

APPLICATION CONTROLLER

Apps **Deleting** (1)

1.1
DELETE
Deployment

1.2.
DELETE External
secret if exists

1.3
IF (database is
enabled) THEN
{-> DELETE:
+ Statefulset
(Postgres Cluster)
+ Service
+ Secret
+ Configmap}

Apps **Adding** (2)

2.1
IF (database is enabled)
THEN
{-> ADD
+ Configmap
+ Secret
+ Service
+ Statefulset (Postgres
Cluster)}

2.2
IF (external secret URL is
given and valid) THEN
{CREATE external secret}

2.3
->ADD:
Deployment

+ IF (external secret was
created in 2.2) THEN
{mount that external
secret to Deployment's
pods volume}

+ IF (database is enabled)
THEN {Inject database's
existing Configmap and
Secret to deployment's
containers Env}

Apps **Updating** (3)

3.1 Check Database

3.1.1 Disabled

IF (before update
was enabled)
THEN
{-> DELETE like
step 1.3}
ELSE
{do nothing}

3.1.2 Enabled

IF (before update
was disabled)
THEN {DO ADD
like step 2.1}
ELSE
{UPDATE if there
are changes in
+ Cluster size
scale up/down
+ Configmap
+ Secret}

3.2 Check External Secret

3.2.1.
IF (external secret URL is
unchanged and Reload =
False)
THEN {
IF (there is no external
secret on k8s) THEN {DO
like step 2.2}
}
ELSE
{
IF (external secret URL is
valid) THEN {Update it}
ELSE
{Notify user about the
invalidity/inaccessibility of
updated external secret}
}

3.3 Check Deployment

3.3.1 NOT Exist

{DO
ADD like
2.3}

3.3.2 Exist

+ IF (deployment's spec is
inconsistent with application's
template) THEN {Reconcile}

+ IF (external secret is existing)
THEN {Mount that external
secret to Deployment's pods
volume}

+ IF (database is enabled)
THEN
{Inject existing Configmap and
Secret to deployment's
containers Env}
ELSE
{Remove Configmap and
Secret out of deployment's
containers Env}