Spinnaker-Upgrade

29 January 2021   10:15

Verify all pods are running

```
Every 2.0s: kubectl get pods -n spinnaker

NAME                                 READY   STATUS    RESTARTS   AGE
minio-6c5ff5fbb8-m8r4m               1/1     Running   0          91m
spin-clouddriver-7c765f57b4-nrvjs    1/1     Running   0          4m12s
spin-deck-77b49c4c5c-ngvlc           1/1     Running   0          4m12s
spin-echo-d855d47d4-k676s            1/1     Running   0          4m12s
spin-front50-6ff8475f96-qr5ks        1/1     Running   0          4m11s
spin-gate-7f56b798f9-zj46f           1/1     Running   0          4m12s
spin-orca-66646dcc5b-5rbsh           1/1     Running   0          4m12s
spin-redis-5f79bc67c8-sd86h          1/1     Running   0          43m
spin-rosco-d7f9794bd-89n7l           1/1     Running   0          4m11s
```
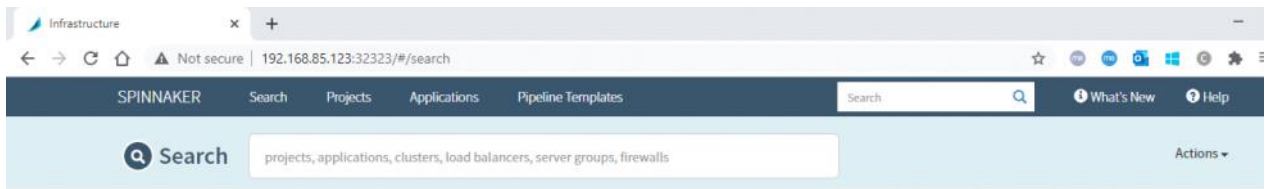
Connect to UI: http://192.168.85.123:32323 and check web page is working or not
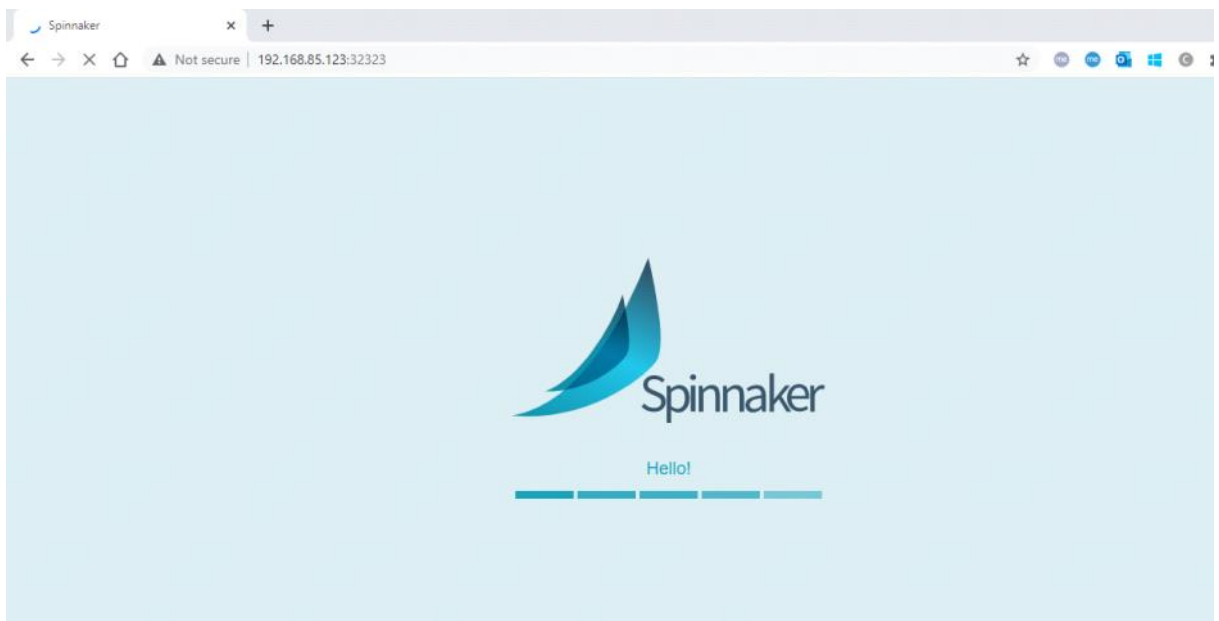
Browse various tabs in Spinnaker page

Check Application tab , it will shows all applications which are already deployed in K8S cluster

Click on Help on extreme right side and notice version. Installed version is 1.19.14
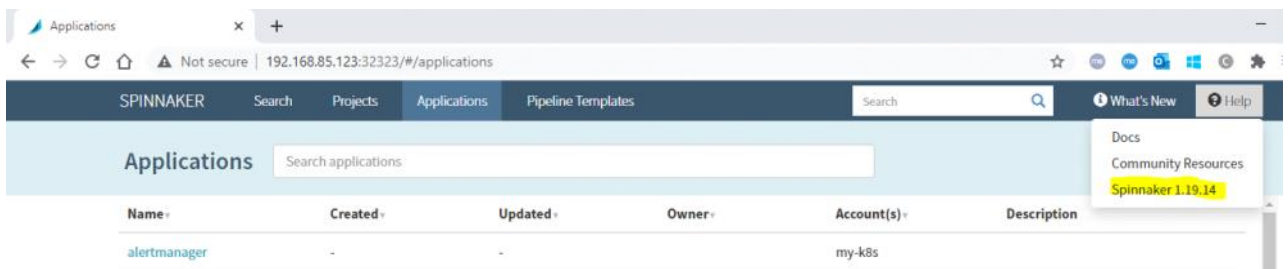
Now we will upgrade version to latest i.e. **1.23.5.** Firstly check version list to view latest version

hal version list

```
bash-5.0$ hal version list
+ Get current deployment
  Success
+ Get Spinnaker version
  Success
+ Get released versions
  Success
+ You are on version "1.19.14", and the following are
  available:
 - 1.19.14 (Gilmore Girls A Year in the Life):
   Changelog: https://gist.github.com/spinnaker-release/cc4410d674679c5765246a40f28e3cad
   Published: Thu Aug 13 23:44:46 GMT 2020
   (Requires Halyard >= 1.32)
 - 1.20.7 (Drive to Survive):
   Changelog: https://gist.github.com/spinnaker-release/75d50c7b931f1089e710a0e9d1acf8c4
   Published: Wed Jul 22 22:22:44 GMT 2020
   (Requires Halyard >= 1.32)
 - 1.21.5 (Dark):
   Changelog: https://gist.github.com/spinnaker-release/98c3bab183b507662a8f5524e54626d4
   Published: Mon Dec 07 23:09:05 GMT 2020
   (Requires Halyard >= 1.32)
 - 1.22.4 (Anne):
   Changelog: https://gist.github.com/spinnaker-release/e457272b5aac37a5c6512b80b0c53d5f
   Published: Tue Dec 08 14:56:16 GMT 2020
   (Requires Halyard >= 1.32)
 - 1.23.5 (Hemlock Grove):
   Changelog: https://gist.github.com/spinnaker-release/94280a2b615adccd975eed73359023ac
```

Edit configuration to set new version of spinnaker

hal config version edit --version 1.23.5

```
bash-5.0$ hal config version edit --version 1.23.5
+ Get current deployment
  Success
+ Edit Spinnaker version
  Success
+ Spinnaker has been configured to update/install version "1.23.5".
  Deploy this version of Spinnaker with `hal deploy apply`.
```

After configuration change, we need to redeploy spinnaker

You can still access dashboard. This is advantage of distributed environment that there is no downtime. Firstly it will create new pods and then terminate old pods.

#hal deploy apply

```
bash-5.0$ hal apply deploy
Expected a command, got apply
bash-5.0$
bash-5.0$
bash-5.0$ hal deploy apply
+ Get current deployment
  Success
+ Prep deployment
  Success
Validation in default.features:
- WARNING Field Features.artifacts not supported for Spinnaker
  version 1.23.5: Artifacts are now enabled by default.
? You no longer need this.

Validation in default.stats:
- INFO Stats are currently ENABLED. Usage statistics are being
  collected. Thank you! These stats inform improvements to the product, and that
  helps the community. To disable, run `hal config stats disable`. To learn more
  about what and how stats data is used, please see
  https://www.spinnaker.io/community/stats.

+ Preparation complete... deploying Spinnaker
+ Get current deployment
  Success
+ Apply deployment
  Success
+ Deploy spin-redis
  Success
```

Notice container creation through watch command. It is creating new container and old container are still running.

kubectl get pods -n spinnaker

```
Every 2.0s: kubectl get pods -n spinnaker

NAME                                   READY   STATUS             RESTARTS   AGE
minio-6c5ff5fbb8-m8r4m                 1/1     Running            0          100m
spin-clouddriver-685d6d6ccd-ghdpk      0/1     ContainerCreating  0          49s
spin-clouddriver-7c765f57b4-nrvjs      1/1     Running            0          13m
spin-deck-77b49c4c5c-ngvlc             1/1     Running            0          13m
spin-deck-c58bcf565-2t9tc              0/1     ContainerCreating  0          49s
spin-echo-5765899686-bvt5l             0/1     ContainerCreating  0          49s
spin-echo-d855d47d4-k676s              1/1     Running            0          13m
spin-front50-5f56588777-t89km          0/1     ContainerCreating  0          48s
spin-front50-6ff8475f96-qr5ks          1/1     Running            0          13m
spin-gate-7f56b798f9-zj46f             1/1     Running            0          13m
spin-gate-bfcbc687f-lffdx              0/1     ContainerCreating  0          49s
spin-orca-66646dcc5b-5rbsh             1/1     Running            0          13m
spin-orca-bfdcfd567-lm2hr              0/1     ContainerCreating  0          48s
spin-redis-5f79bc67c8-sd86h            1/1     Running            0          53m
spin-rosco-c75bb7895-jhkk6             0/1     ContainerCreating  0          48s
spin-rosco-d7f9794bd-89n7l             1/1     Running            0          13m
```

Access Web UI and verify version again by clicking help button on right side. It must is changed to latest