

MSB Test Environment Setup

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MSB can run as dockers, it's very handy to try it on your laptop.

Run MSB microservices on the same host using host network

MSB consists of multiple microservices, for testing, the easiest way is to run them on the same host by using host network.

1. Run the Consul dockers.

```
sudo docker run -d --net=host --name msb_consul consul:1.4.3
```

2. Run the MSB dockers.

Login the ONAP docker registry first: `docker login -u docker -p docker nexus3.onap.org:10001`

```
sudo docker run -d --net=host --name msb_discovery nexus3.onap.org:10001/onap/msb/msb_discovery
```

```
sudo docker run -d --net=host -e "ROUTE_LABELS=visualRange:1" --name msb_internal_apigateway nexus3.onap.org:10001/onap/msb/msb_apigateway
```

3. Explore the MSB portal.

<https://127.0.0.1/msb>

4. Register your REST service to MSB via curl

For testing, we can register the services via curl. For real use case, MSB can register the services automatically when deploying the ONAP components are deployed by OOM or Heat template.

```
export AAI_IP=10.74.148.80
export AAI_PORT=443
export MSB_IP=10.96.33.44
export MSB_PORT=80
```

```
curl -X POST -H "Content-Type: application/json" -d '{"serviceName": "aai-cloudInfrastructure", "version": "v11", "url": "/aai/v11/cloud-infrastructure", "protocol": "REST", "enable_ssl": "true", "nodes": [ {"ip": "AAI_IP", "port": "AAI_PORT"} ]}' https://$MSB_IP:$MSB_PORT/api/microservices/v1/services
```

5. Access the rest service via api gateway

```
curl --user AAI:AAI -H "X-TransactionId:123" -H "X-FromAppId:test" http://$MSB_IP:$MSB_PORT/api/aai-cloudInfrastructure/v11/cloud-regions
```

Run MSB microservices using default docker network

In case that you don't want to use host network to set up the MSB dockers, you need to export the port and specify the environment variables to let msb components know each other.

1. Run the Consul dockers.

```
sudo docker run -d -p 8500:8500 --name msb_consul consul:1.4.3
```

```
CONSUL_IP=$(sudo docker inspect -f '{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' msb_consul)
```

2. Run the MSB dockers.

Login the ONAP docker registry first: `docker login -u docker -p docker nexus3.onap.org:10001`

```
sudo docker run -d -p 10081:10081 -e CONSUL_IP=$CONSUL_IP --name msb_discovery nexus3.onap.org:10001/onap/msb/msb_discovery
```

```
DISCOVERY_IP=`sudo docker inspect -f '{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' msb_discovery`
```

```
sudo docker run -d -p 80:80 -e CONSUL_IP=$CONSUL_IP -e SDCLIENT_IP=$DISCOVERY_IP -e "ROUTE_LABELS=visualRange:1" --name  
msb_internal_apigateway nexus3.onap.org:10001/onap/msb/msb_apigateway
```

Run MSB with OOM

1. Precondition:

Have kubernetes cluster, kubectl and helm installed.

Login the ONAP docker registry first: `docker login -u docker -p docker nexus3.onap.org:10001`

2.Download oom from ONAP gerrit

```
git clone https://gerrit.onap.org/r/oom
```

3.Install MSB and Kube2MSB registrator

```
cd ~/oom/kubernetes/config
```

```
./createConfig.sh -n onap
```

```
cd ~/oom/kubernetes/oneclick/
```

```
../createAll.bash -a msb -n onap
```

```
./createAll.bash -a kube2msb -n onap
```

4.Install AAI for testing

```
./createAll.bash -a aai-n onap
```

5. Open the MSB IAG portal in the browser. You are able to see the registered AAI services.

```
https://\${Node\_IP}:30283/msb
```