# Bash Scripting, Dirty Pipe & more!

Network Security Emphasis Ian Cook March 15th, 2022

### Quick Intro: What is Bash? Why does it matter?

"Bash (AKA Bourne Again Shell) is a type of interpreter that processes shell commands. A shell interpreter takes commands in plain text format and calls Operating System services to do something. For example, 1s command lists the files and folders in a directory. Bash is the improved version of Sh (Bourne Shell). A shell scripting is writing a program for the shell to execute and a shell script is a file or program that shell will execute."

## Diving into it: TryHackMe free room!!! (today's theme)

For today: <a href="https://tryhackme.com/room/bashscripting">https://tryhackme.com/room/bashscripting</a>

For tomorrow (or another day): <a href="https://tryhackme.com/room/catregex">https://tryhackme.com/room/catregex</a>

https://tryhackme.com/room/linuxstrengthtraining

https://www.shellscript.sh/

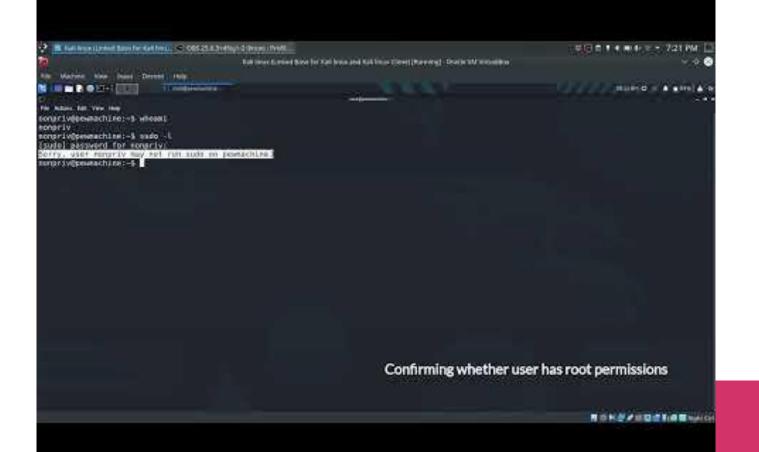
https://www.codecademy.com/learn/bash-scripting

### Quick Intro: What the heck is Dirty Pipe?

#### CVE-2022-0847

On Monday 7th March, a vulnerability in the Linux Kernel was disclosed publicly which could allow an attacker to escalate privileges

The vulnerability resides in the pipe tool, which is used for unidirectional communication between processes, so the researcher called it "Dirty Pipe".



# Diving into it: Again on TryHackMe (sorry not sorry)

For today: <a href="https://tryhackme.com/room/dirtypipe">https://tryhackme.com/room/dirtypipe</a>

For tomorrow:

(Log4j room <a href="https://tryhackme.com/room/solar">https://tryhackme.com/room/solar</a>)

(Vulnerabilities101 <a href="https://tryhackme.com/room/vulnerabilities101">https://tryhackme.com/room/vulnerabilities101</a>)

(Apache Path Traversal <a href="https://tryhackme.com/room/cve202141773">https://tryhackme.com/room/cve202141773</a>)

### Resources:

https://linuxconfig.org/bash-scripting-tutorial

https://ryanstutorials.net/bash-scripting-tutorial/

https://www.redhat.com/sysadmin/learn-bash-scripting

https://www.tutorialspoint.com/unix/shell\_scripting.htm

https://www.educative.io/courses/master-the-bash-shell/3j8399P3M6M

https://www.techtarget.com/searchdatacenter/definition/bash-Bourne-Again-Shell

https://medium.com/sysf/bash-scripting-everything-you-need-to-know-about-bash-shell-programming-cd08595f2fba

### Resources:

https://thehackernews.com/2022/03/dirty-pipe-linux-flaw-affects-wide.html

https://securelist.com/cve-2022-0847-aka-dirty-pipe-vulnerability-in-linux-kernel/1 06088/

https://redhuntlabs.com/blog/the-dirty-pipe-vulnerability.html

https://twitter.com/Fire30\_/status/1503422980612923404?s=20&t=t90ZPQtmVg 3TTeOyY6i6VA

https://dirtypipe.cm4all.com/