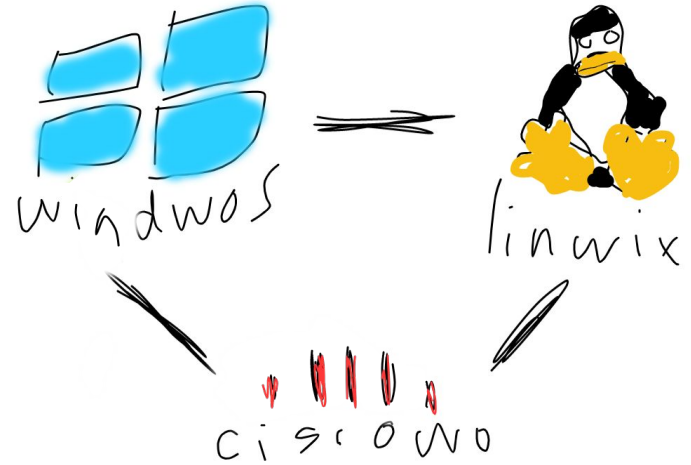




Different Cyber Pathways

The Three Systems

- ◆ Windows
- ◆ Linux
- ◆ Cisco

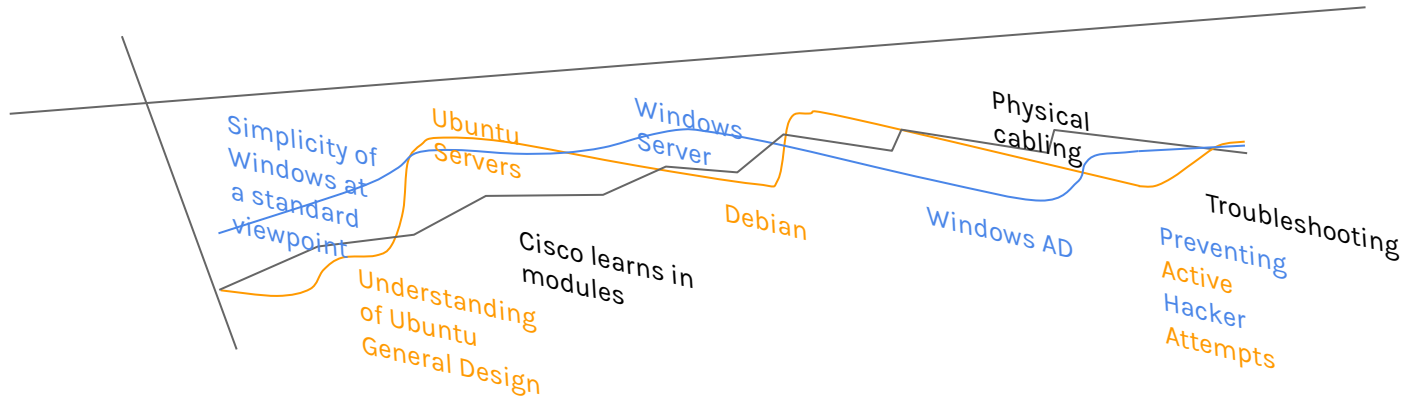


Windows is a system you all are familiar with.

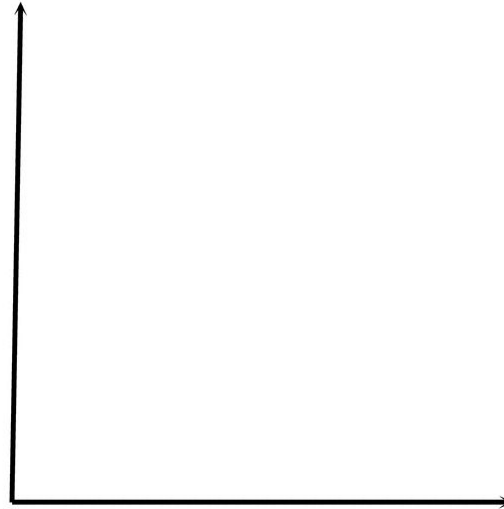
Linux is a brand new system that is fun to explore.

Cisco is all about networking, and it is probablyyyy the most useful.

Function of Knowledge to Learn over Time (y)



89 degree angle
much mad



Breakdown of Difficulty

	Easy to pick up	Easy to improve	Reasoning
Windows	✓	✗	<ul style="list-style-type: none"> • Very simple UI for beginners • AD concepts are complicated • File system and scripting is complicated
Linux	✗	✓	<ul style="list-style-type: none"> • Radically new UI for non-Linux users • Once used to, not so bad • File-based system means simpler management • Scripting e z
Cisco	⌈+⌋	😂 bruh moment 😭	<ul style="list-style-type: none"> • Depends on your comprehension of networking and willingness to learn more on your own time • Certifications are helpful towards success

1. Windows

Y'all know what this is by now

Ok real talk

- ◆ Very ubiquitous, used for pretty much all office work
- ◆ You have a higher chance to flex your skills on non cyber folks since they'll usually ask you to fix a Windows computer

True story: helping teachers with their broken computer

2. Linux

What the Sh*!l is Linux?

- ◆ “Windows but better” - every linux kid ever
- ◆ Linux is a family of operating systems, just like Windows or OSX
- ◆ Operating system is based on idea that everything is a file
- ◆ Designed to be lightweight and highly customizable
- ◆ Allows customization of nearly everything directly

Linux vs Windows

- ◆ Uses primarily command prompt (shell) to edit files
- ◆ Case-sensitive
- ◆ Everything in 1 directory
- ◆ Sudo/Root
- ◆ Uses primarily GUI and menus
- ◆ Generally case-insensitive
- ◆ File system based on physical drives
- ◆ Administrator

LINUX VS WINDOWS but simpler

LINUX:

TYPE

WINDOWS:

CLICK

Cool features of linux

- ◆ Open source (FREE)
- ◆ Versatile
 - ◆ Many flavors, run on almost all hardware
 - ◆ Used on 498/500 of the world's supercomputers
- ◆ Foundation of the web
- ◆ Secure, easily customizable
- ◆ Perfect for programmers



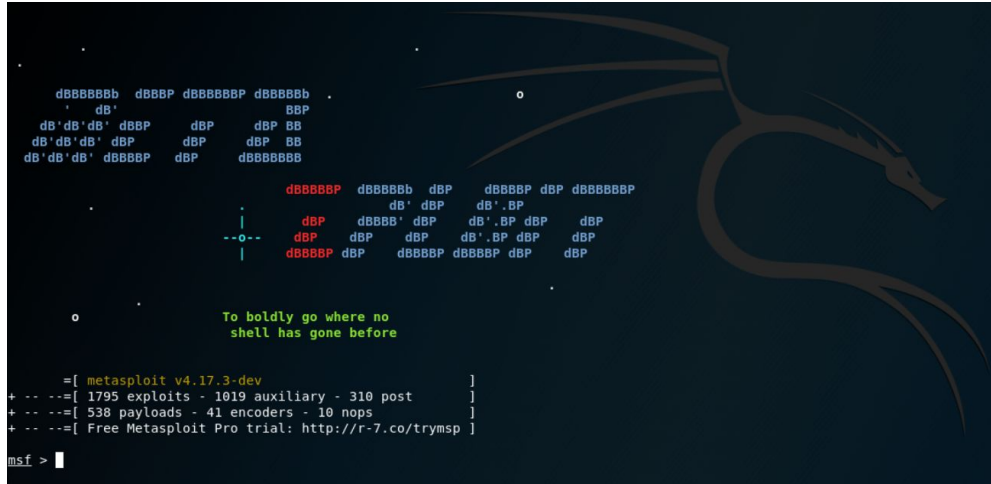
A computer is like air conditioning -
It becomes useless when you open
Windows

— *Linus Torvalds* —

AZ QUOTES

Linux terminal

- ◆ Simple, more logical syntax, and nicer formatting compared to windows cmd
- ◆ More utility

A screenshot of a Metasploit terminal window. The background is dark blue with a faint dragon logo on the right. The terminal shows the Metasploit version (v4.17.3-dev) and a list of available exploits, payloads, encoders, and nops. The prompt is 'msf >'.

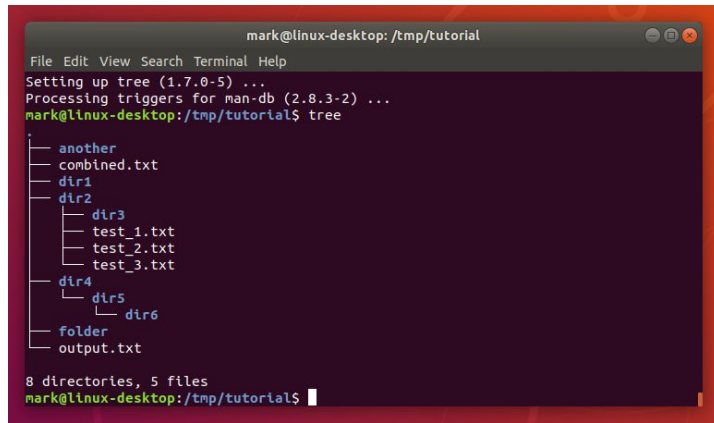
```
dbbbbbb dbbbp dbbbbbb dbbbbbb .
' db' bbbp
db'db'db' dbbbp dbbp dbbp bbbp
db'db'db' dbbp dbbp dbbp bbbp
db'db'db' dbbbbbb dbbp dbbbbbb

          dbbbbbb dbbbp dbbp dbbbbbb dbbp dbbbbbb
          db' dbbp db' bbbp dbbp dbbbbbb
          dbbp dbbbbbb dbbp db' bbbp dbbp dbbp
          --o-- dbbp dbbp dbbp db' bbbp dbbp dbbp
          | dbbbbbb dbbp dbbbbbb dbbp dbbp

To boldly go where no
shell has gone before

=[ metasploit v4.17.3-dev ]
+ -- ==[ 1795 exploits - 1019 auxiliary - 310 post ]
+ -- ==[ 538 payloads - 41 encoders - 10 nops ]
+ -- ==[ Free Metasploit Pro trial: http://r-7.co/trymsp ]

msf >
```

A screenshot of a Linux terminal window titled 'mark@linux-desktop: /tmp/tutorial'. The terminal shows the output of the 'tree' command, displaying a directory structure with 8 directories and 5 files. The prompt is 'mark@linux-desktop:/tmp/tutorial\$'.

```
mark@linux-desktop: /tmp/tutorial
File Edit View Search Terminal Help
Setting up tree (1.7.0-5) ...
Processing triggers for man-db (2.8.3-2) ...
mark@linux-desktop:/tmp/tutorial$ tree
.
├── another
├── combined.txt
├── dir1
├── dir2
│   ├── dir3
│   │   ├── test_1.txt
│   │   ├── test_2.txt
│   │   └── test_3.txt
├── dir4
│   └── dir5
│       └── dir6
├── folder
└── output.txt

8 directories, 5 files
mark@linux-desktop:/tmp/tutorial$
```

Linux terminal

- ◆ Lots of fun features (sl cmd makes a train!!)



Linux vs windows

- ◆ Pros: terminal is convenient, VERY good for CS + doing CTF exploits, linux runs most of the world's servers
- ◆ Cons: there's a slight learning curve at first, and it's not as common



3. Cisco

What is Cisco?

- ◆ It's really networking, Cisco is just a company
- ◆ The real cyber security
- ◆ Backbone of the internet

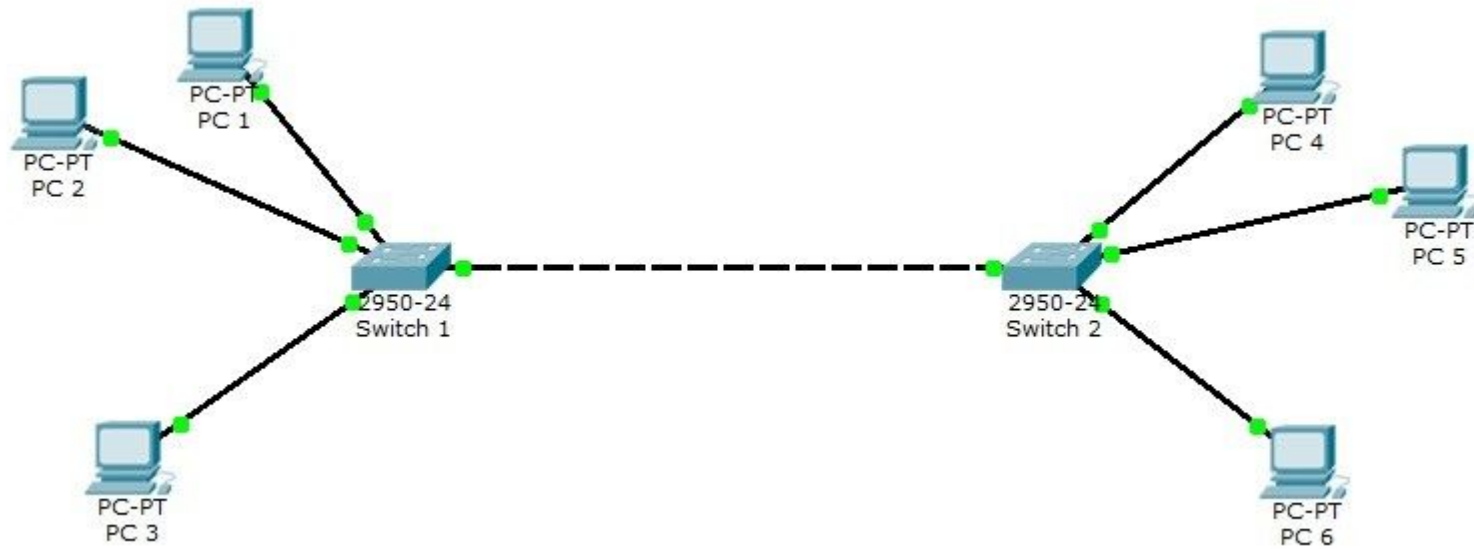
Why tho

- ◆ More comprehensive, you get to do more than just set up a computer
- ◆ You actually set up all the computers
- ◆ Have the opportunity to get certifications with a bit of extra work

Packet tracer?

- ◆ Its like linux command line but more satisfying
- ◆ Set up and troubleshoot virtual networks
- ◆ Problem solving makes your brain larger!

PT



Me: does windows

My team: no cisco

My score:



Considering switching?

Now is the best time to change to a different pathway. Choose your own adventure, and learn as much as you can!