

# 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

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## 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
[1905093.582389] 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
[1905094.823888] 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 (3tkery351rnsroaXubnB3hvs) is now a manager.

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

    docker swarm join --token SWMTKN-1-2fl56eq1fov04ftmzsaayrybz92mrc2c90ja5sc8ni4ur5ze54-8lta9gj7pot0s9fhxsbca032 192.168.65.129

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

```
git[commit: fec3683]
[root@localhost ~]# docker swarm join --token SWMTKN-1-2fl56eq1fov04ftmzsaayrybz92mrc2c90ja5sc8ni4ur5ze54-8lta9gj7pot0s9fhxsbca032 192.168.65.129
This node joined a swarm as a worker.
[root@localhost ~]# docker info
Client:
  Debug Mode: false

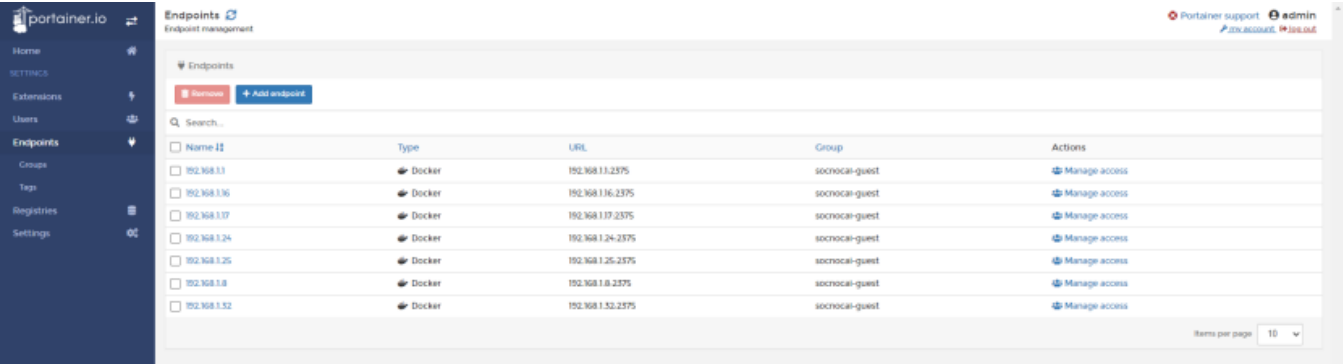
Server:
  Containers: 0
  Running: 0
  Paused: 0
  Stopped: 0
  Images: 0
  Server Version: 19.03.14
  Storage Driver: overlay2
    Backing Filesystem: xfs
    Supports d_type: true
    Native Overlay Diff: true
  Logging Driver: json-file
  Cgroup Driver: cgroupfs
  Plugins:
    Volume: local
    Network: bridge host ipvlan macvlan null overlay
    Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
  Swarm: active
    NodeID: oq4t6imr3ur6w39xv35j6gr8
    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: ea765aba9d85254012b0b9e595e995c09186427f
  runc version: dc9288a3383fee5b3839f4323d9bb36df8a9dd
  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

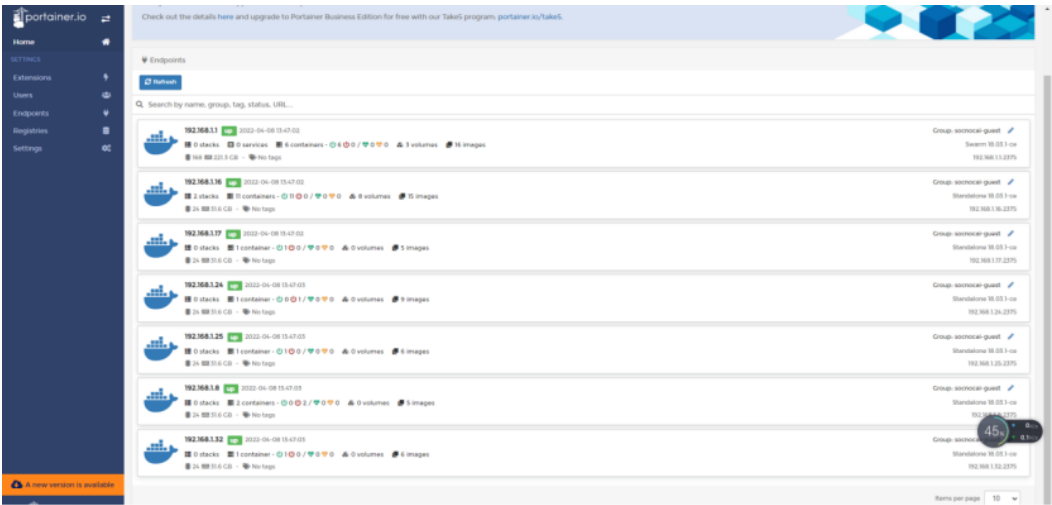
```
[root@master docker]# docker node ls
ID                HOSTNAME          STATUS      AVAILABILITY    MANAGER STATUS  ENGINE VERSION
4olgybws3v99o0dgux9wmy7q0 * master            Ready        Active           Leader           19.03.5
sq72fnr3fs7c9sq2q460lcti0 slave             Ready        Active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

ID	HOSTNAME	STATUS	AVAILABILITY	MANAGER STATUS	ENGINE VERSION
4olgybws3v99o0dgux9wmy7q0 *	master	Ready	Active	Leader	19.03.5
sq72fnr3fs7c9sq2q460lcti0	slave	Ready	Active		19.03.5

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