

Top 5 Linux Utilities for Network Engineers

Panos Vouzis, Co-founder



Agenda

- I. Nmap
- II. Tcpdump
- III. Netcat
- IV. iPerf
- V. Speedtest

Speaker



Panos Vouzis, Co-founder and COO



panos@netbeez.net



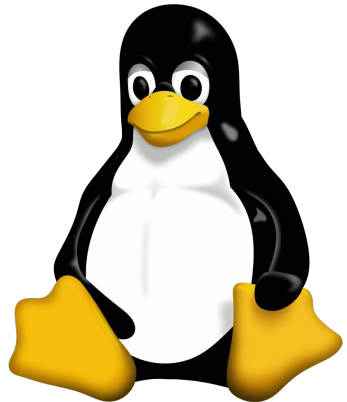
[@pvouzis](https://twitter.com/pvouzis)



[/in/pvouzis](https://www.linkedin.com/in/pvouzis)

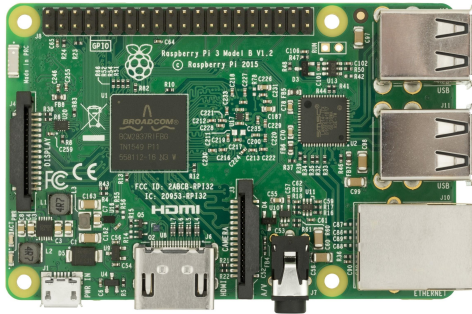
Why Learn Linux?

- Networking and application stack boundaries getting blurred
- Open Source (OpenStack Neutron)
- White-label networking hardware runs Linux (OpenWrt, CumulusVX, AristaEOS, CiscoNX)



Where to get access to Linux CLI

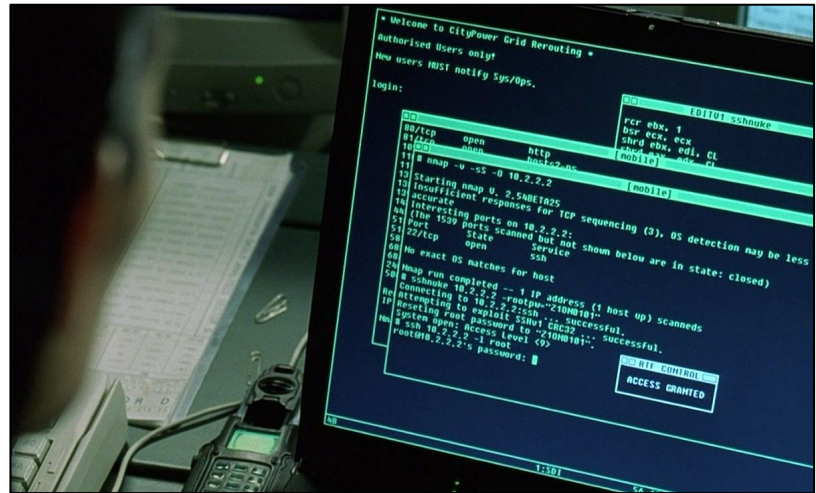
- Mac OS: Terminal
- Windows 10: Cygwin/Ubuntu Bash
- AWS/Azure/GCP Free Tiers
- Raspberry Pi/Odroid/Beaglebone/Old laptop



Nmap (Network Mapper) - 1997

- Network security scanner
 - Fun fact: Appeared in 20 movies (Matrix, Fantastic Four, Snowden)
-

Use case: host detailed scan



Tcpdump - 1988

- Print content of network packets
- Cousin of Wireshark

Use case: trace traffic to/from interface

Netcat - 2007

- Read-Write on network connections using TCP/UDP
- Fun Fact: *"If you are affiliated in any way with Microsoft Network, get a life. Always ski in control."* (From the Netcat README)

Use case: validate firewall policies

iPerf - 2003

- iPerf2 vs. iPerf3
 - iPerf3 is a rewritten version of iPerf2
 - Not compatible
- TCP/UDP traffic

Use case: “It’s not the network!”

Speedtest - 2006

- Ookla Internet speedtest.net
- 4759 geographically dispersed servers

iPerf: WAN performance \neq Speedtest: Internet performance

Use case: “It’s not the Internet!”

Questions?

netbeez.net/free



Thank you!

netbeez.net/free

