Prerequisites

- 1 Mysql DB cluster
- 1 Kafka cluster
- 1 or more proxmox clusters
- FTC source code

Deployment

Configuration

Edit the configuration file based on your real environment

(locates under deploy/k8s/\$env/cm.yml)

```
env: ftc-prod
http:
 port: 8000
template:
  ftp base forticsp: test@10.65.10.243:images/forticsp
  ftp_base_forticsp_manager: test@10.65.10.243:images/forticspmanager
  ftp_base_fortigate: test@10.65.10.243:images/fortigate
  ftp_passwd: test
  template dir: /var/lib/vz/template/fortinet
  auto_template_id:
   start: 8000
    end: 8999
  manual_template_id:
   start: 9000
    end: 9999
  ftc-qa-1:
   api_endpoint: https://10.65.184.121:8006/api2/json
    token id: api@pve!dev
    token_secret: 2168736a-e8e2-419e-9551-6c8907f4e762
    active: true
   base cluster: true
    system user: root
    system_secret: Forti1@#
    template_nodes: blade1-1,blade1-2,blade1-3
    mgmt_bridge: vmbr1
   data_bridge: vmbr1
  ftc-qa-2:
    api_endpoint: https://10.65.184.125:8006/api2/json
    token_id: api@pve!dev
    token_secret: 1636ade1-14ee-4eca-a605-a32235ddd872
    active: true
    base_cluster: false
    system_user: root
    system secret: Forti1@#
    template_nodes: blade1-5,blade1-6,blade1-7
    mgmt_bridge: vmbr1
   data_bridge: vmbr1
proxmox_id:
  start: 3000
  end: 5999
scheduler:
  filters: CPUFilter,RamFilter,ImgFilter,LocalStoreFilter
  weighters: CPUWeighter, RAMWeighter
  ocr_cpu: 4
  ocr_mem: 1
  weight_cpu: 0.1
  weight_mem: 0.9
storage:
  pool: VM-Storage-Pool-QA
dhcp:
  url: http://10.65.184.52:5000
  username: admin
  password: Forti1@#
engine:
 retry: 7
  task_limit: 60
  window_size: 24
  task_trigger_min: 1
  collect_trigger_min: 1
media_offset: 100000
data:
   user:
     driver: mvsal
     dsn: root:123456@tcp(mysql.mysql.svc.cluster.local:3306)/ftc-qa?charset=utf8mb4&parseTime=True&loc=Local
    bootstrap: 10.65.173.23:32001,10.65.173.25:32001,10.65.173.10:32001
    topic: Cloud-Platform-FTC-OA
log:
  log_level: debug
  encoding: console
```

```
cd deploy/build && \
docker build --file "./deploy/build/Dockerfile" --tag harbor.fortihawkeye.com/ftnt/ftc:v1.0.83 --build-arg
APP_RELATIVE_PATH="./cmd/server/main.go" . && \
docker push harbor.fortihawkeye.com/ftnt/ftc:v1.0.83
```

DB Deployment

DB schema deployment

```
# Run the below script file
deploy/$env/ftc_schema.sql
```

DB basic data initialization

```
# Run the below script file
deploy/$env/ftc_image.sql
deploy/$env/ftc_network.sql
deploy/$env/ftc_host.sql
```

Application Deployment

```
cd deploy/k8s/$env
kubectl apply -f cm.yml;
kubectl apply -f namespace.yml;
kubectl apply -f ingress.yml;
kubectl apply -f service.yml;
kubectl apply -f sts.yml;
```

Upgrade

like what we do in the Deployment part,

- 1. Make some updates over the code w/o configuration as per your business changes
- 2. Compile and package and make images
- 3. Alter the schema of DB or add initialize data
- 4. Apply the change in the K8S cluster