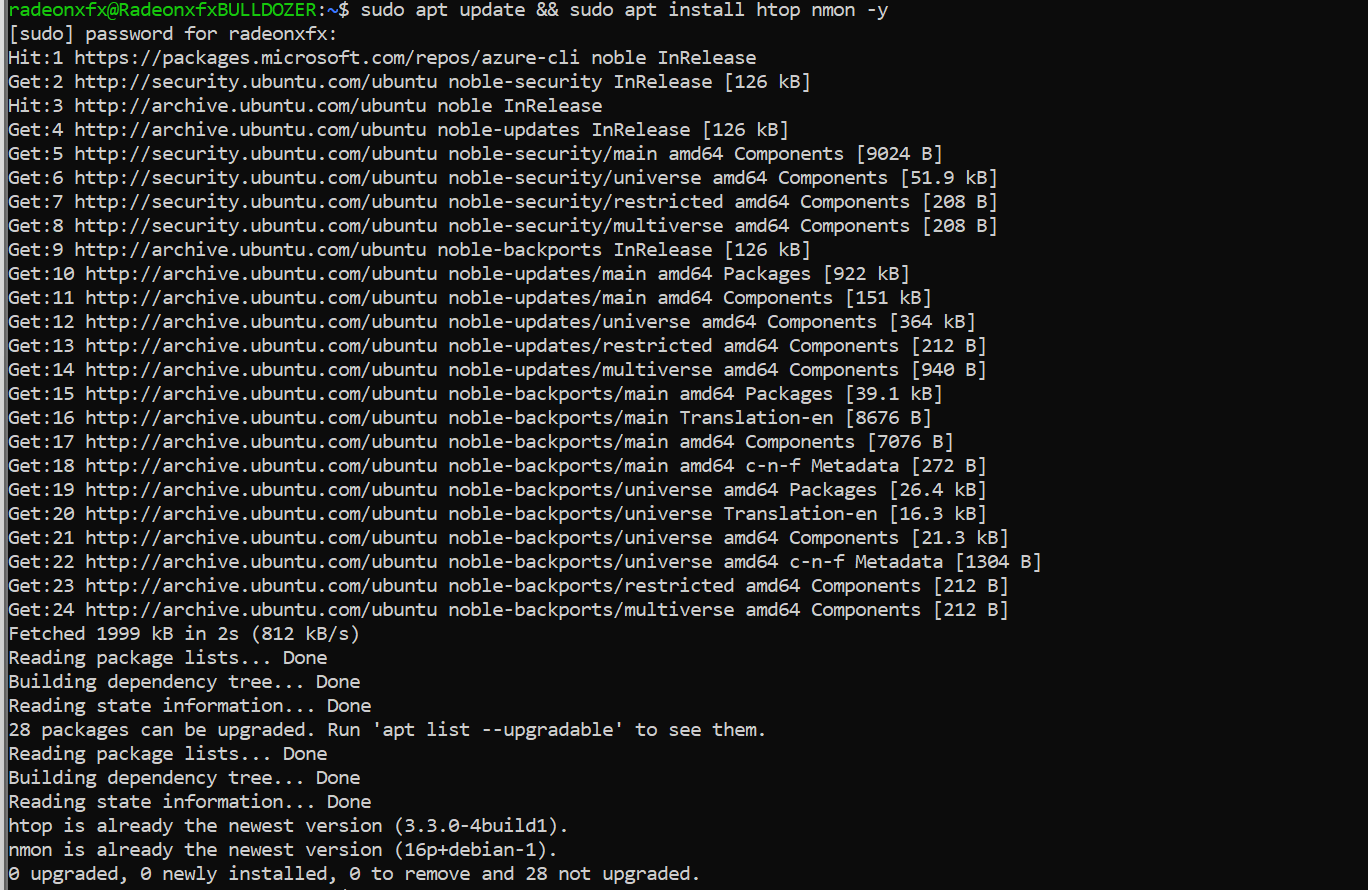
**TASK 1**

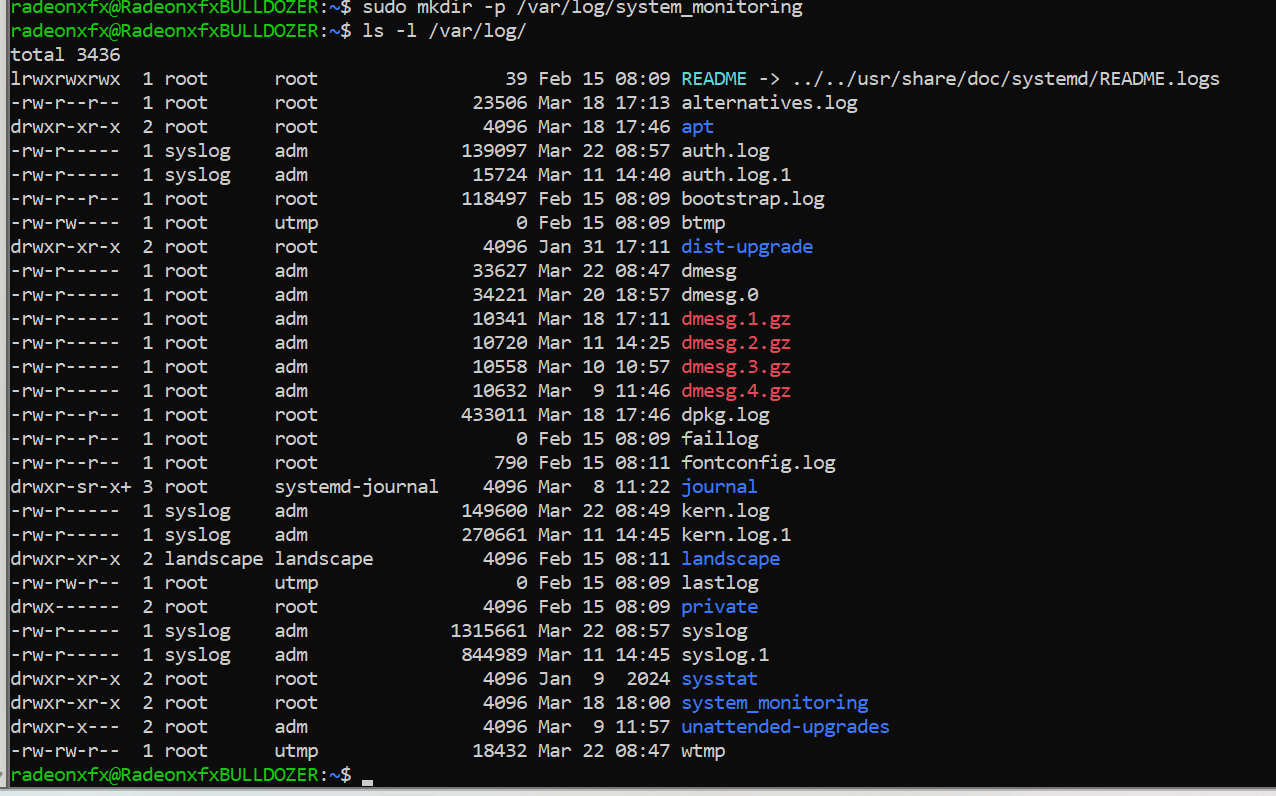
**Step 1: System Monitoring Setup:**

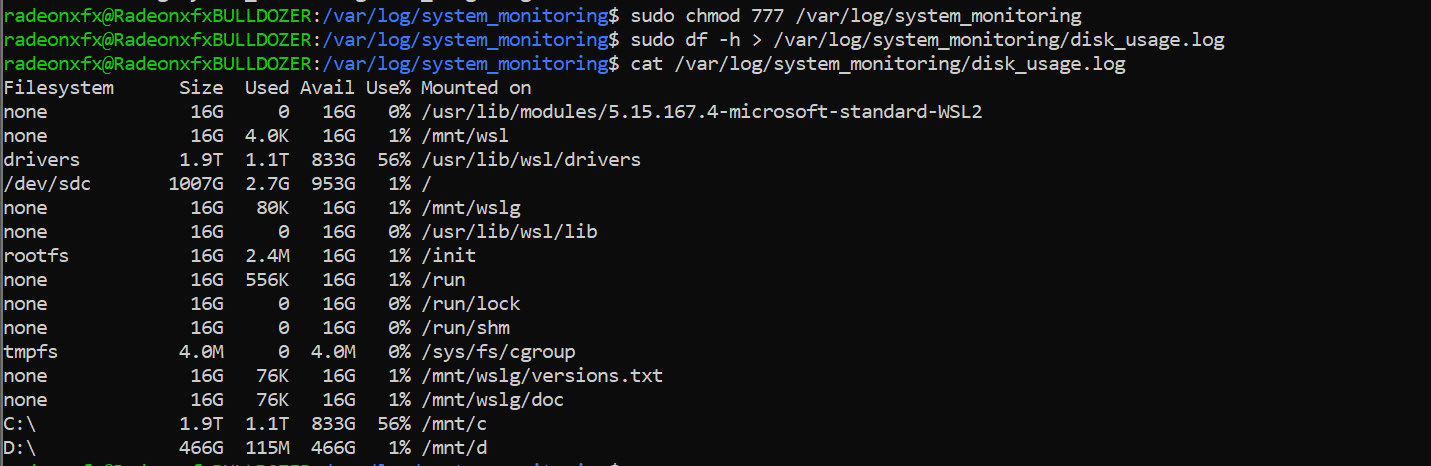
**Please Note that:** I am using Rahul’s username as **radeonxfx** ie, **/home/radeonxfx/**

1. Install Monitoring Tools:



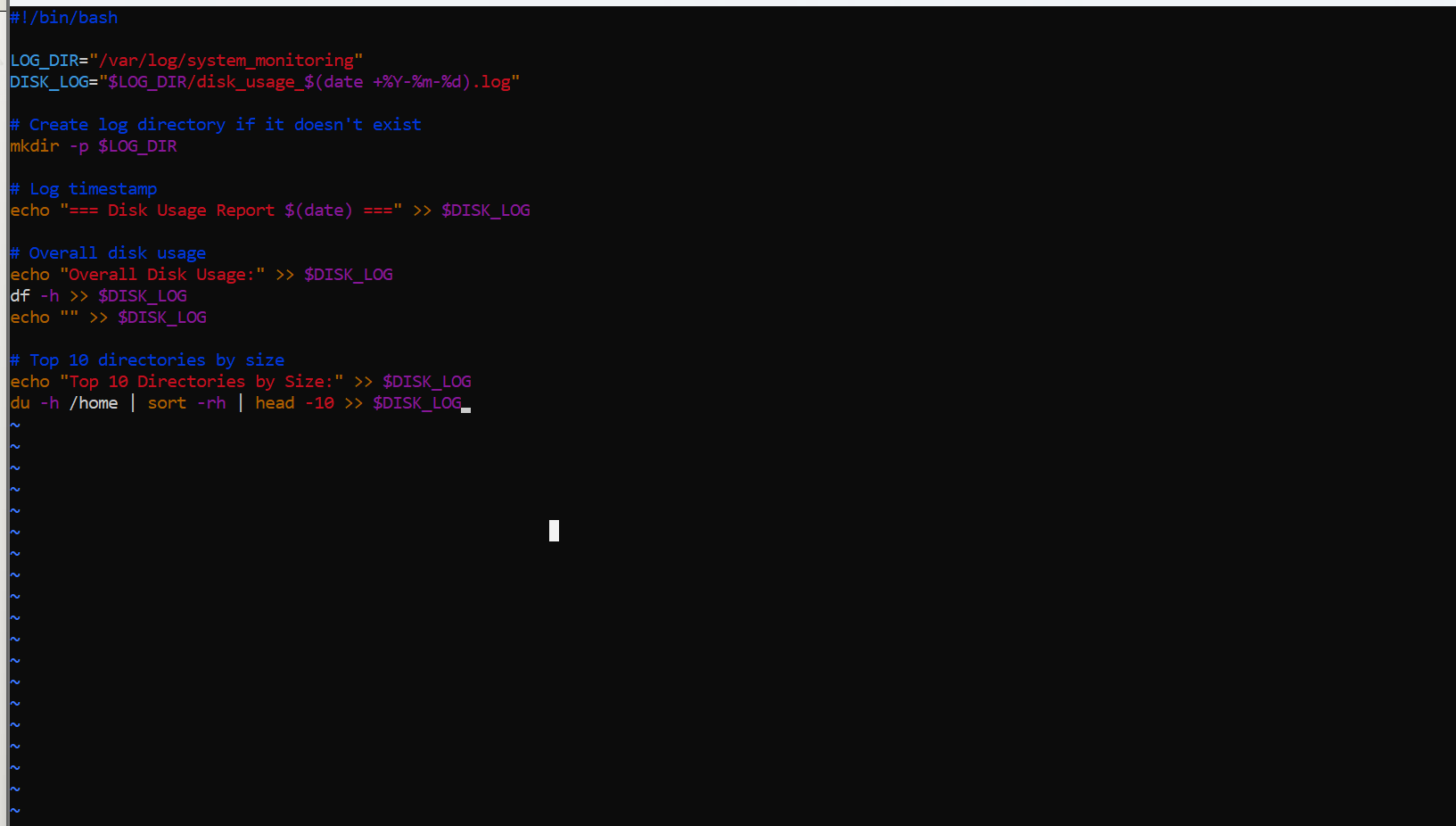
1. Create log directories and start monitoring disk usage:

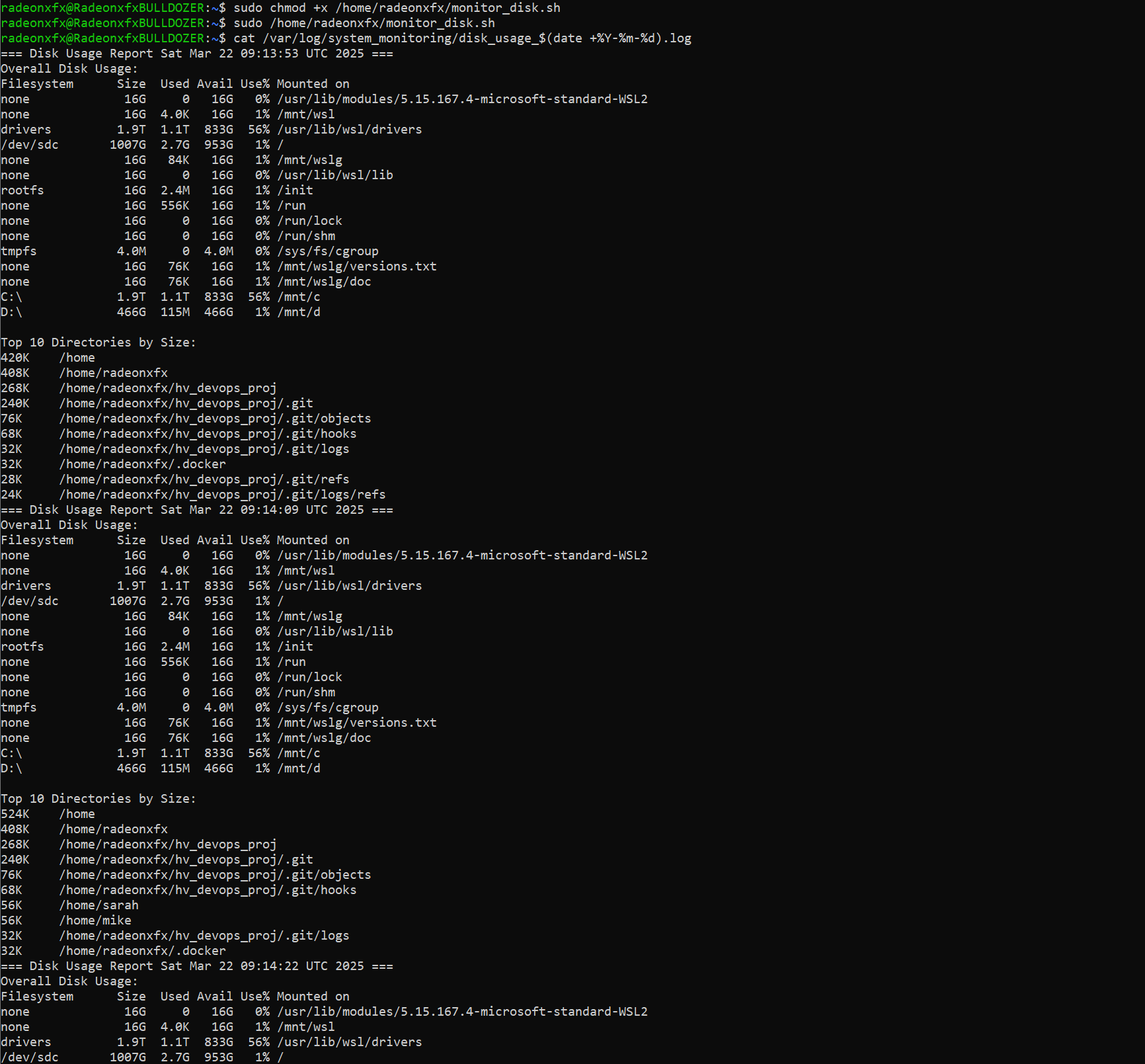




1. Create a disk monitoring script:

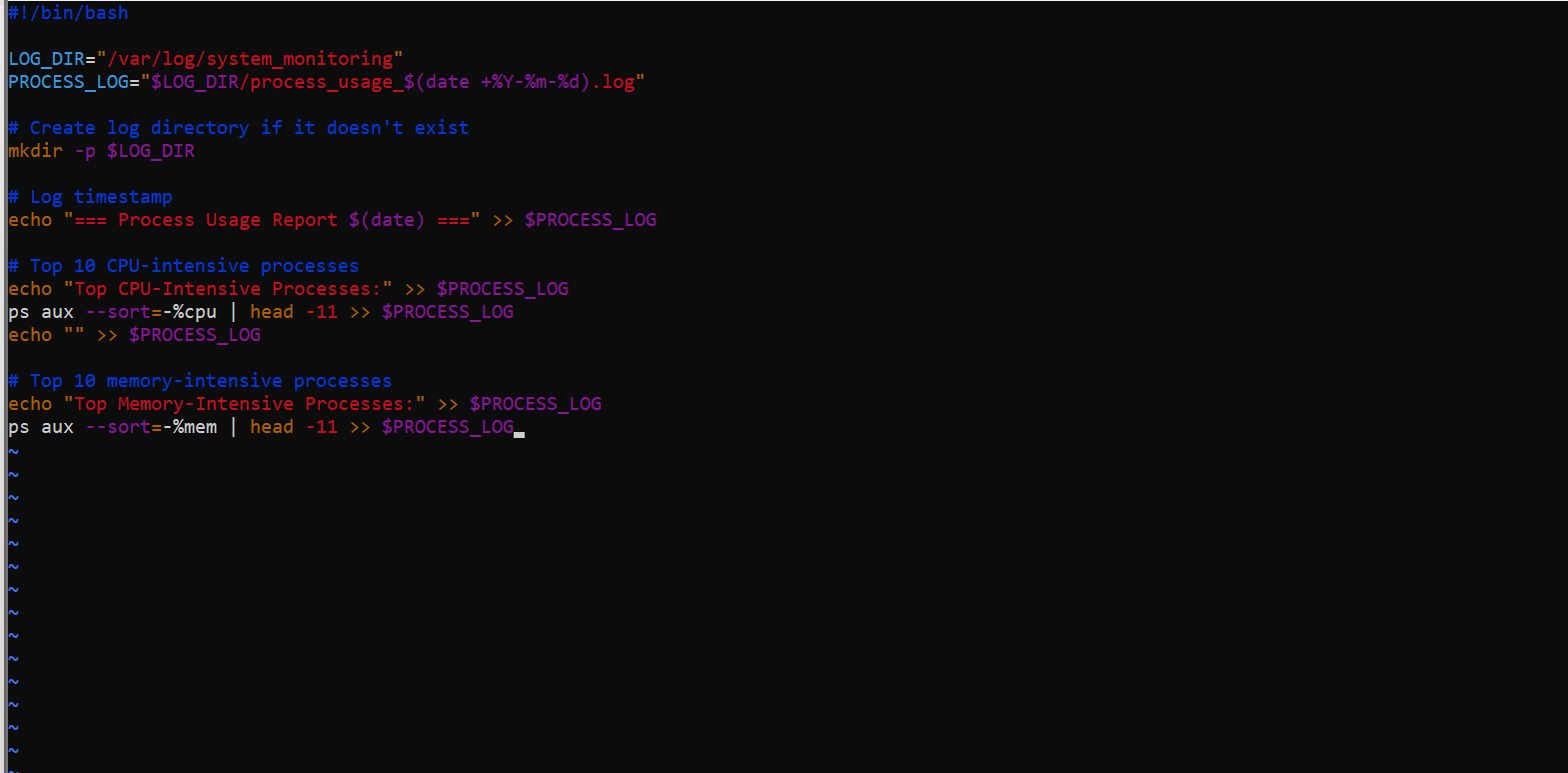
* I am usingbelow codefor creating a shell script **sudo vi /home/radeonxfx/monitor\_disk.sh**

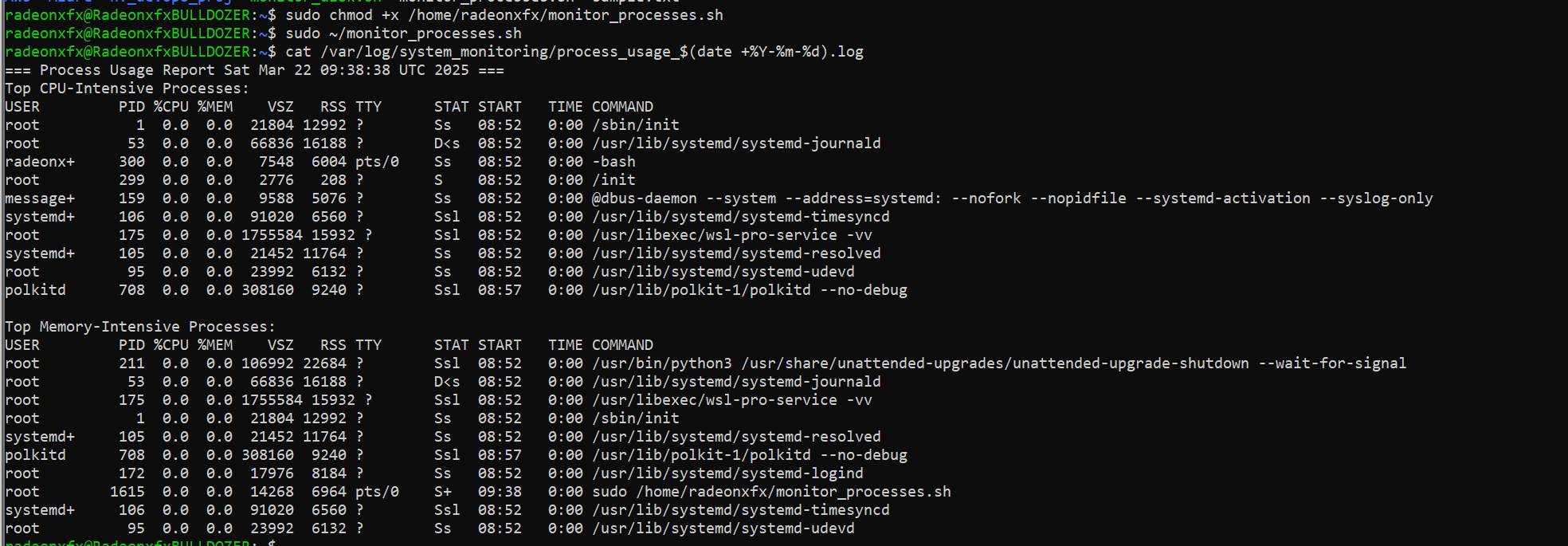
****

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1. Create a process monitoring script:

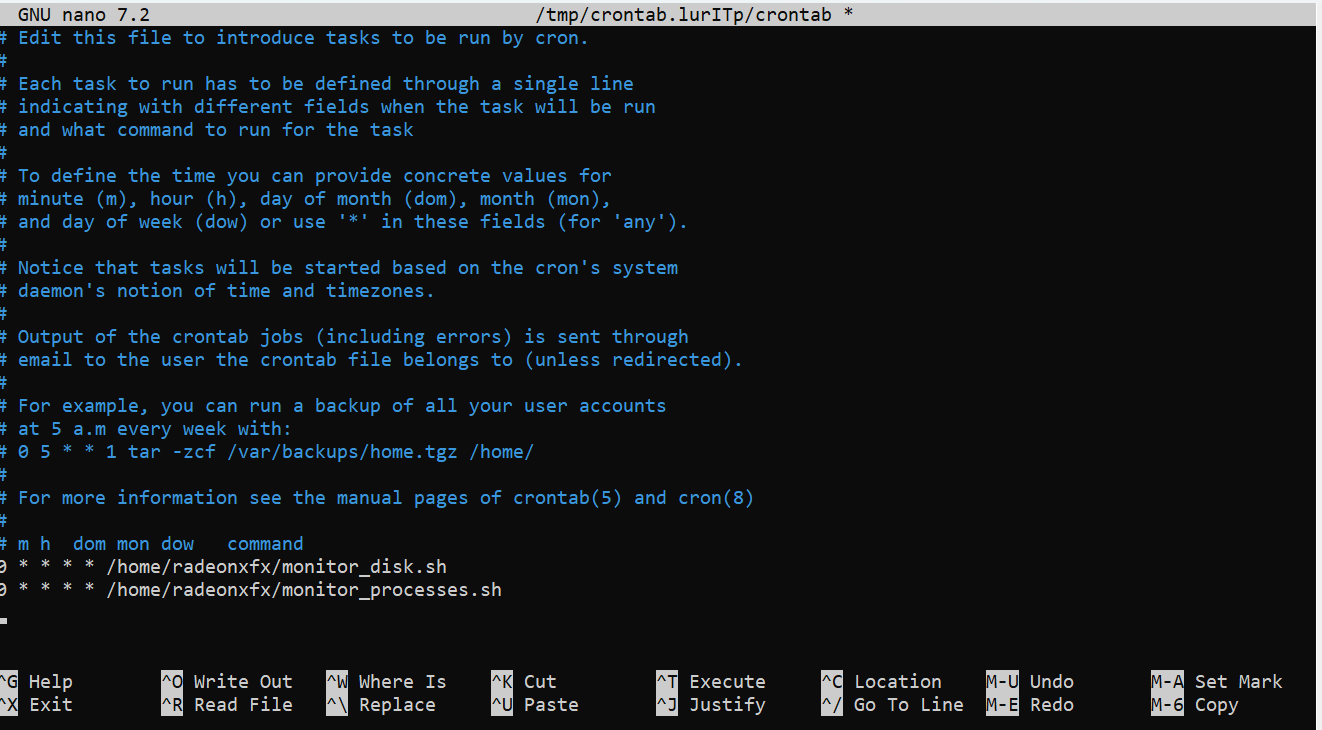
* I am usingbelow codefor creating a shell script:  
  **sudo vi ~/monitor\_processes.sh**





1. Schedule regular monitoring with cron:

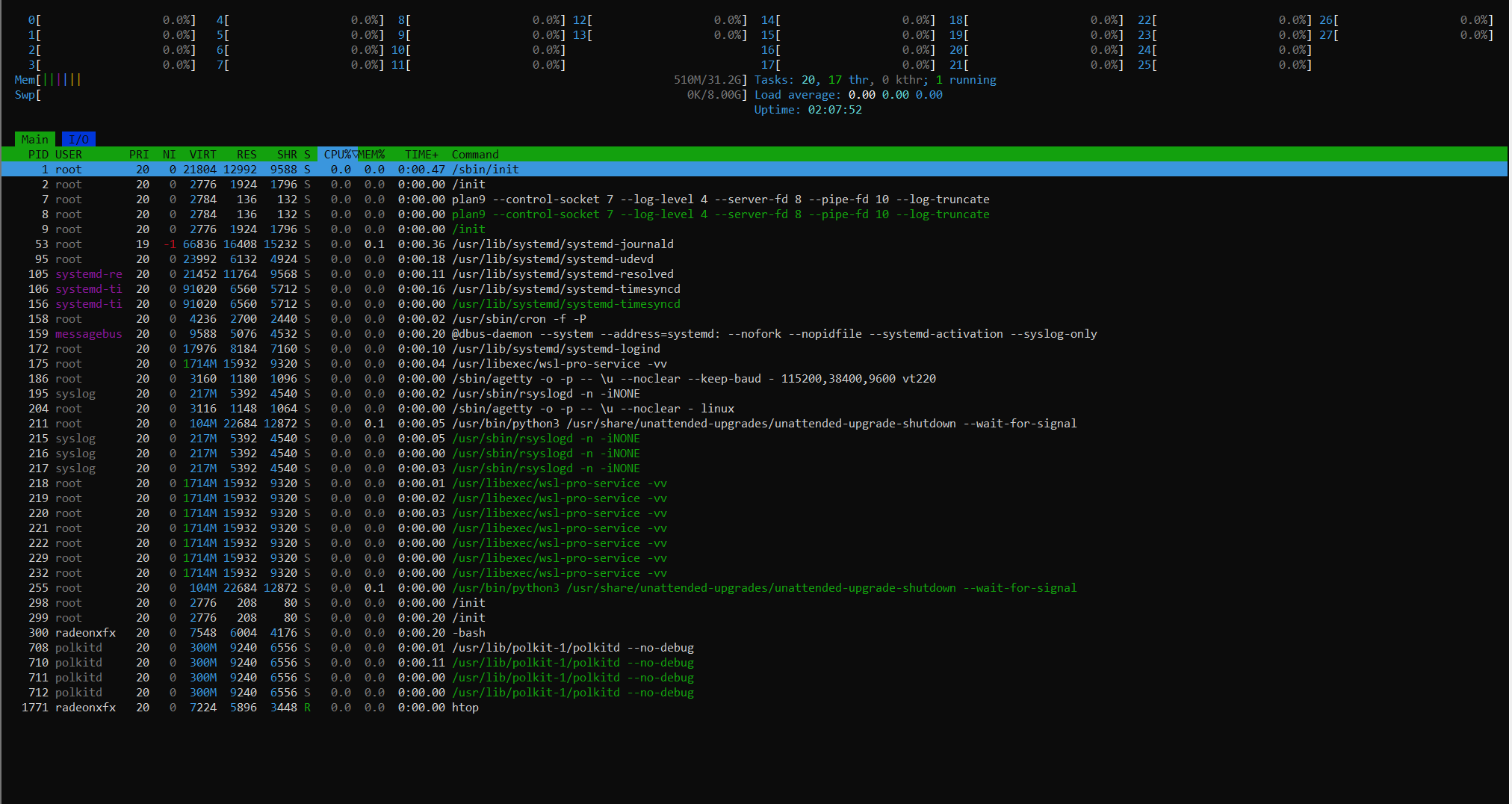
* I am adding these lines to run monitoring hourly:
* sudo crontab -e

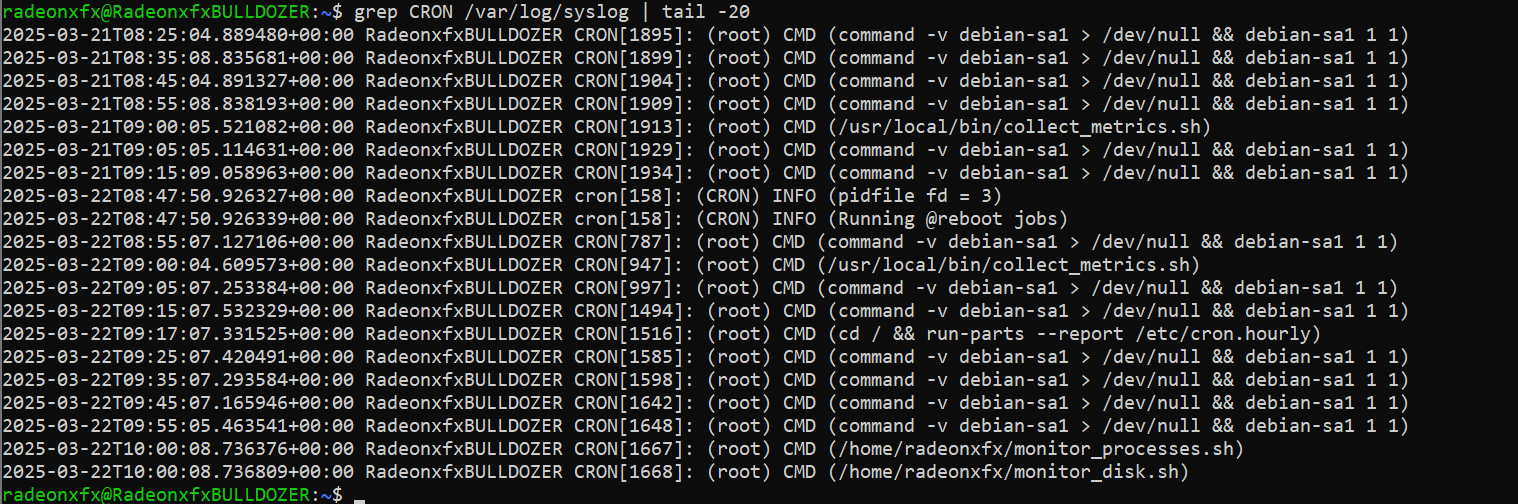


1. Validation:

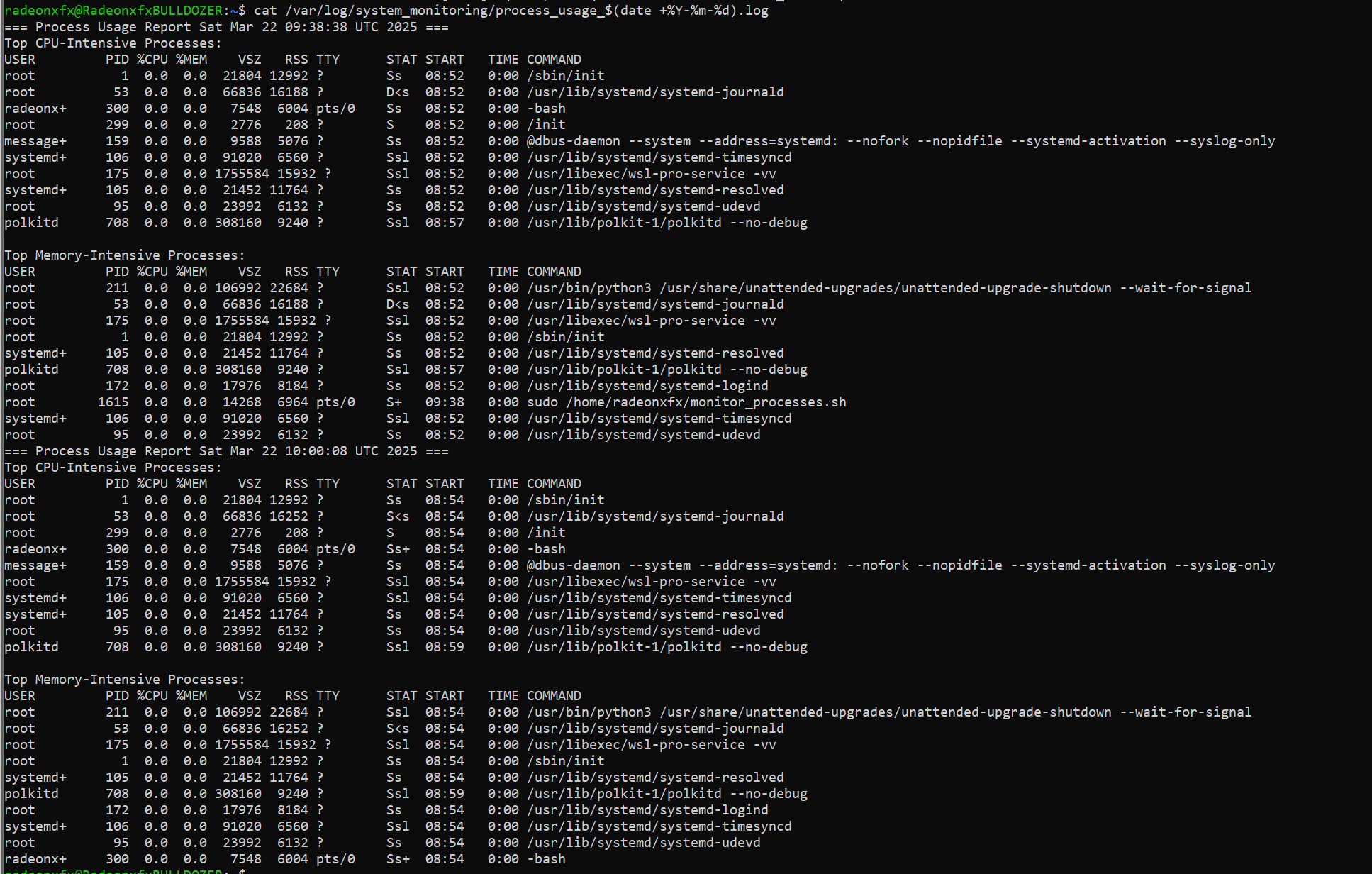
htop & mtop validation



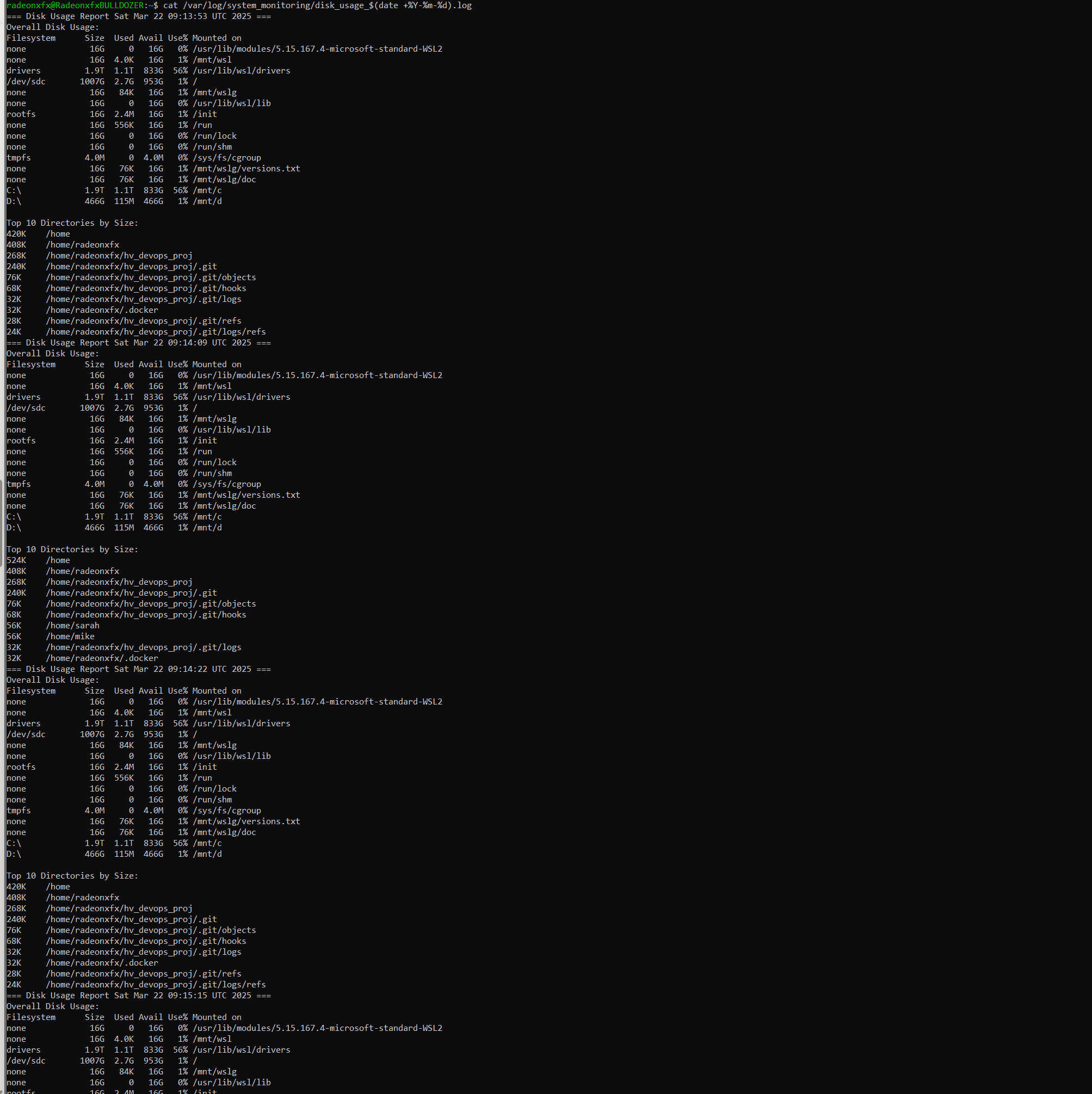


Crontab validation:  


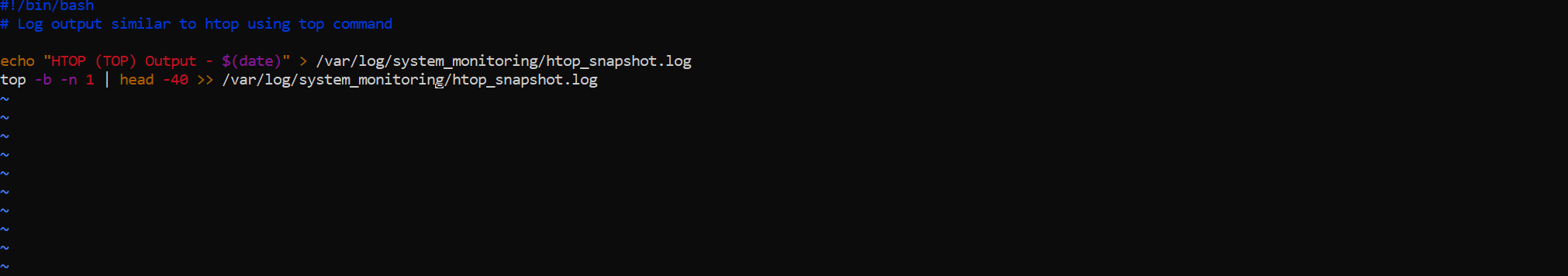
1. Process usage output:

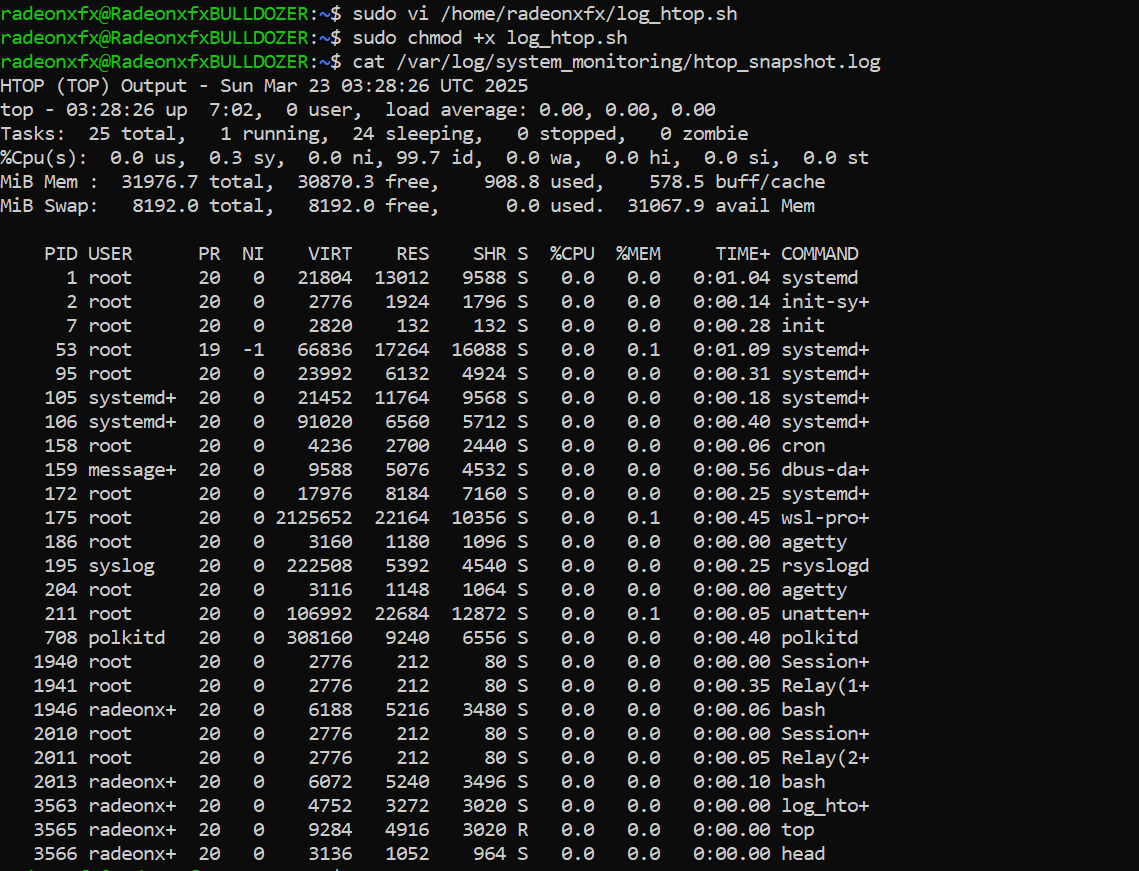


1. Disk Usage :



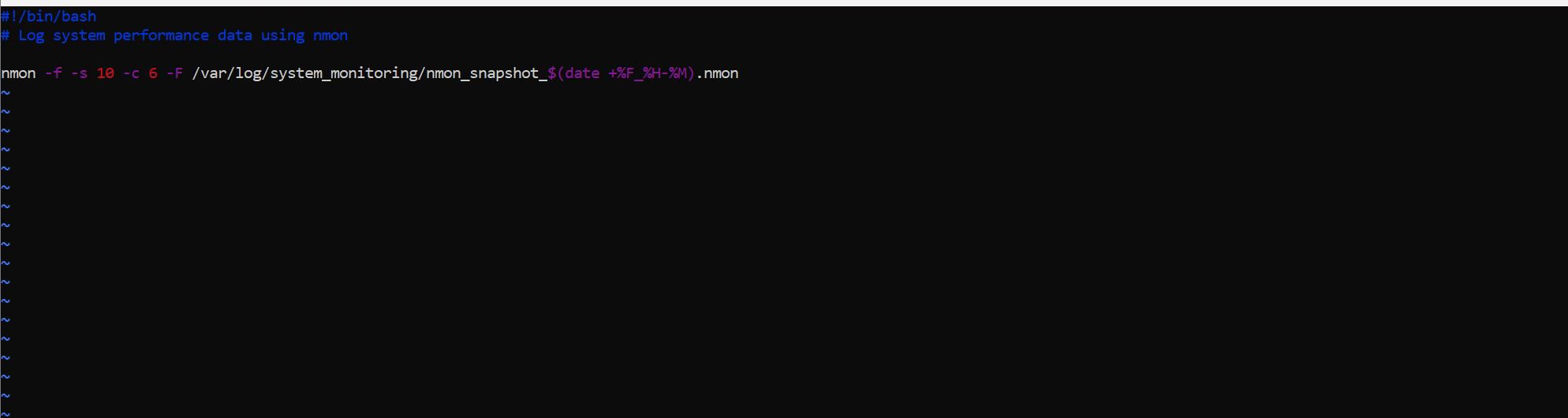
1. Htop snapshot and script:

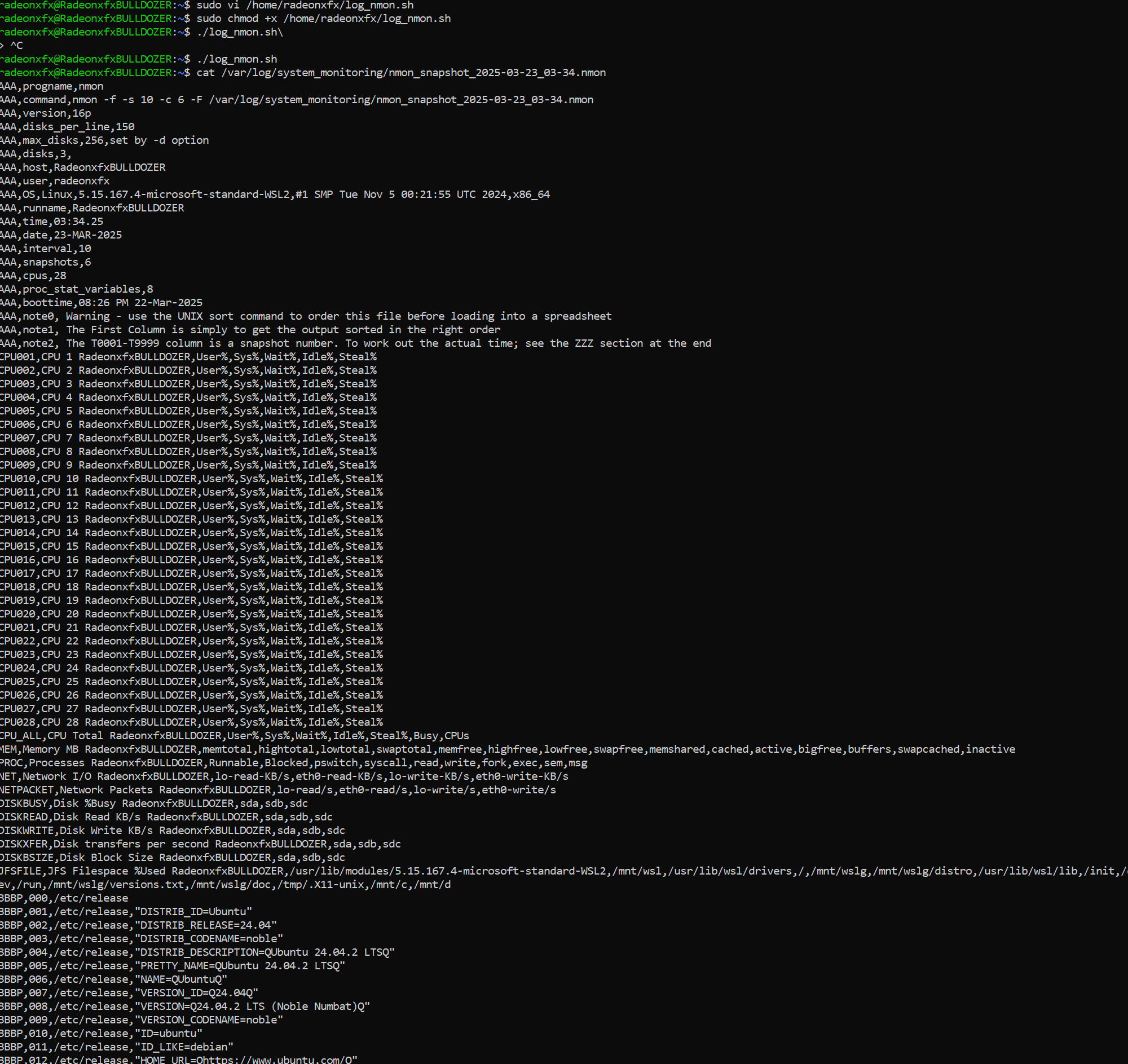
* Script htop snapshot: 

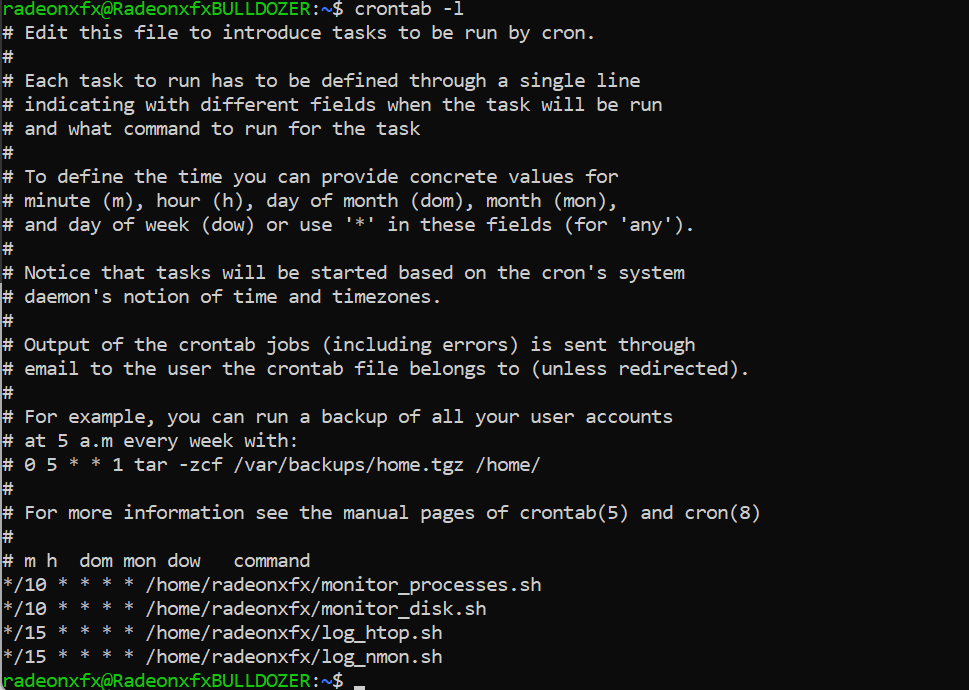


1. Nmon script and snapshot:

* Script:



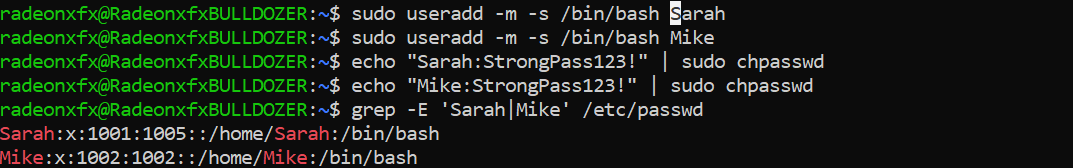


Crontab scheduled jobs :  


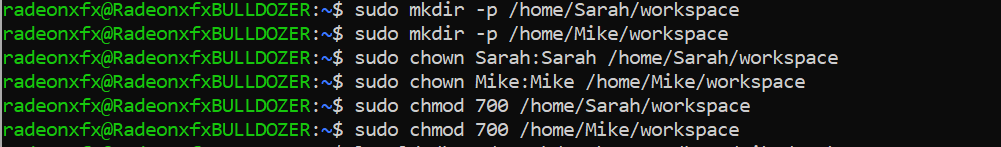
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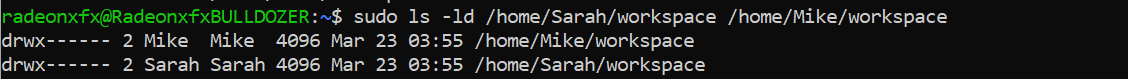
**TASK 2**

**Step 1: Create Fresh Users:**

****

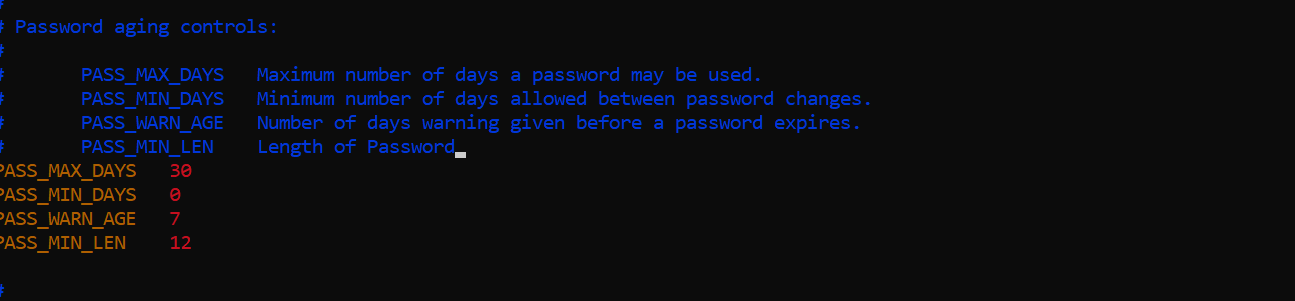
**Step 2: Create Isolated Workspaces**

****

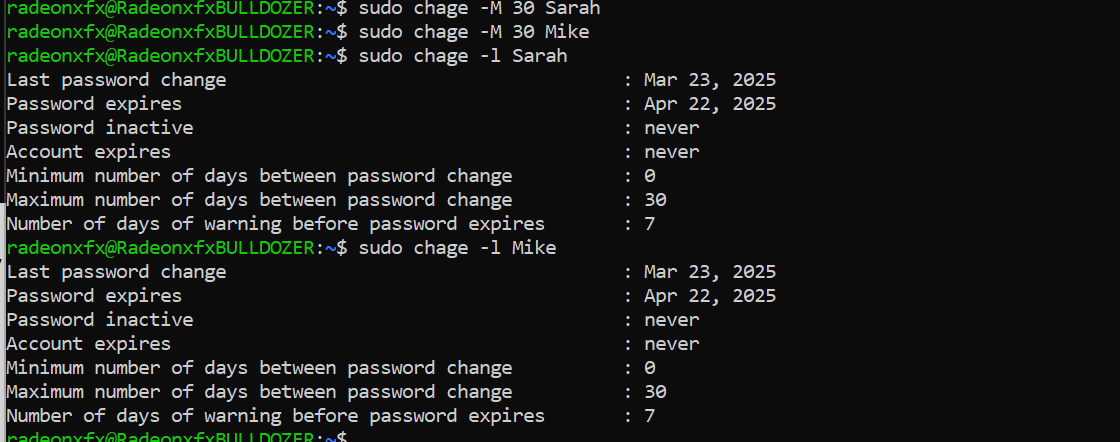
****

**Step 3.1: Enforce Password Expiry and Complexity Policy**

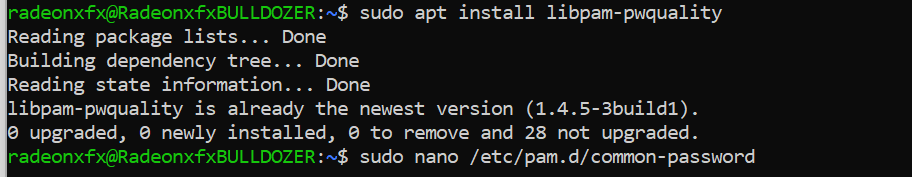
****

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**Step 3.2 Apply Expiry Policy to Users**

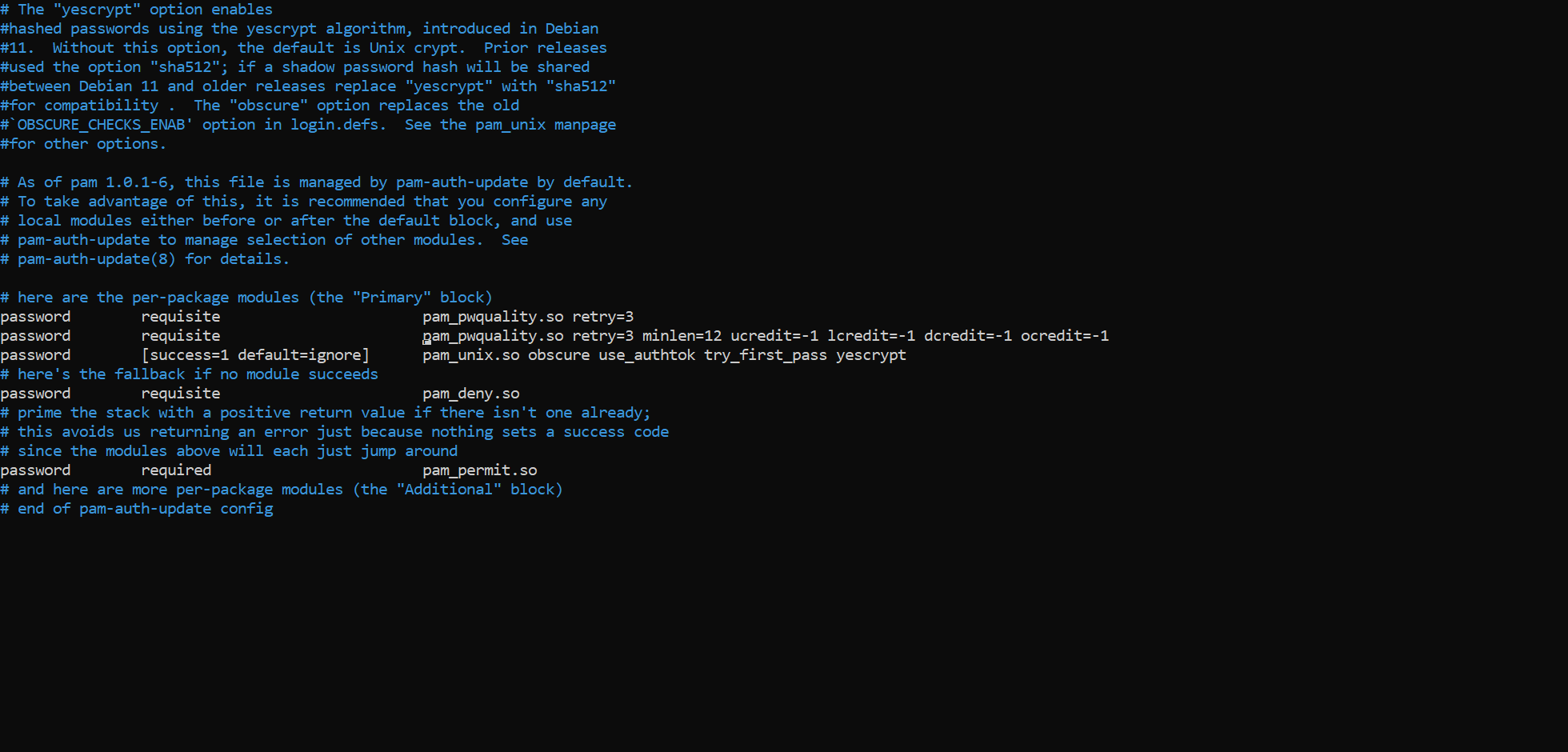
****

**Step 4 Enforce Strong Password Complexity**

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**Editing common-password:**

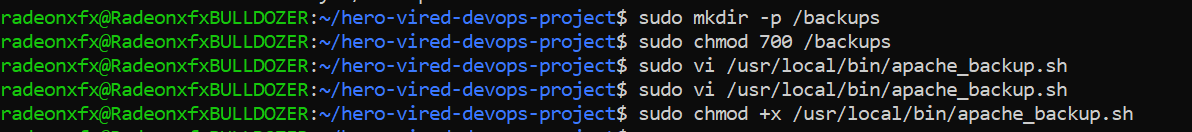
* **password requisite pam\_pwquality.so retry=3 minlen=12 ucredit=-1 lcredit=-1 dcredit=-1 ocredit=-1**

****

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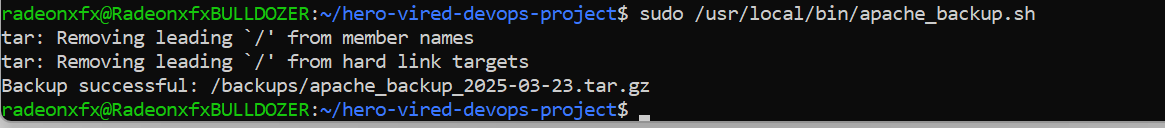
**TASK 3**

**Step 1(Sarah).1: Create /backups/ Directory:**

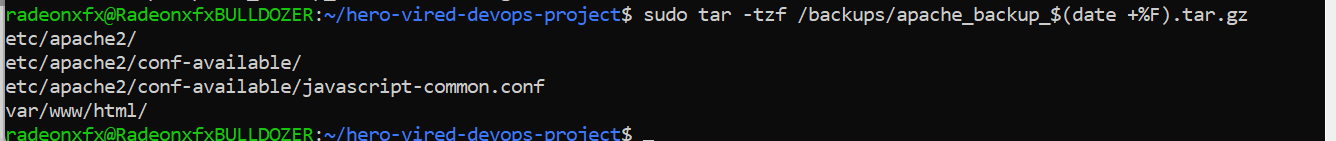
****

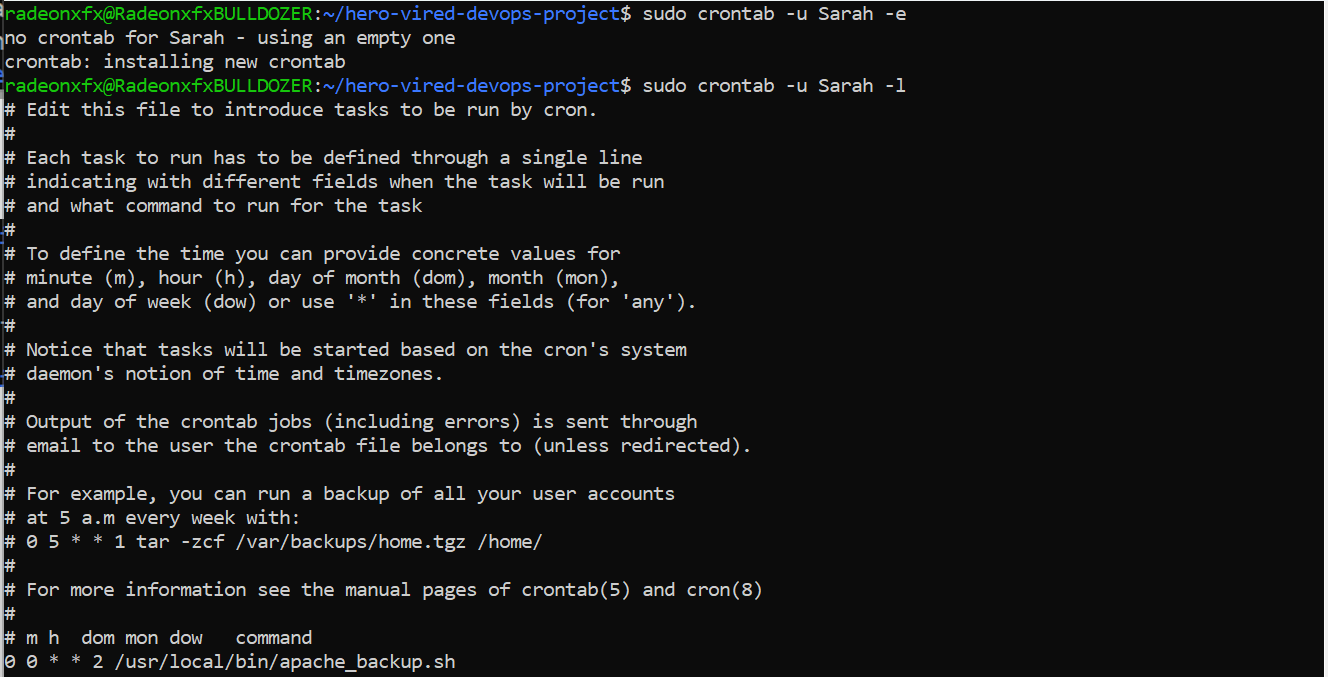
****

**1.2 Manually test the Script:**

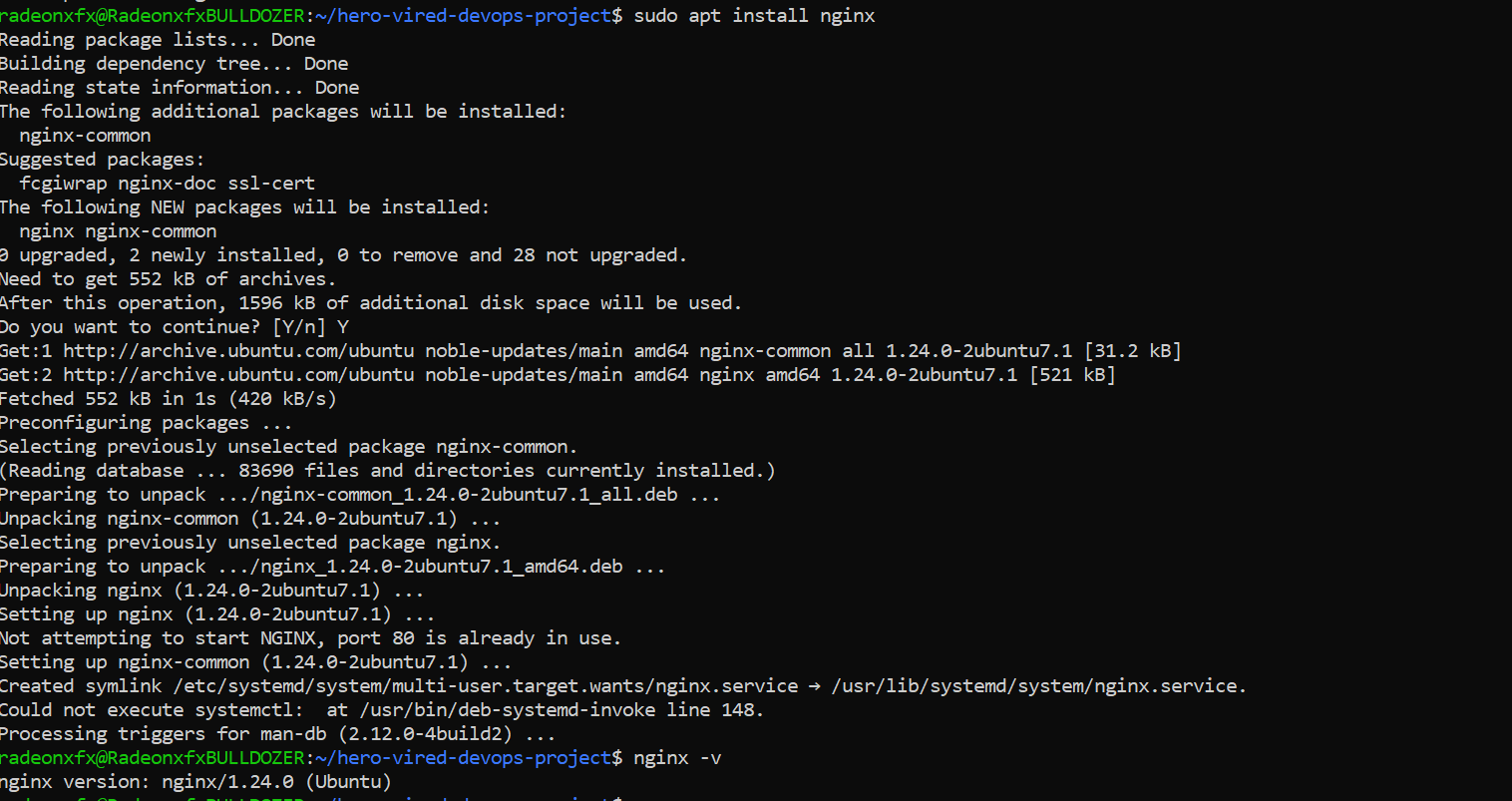
****

**1.3 Validate the backup:**

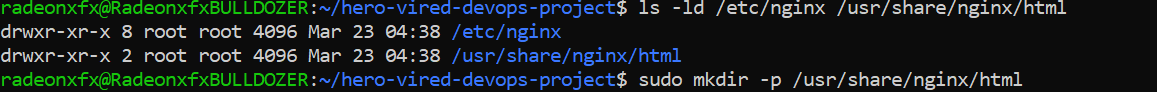
****

**Step 2 (Sarah). Automate With Crontab:  
**

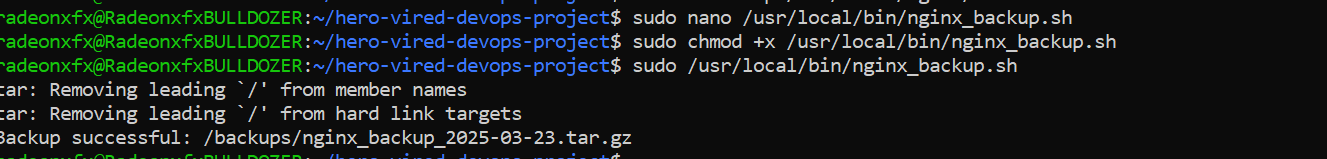
**Step 1 (Mike) : Confirm Nginx Is Installed**

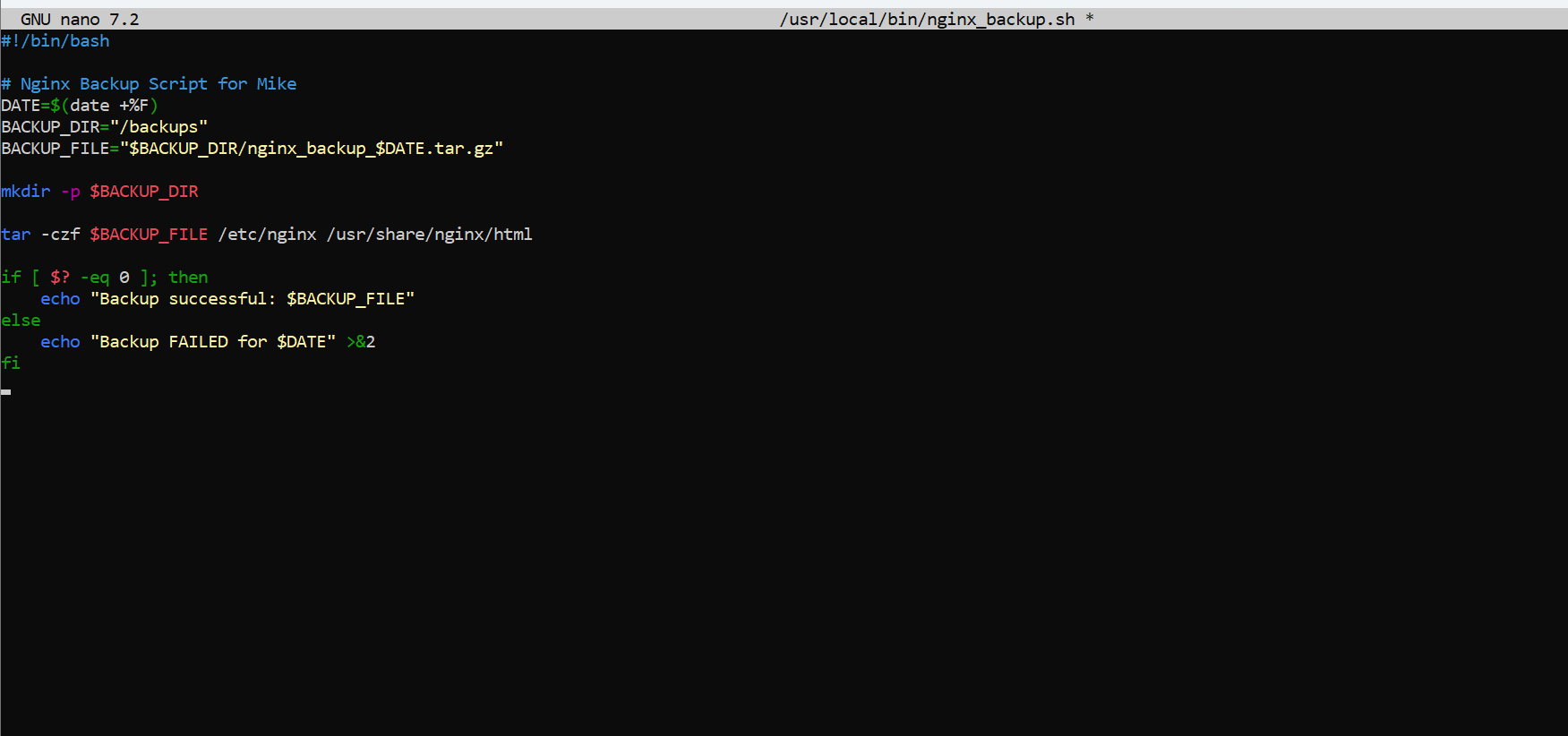
****

**Step 2 (Mike) : Check Nginx Directories**

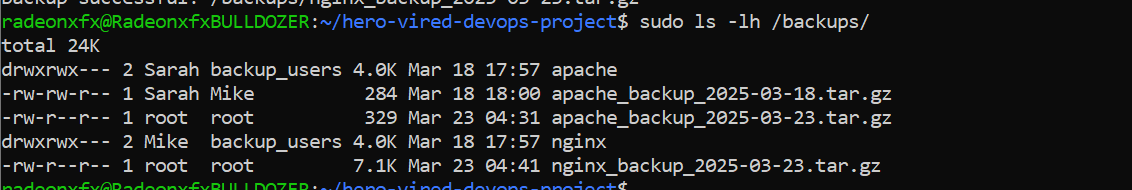
****

**Step 3 (Mike) : Create Nginx Backup Script for Mike**

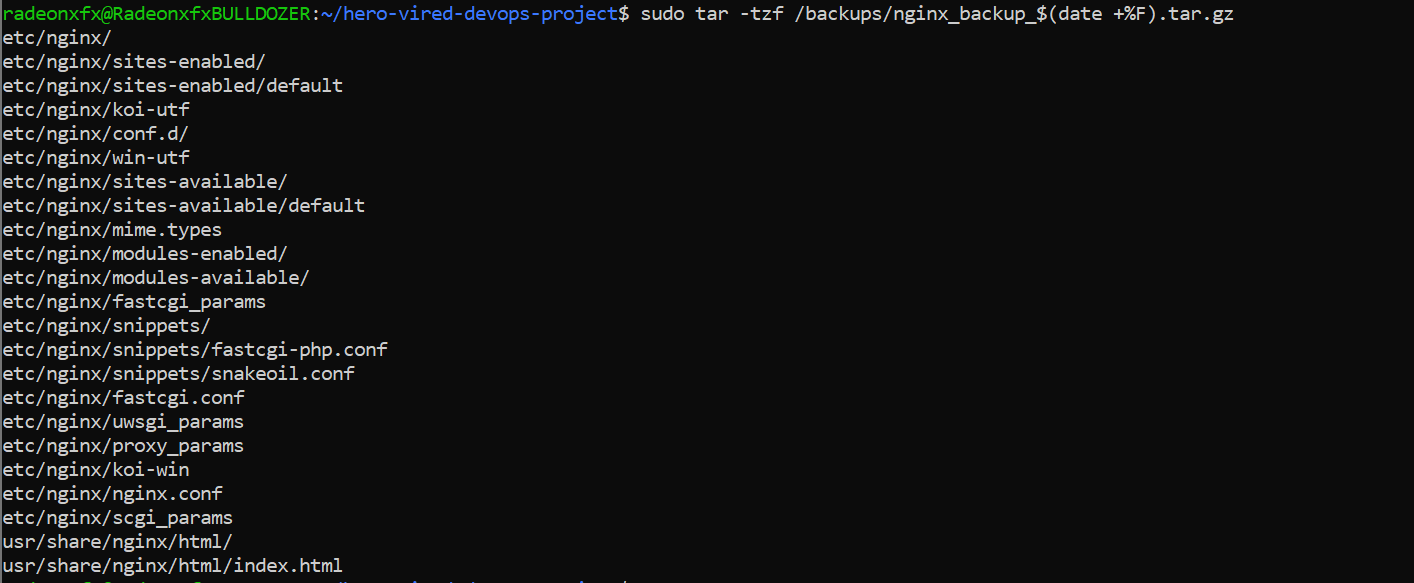
****

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* **Script Validation :**



**Step 5 (Mike) : Verify Backup Integrity:**



**Step 6 (Mike). Automate With Crontab:**