

# Hercules is not running

## LINUX HOST:

```
# ip route
default via 10.0.0.1 dev eth0
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.190
```

```
Ready. T=09:28:27 root@hercules
```

```
# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state
UNKNOWN group default qlen 1000
    link/loopback 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
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.190/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet 10.0.0.110/24 brd 10.0.0.255 scope global secondary 3:
eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast
state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d0 brd ff:ff:ff:ff:ff:ff
```

```
Ready. T=13:32:40 root@hercules
```

```
#
```

# Hercules RUNNING, z/VM not IPLed

## LINUX HOST:

```
# ip route
default via 10.0.0.1 dev eth0
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.190
```

```
Ready. T=13:40:27 root@hercules
```

```
# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state
UNKNOWN group default qlen 1000
    link/loopback 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
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.190/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d0 brd ff:ff:ff:ff:ff:ff
32: tap0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN
group default qlen 1000
    link/ether 2a:d5:2b:2a:f7:c6 brd ff:ff:ff:ff:ff:ff
```

```
Ready. T=13:40:40 root@hercules
```

```
#
```

# Hercules RUNNING, z/VM IPLed

## Hercules:

```
HHC03800I 0:EC02 QETH: Adapter mode set to Layer 3
HHC00901I 0:EC02 QETH: Interface tun1, type TUN opened
HHC03997I 0:EC02 QETH: tun1: using MAC address 02:00:5e:d9:01:76
HHC03997I 0:EC02 QETH: tun1: using IP address 10.10.0.190
HHC03997I 0:EC02 QETH: tun1: using subnet mask 255.255.255.0
HHC03997I 0:EC02 QETH: tun1: using MTU 1500
HHC03997I 0:EC02 QETH: tun1: using drive MAC address
62:6f:ec:25:3e:bf
HHC03997I 0:EC02 QETH: tun1: using drive IP address
fe80::626f:ecff:fe25:3ebf
```

## z/VM:

```
13:46:13 HCPSWU2830I VSWITCH SYSTEM VMINTRA1 status is ready.
13:46:13 HCPSWU2830I DTCVSW1 is VSWITCH controller for device
EC00.P00.
```

## LINUX:

```
# ip route
default via 10.0.0.1 dev eth0
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.190
10.10.0.0/24 dev tun1 proto kernel scope link src 10.10.0.190
```

**Ready. T=13:49:36 root@hercules**

```
# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state
UNKNOWN group default qlen 1000
    link/loopback 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
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.190/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d0 brd ff:ff:ff:ff:ff:ff
```

```
36: tun1: <POINTOPOINT,ALLMULTI,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UNKNOWN group default qlen 500
  link/none
  inet 10.10.0.190/24 scope global tun1
    valid_lft forever preferred_lft forever
  inet6 fe80::b6b5:7fed:3c70:d317/64 scope link flags 800
    valid_lft forever preferred_lft forever
```

```
Ready. T=13:49:41 root@hercules
```

```
#
```

# Hercules RUNNING, z/VM IPLed, z/OS IPL

## LINUX:

```
# ip route
default via 10.0.0.1 dev eth0
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.190
10.10.0.0/24 dev tun1 proto kernel scope link src 10.10.0.190
```

**Ready. T=13:58:45 root@hercules**

```
# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state
UNKNOWN group default qlen 1000
    link/loopback 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
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.190/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d0 brd ff:ff:ff:ff:ff:ff
35: tap0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN
group default qlen 1000
    link/ether 62:7b:e9:dc:d0:12 brd ff:ff:ff:ff:ff:ff
36: tun1: <POINTOPOINT,ALLMULTI,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UNKNOWN group default qlen 500
    link/none
    inet 10.10.0.190/24 scope global tun1
        valid_lft forever preferred_lft forever
    inet6 fe80::b6b5:7fed:3c70:d317/64 scope link flags 800
        valid_lft forever preferred_lft forever
```

**Ready. T=13:59:01 root@hercules**

# Hercules RUNNING, z/VM IPLed, z/OS IPL, TCP/IP stack started

## Hercules:

```
HHC00942I CTC: lcs device tap0 using mac 62:7B:E9:DC:D0:12
HHC03805I 0:EC02 QETH: tun1: Register guest IP address 10.10.0.192
```

## LINUX HOST:

```
# ip route
default via 10.0.0.1 dev eth0
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.190
10.0.0.192 dev tap0 scope link
10.10.0.0/24 dev tun1 proto kernel scope link src 10.10.0.190
```

**Ready. T=14:03:55 root@hercules**

```
# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state
UNKNOWN group default qlen 1000
    link/loopback 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
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.190/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d0 brd ff:ff:ff:ff:ff:ff
35: tap0: <BROADCAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UNKNOWN group default qlen 1000
    link/ether 62:7b:e9:dc:d0:12 brd ff:ff:ff:ff:ff:ff
    inet6 fe80::607b:e9ff:fedc:d012/64 scope link
        valid_lft forever preferred_lft forever
36: tun1: <POINTOPOINT,ALLMULTI,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UNKNOWN group default qlen 500
```

link/none

```
inet 10.10.0.190 peer 10.10.0.192/24 scope global tun1
```

```
    valid_lft forever preferred_lft forever
```

```
inet6 fe80::b6b5:7fed:3c70:d317/64 scope link flags 800
```

```
    valid_lft forever preferred_lft forever
```

**Ready. T=14:03:58 root@hercules**

#

# Hercules RUNNING, z/VM IPLed, z/OS IPL, TCP/IP stack started, LCS IP address registered on QETH / tun1

## Hercules:

```
HHC03805I 0:EC02 QETH: tun1: Register guest IP address 10.0.0.192
```

## LINUX HOST:

```
# ip route
default via 10.0.0.1 dev eth0
10.0.0.0/24 dev eth0 proto kernel scope link src 10.0.0.190
10.0.0.0/24 dev tun1 proto kernel scope link src 10.10.0.190
10.0.0.192 dev tap0 scope link
```

## Ready. T=14:10:36 root@hercules

```
# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state
UNKNOWN group default qlen 1000
    link/loopback 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
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d1 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.190/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
3: eth1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UP group default qlen 1000
    link/ether 00:e0:81:b5:14:d0 brd ff:ff:ff:ff:ff:ff
35: tap0: <BROADCAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state
UNKNOWN group default qlen 1000
    link/ether 62:7b:e9:dc:d0:12 brd ff:ff:ff:ff:ff:ff
    inet6 fe80::607b:e9ff:fedc:d012/64 scope link
        valid_lft forever preferred_lft forever
36: tun1: <POINTOPOINT,ALLMULTI,UP,LOWER_UP> mtu 1500 qdisc
pfifo_fast state UNKNOWN group default qlen 500
```



link/none

```
inet 10.10.0.190 peer 10.0.0.192/24 scope global tun1
```

```
    valid_lft forever preferred_lft forever
```

```
inet6 fe80::b6b5:7fed:3c70:d317/64 scope link flags 800
```

```
    valid_lft forever preferred_lft forever
```

**Ready. T=14:10:42 root@hercules**

#