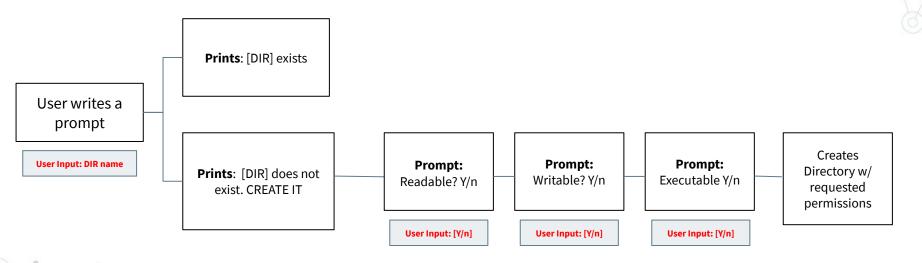
Operating Systems Project: mkch

Group 9:

Clarissa Bernardo, Krysten Tachiyama, Ameya Mellacheruvu

Our Change: mkch

- Combine the mkdir and chmod command that walks the user through a user-friendly experience.
- The person with owner access can customize the permissions of those in the user level.



Why we wanted to do this

- Read-write permissions are confusing and look mysterious ರ_ರ
- Convenience

mkch



```
ox:~$ mkdir -m777 newFolder
ox:~$ mkdir -m700 newFolder2
ox:~$
```





root@clarissab-VirtualBox:/home/clarissab/Desktop# mkch test
[DIR] {test} does not exist, CREATE IT

Do you want to make {test} readable? [Y/n]: y

Do you want to make {test} writable? [Y/n]: n

Do you want to make {test} executable for everyone? [Y/n]: n

Very clear

Prettier

Knows exactly
what it means

Research Done

- GNU Core Utilities
 - Manual https://www.gnu.org/software/coreutils/manual/
 - GGSYW
- Kernel Modifications
 - Familiarity with the file structure and its libraries
 - GGSYW
- Kernel Build
 - Professor's Kernel Build post from April 2020.
 - GGSYW



Building the Kernel

Obsolete Instructions. Extremely time consuming.

```
Modifying the Kernel
```

Obsolete Instructions, total path-police, limitations

```
CC arch/x86/boot/compressed/ident_map_04.0

CC arch/x86/boot/compressed/idt_64.0

CC arch/x86/boot/compressed/pgtable_64.0

CC arch/x86/boot/compressed/sev-es.0

CC arch/x86/boot/compressed/acpi.0
```

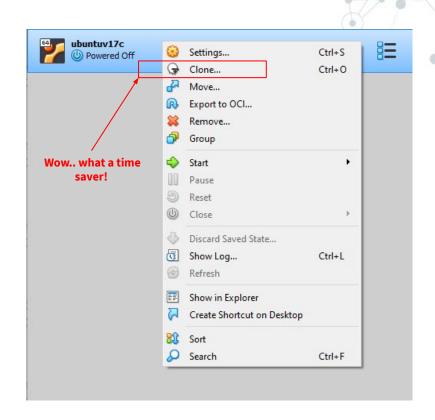
NU - coreutils Explored this a lot later.

BIF .btf.vmlinux.bin.o

Kernel: arch/x86/boot/bzImage is ready (#3) tag_check_id_drift: subroutine_type of the composition of t

How Problems Were Mitigated

- Group 04 solution to kernel build.
- Cloning the progressing successful VM machines.
- Professor's post on adding a kernel command (even though we did not use it.)
- Lots of trial and error and
 Stack Overflow

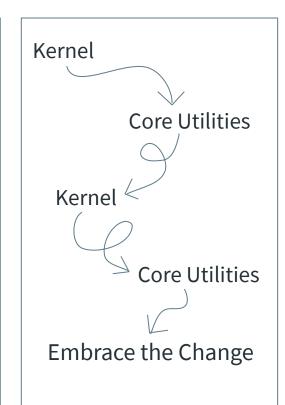


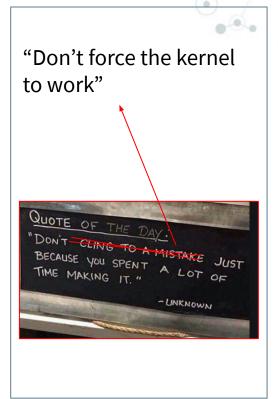


Takeaways









THANK YOU

QUESTIONS AND COMMENTS