Introduction to GNU/Linux

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Red Hat

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The GNU Project & RMS

- RMS
- Free to copy, modify and redistribute
- Free software & GPL License
- Open source

Linux

- Linus Torvalds & Minix
- Kernel

Linux Distributions

- Fedora -> RHEL -> CentOS
- Debian -> Ubuntu -> Linux Mint
- Open SUSE
- Knoppix
- Gentoo
- Slackware
- Scientific Linux

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Package Manager

- Package & Package Manager
- `apt-get`, `yum`
- `dpkg`, `rpm`, `pacman`
- Manually install
    - `configure`
    - `make`
    - `make install`

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Text editors

- gedit
- nano
- vi/m
- GNU Emacs

Linux shell

- Moving around
- `ls`, `cd`, `man`
- HOME, root, /
- File operations
    - `echo`, `cat`, `grep`, `sed`
- `alias`

Networking

- `ip addr add <IP-ADDRESS/CIDR> dev <INTERFACE>`
- `ip route add default via <GATEWAY-IP> dev <INTERFACE>`
- `ip route add 10.10.10.0/24 via 192.168.1.11 dev eth0`
- Make changes persistent
  - `/etc/sysconfig/network-scripts/ifcfg-DEVICE_NAME`
  - `/etc/sysconfig/network-scripts/route-DEVICE_NAME`

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End

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