

Question about installation and running ELIOT

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Question about installation and running ELIOT

Thanks for advice in previous meeting for our ELIOT installation. We seem to have installed ELIOT successfully. But we have not run ELIOT successfully. So let me confirm the followings.

1. We have installed ELIOT release 5 following installation guide in wiki. Could you confirm whether running pod/service is enough or not to confirm whether we installed successfully or not?
2. According to the software platform architecture in ELIOT R5 wiki, there is a Hawkbit in ELIOT Master Node. However Hawkbit seems not to be installed to our environment following installation guide. Must we install hawkbit? If so, could you provide how to install hawkbit?
3. According to the software platform architecture in ELIOT R5 wiki, there is a Prometheus and OPC-UA in ELIOT Edge Node. However Prometheus and OPC-UA seems not to be installed to our environment following installation guide. Must we install Prometheus and OPC-UA? If so, could you provide how to install Prometheus and OPC-UA?
4. We can not run hawkbit in ELIOT Edge Node with pending message. Could you provide how to run hawkbit in ELIOT Edge Node?
5. We can not run mepm-fe in ELIOT Edge Node with CrashLoopBackOff message. Could you provide how to run mepm-fe in ELIOT edge node?

Question 1 (ELIOT Master Node)

- We have installed ELIOT release 5 following installation guide in wiki. Could you confirm whether running pod/service is enough or not to confirm whether we installed successfully or not?
 - Pods/Services which are running in our ELIOT Master Node

```
root@edge-m1:~# kubectl get pod
NAME                                READY   STATUS
appstore-be-0                       1/1    Running
appstore-be-postgres-0              1/1    Running
appstore-fe-6f8b7dfb7-p81kl        1/1    Running
atp-0                                1/1    Running
atp-fe-64578dfb5d-lqb2f             1/1    Running
atp-postgres-0                      1/1    Running
developer-be-0                      1/1    Running
developer-be-postgres-0             1/1    Running
developer-fe-7d45c8496f-x6vwc       1/1    Running
grafana-5d4487fc54-tkxmk            1/1    Running
mecm-apm-b47b78475-6gtz4            1/1    Running
mecm-appo-995574b48-lpnkf           1/1    Running
mecm-fe-56dbb9dbf4-prljh            1/1    Running
mecm-inventory-7fd9cdd76f-f6bbx     1/1    Running
mecm-postgres-0                     1/1    Running
service-center-f45dc6c5b-gz6cm      1/1    Running
tool-chain-0                         2/2    Running
user-mgmt-89cfc9d98-z8stb           1/1    Running
user-mgmt-postgres-0                1/1    Running
user-mgmt-redis-0                   1/1    Running
```

```
root@edge-m1:~# kubectl get svc
NAME                                TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)
appstore-be-postgres-svc            ClusterIP      10.98.134.217   <none>           5432/TCP
appstore-be-svc                     NodePort      10.109.115.164   <none>           8099:30099/TCP
appstore-fe-svc                     NodePort      10.106.96.103   <none>           8443:30091/TCP
atp-fe-svc                           NodePort      10.99.50.199    <none>           8443:30094/TCP
atp-postgres-svc                    ClusterIP      10.105.179.51   <none>           5432/TCP
atp-svc                              ClusterIP      10.97.108.36    <none>           8073/TCP
developer-be-postgres-svc            ClusterIP      10.99.65.203    <none>           5432/TCP
developer-be-svc                     NodePort      10.108.38.28    <none>           9082:30098/TCP
developer-fe-svc                     NodePort      10.110.53.74    <none>           8443:30092/TCP
grafana                              ClusterIP      10.105.19.222   <none>           80/TCP
kubernetes                           ClusterIP      10.96.0.1        <none>           443/TCP
mecm-apm                             NodePort      10.101.157.88   <none>           8092:30202/TCP
mecm-appo                             NodePort      10.98.244.187   <none>           8091:30201/TCP
mecm-fe-svc                           NodePort      10.102.247.149   <none>           8443:30093/TCP
mecm-inventory                       NodePort      10.108.20.36     <none>           8093:30203/TCP
mecm-postgres                         ClusterIP      10.102.97.112   <none>           5432/TCP
service-center                       ClusterIP      10.98.40.213    <none>           30100/TCP
tool-chain-svc                       ClusterIP      10.102.176.57   <none>           8059/TCP
user-mgmt-postgres-svc                ClusterIP      10.97.60.84     <none>           5432/TCP
user-mgmt-redis-svc                   ClusterIP      10.100.83.234   <none>           6379/TCP
user-mgmt-svc                         NodePort      10.98.239.252   <none>           8067:30067/TCP
```

Question 1 (ELIOT Edge Node)

- We have installed ELIOT release 5 following installation guide in wiki. Could you confirm whether running pod/service is enough or not to confirm whether we installed successfully or not?

■ Pods/Services which are running in our ELIOT Edge Node

```
root@edge-m2:~# kubectl get pod
NAME                                READY   STATUS
cadvisor                            1/1     Running
eclipse-hawkbite-6f86fc5b4-tr9w7    0/1     Pending
eclipse-hawkbite-mysql-master-0    0/2     Pending
eclipse-hawkbite-rabbitmq-0        0/1     Pending
edgex-config-seed                   0/1     Completed
edgex-core-command-5df9ffcf7-b52gl  1/1     Running
edgex-core-consul-7c565974cc-mvmlw  1/1     Running
edgex-core-data-9d586d54-52xn7      1/1     Running
edgex-core-metadata-6dc6b6d896-4drzh 1/1     Running
edgex-device-virtual-7d44c96c77-c6xtb 1/1     Running
edgex-export-client-69b5bccccc-29ftj 1/1     Running
edgex-export-distro-bc889d56d-b6tzx 1/1     Running
edgex-mongo-859f9475b4-cggg6       1/1     Running
edgex-support-logging-5df5cc4d87-j4vbb 1/1     Running
edgex-support-notifications-7c58f99b79-86g5p 1/1     Running
edgex-support-rulesengine-6c646f8777-vgsxw 1/1     Running
edgex-support-scheduler-749d9d545b-174r5 1/1     Running
mecm-mepm-apprulemgr-fc6cf4c76-h5ljk 1/1     Running
mecm-mepm-k8splugin-587877c5f8-zrt8c 1/1     Running
mecm-mepm-lcmcontroller-66c5b9955c-z5cq9 1/1     Running
mecm-mepm-ospplugin-76b9b95fc4-ftsft 1/1     Running
mep-fe-6bf9b6fbd-1p5kn             1/1     Running
mepm-fe-9f9bb5d8-1k6ss              0/1     CrashLoopBackOff
mepm-postgres-0                     1/1     Running
rabbitmq-0                           1/1     Running
rabbitmq-1                           1/1     Running
rabbitmq-2                           1/1     Running
```

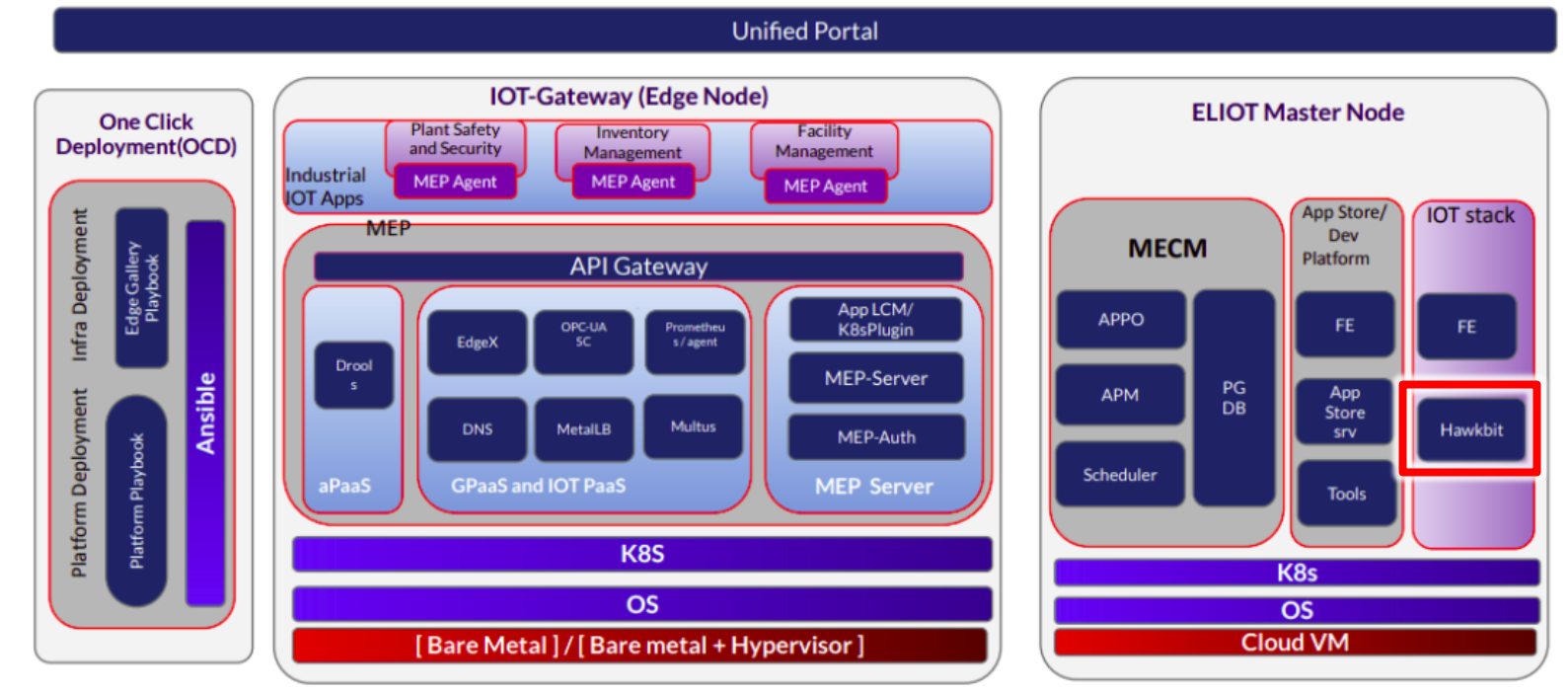
```
root@edge-m2:~# kubectl get svc
NAME                                TYPE          CLUSTER-IP
commandnodeport                     NodePort      10.109.43.106
consulnodeport                       NodePort      10.101.208.203
datanodeport                         NodePort      10.107.250.146
eclipse-hawkbite                     ClusterIP     10.99.224.245
eclipse-hawkbite-mysql                ClusterIP     10.107.145.225
eclipse-hawkbite-rabbitmq             ClusterIP     10.111.120.228
eclipse-hawkbite-rabbitmq-headless    ClusterIP     None
edgex-core-command                   ClusterIP     10.102.78.246
edgex-core-consul                     ClusterIP     10.102.221.70
edgex-core-data                       ClusterIP     10.102.47.185
edgex-core-metadata                   ClusterIP     10.102.183.191
edgex-device-virtual                  ClusterIP     10.106.225.79
edgex-export-client                   ClusterIP     10.110.49.63
edgex-export-distro                   ClusterIP     10.102.245.21
edgex-mongo                           ClusterIP     10.97.180.226
edgex-support-logging                 ClusterIP     10.96.151.126
edgex-support-notifications            ClusterIP     10.106.194.251
edgex-support-rulesengine              ClusterIP     10.100.175.111
edgex-support-scheduler                ClusterIP     10.106.191.95
kubernetes                            ClusterIP     10.96.0.1
loggingnodeport                       NodePort      10.98.129.74
mecm-mepm-apprulemgr                  NodePort      10.103.237.147
mecm-mepm-k8splugin                    NodePort      10.108.146.124
mecm-mepm-lcmcontroller                 NodePort      10.106.192.162
mecm-mepm-ospplugin                    NodePort      10.101.69.18
mep-fe                                  NodePort      10.108.29.215
mepm-fe                                 NodePort      10.103.196.27
mepm-postgres                           ClusterIP     10.109.248.193
metadatanodeport                       NodePort      10.97.51.97
rabbitmq                                 NodePort      10.100.164.155
rulesenginenodeport                    NodePort      10.109.210.15
```

Question 2

- According to the software platform architecture in ELIOT R5 wiki, there is a Hawkbit in ELIOT master node. However Hawkbit seems not to be installed to our environment following installation guide. Must we install hawkbit? If so, could you provide how to install hawkbit?

Software Platform Architecture

The below image shows the software platform distribution and architecture for Release 5.0.

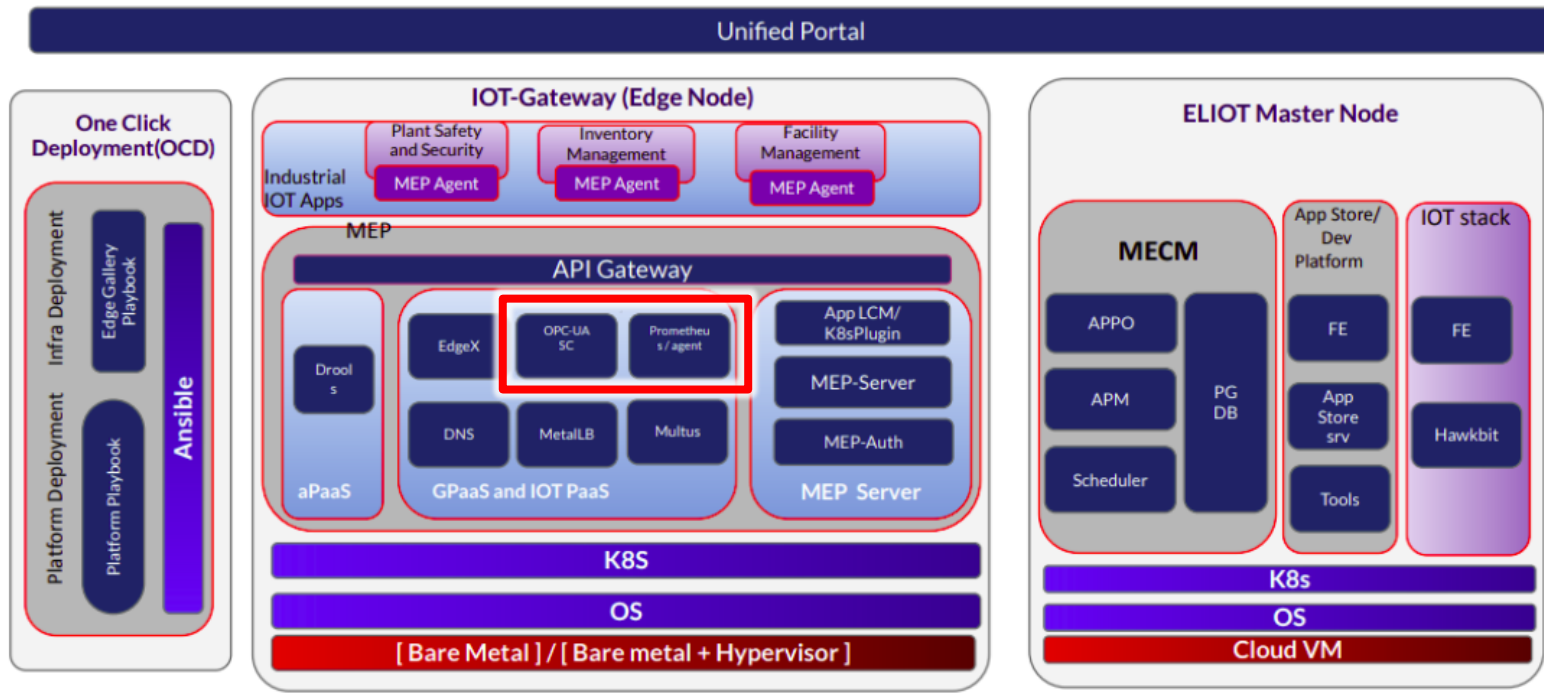


Question 3

- According to the software platform architecture in ELIOT R5 wiki, there is a Prometheus and OPC-UA in ELIOT edge node. However Prometheus and OPC-UA seems not to be installed to our environment following installation guide. Must we install Prometheus and OPC-UA? If so, could you provide how to install Prometheus and OPC-UA?

Software Platform Architecture

The below image shows the software platform distribution and architecture for Release 5.0.



Question 4

- We can not run hawkbit in ELIOT edge node with pending message. Could you provide how to run hakbit in ELIOT edge node?

■ Status

```
root@edge-m2:~# kubectl get pod|grep hawkbit
eclipse-hawkbit-6f86fc5b4-7tx7t      0/1      Pending      0          4h1m
eclipse-hawkbit-mysql-master-0     0/2      Pending      0          4h1m
eclipse-hawkbit-rabbitmq-0         0/1      Pending      0          4h1m
```

■ Kubernetes log

```
# kubectl describe pod eclipse-hawkbit-6f86fc5b4-7tx7t
Events:
  Type           Reason             Age              From              Message
  ----           -
  Warning        FailedScheduling   2m6s (x143 over 3h33m)  default-scheduler  running
"VolumeBinding" filter plugin for pod "eclipse-hawkbit-6f86fc5b4-7tx7t":
pod has unbound immediate PersistentVolumeClaims
```

Question 5

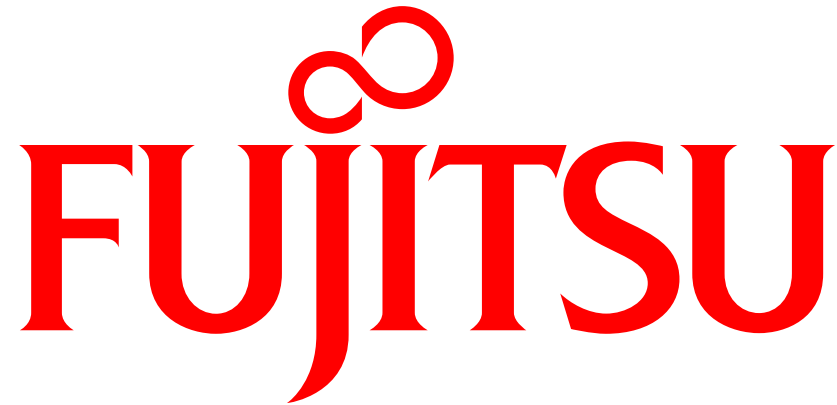
- We can not run mepm-fe in ELIOT edge node with CrashLoopBackOff message. Could you provide how to run mepm-fe in ELIOT edge node?

■ Status

```
root@edge-m2:~# kubectl get pod | grep mepm-fe-9f9bb5d8-fvz5k
mepm-fe-9f9bb5d8-fvz5k          0/1      CrashLoopBackOff   85          6h50m
```

■ Kubernetes log

```
# kubectl logs mepm-fe-9f9bb5d8-fvz5k
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2021/08/03 02:24:42 [emerg] 20#20: upstream "mep-mm5.mep" in /etc/nginx/nginx.conf:46
```

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