PARTITIONING ASSIGNMENT IN LINUX

Q. CREATE A PARTITION OF SIZE 40MB, FORMAT THE PARTITION WITH EXT4, CREATE A DIR /XYZ, MOUNT THIS PARTITION ON /XYZ DIR PERMANENTLY. AND CREATE THE FOLLOWING FILES WITHIN IT: F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 = EMPTY FILES, DISPLAY THE CONTENT IN FILE1 WITH "WELCOME TO WIPRO" ?

ANSWER:

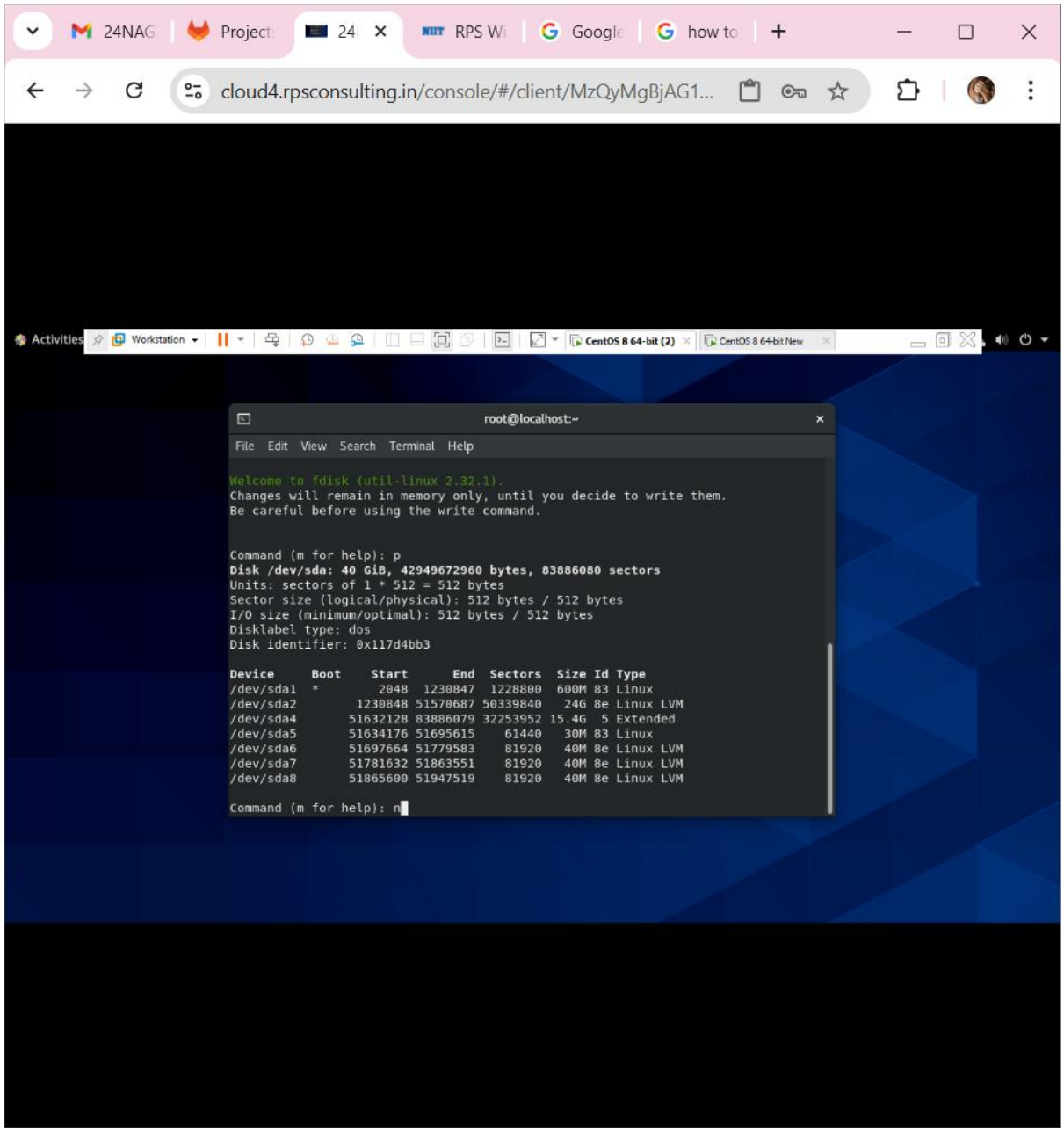
STEP -1: FIRST GO TO THE TERMINAL AND GIVE THE COMMAND IN THE ROOT DIRECTORY AS "Fdisk -l /dev/sda" .

FDISK : THIS COMMAND IS USED FOR CREATING THE PARTITIONS.

/DEV/SDA : THIS COMMAND IS USED TO ACCES THE FIRST SCSI HARD DISK DRIVE IN A SYSTEM.

NOW, WE HAVE TO CREATE A NEW PARTITION:

- **TYPE N TO CREATE A NEW PARTITION.**
- **CHOOSE THE PARTITION TYPE (PRIMARY OR EXTENDED).**
- **SET THE PARTITION SIZE TO 40MB. (E.G., STARTING FROM THE FIRST AVAILABLE SECTOR AND SETTING THE END SECTOR TO CREATE A 40MB PARTITION).**
- **WRITE THE CHANGES BY TYPING W.**



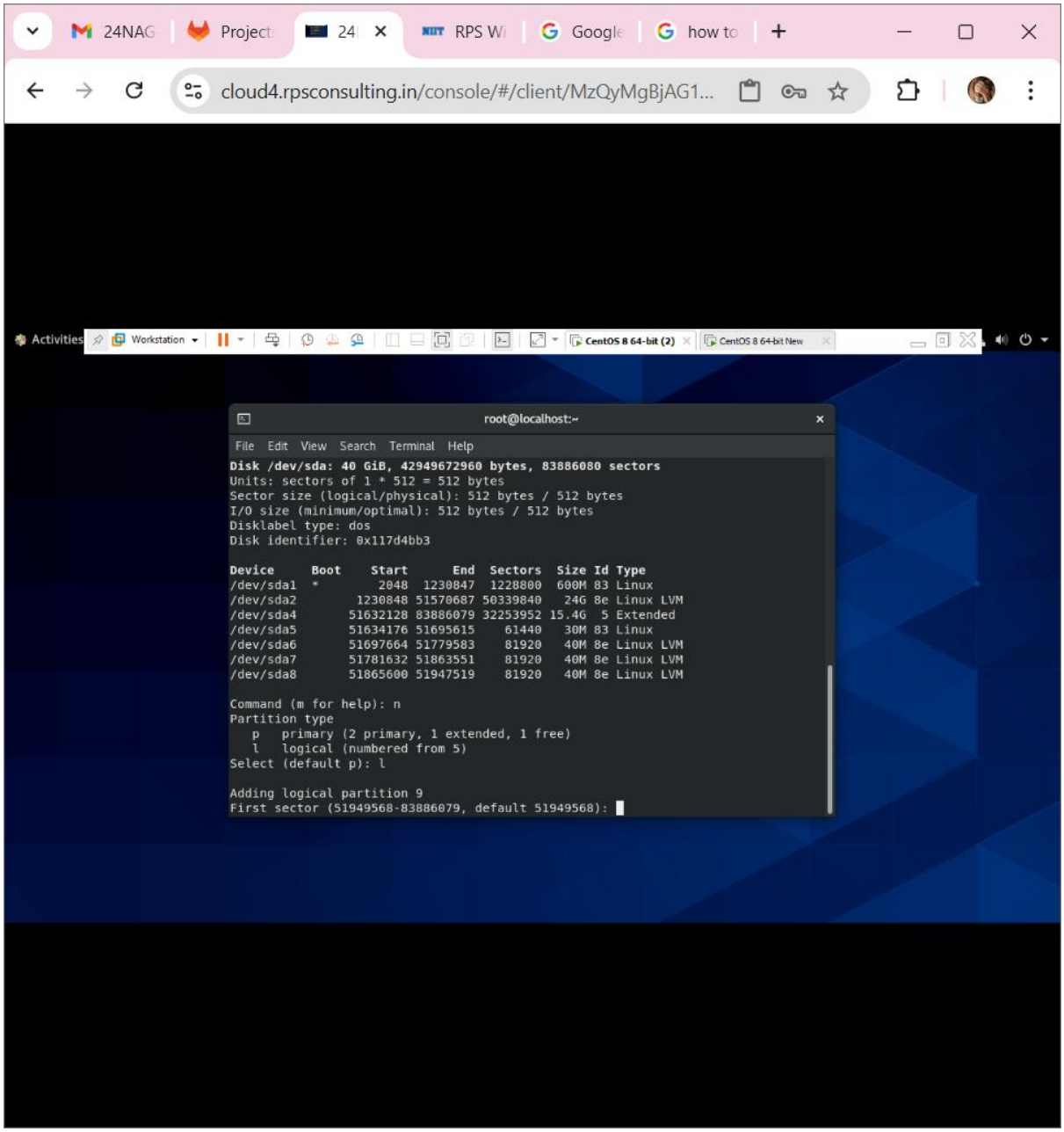
WE CAN SEE THE DEVICES, BOOT, START, END , SECTORS ,SIZES, ID AND TYPE.

<u>STEP -2:</u>

AFTER CREATING THE PARTITION, REFRESH THE PARTITION TABLE WITH PARTPROBE OR RESTART YOUR SYSTEM TO MAKE THE NEW PARTITION AVAILABLE.

P – TO PRINT THE PARTITION

N – TO CREATE THE PARTITIONS.



<u>STEP -3 :</u> AFTER THE ”n” COMMAND WE HAVE TO SELECT THE PARTITION TYPE, P AS PRIMARY

L AS LOGICAL PRIMARY.

SELECT THE “L” OPTION TO CREATE THE PARTITION IN THE LOGICAL PARTIITONS.

BY DEFAULTS, IT TAKES THE NEXT PARTITION NUMBER AND CLICK ENTER.

GIVE THE BLANK FOR THE FIRST SECTOR,

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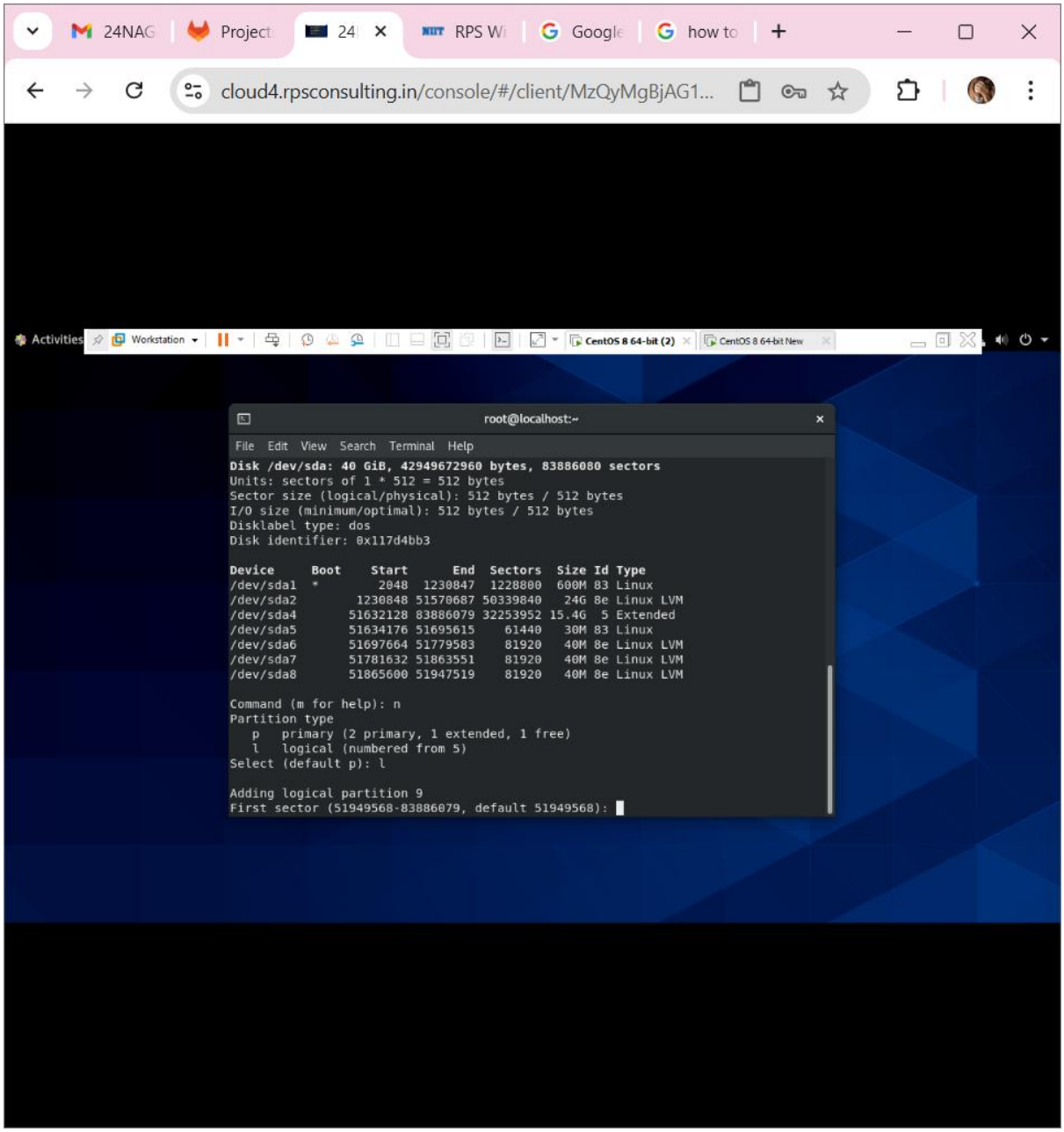
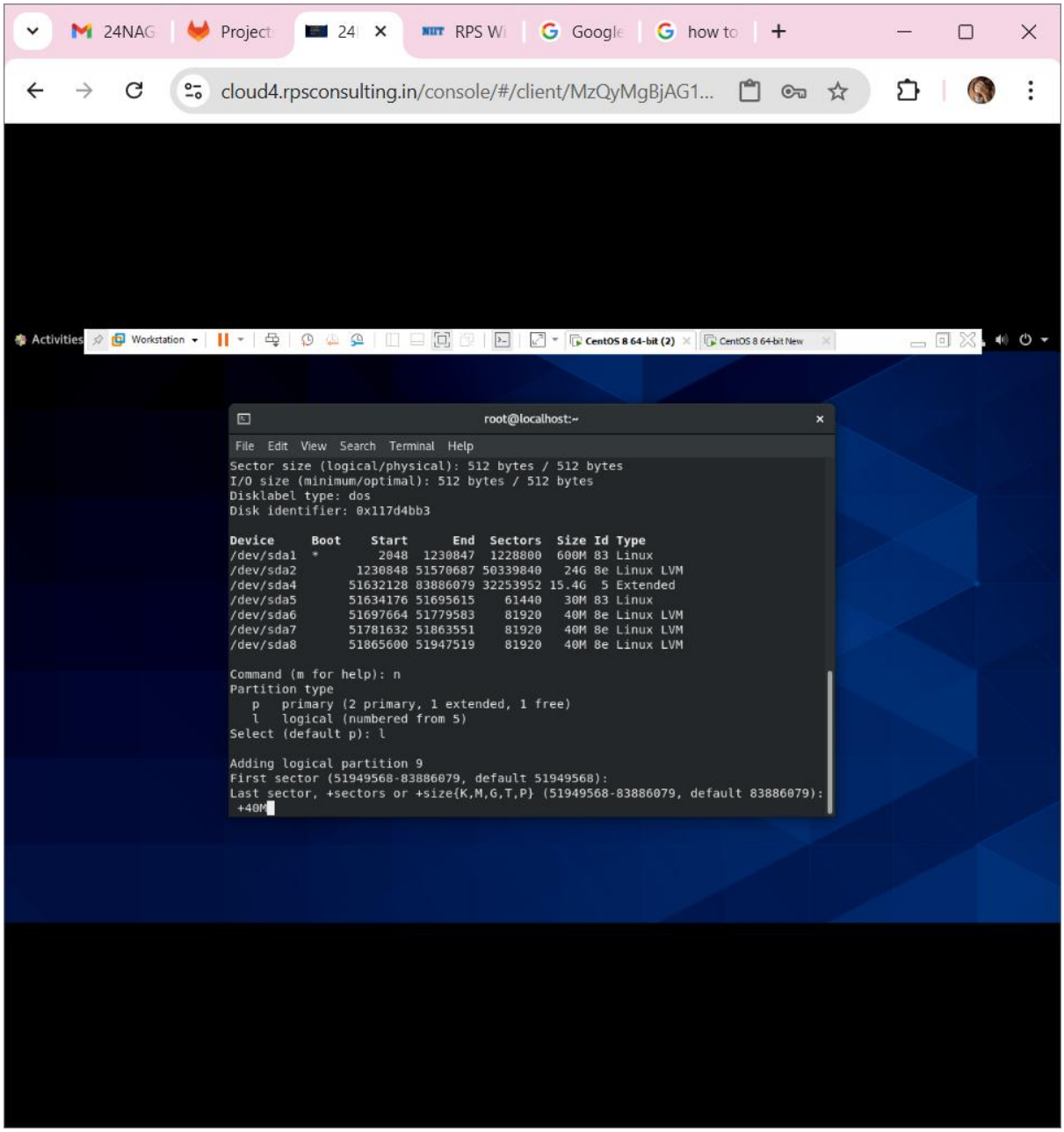


IN THE LAST SECTOR WE HAVE TO GIVE THE SIZE OF THE PARTITON AS WE REQUIRED +40MB.

CLICK ON THE ENTER.



STEP -4 :

FORMAT THE PARTITION WITH EXT4

NOW THAT THE PARTITION IS CREATED (LET'S ASSUME THE NEW PARTITION IS /DEV/SDA1), FORMAT IT WITH THE EXT4 FILESYSTEM.

CODE : " mkfs.ext4 /dev/sda9 ".

NOW, CLICK ON THE ENTER.

AND GIVE THE COMMAND "W" TO SAVE.

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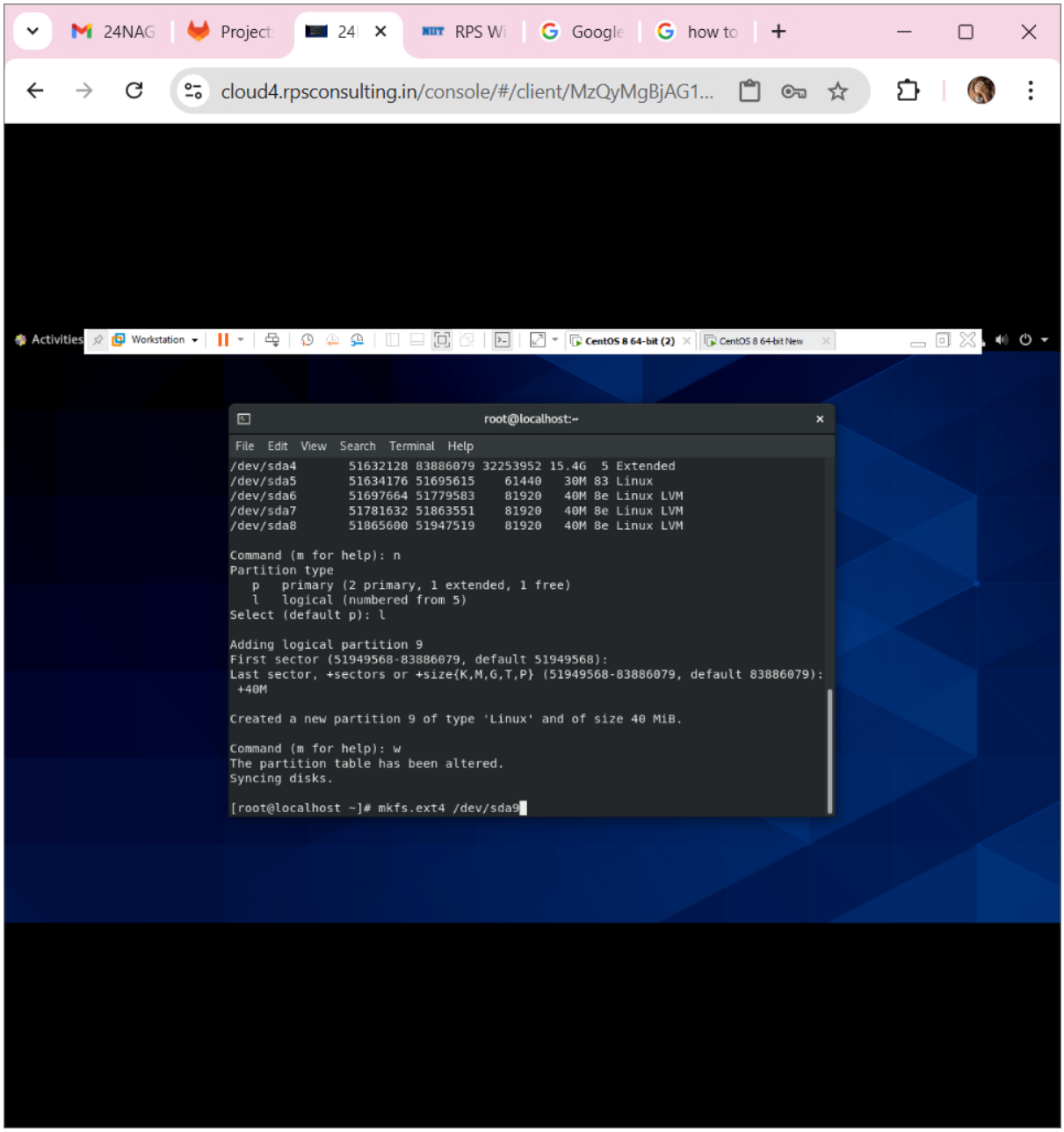
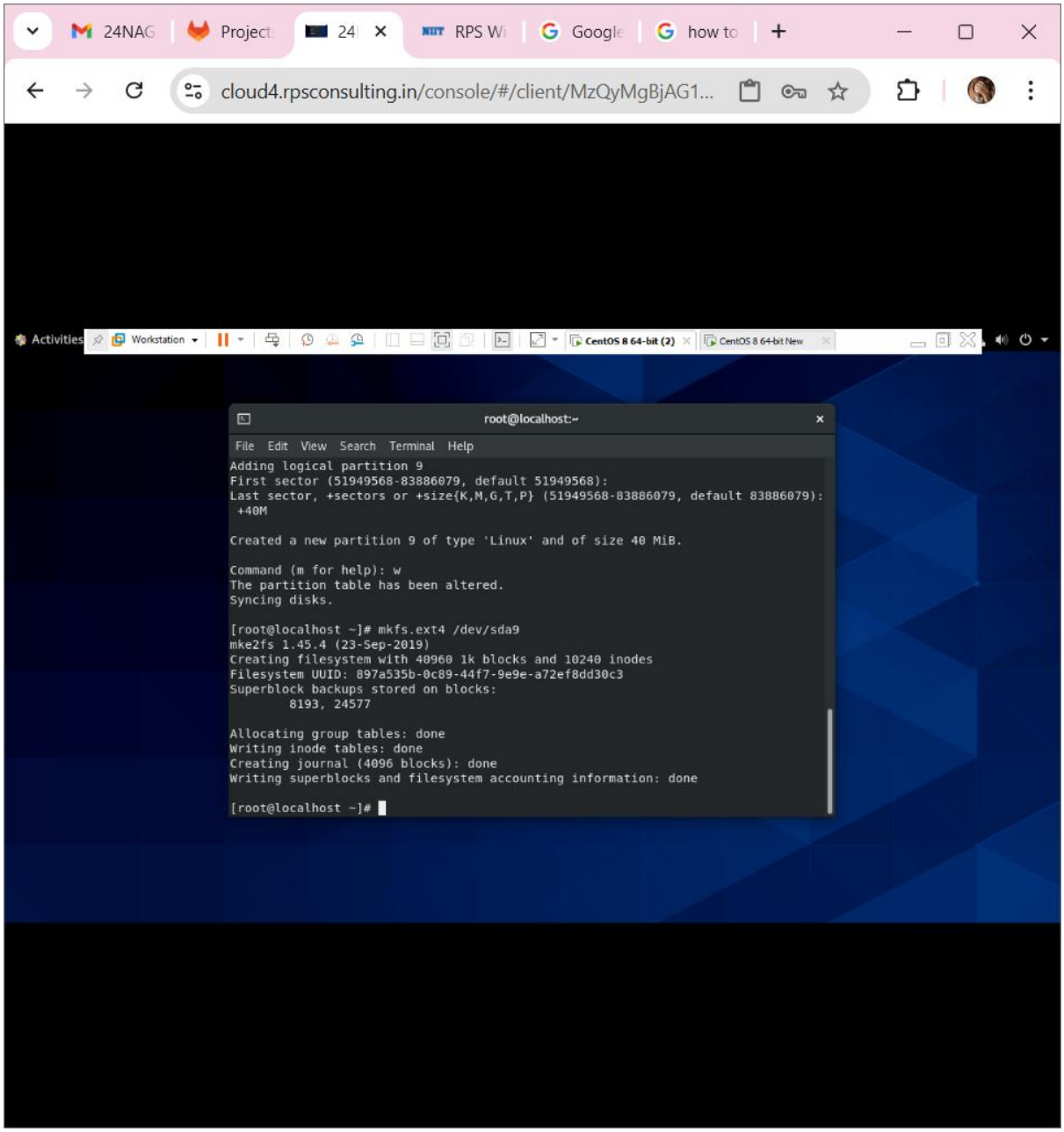


STEP -5 :

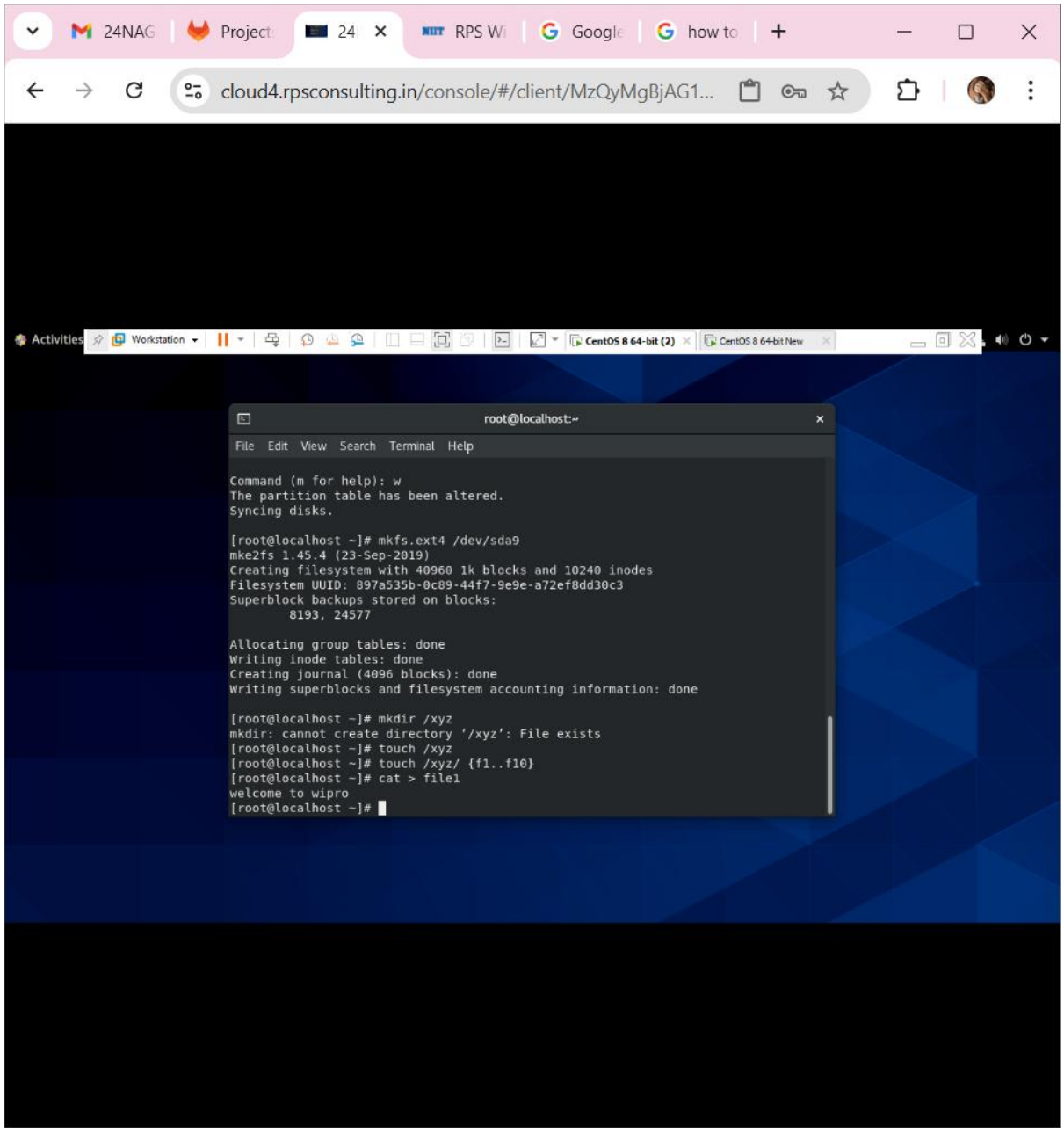
CREATE THE DIRECTORY /XYZ

NEXT, CREATE A DIRECTORY CALLED /XYZ TO MOUNT THE PARTITION ON.



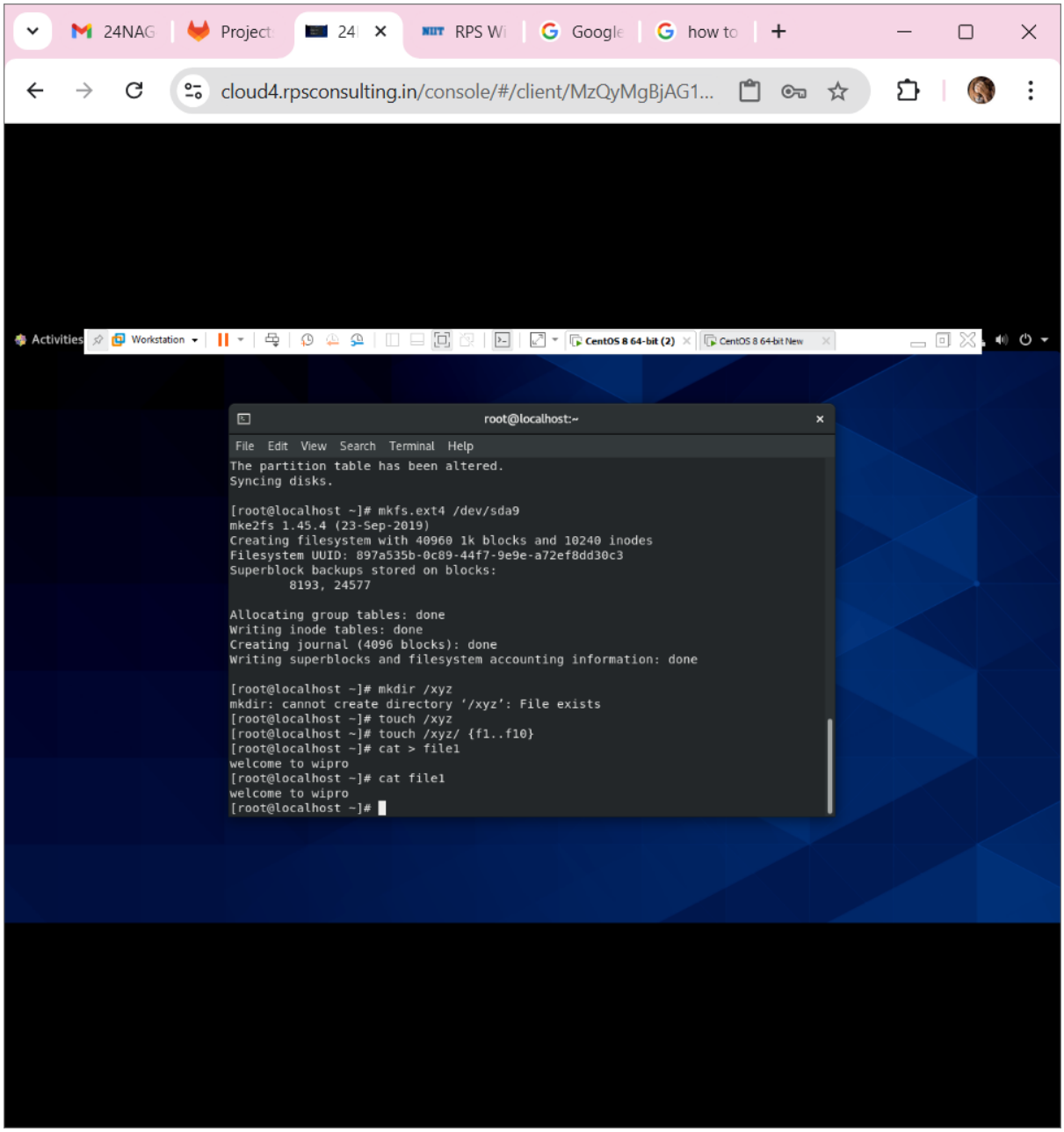
STEP -6 : MOUNT THE PARTITION ON /XYZ

MOUNT THE NEWLY CREATED PARTITION TO THE /XYZ DIRECTORY.



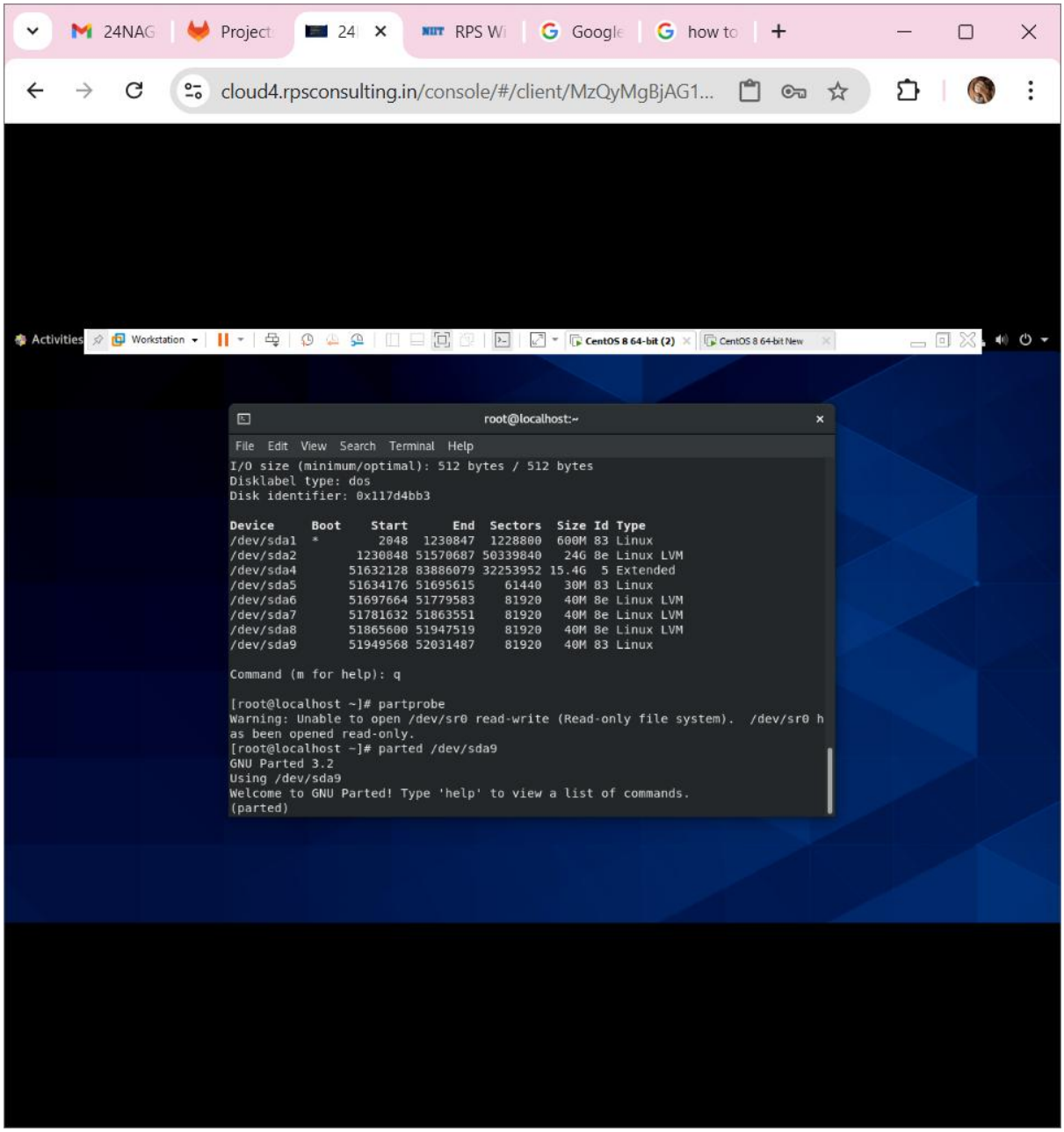
STEP -7 : MAKE THE MOUNT PERMANENT

TO ENSURE THE PARTITION IS MOUNTED AUTOMATICALLY ON SYSTEM REBOOT, YOU NEED TO ADD IT TO /ETC/FSTAB.



STEP -8: CREATE EMPTY FILES (F1 TO F10) IN /XYZ

NOW CREATE THE EMPTY FILES WITHIN THE /XYZ DIRECTORY.



STEP – 9: DISPLAY CONTENT IN FILE F1

NOW, TO DISPLAY THE CONTENT IN FILE F1 WITH THE TEXT "WELCOME TO WIPRO".

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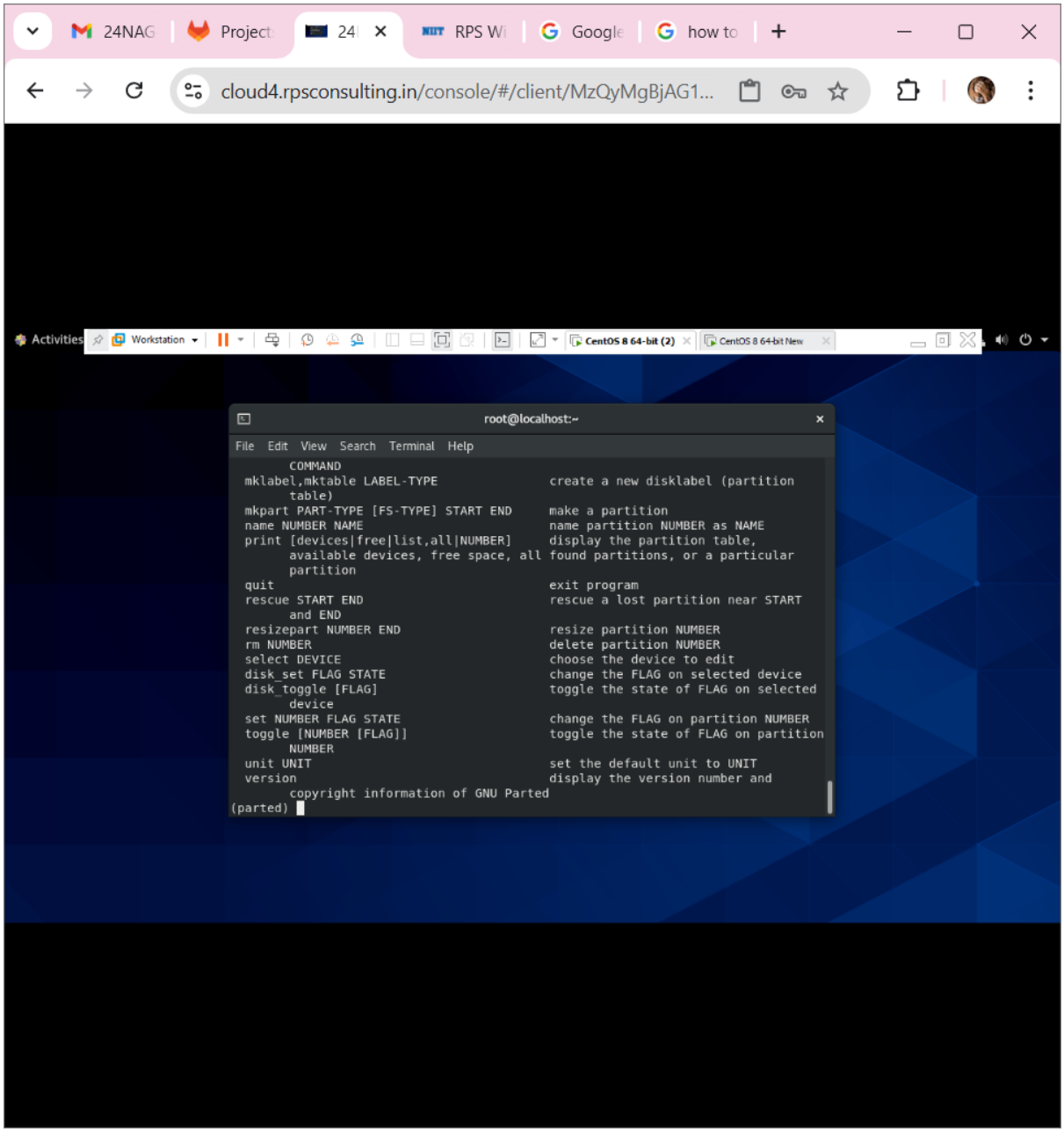

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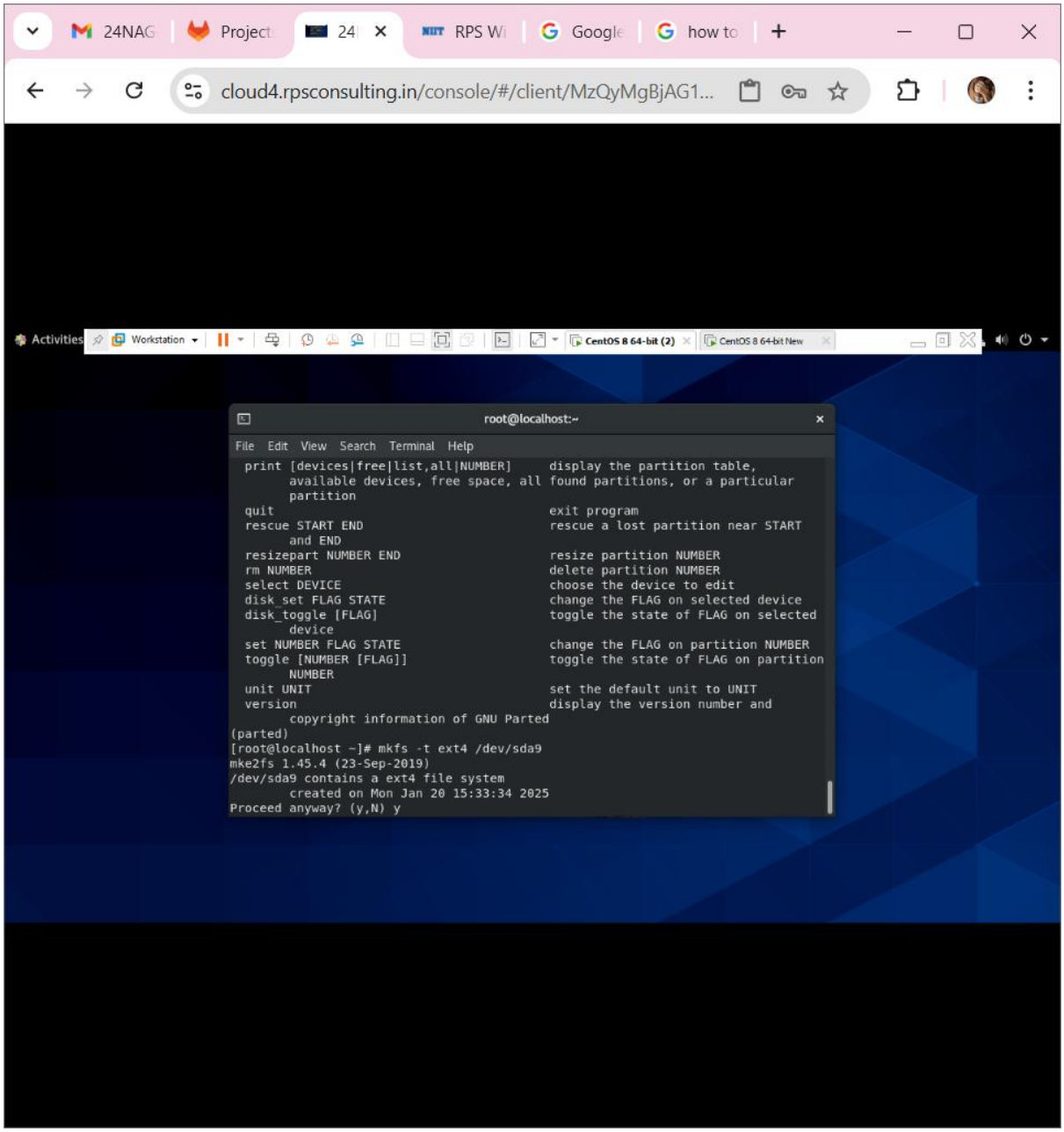

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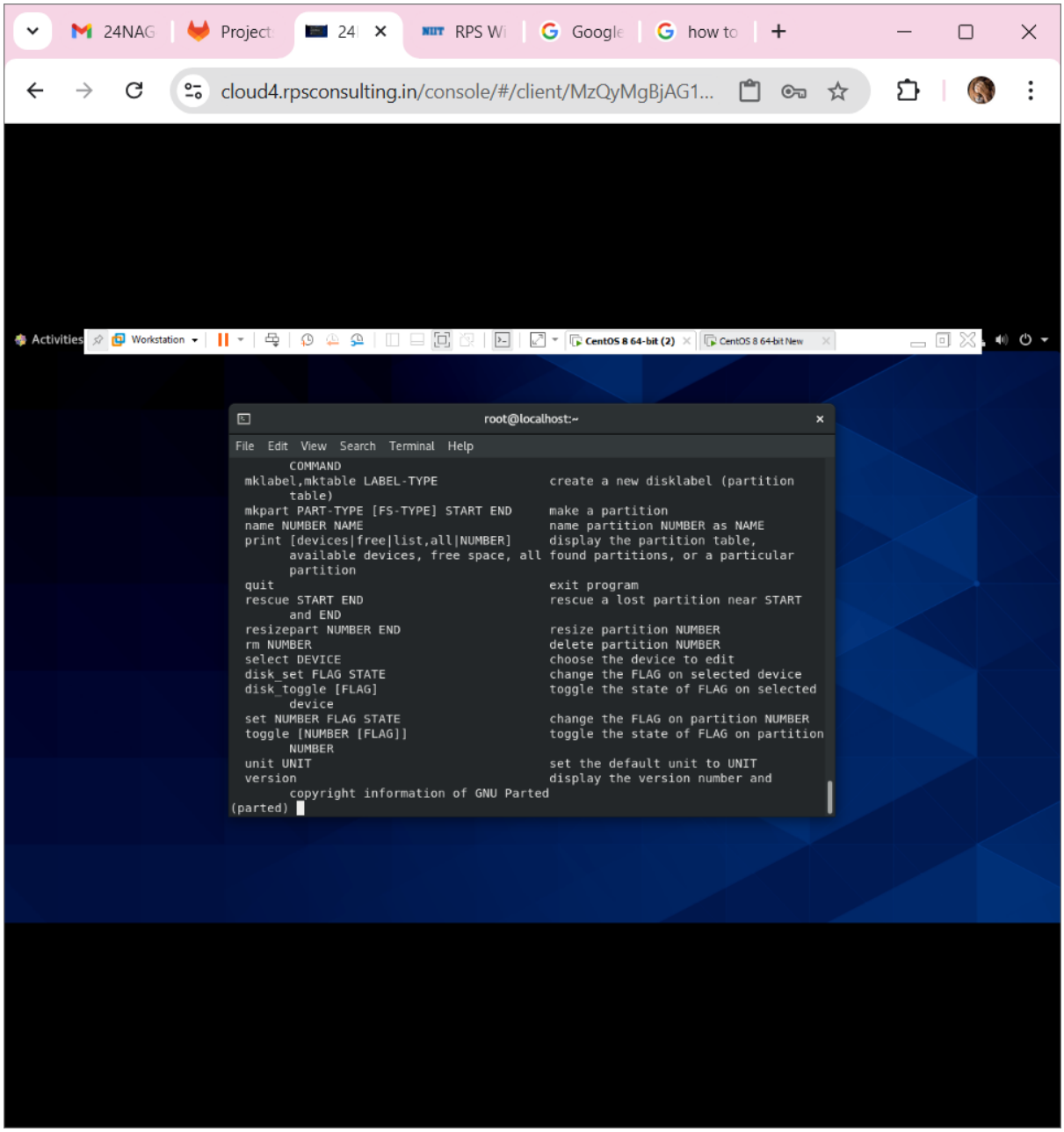

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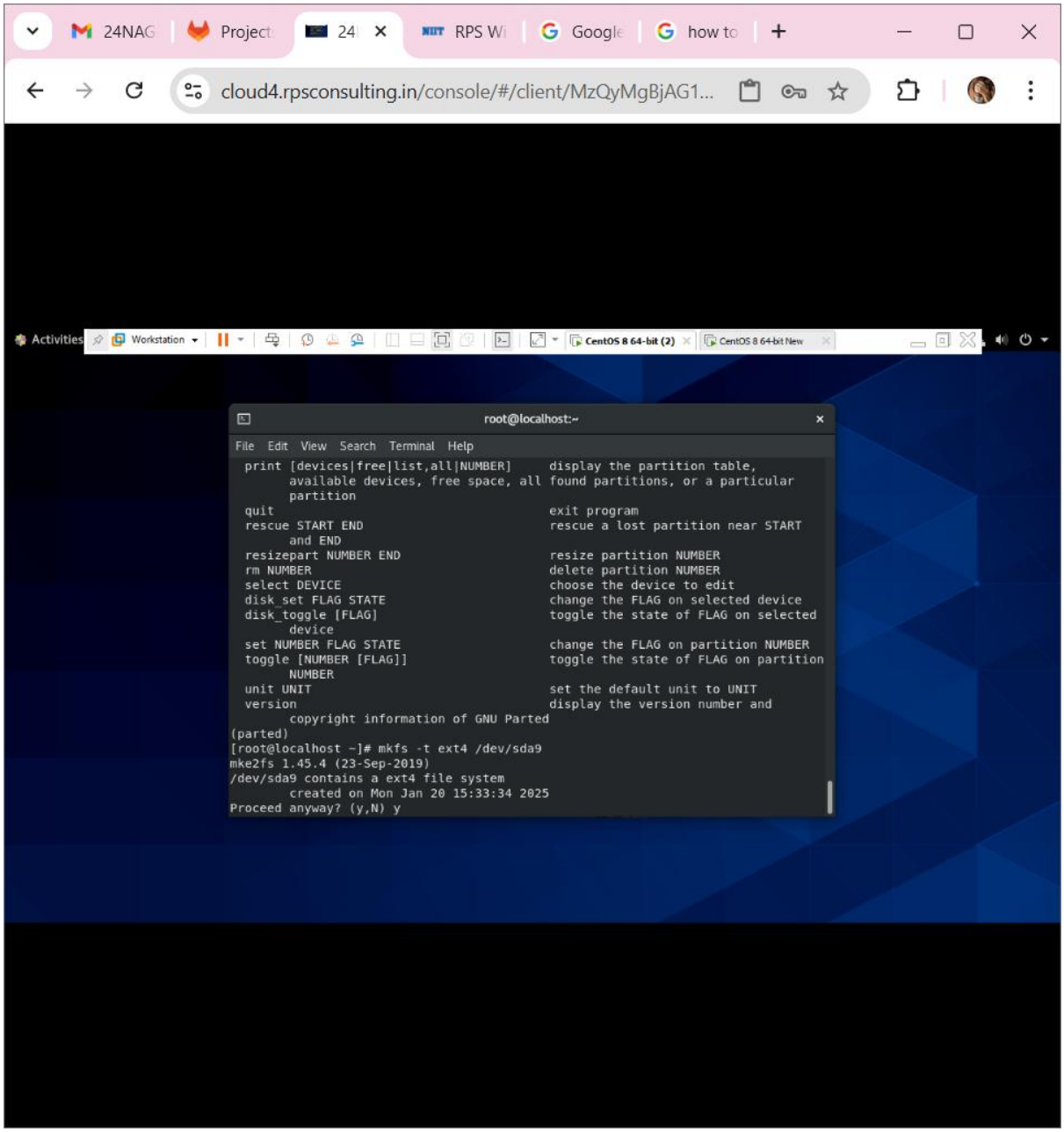

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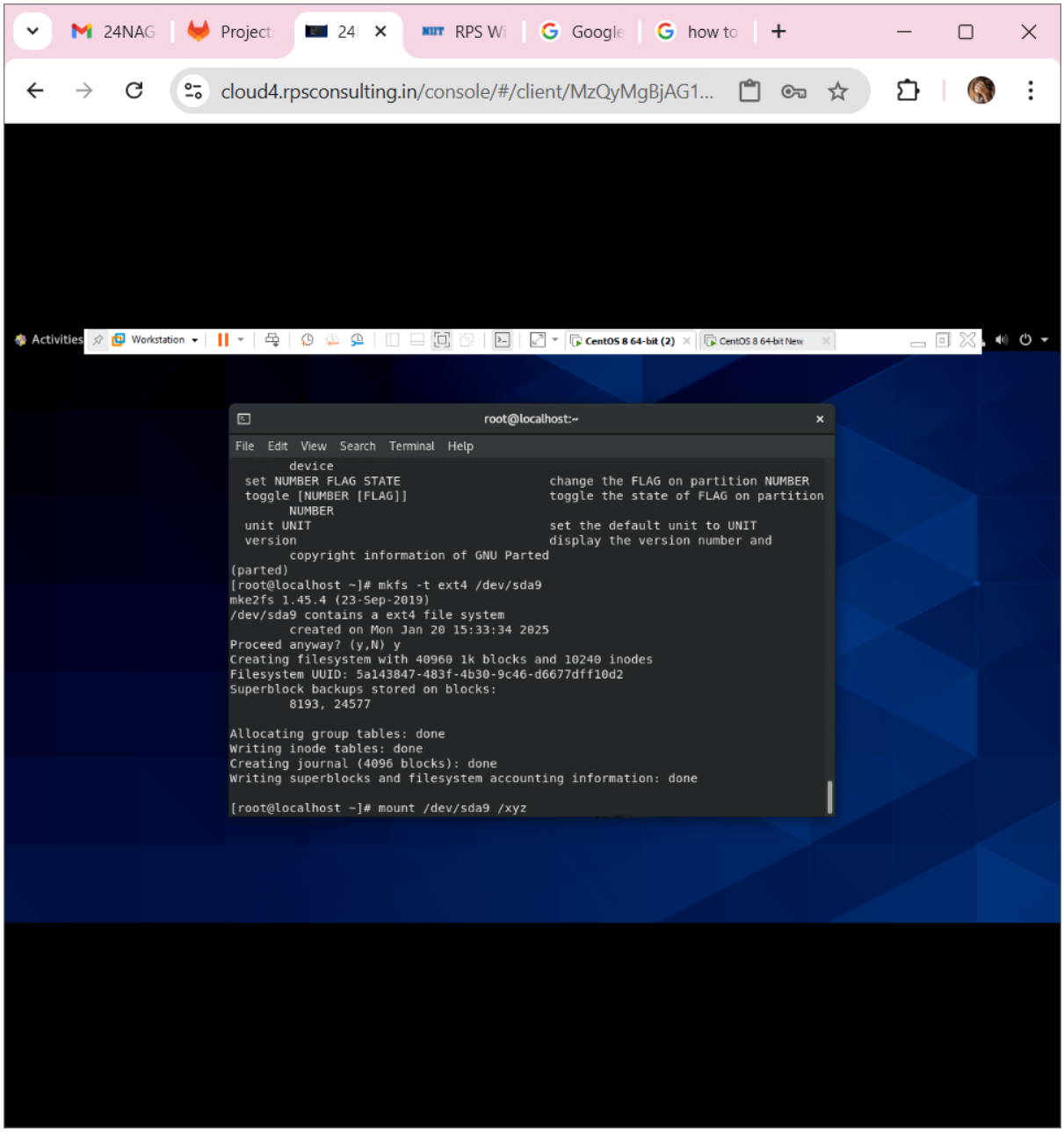

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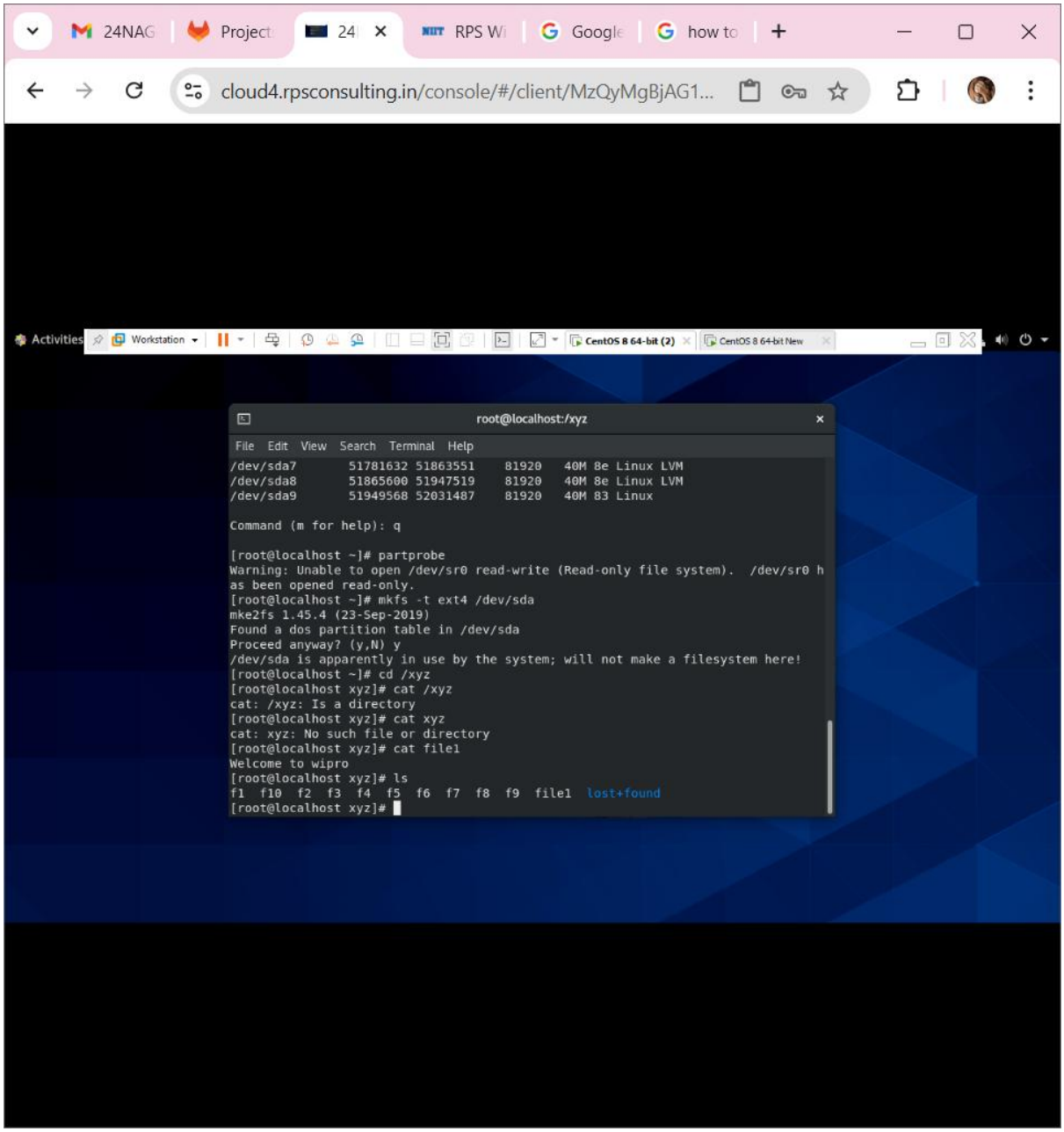

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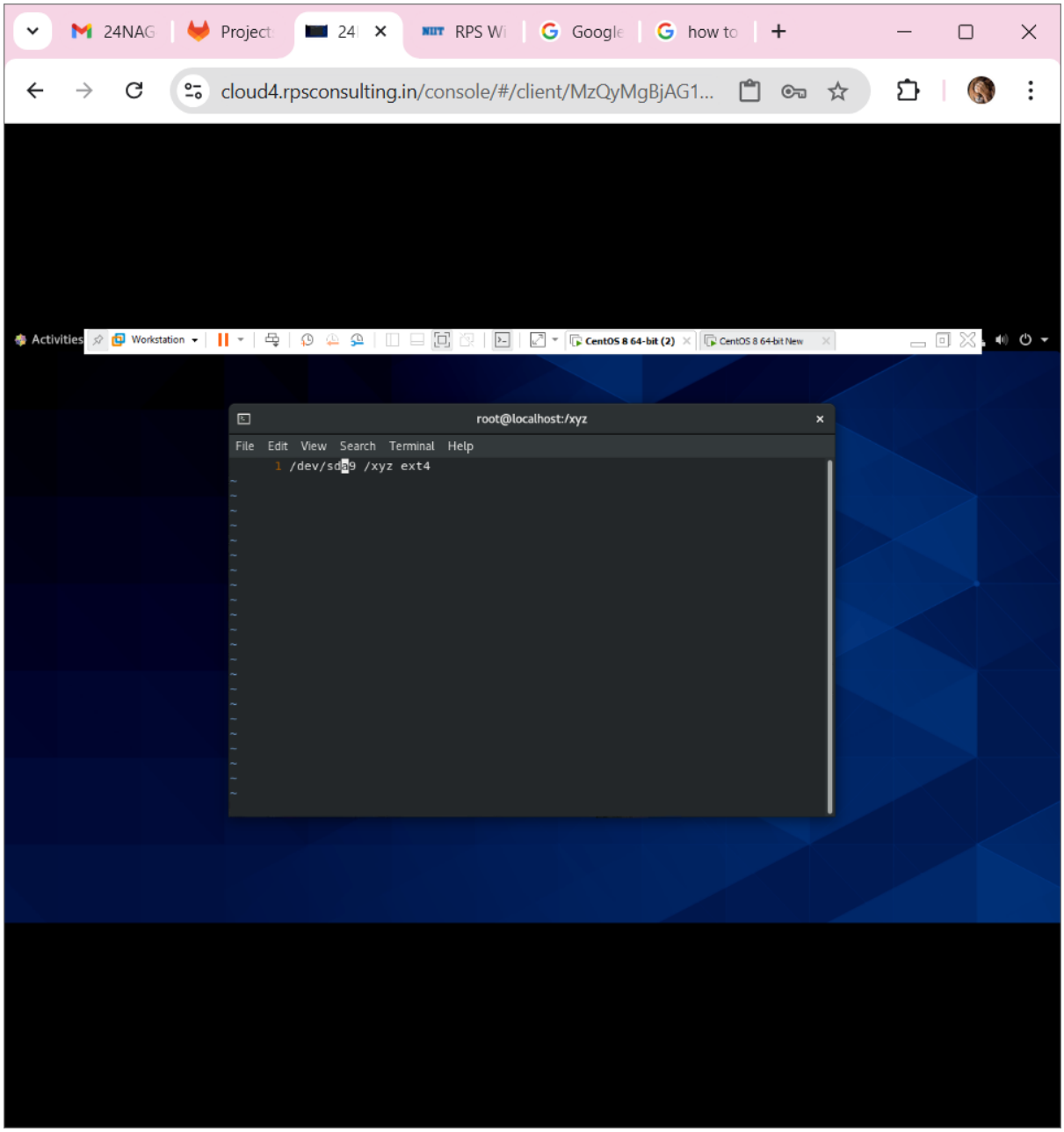

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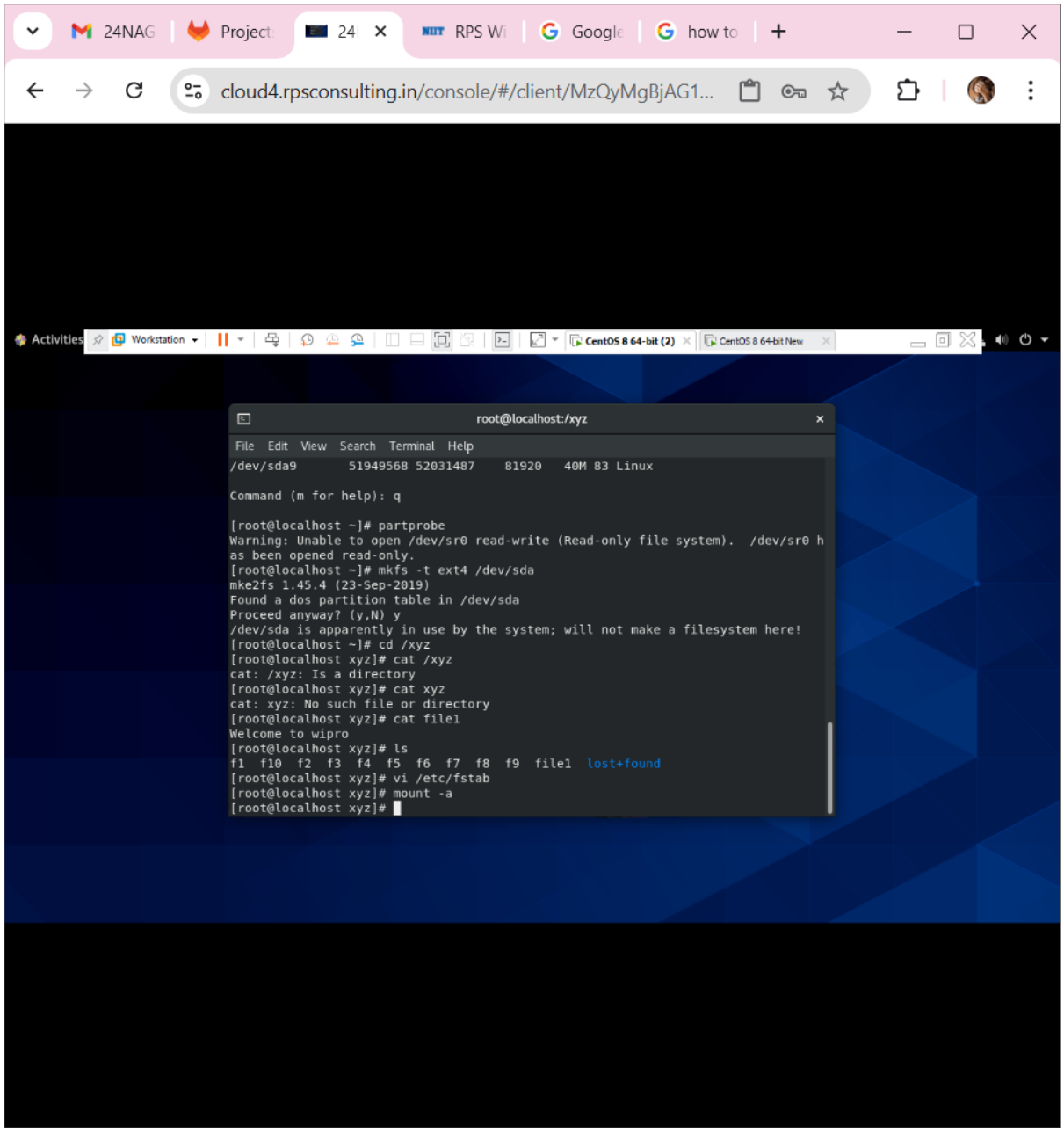

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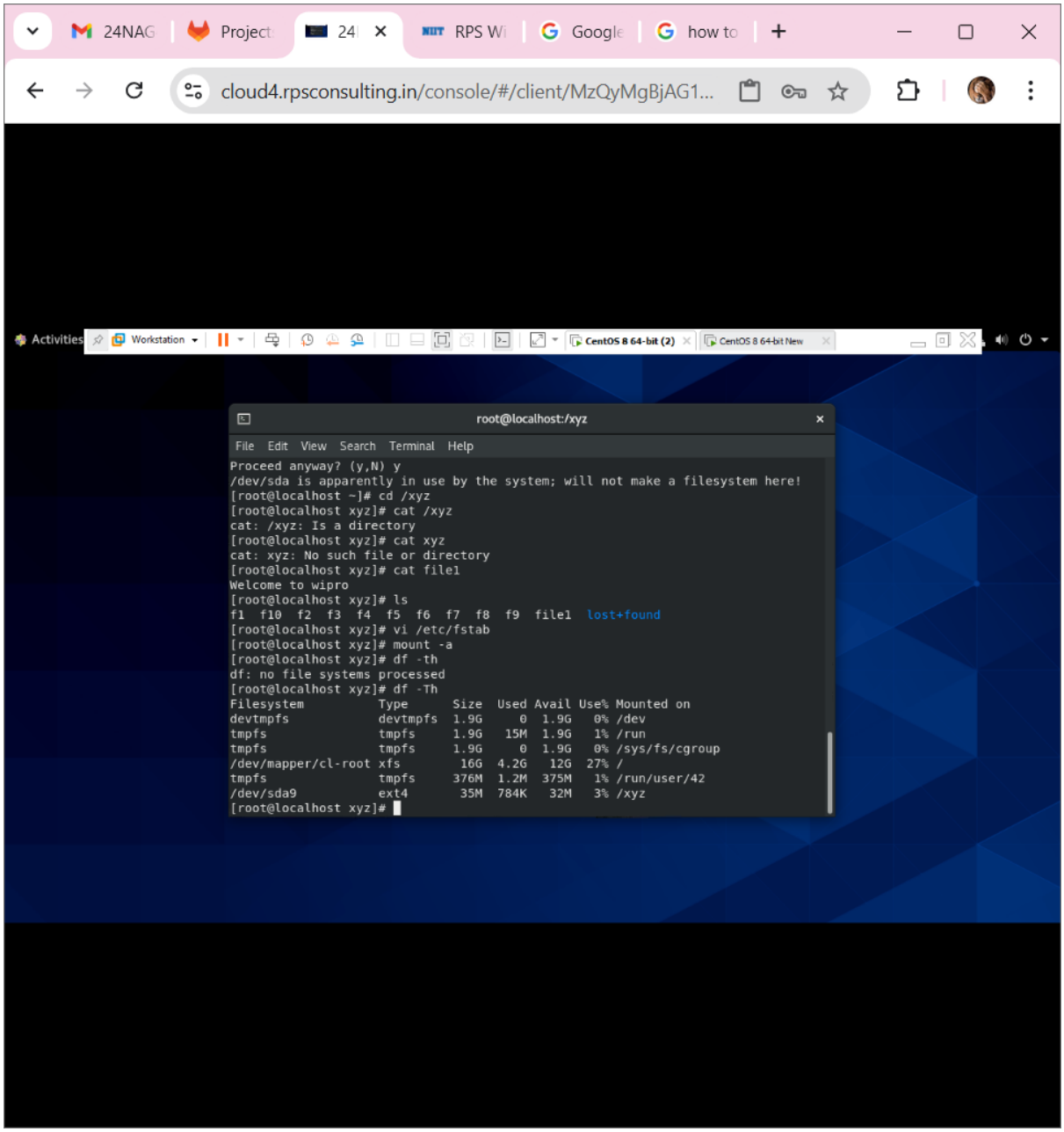

FINAL ANSWER

NOW WE HAVE COMPLETED THE FOLLOWING TASKS:

- **CREATED A PARTITION OF 40MB.**
- **FORMATTED IT WITH EXT4.**
- **MOUNTED IT TO /XYZ.**
- **CREATED FILES F1 TO F10 AS EMPTY FILES IN /XYZ.**
- **ADDED CONTENT TO F1 WITH THE MESSAGE "WELCOME TO WIPRO".**

TO CONFIRM THE CONTENT IN F1, RUN:

CAT /XYZ/F1.

AND THE OUTPUT IS

“WELCOME TO WIPRO”.

****************************THANK YOU********************************