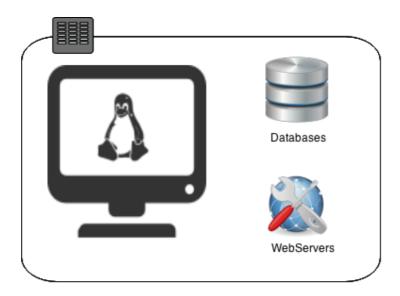# Shipmn - a simple use case!

You are a sysadmin or developer, and you wanna make some tests in databases, webservers, haproxys, etc, keeping you system "clean" without using virtualbox, vmware or docker.

System requirements:
- Kernel > 3.14
- pip
- unshare
- nsenter

Install the lasted kernel (reboot after the installation):
```
$echo 'deb http://ftp.debian.org/debian/ wheezy-backports main non-free
contrib' >> /etc/apt/sources.list
$apt-get update
$apt-get -t wheezy-backports install linux-image-amd64 linux-headers-amd64
```

Packages:
```
$apt-get install build-essential python-dev python-pkg-resources python-
setuptools  python-ipaddr curl unzip vim
$easy_install pip
$pip install ipcalc netaddr sh config
```

Download ship:
```
$wget https://github.com/bsurfer/ship/archive/master.zip
$unzip master.zip
$cd ship-master/
```

Install ship:
```
$sh install_me
```

Create one ship (use one free IP from your network):
```
$shipmn create webserver 10.10.10.10
```

Note:
By default the creation script put the termination (x.x.x.1) on gateway: ex: 10.10.10.1

Ship status:
```
$shipmn status
Status all
Ship: webserver – STOPED
```

Start webserver:
```
$shipmn start webserver
```

Enter in webserver:
```
$shipmn con webserver
```

Inside of webserver you only see the process belonging to him:
```
root@webserver:/# ps -ef
UID         PID  PPID  C STIME TTY          TIME CMD
root          1     0  0 16:39 ?        00:00:00 /bin/bash
/etc/init.d/start_chroot
root       1332     1  0 16:39 ?        00:00:00 /usr/sbin/rsyslogd -c5
root       1379     1  0 16:39 ?        00:00:00 /usr/sbin/cron
root       1408     1  0 16:39 ?        00:00:00 /usr/sbin/ntpd -p
/var/run/ntpd.pid -g -u 101:103
root       1438     1  0 16:39 ?        00:00:00 /usr/sbin/sshd
root       1463     1  0 16:39 ?        00:00:00 sleep 86400
root       1464     0  0 16:40 pts/0    00:00:00 /bin/bash -i
root       1468  1464  0 16:40 pts/0    00:00:00 ps –ef
```

Ifconfig:
```
root@webserver:/# ifconfig
lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:16 errors:0 dropped:0 overruns:0 frame:0
          TX packets:16 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:1496 (1.4 KiB)  TX bytes:1496 (1.4 KiB)

webserver Link encap:Ethernet  HWaddr a2:98:c3:6f:64:94
          inet addr:10.10.10.10  Bcast:10.10.10.255  Mask:255.255.255.0
          inet6 addr: fe80::a098:c3ff:fe6f:6494/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:78 errors:0 dropped:0 overruns:0 frame:0
          TX packets:38 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:500
          RX bytes:7280 (7.1 KiB)  TX bytes:1908 (1.8 KiB)
```