

oss applications integration to ingress -- version 1.2

Prerequisites

The installation assumes the following:

- There is a pre-existing Kubernetes (K8s) cluster with an ingress controller configured
- The cluster is managed by GKE
- There is a kubeconfig file available with adequate permissions on the K8s cluster to:
Manage namespaces
- Helm 3 is available and configured to use the kubeconfig.

Tree Structure

```
oss-hogke
├── gke-lumos
│   ├── Chart.yaml
│   ├── templates
│   │   ├── _helpers.tpl
│   │   ├── ingress.yaml
│   │   └── NOTES.txt
│   └── values.yaml
```

`oss-hogke` is the parent directory. There is a chart named `gke-lumos` is used for managing ingress rules.

Maintenance

If you need to add an ingress rule applying `demo2`, update the following files in turn:

1.values.yaml

Copy the following part as another parameter.

Before Updating:

```
ingress:
  enabled: true
  host: gke.lumos.hyperoptic.com
  apps:
    - name: oss-od-web-rc
      port: 8080
      annotations:
        - rewritePath: rewrite /oss/bc/od_web/appInfo/status(.*)$
          /opb/appInfo/status$1 break;
        - rewritePath: rewrite /oss/static/oss_core/od(.*)$ /oss_core/od$1 break;
        - rewritePath: rewrite /oss/oss_core/od(.*)$ /oss_core/od$1 break;
      path:
        - externalPath: /oss/bc/od_web/appInfo/status
        - externalPath: /oss/static/oss_core/od
```

```
- externalPath: /oss/oss_core/od
pathType: Prefix
```

After Updating:

```
ingress:
  enabled: true
  host: gke.1umos.hyperoptic.com
  apps:
    - name: oss-od-web-rc
      port: 8080
      annotations:
        - rewritePath: rewrite /oss/bc/od_web/appInfo/status(.*)$
          /opb/appInfo/status$1 break;
        - rewritePath: rewrite /oss/static/oss_core/od(.*)$ /oss_core/od$1 break;
        - rewritePath: rewrite /oss/oss_core/od(.*)$ /oss_core/od$1 break;
      path:
        - externalPath: /oss/bc/od_web/appInfo/status
        - externalPath: /oss/static/oss_core/od
        - externalPath: /oss/oss_core/od
      pathType: Prefix
    - name: demo2
      port: 8080
      annotations:
        - rewritePath: rewrite /aaa/bbb/ccc(.*)$ /AAA/BBB/CCC$1 break;
        - rewritePath: rewrite /ddd/eee/fff(.*)$ /DDD/EEE/FFF$1 break;
        - rewritePath: rewrite /ggg/hhh/iii(.*)$ /GGG/HHH/III$1 break;
      path:
        - externalPath: /aaa/bbb/ccc
        - externalPath: /ddd/eee/fff
        - externalPath: /ggg/hhh/iii
      pathType: Prefix
```

Description for each parameter:

`ingress.enabled`: default value: `true`.

`ingress.host`: external domain host, here is `gke.1umos.hyperoptic.com`.

`ingress.apps`: Display the forwarding rules of each micro service in the form of array.

`ingress.apps.annotations`: ingress annotations, format is `- rewritePath: MappingPath(.*)$ webRoot$1`. If there are multiple rules, configure them in sequence.

Here is

```
- rewritePath: rewrite /oss/edesign(.*)$ /edesign$1
- rewritePath: rewrite /oss/bc/im_edesign/appInfo/status(.*)$
  /opb/appInfo/status$1
- rewritePath: rewrite /oss/auth(.*)$ /auth$1
```

`ingress.apps.path`: ingress path, format is `- externalPath: matchPath`. If there are multiple rules, configure them in sequence. Here is

```
- externalPath: /oss/edesign
- externalPath: /oss/bc/im_edesign/appInfo/status
- externalPath: /oss/auth
```

`ingress.pathType`: path match type, apply `Prefix` as default value.

Access Environment

1. List Release

```
helm ls -n hogke
```

2. Add Release

```
helm install gke-lumos oss-hogke/gke-lumos -n hogke
```

3. Upgrade Release

```
helm upgrade gke-lumos oss-hogke/gke-lumos -n hogke
```

4. Remove Release

```
helm uninstall gke-lumos -n hogke
```