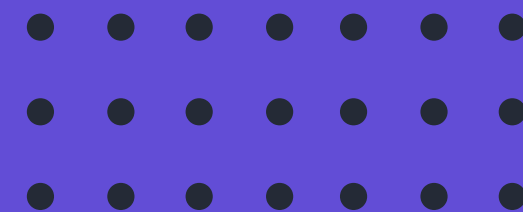


LINUX BASICS

AFRICA HACKON

MULTIMEDIA UNIVERSITY BOOTCAMP





WHO AM I ?

Peter Numi
Cyber Security Consultant

Reverse Engineering, Malware
Analysis, Open Source
Intelligence, Hardware and
Offensive Security

@th3_gr00t
th33gr00t.tk

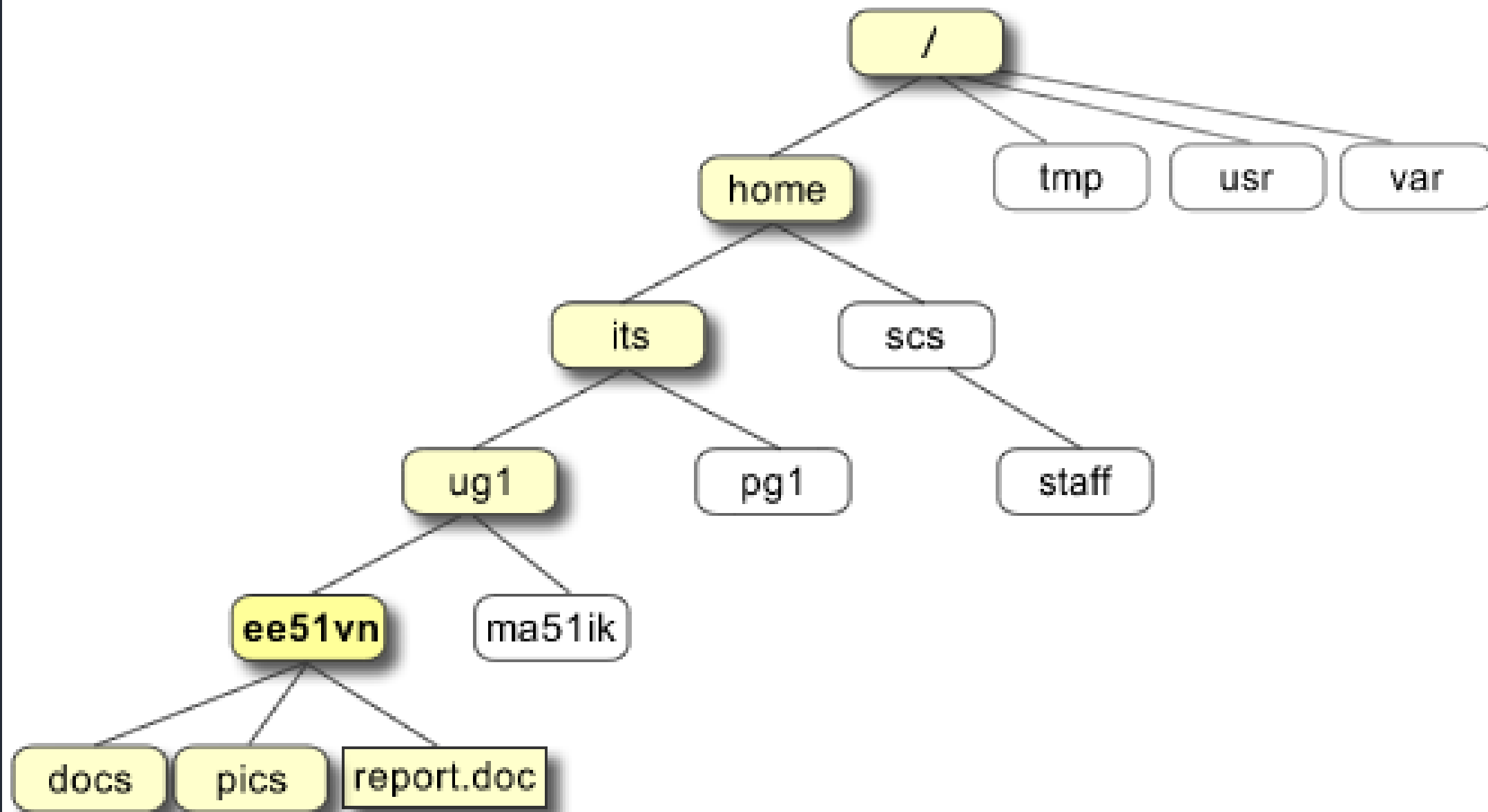


What is Linux ?

- LINUX IS AN OPERATING SYSTEM KERNEL.
- CREATED BY LINUS TORVALDS
- IT'S OPEN SOURCE A.K.A FREE
- !! AWESOME !!



LINUX FILE SYSTEM



- **ABSOLUTE PATH:**
BEGINNING FROM
ROOT.
- **RELATIVE PATH:**
NOT BEGINNING FROM
ROOT.

`>> pwd`



TERMINAL

>> CTRL + A
>> CTRL + E
>> CTRL + L
>> CTRL + C
>> CTRL + →
>> CTRL + ←

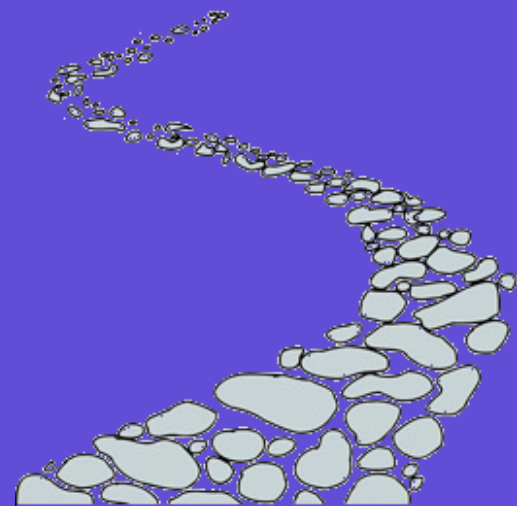
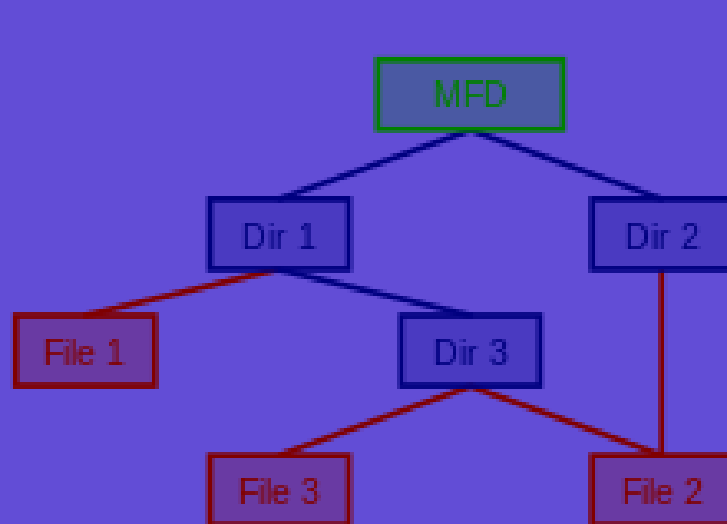
```
Tilix:Gr00t
1/1 ▾ + [ ] [ ]
1: g3ck1e@parrot: ~ ▾
~ > echo "I AM TERMINAL"
I AM TERMINAL
~ > _
```

>> CTRL + SHIFT + PLUS
>> CTRL + NEGATIVE



Tutorial One

- > LISTING FILES & DIRECTORIES
- > CREATING DIRECTORIES
- > CHANGING DIRECTORIES
- > THE DIRECTORIES . AND ..
- > HOME DIRECTORY
- > PATHNAMES



| Commands |

- ls
- ls -a
- mkdir
- cd
- cd ~
- cd . cd ..
- pwd

Tutorial Two

- > COPYING FILES
- > MOVING FILES
- > REMOVING FILES & DIRECTORIES
- > DISPLAYING FILE CONTENTS
- > SEARCHING CONTENTS OF A FILE



| Commands |

- cp file1 file2
- mv file1 file2
- rm file
- rmdir directory / rm -rf directory
- cat file
- less file
- head file
- tail file
- grep 'keyword' file
- wc file





Tutorial Three

- > REDIRECTION
- > REDIRECTING THE OUTPUT
- > REDIRECTING THE INPUT
- > PIPES



| Commands |

- **command > file**
- **command >> file**
- **command < file**
- **cat file1 file2 > file0**
- **command1 | command2**
 - **sort**
 - **who**



Tutorial Four

- > WILDCARDS
- > FILENAME CONVENTIONS
- > GETTING HELP



| Commands |

_ *

- ? match any character

**- Good file names: project.txt,
my_big_program.c and
fred_dave.doc**

- whatis

- man



Tutorial Five

- > FILE SYSTEM SECURITY (ACCESS RIGHTS)
- > CHANGING ACCESS RIGHTS
- > PROCESSES AND JOBS
- > LISTING SUSPENDED AND BACKGROUND PROCESSES
- > KILLING A PROCESS



| Commands |

- ls -l

- r: Read, w: Write, e: Execute

- chmod (Changing a file mode)

u: User, g: Group, o: Other, a: All

+: Add, - : Remove

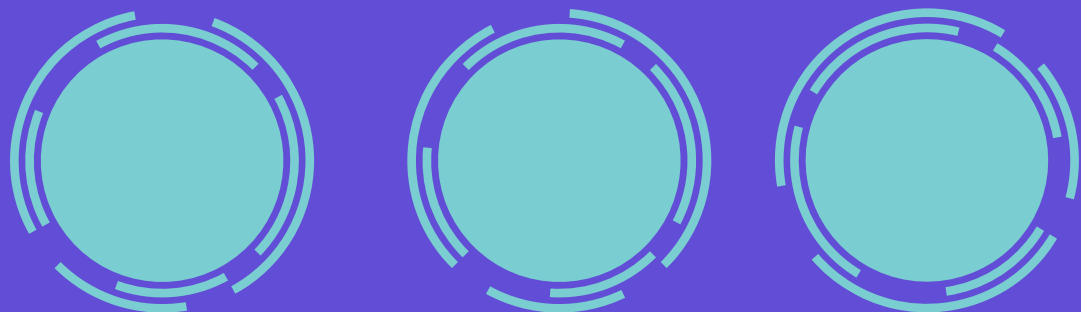
- ps

- bg / fg

- kill / pkill

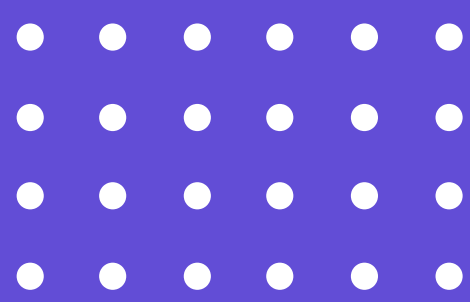
Last Tutorial

> OTHER USEFUL COMMANDS



| Commands |

- df
- du -s *
- gzip / gunzip
- zcat
- file
- diff file1 file2
- find
- locate
- history



THANK YOU

