LINUX IN THE ENTERPRISE

OBJECTIVES

- Understand what Linux is
- Understand devices that Linux is built into
- Understand why we need to care about Linux in the enterprise

WHAT IS LINUX?

- Linux is an operating system
- It's used for a lot of technology, such as cars, TV's, thermostats, and particularly servers
- Linux runs most of the internet in some, size, shape or form
  - Estimated over 95% of the internet runs on Linux
- 99% of supercomputers run Linux
- Android, which powers over 2/3 of phones in the world, is Linux

A BRIEF HISTORY ON LINUX

- GNU Project started in 1983 by Richard Stallman
  - Goal was to create a “complete Unix-compatible software system” composed of free software
- 1985 Stallman started Free Software Foundation and wrote the GNU GPL
  - GNU stands for “GNU’s Not Unix” – a recursive acronym
  - GPL stands for General Public License which allows users to run, study, share and modify the software
- UNIX like operating system that started development by Linus Torvalds in 1991
  - Started to take off in the mid 90’s when it was adopted by larger corporations

TODAY

- Linux keeps evolving
- Linus Torvalds is still the primary contributor to the kernel and still completely involved
- There are 100's of distributions and variations of Linux

WHY DO WE CARE?

- Someone at least has something they own that runs Linux
- Enterprises run at least something on Linux
  - Industrial control systems
  - Web servers
  - Files servers
  - DNS
  - Big Data systems

WHAT IS LINUX GOOD AT?

- You name it – there is something that it is good at
- Just takes time to figure out and program
- Some of the pitfalls
  - You have to understand it
  - You constantly need to know how it works and keep up with the technology
  - It's a different way of thinking

CONCLUSION

- A system administrator will encounter Linux at some point in their career
- Well versed Linux administrators will always have work
- Since Linux runs quite a bit of the internet and technology, it's best to learn it even if you are not going to be a Linux admin