

## **OPE Online Server Network Setup**

- 1. Login to OPE online server.
- 2. Test your connection to the internet with either ping or wget.
  - a. Ping a site (e.g. google.com) to determine if server is connected to internet. This gives you two important pieces of information; the DNS server is working and the server is connected to the internet.

```
docker: * ping google.com
PING google.com (172.217.3.206) 56(04) bytes of data.
64 bytes from sea15s12-in-f14.1e100.net (172.217.3.206): icnp_seq=1 ttl=54 time=15.2 ns
64 bytes from sea15s12-in-f14.1e100.net (172.217.3.206): icnp_seq=2 ttl=54 time=11.1 ns
64 bytes from sea15s12-in-f14.1e100.net (172.217.3.206): icnp_seq=3 ttl=54 time=11.4 ns
64 bytes from sea15s12-in-f14.1e100.net (172.217.3.206): icnp_seq=4 ttl=54 time=11.9 ns
64 bytes from sea15s12-in-f14.1e100.net (172.217.3.206): icnp_seq=5 ttl=54 time=10.6 ns
```

b. Use wget on a site (e.g. <a href="https://google.com">https://google.com</a>) to determine if server is connected to internet.

```
docker:" # wget https://google.com
--2018-02-15 13:12:13-- https://google.com/
Resolving google.com (google.com)... 172.217.3.206, 2607:f8b0:400a:807::200e
Connecting to google.com (google.com)l172.217.3.2061:443... connected.
HTTP request sent, awaiting response... 301 Moved Pernamently
Location: https://www.google.com/ [following]
--2018-02-15 13:12:13-- https://www.google.com/
Resolving www.google.com (www.google.com)... 172.217.3.164, 2607:f0b0:400a:809::2004
Connecting to www.google.com (www.google.com)l172.217.3.1641:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: ■index.html■
```

3. Type ip addr to get server IP address.

```
o: <LOOPBACK,UP,LOUER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
link/loopback 00:00:00:00:00:00:00 brd 00:00:00:00:00:00
            inet 127.0.0.1/8 scope host lo
                   valid_lft forever preferred_lft forever
             inet6 ::1/128 scope host
       ualid_lft_forever_preferred_lft_forever

eth0: dBRONDCOST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
link/ether fa:64:1d:7c:cf:2a brd ff:ff:ff:ff:ff:
inet 192.168.10.25/24 brd 192.168.10.255 scope global eth0
    valid_lft_forever_preferred_lft_forever
inet6_fe00::f064:1dff:fe7c:cf2a/64 scope_link
    valid_lft_forever_preferred_lft_forever

tupl@BNONE::(NOORP) mtu_1480 qdisc_yoop_state_DOUN_group_default_
link/pimreg **

link/pimreg **

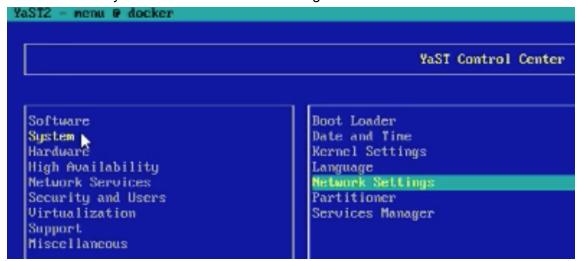
Note: Up group default to the content of the cont
 inet6 fe80::7893:f5ff:fe9f:f48b/64 scope link
inet6 fe80::7893:f5ff:fe9f:f48b/64 scope link
oalid_lft forever preferred_lft forever

816: veth5506db0@if815: <8ROnDCnST,MULTICnST,UP,LOWER_UP> wtw 1500 qdisc noqueuc master docker0 state UP group default
link/ether ae:f6:c0:43:77:9a brd ff:ff:ff:ff:ff:ff link-netnsid 4
            inet6 fe80::acf6:c0ff:fe43:779a/64 scope link
 valid_lft forever preferred_lft forever
010: veth097e79b@if017: <DROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master docker0 state UP group default
            link/ether 1a:e2:e9:40:af:ff brd ff:ff:ff:ff:ff:ff link-netusid 3
            inet6 fe80::18e2:e9ff:fe40:afff/64 scope link
                    valid_lft forever preferred_lft forever
   320: veth6235ee20if819: <8ROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue master dockerO state UP group default
            link/ether be:5f:c3:04:58:55 brd ff:ff:ff:ff:ff link-netnsid 12
 inet6 fe00::be5f:c3ff:fe04:5055/64 scope link
valid_lft forever preferred_lft forever
822: vethcd8f557@if821: <BRONDCNST,MULTICNST,UP,LOWER_UP> mtu 1500 gdisc noqueuc master docker0 state UP group default
            link/ether Za:d7:c0:89:9f:ff brd ff:ff:ff:ff:ff:ff link-nethsid 13
             inet6 fe80::28d7:c0ff:fe89:9fff/64 scope link
 valid_ift forever preferred lft forever
D24: vethbc0ede6@if023: <DROADCAST.MULTICAST.UP.LOWER_UP> mtu 1500 qdisc noqueue master docker0 state UP group default
```

4. Launch YaST to configure network.



5. In YaST select System and then Network Settings.

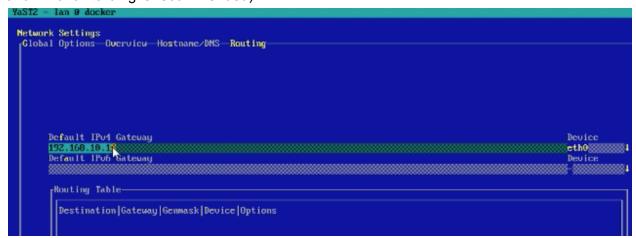


6. In Network Settings make sure the appropriate IP address is set for the server.

7. Check Hostname/DNS to make sure settings are correct. Name Server should be set to router or DNS server.

```
YaST2 - lan @ docker
Network Settings
 Global Options Overview Hostname/DMS Routing
  Mostname and Donain Name
  Hostnane
                                                             Domain Mane
  docker 🚃
                                                             cd<sup>300</sup>
  I I Change Hostname via DHCPNo interface with dhcp
  [ ] Assign Hostname to Loopback IP
 Modify DNS Configuration Custom Policy Rule
 Use Default Policy
  Mane Servers and Domain Search List
  Name Server 1
                                                               Domain Search
  192.168.10.188
                                                               ed
  Name Server 2
   Mane Server 3
```

8. Check Routing area to ensure IP address of router is correct. (**Note:** Turning on IPv4 and IPv6 forwarding is recommended)



If all settings are correct you should be able to use ping or wget successfully.