vault-secrets-operator

vault-secrets-operator development team

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ONE

VAULTSECRETS-OPERATOR INSTALLATION

The contains details of how to install and uninstall vaultsecrets-operator

1.1 Requirements

vaultsecrets-operator runs on K8S cluster 1.16 and up. To install it you would need:

- 1. Admin access to cluster
- 2. kubectl which is configured to access your cluster and is in your execution path
- 3. GNU or *NIX Make which is in your execution path
- 4. Vault role and AWS IAM role which grants access to Vault

1.2 Install to K8S cluster

The vaultsecrets-operator docker image is located at DockerHub.

To install it to your K8S cluster:

- 1. edit deploy/operator.yaml and add your environment variables.
- 2. Install using make and kubectl:

cd deploy
make install

1.3 EnvVariables

Environment variables, which allow to configure operator:

CHAPTE	
TW	NO

FAQ

Any questions realted to vault-secrets-operator: Please fill in an issue.

4 Chapter 2. FAQ

THREE

VAULTSECRET CRD

Example:

```
apiVersion: xo.90poe.io/v1alpha1
kind: VaultSecret
metadata:
  name: example-vaultsecret
labels:
    app: example-vaultsecret-app
    owner: DevOps
spec:
  name: default-v1-test
  reread_intervals: 300 # 10 minutes
  type: kubernetes.io/dockerconfigjson
  secrets_paths:
    .dockerconfigjson: shared/nexus_dockerconfigjson
```

3.1 Spec

You will have to amend spec section according to your requirements.

Spec section:

3.2 SecretsPaths

This map contains keys and values. Keys would be used in Secrets as data keys. And values would be fetched from Vault on path, specified by values in this structure.

Full path, on which this operator is going to read secret from Vault is constructed as follows: **VAULT_SECRETS_PREFIX** / + value

NOTE: VAULT_SECRETS_PREFIX is environment variable.

Example:

```
spec:
    ....
    secrets_paths:
    SOME_DATA: shared/very_secure_password
```

In here, SOME_DATA will be put to K8S secret as data key and value for it would be fetched from \$VAULT_SECRETS_PREFIX/shared/very_secure_password in Vault.

Operator is expecting special form for secret in Vault. You must have secret shared/very_secure_password hold key value or base64_value and your secret. If value is used for key in Vault, secret will be encoded with base64 before putting into K8S Secret object. If base64_value value is used (for binary or JSON objects), then operator expects that value is already encoded in Vault and will not perform additional encodind before putting to K8S Secret object.

FOUR

VAULTCERTIFICATE CRD

Example:

```
apiVersion: xo.90poe.io/v1alpha1
kind: VaultCertificate
metadata:
  labels:
    app.kubernetes.io/name: vaultcertificate
    app.kubernetes.io/instance: vaultcertificate-sample
    app.kubernetes.io/part-of: vault-secrets-operator
    app.kubernetes.io/managed-by: kustomize
    app.kubernetes.io/created-by: vault-secrets-operator
  name: vaultcertificate-sample
spec:
  name: vcert-sec
  vault_pki_path: pki-mqtt
  key_type: rsa
  cn: test.example.com
  alt_names: ["*.example.com"]
  cert_ttl: 600
```

4.1 Spec

You will have to amend spec section according to your requirements.

Spec section:

FIVE

INDICES AND TABLES

- genindex
- modindex
- search