Setting Up a Basic Linux Network Namespace on Two Hosts and using Tunnel Interfaces

Introduction

This is a demonstration of how to create two namespaces on two Linux hosts, assign IP addresses, set up a GRE tunnel, and perform a ping test between them.

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



https://github.com/zenithsoul

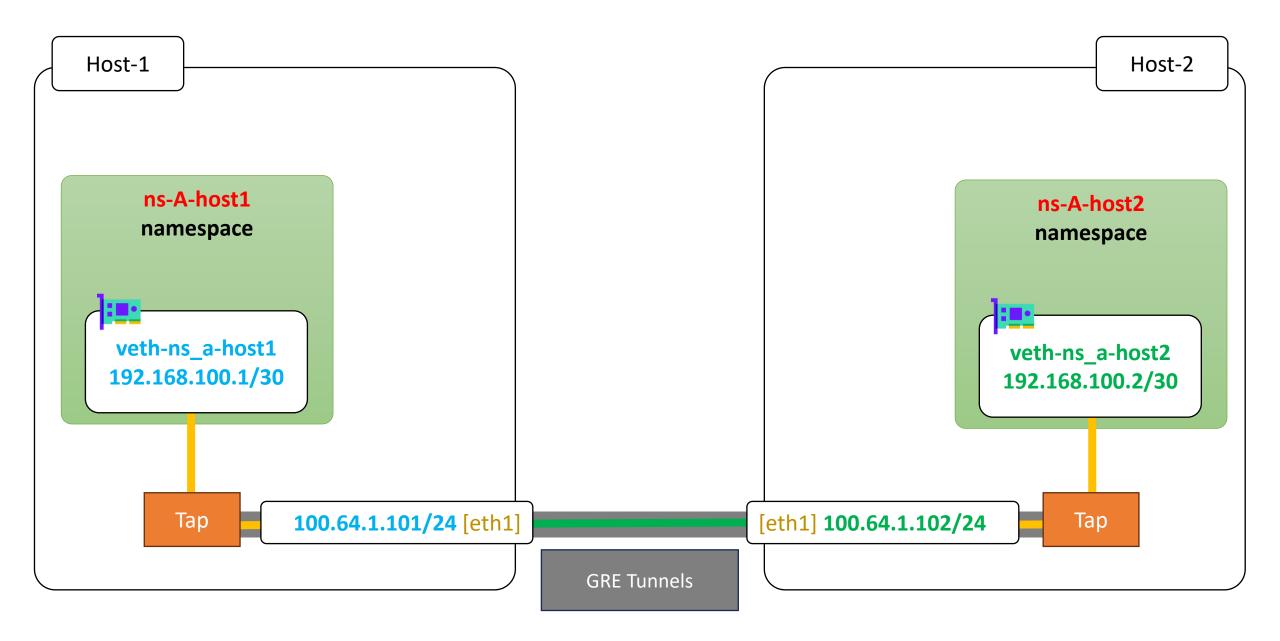
Requirement

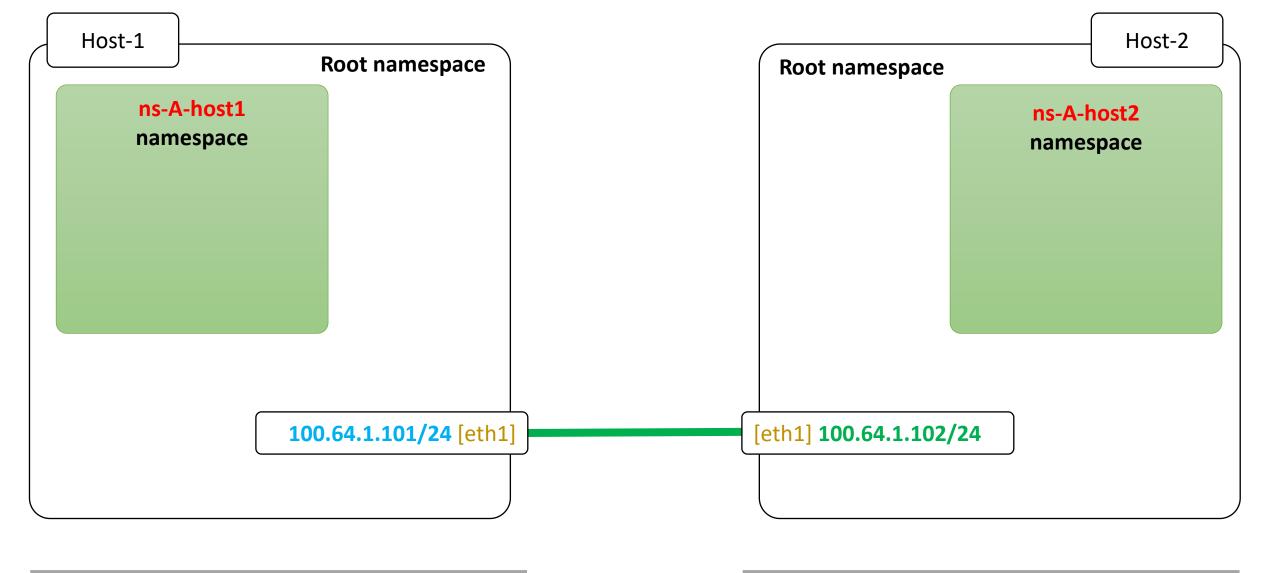
```
1) ------
2 Linux Hosts
2) ------
Ubuntu / Debian: iproute2
CentOS / RHEL / Fedora: iproute
3) ------
Run with root account
```

Set the IP addresses according to my diagram. If you want to make changes, don't forget to update the IPs in the Linux command line.

If your network interface names are different, please adjust them to fit your setup.

High Level Design - Diagram



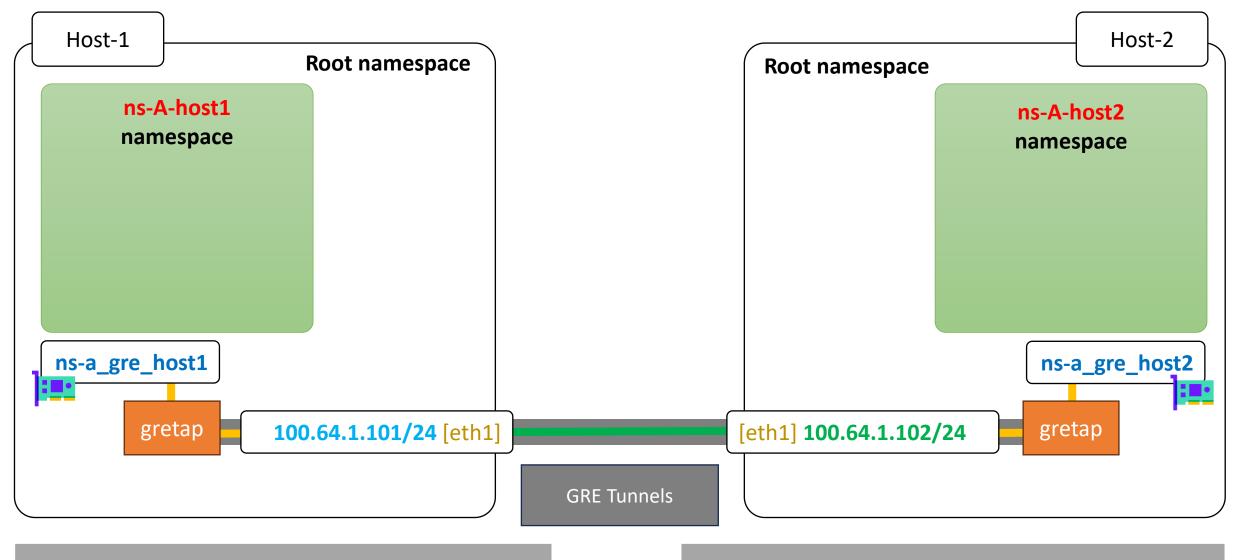


Create a namespace > ns-A-host1

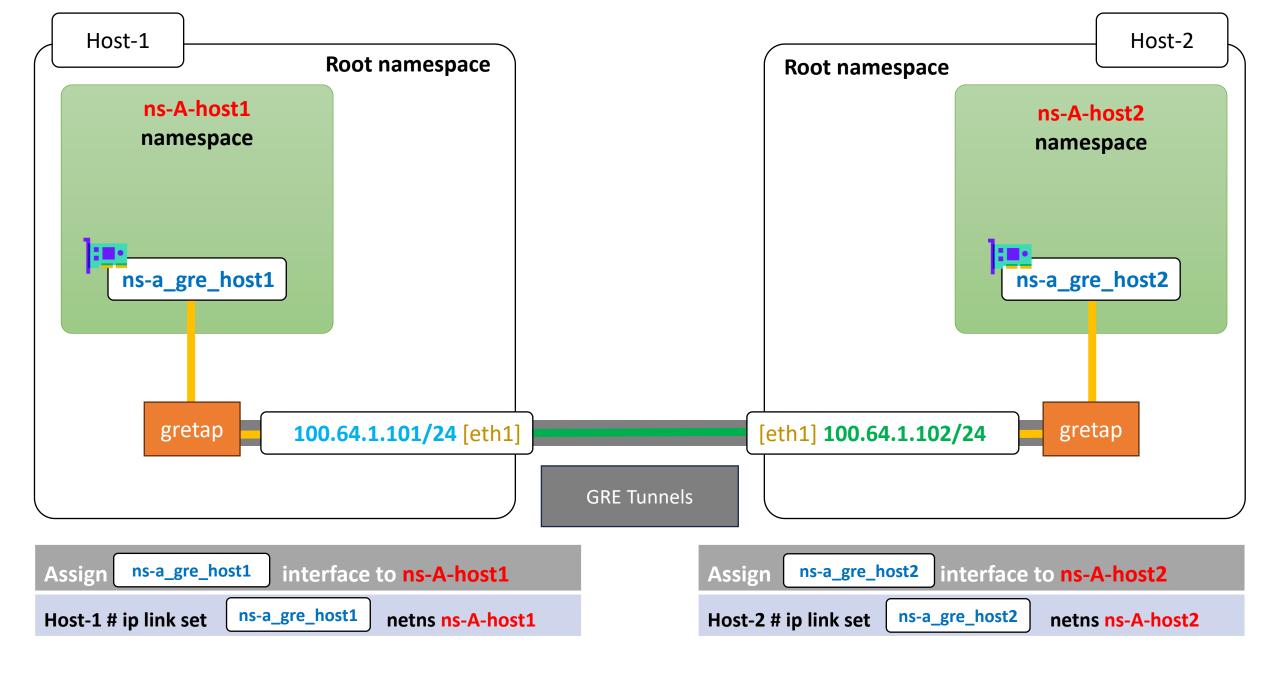
Host-1 # ip netns add ns-A-host1

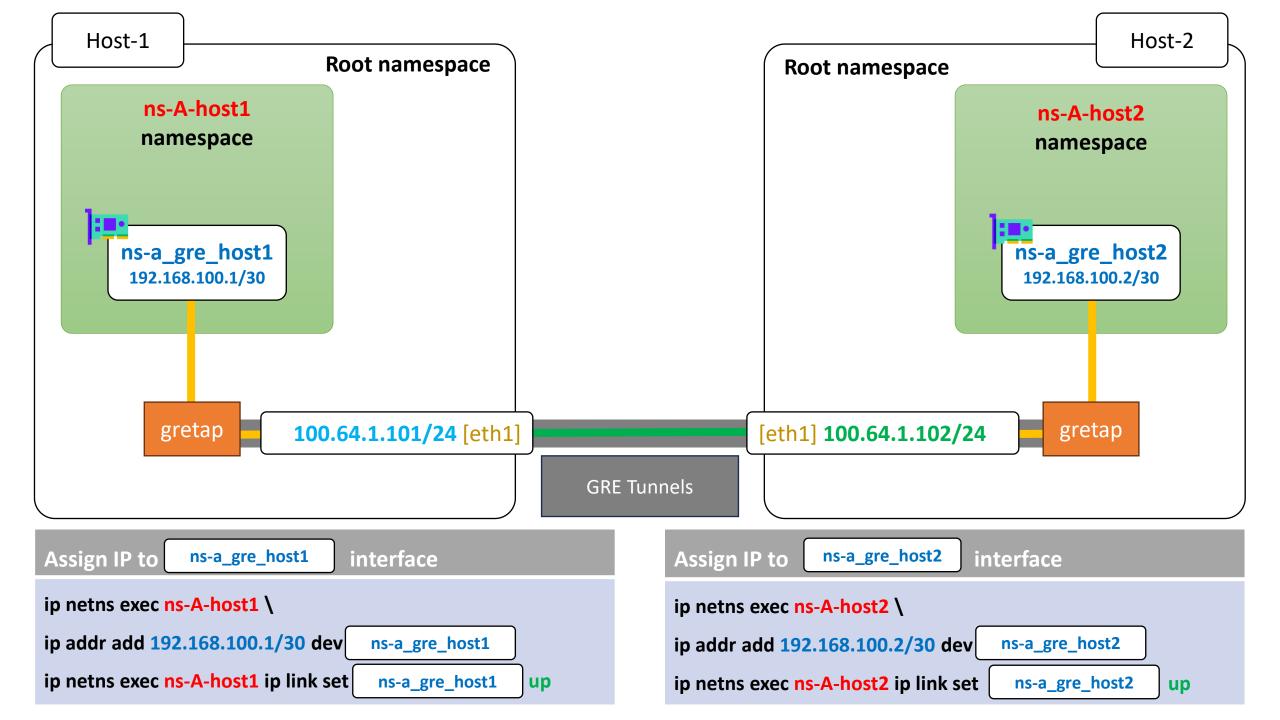
Create a namespace > ns-A-host2

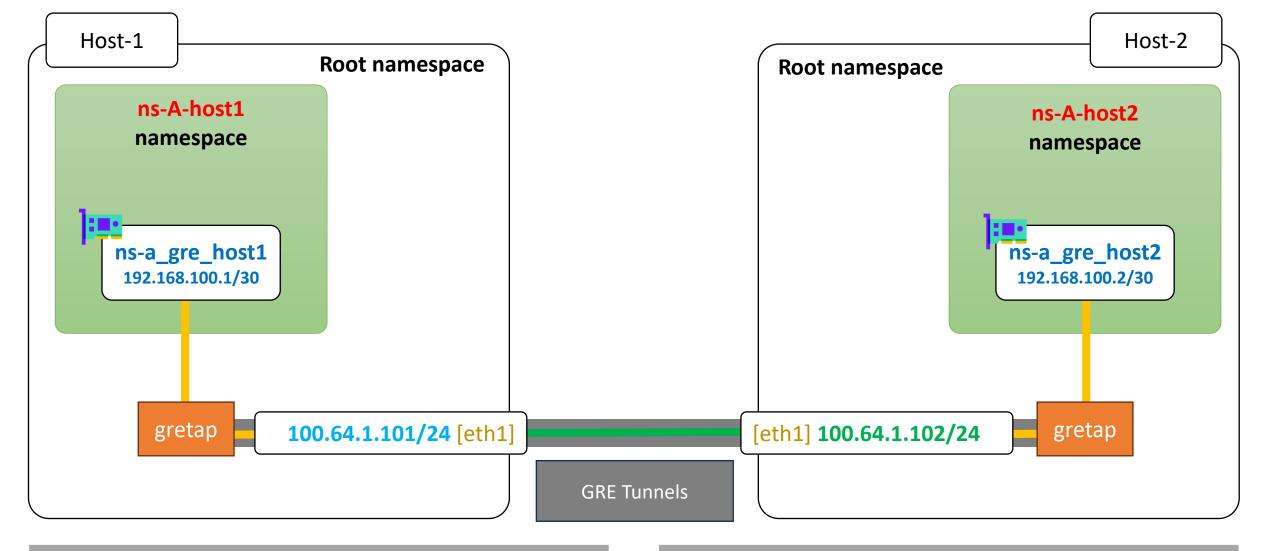
Host-2 # ip netns add ns-A-host2











Ping from ns-A-host1 > ns-A-host2

ip netns exec ns-A-host1 ping -c 4 192.168.100.2

Ping from ns-A-host2 > ns-A-host1

ip netns exec ns-A-host2 ping -c 4 192.168.100.1