Release 7 Documentation for IEC Type 5: Composable Integrated Edge Cloud (IEC) Server Blueprint FamilyR7 Test Document of IEC Type 5: Composable Integrated Edge Cloud (IEC) Server Blueprint Family

- Introduction
  - Docker installation log
  - Docker config
  - docker-swarm init
  - show
  - Docker cluster status log
  - Web portal screenshot
  - Test API description
  - Test Dashboards
  - Additional Testing
  - Bottlenecks/Errata

Introduction

N/A

Docker installation log

```
[1902926.143882] veth6f13209: renamed from eth0
[1902926.241432] docker0: port 2(veth90d2d35) entered disabled state
[1902926.277682] device veth90d2d35 left promiscuous mode
[1902926.282875] docker0: port 2(veth90d2d35) entered disabled state
[1904264.591426] docker0: port 2(vethfd791da) entered blocking state
[1904264.597576] docker0: port 2(vethfd791da) entered disabled state
[1904264.603870] device vethfd791da entered promiscuous mode
[1904264.609659] IPv6: ADDRCONF(NETDEV_UP): vethfd791da: link is not ready
[1904265.178860] eth0: renamed from vetha285947
[1904265.213756] IPv6: ADDRCONF(NETDEV_CHANGE): vethfd791da: link becomes ready
[1904265.221006] docker0: port 2(vethfd791da) entered blocking state
[1904265.227116] docker0: port 2(vethfd791da) entered forwarding state
[1904265.701099] docker0: port 2(vethfd791da) entered disabled state
[1904265.707334] vetha285947: renamed from eth0
[1904265.809211] docker0: port 2(vethfd791da) entered disabled state
[1904265.845497] device vethfd791da left promiscuous mode
[1904265.850690] docker0: port 2(vethfd791da) entered disabled state
[1905093.586259] docker0: port 2(veth5bab49b) entered blocking state
[1905093.592389] docker0: port 2(veth5bab49b) entered disabled state
[1905093.598694] device veth5bab49b entered promiscuous mode
[1905093.604509] IPv6: ADDRCONF(NETDEV_UP): veth5bab49b: link is not ready
[1905094.178399] eth0: renamed from veth0e959c3
[1905094.209270] IPv6: ADDRCONF(NETDEV_CHANGE): veth5bab49b: link becomes ready
[1905094.216504] docker0: port 2(veth5bab49b) entered blocking state
[1905094.222614] docker0: port 2(veth5bab49b) entered forwarding state
[1905094.708029] docker0: port 2(veth5bab49b) entered disabled state
[1905094.714275] veth0e959c3: renamed from eth0
[1905094.823988] docker0: port 2(veth5bab49b) entered disabled state
[1905094.860252] device veth5bab49b left promiscuous mode
[1905094.865430] docker0: port 2(veth5bab49b) entered disabled state
[1907665.272865] docker0: port 2(vethbbaa260) entered blocking state
[1907665.279008] docker0: port 2(vethbbaa260) entered disabled state
[1907665.285333] device vethbbaa260 entered promiscuous mode
[1907665.291168] IPv6: ADDRCONF(NETDEV_UP): vethbbaa260: link is not ready
```

Docker config

ExecStart=/usr/bin/dockerd -H unix:///var/run/docker.sock -H tcp://0.0.0.0:2375

docker-compose

```
cat >/etc/docker/daemon.json << EOF
{
    "data-root":"/home/docker",
    "debug":true,
     "default-address-pools":[
    {
       "base":"192.1.0.0/16",
        "size":24
     }]
}
EOF
```

docker-swarm init

docker swarm init --advertise-addr 10.3.1.16 # set Manager

```
[root@localhost ~]# docker swarm init --advertise-addr=192.168.65.129
Swarm initialized: current node (3ikery351fmsroalxu6nb3nvs) is now a manager.

To add a worker to this swarm, run the following command:

    docker swarm join --token SWMTKN-1-2fl56eq1fov04ftmzsaayrybz92mrc2c90ja5sc8ni4ur5ze54-8lta9gj7pot0s9fhhxsbca

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructions.
```

docker swarm join-token manager #join 10.3.1.16

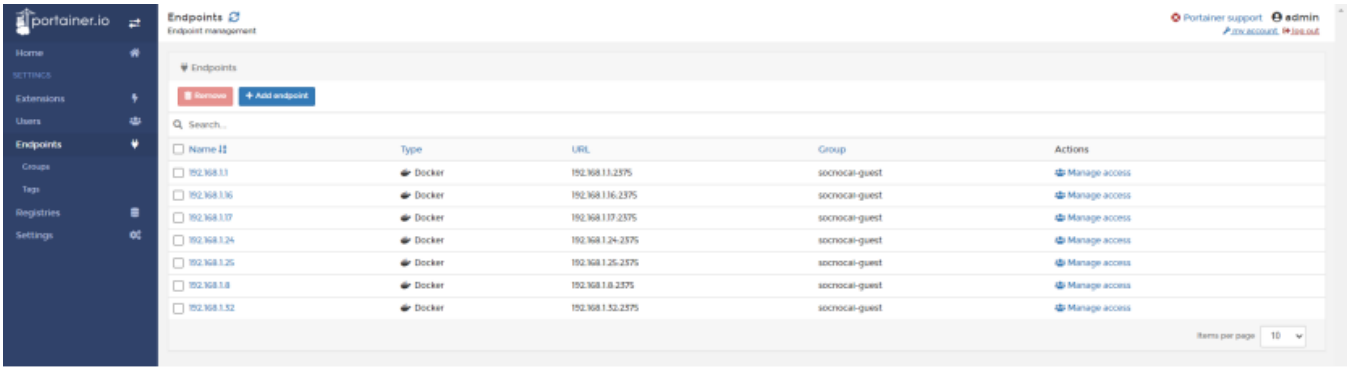
```
[root@localhost ~]# docker swarm join --token SWMTKN-1-2fl56eq1fov04ftmzsaayrybz92mrc2c90ja5sc8ni4ur5ze54-8lta9gj7pot0s9fhhxsbca032 192
This node joined a swarm as a worker.
[root@localhost ~]# docker info
Client:
 Debug Mode: false

Server:
 Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
 Images: 0
 Server Version: 19.03.14
 Storage Driver: overlay2
  Backing Filesystem: xfs
  Supports d_type: true
  Native Overlay Diff: true
 Logging Driver: json-file
 Cgroup Driver: cgroupfs
 Plugins:
  Volume: local
  Network: bridge host ipvlan macvlan null overlay
  Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
 Swarm: active
  NodeID: oq4t64imr3ur6w39xv35j6gr8
  Is Manager: false
  Node Address: 192.168.65.131
  Manager Addresses:
   192.168.65.129:2377
 Runtimes: runc
 Default Runtime: runc
 Init Binary: docker-init
 containerd version: ea765aba0d05254012b0b9e595e995c09186427f
 runc version: dc9208a3303feef5b3839f4323d9beb36df0a9dd
 init version: fec3683
 Security Options:
  seccomp
   Profile: default
 Kernel Version: 3.10.0-693.el7.x86_64
 Operating System: CentOS Linux 7 (Core)
 OSType: linux
```

show

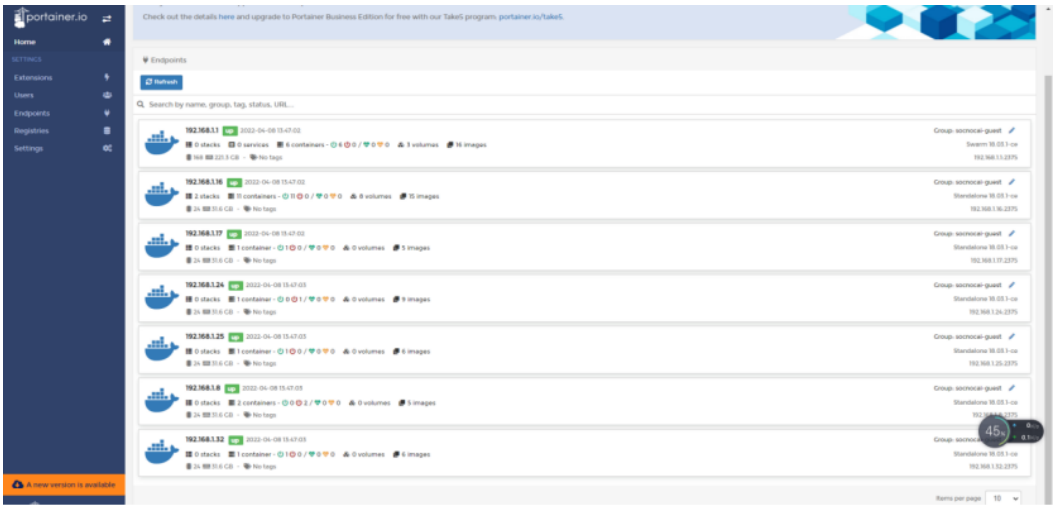
[root@master docker]# docker node ls
ID HOSTNAME STATUS AVAILABILITY MANAGER STATUS ENGINE VERSION
4olgybws3v99o0dgux9wmy7q0 * master Ready Active Leader 19.03.5
sq72fnr3fs7c9sq2q460lcti0 slave Ready Active 19.03.5

```
ID                            HOSTNAME            STATUS              AVAILABILITY        MANAGER ST
4olgybws3v99o0dgux9wmy7q0 *   master              Ready               Active              Leader
sq72fnr3fs7c9sq2q460lcti0     slave               Ready               Active
```

Docker cluster status log



Web portal screenshot



The test is to evaluate the performance of SmartNIC offloading.

Test API description

Thus we currently don't have any Test APIs provided.

Test Dashboards

n/a

Additional Testing

n/a

Bottlenecks/Errata

n/a