Setting Up a Basic Linux Network Namespace on One Host

Introduction

This is a demonstration of how to create two namespaces, assign IP addresses, and perform a ping test between them on a single Linux host.

You can follow my GitHub repository, BuildNetWorkToCloud, to see examples of automated network creation using open-source tools



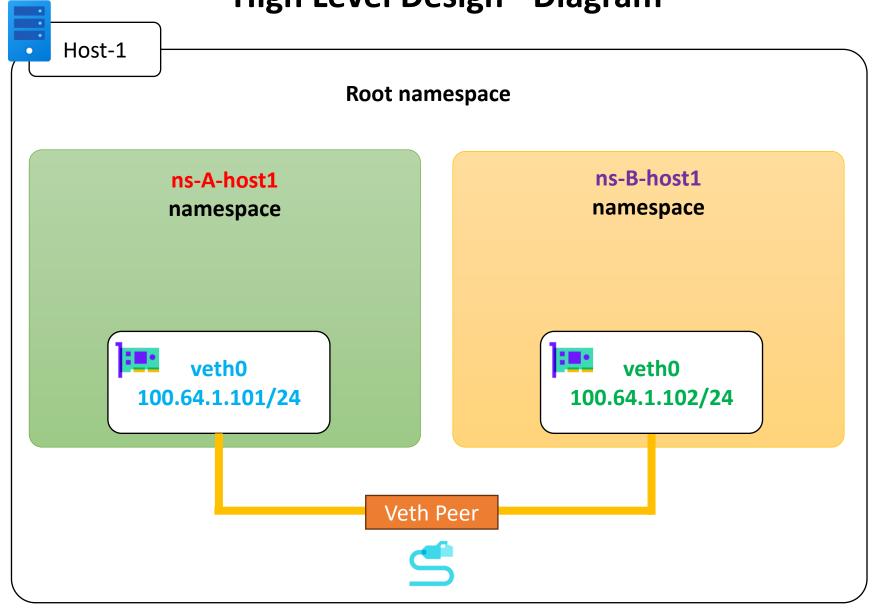
https://github.com/zenithsoul

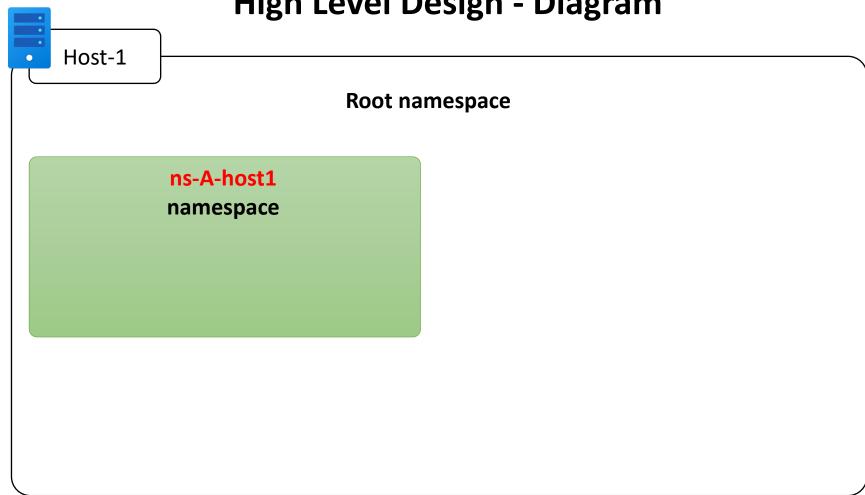
Requirement

```
1) -----
a Linux Host
```

```
2) -----
Ubuntu / Debian: iproute2
CentOS / RHEL / Fedora: iproute
```

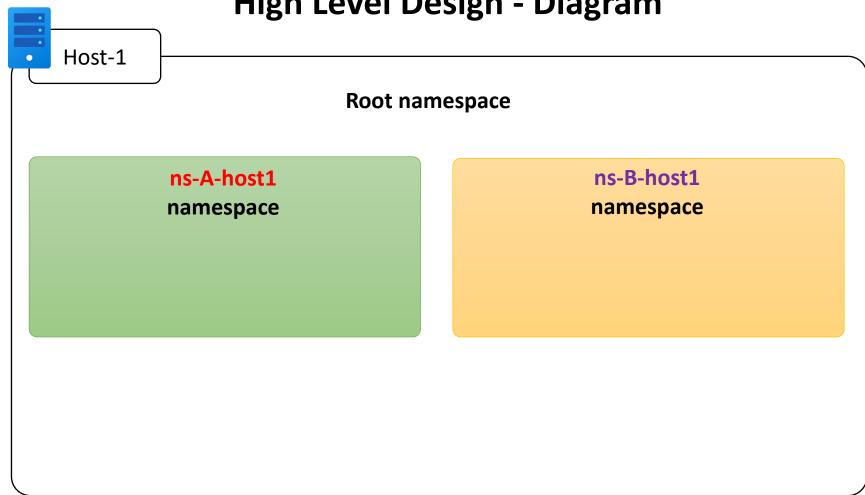
```
3) -----
Run with <u>root account</u> (sudo)
```





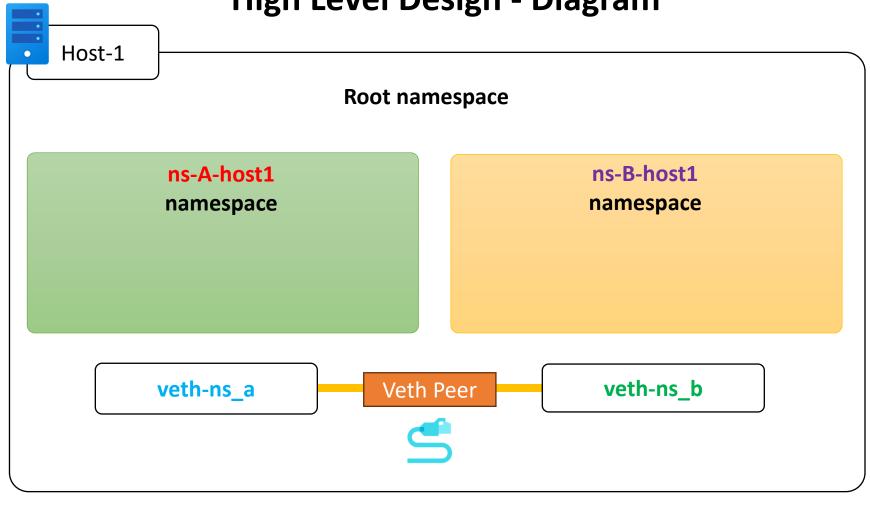
Create a namespace > ns-A-host1

Host-1 # ip netns add ns-A-host1

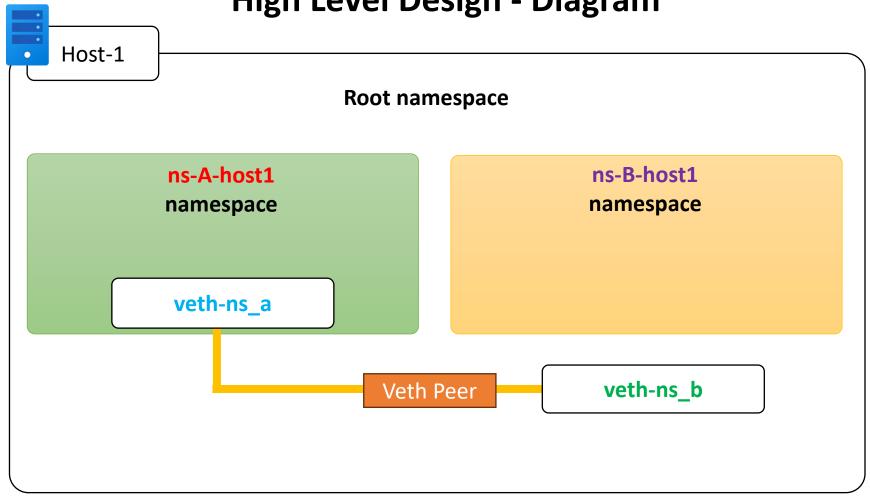


Create a namespace > ns-B-host1

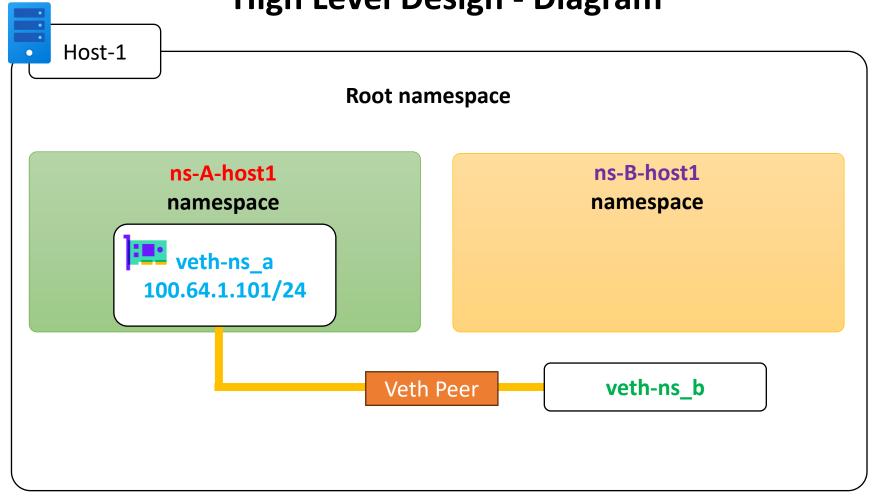
Host-1 # ip netns add ns-B-host1



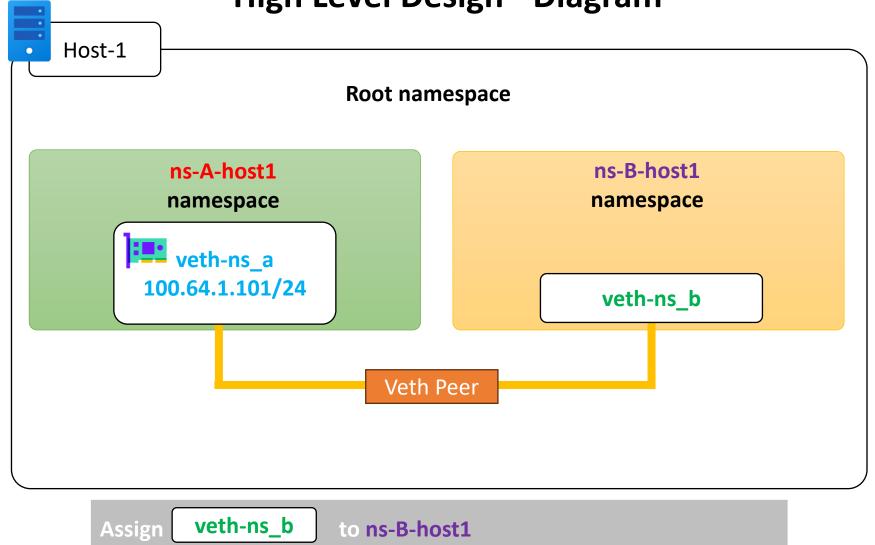








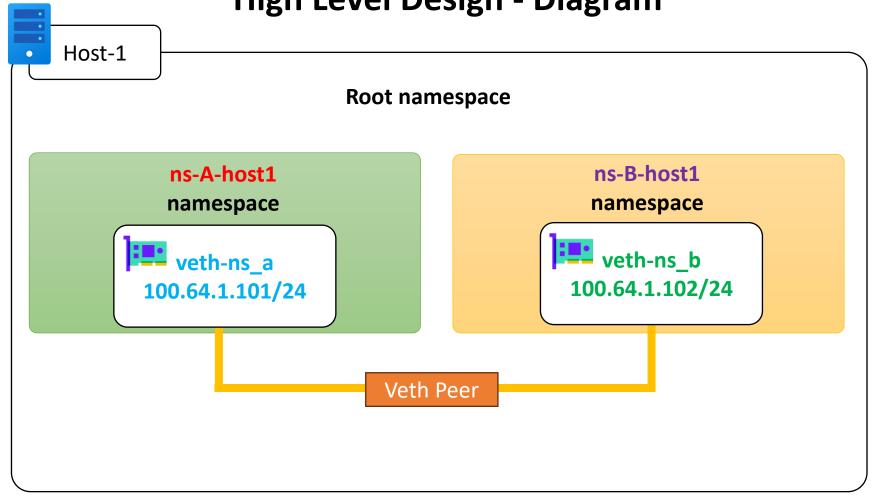




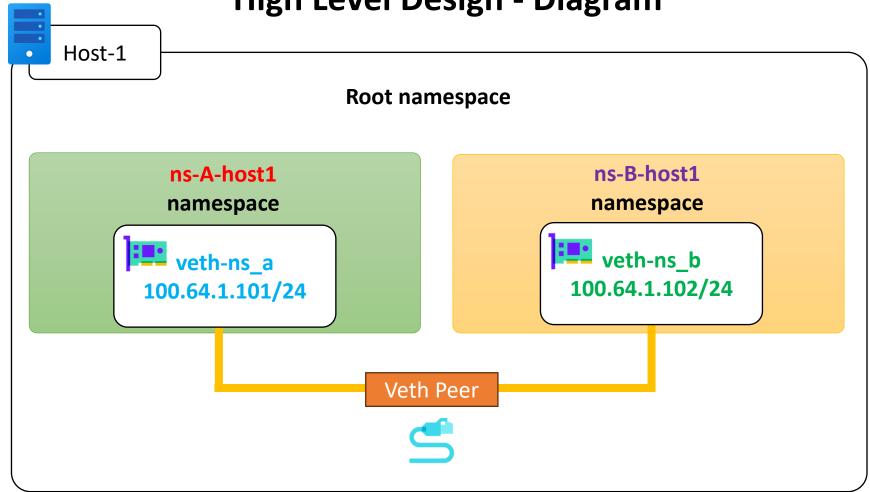
netns ns-B-host1

veth-ns_b

Host-1 # ip link set







Ping to ns-B-host1 from ns-A-host1

ip netns exec ns-A-host1 ping 100.64.1.102 -c 3

Ping to ns-A-host1 from ns-B-host1

ip netns exec ns-B-host1 ping 100.64.1.101 -c 3