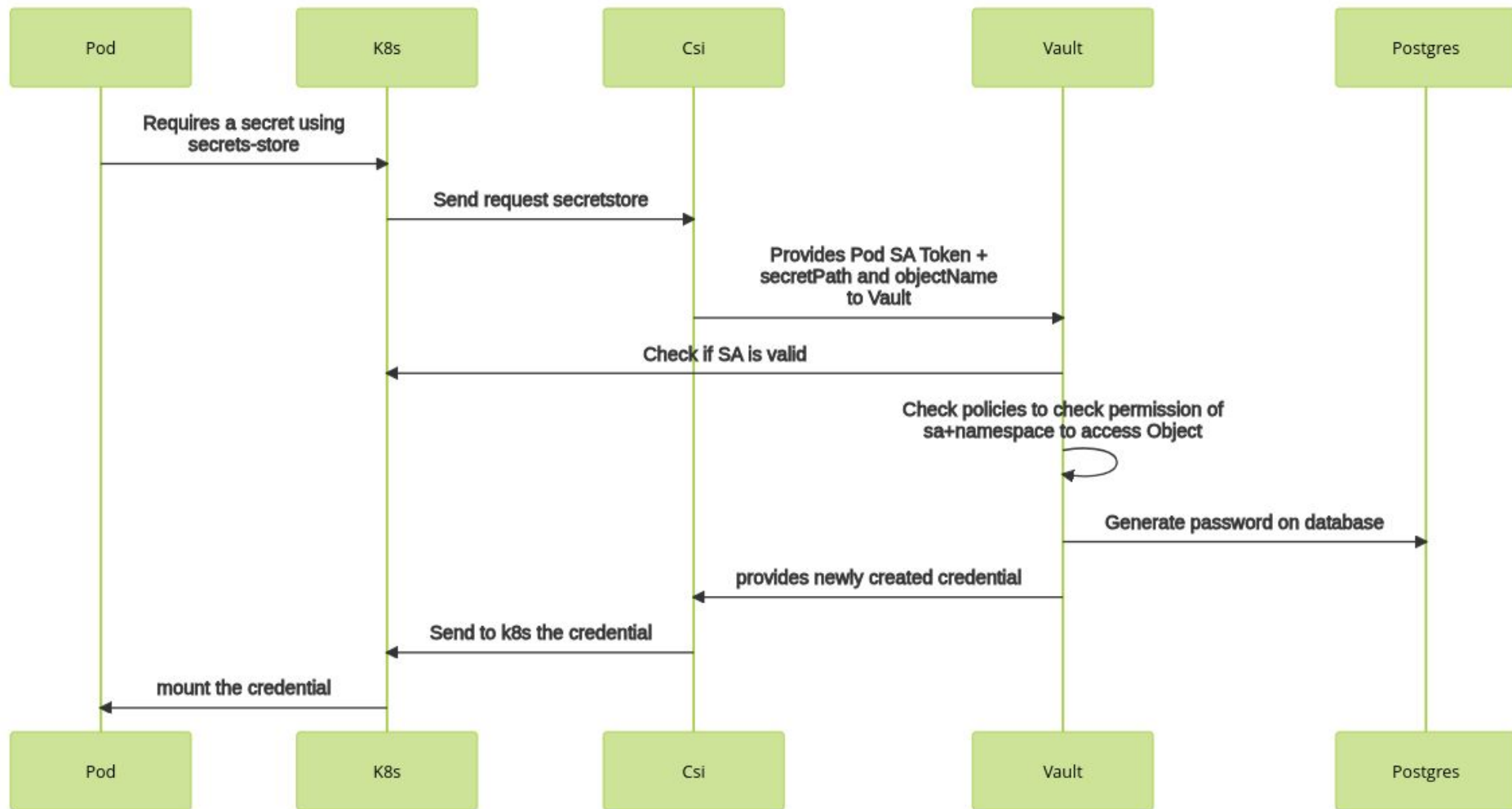


Vault - Database



Vault - K8S





George Tavares

- Desenvolvedor na Noson
- Devops na arqgen
- Entusiasta de tecnologia, adoro estudar infraestrutura e devops
- Tiro certificações nas horas vagas: 4xAWS, 4xAZURE, CKA, CKS, Elastic Engineering, Elastic Observability ...
- Vencedor do 1o K8S ULC da Linuxtips



arqgen



<https://github.com/tanquetav/vault-csi-provider>

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Perguntas ?