**RedHat System Administration**

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**Shenouda Nabil Lamei**

**RedHat Final Exam**

**Supervised by.**

**Eng / Romany Nageh**

**1- Configure the network**

**a) Assign Hostname and Ip address for your virtual machine.**

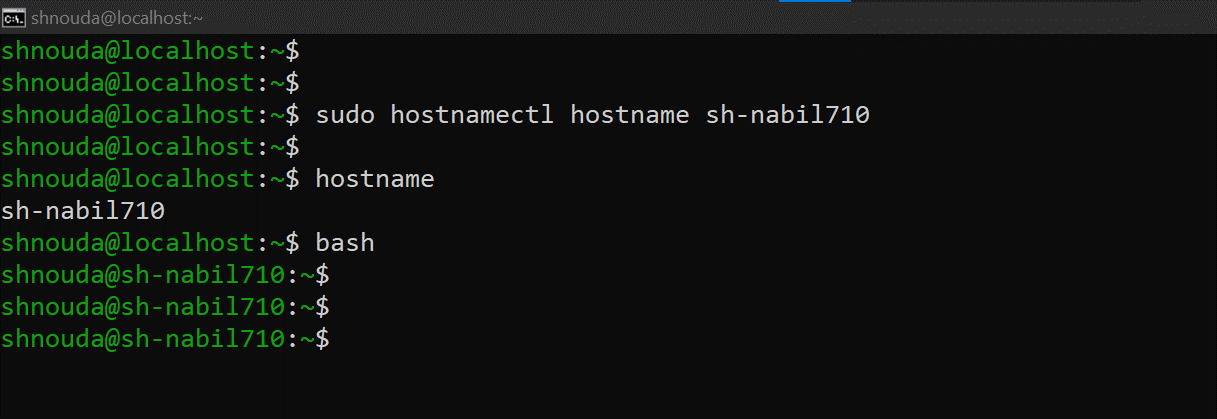
**Hostname sh-nabil710**

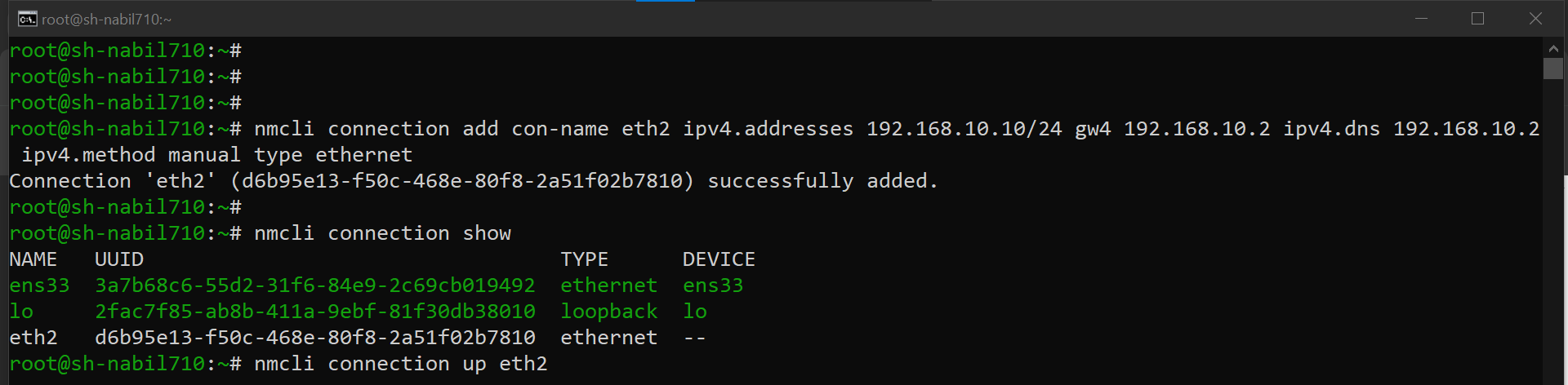
**IP Address 192.168.10.10**

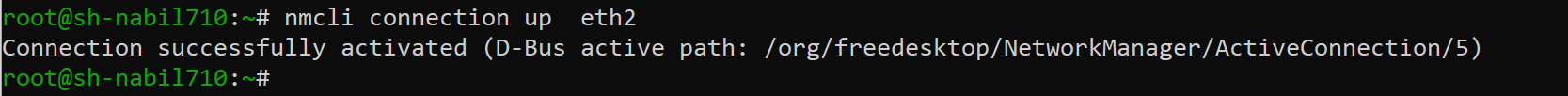
**Net-mask: 255.255.255.0**

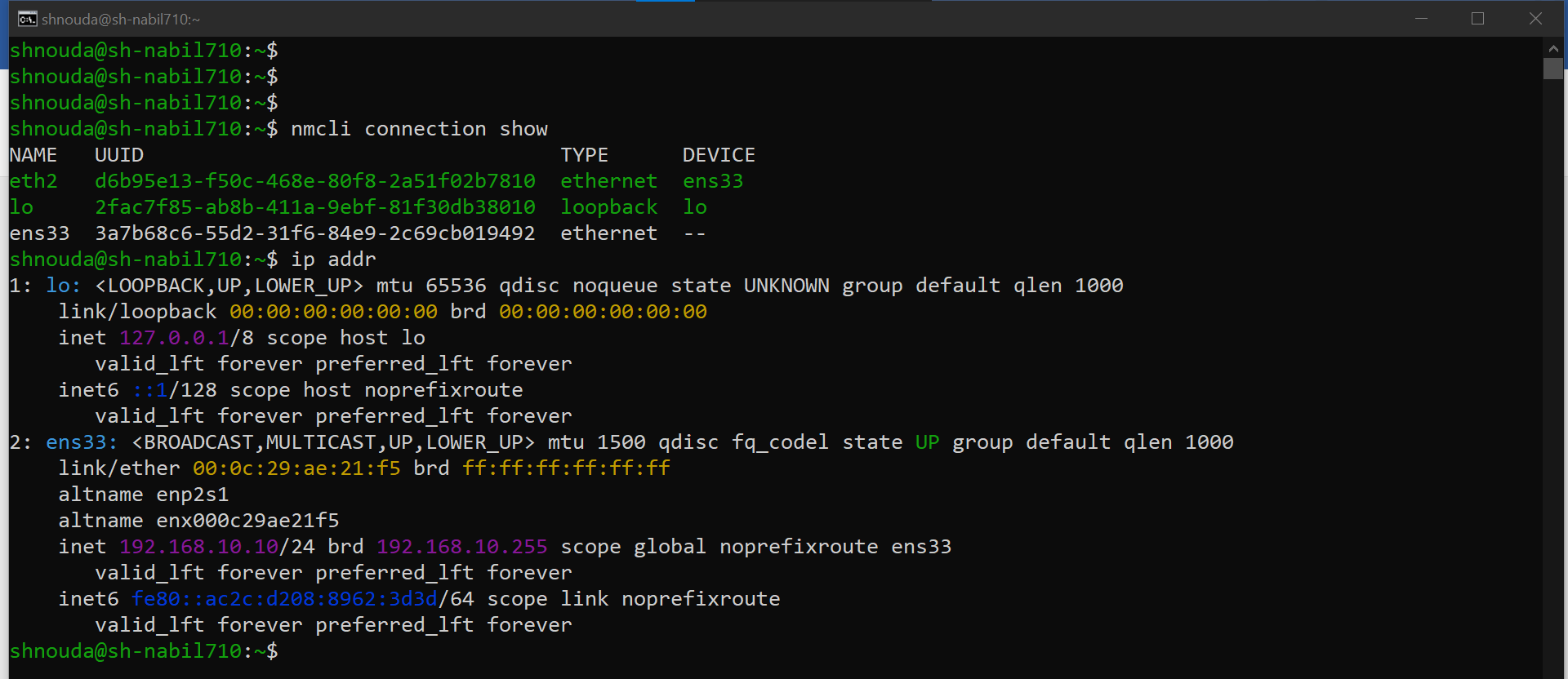
**Gateway: 192.168.10.2**

**Name-server 192.168.10.2**

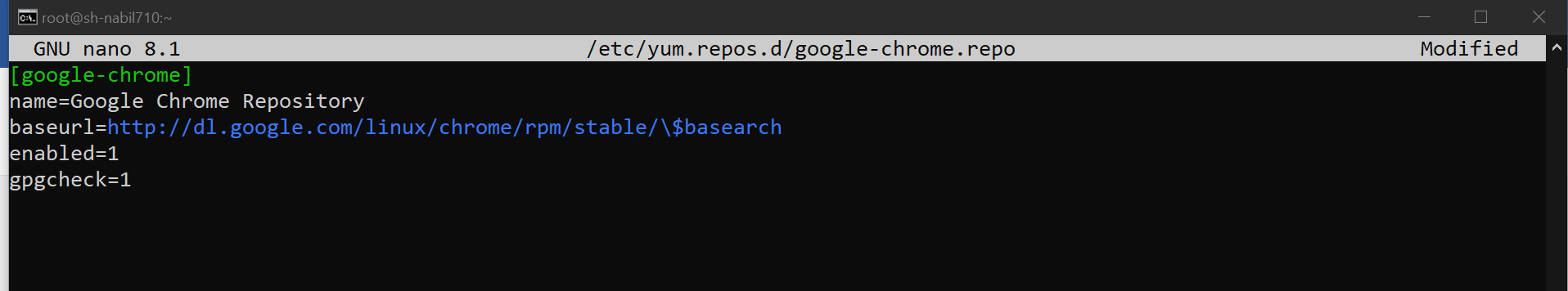


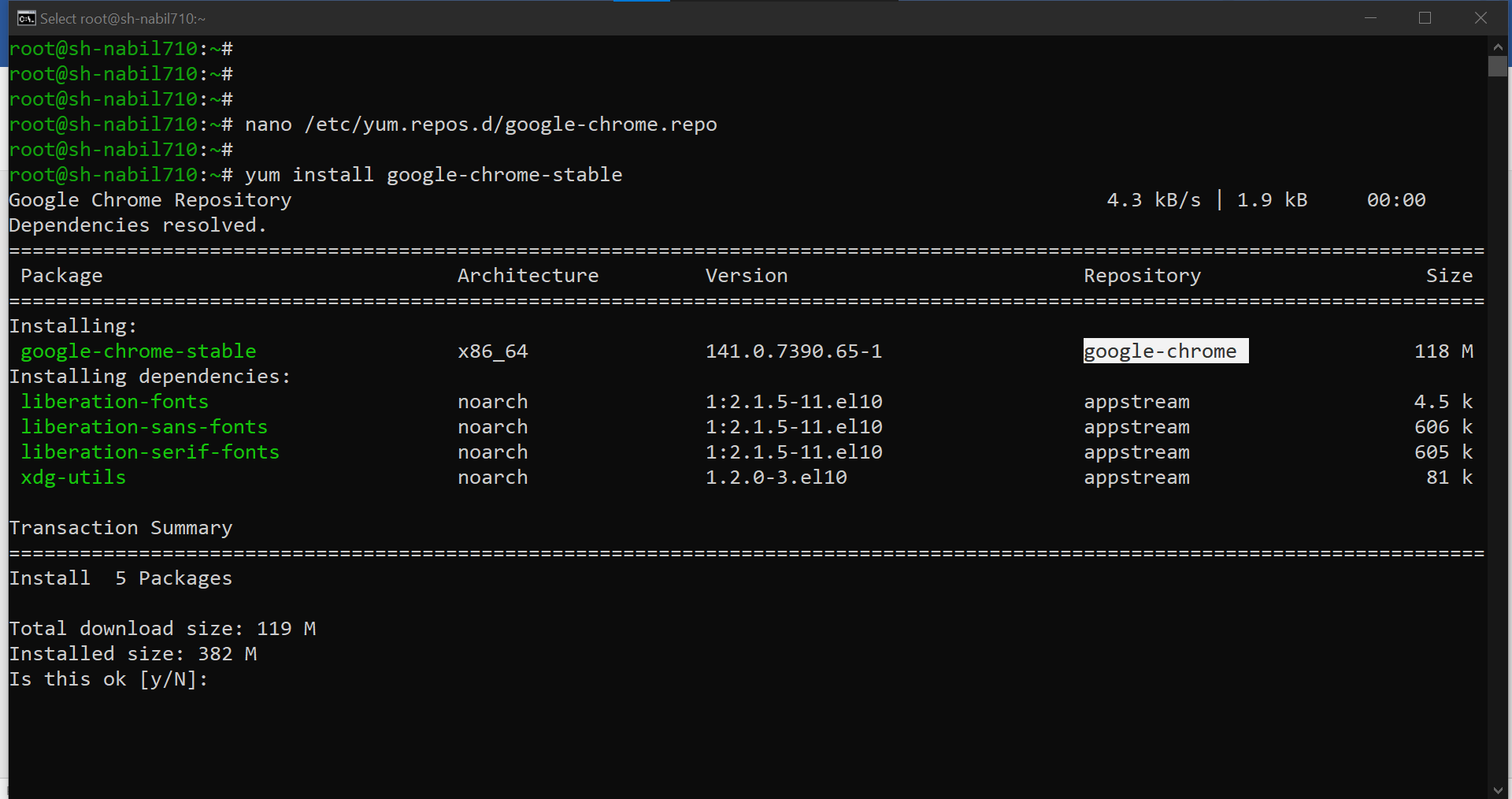
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**2- Create a repository file 🡪 Create a repository file**

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**Configure the Selinux**

**The webserver is running on non-stardard port 82 having a issue serve the web content. Debug**

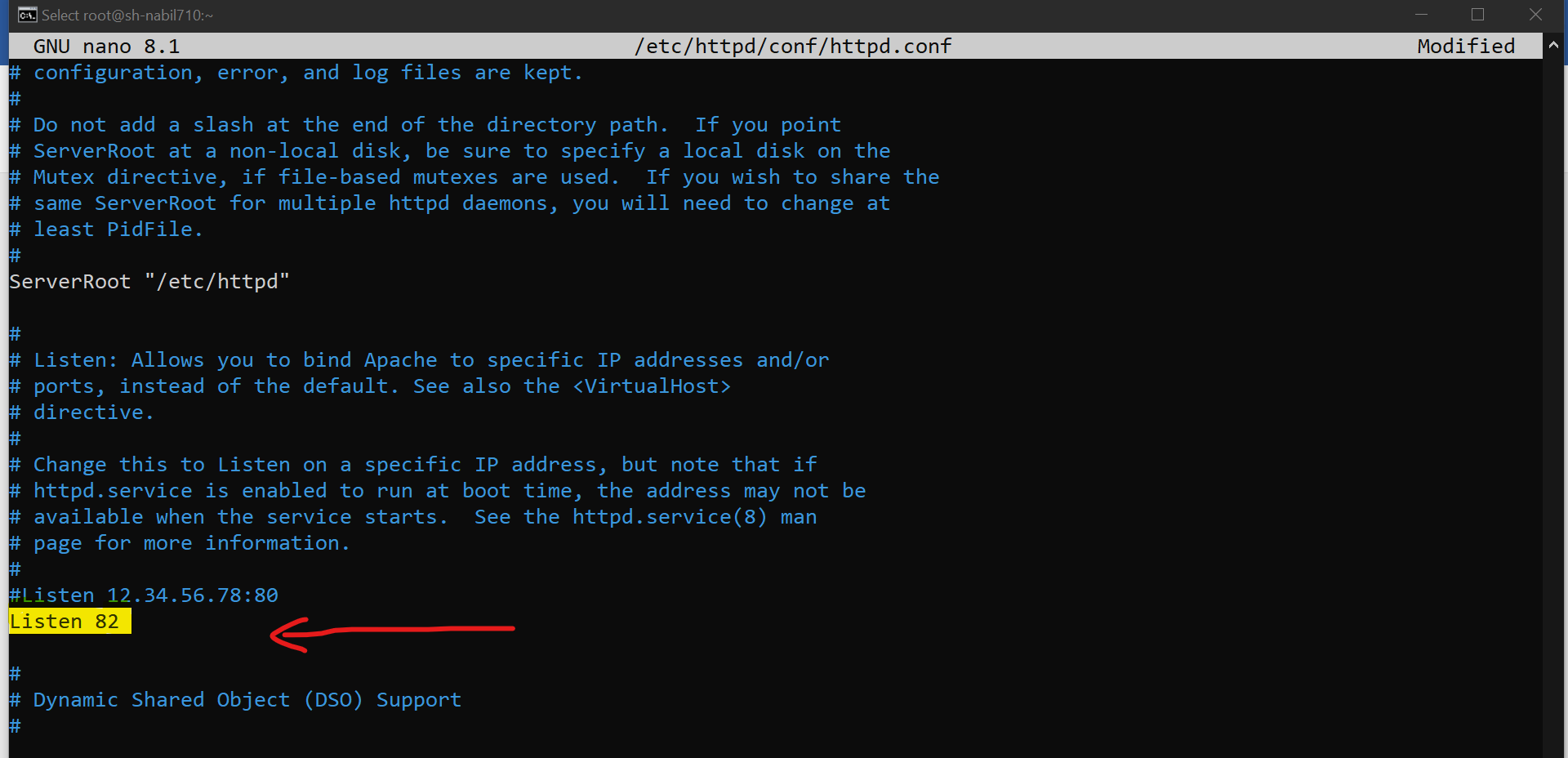
**and fix the issue:**

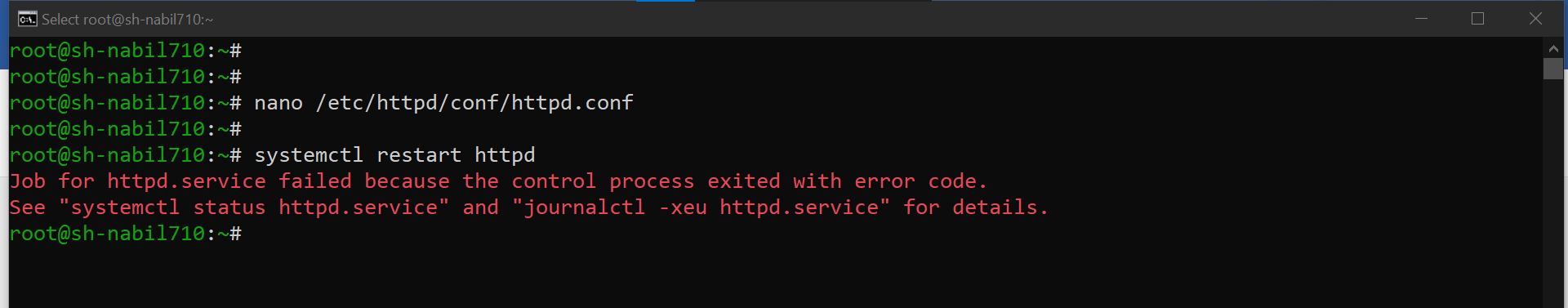
**a) The webserver can serve all the existing HTML file located at /var/www/html directory**

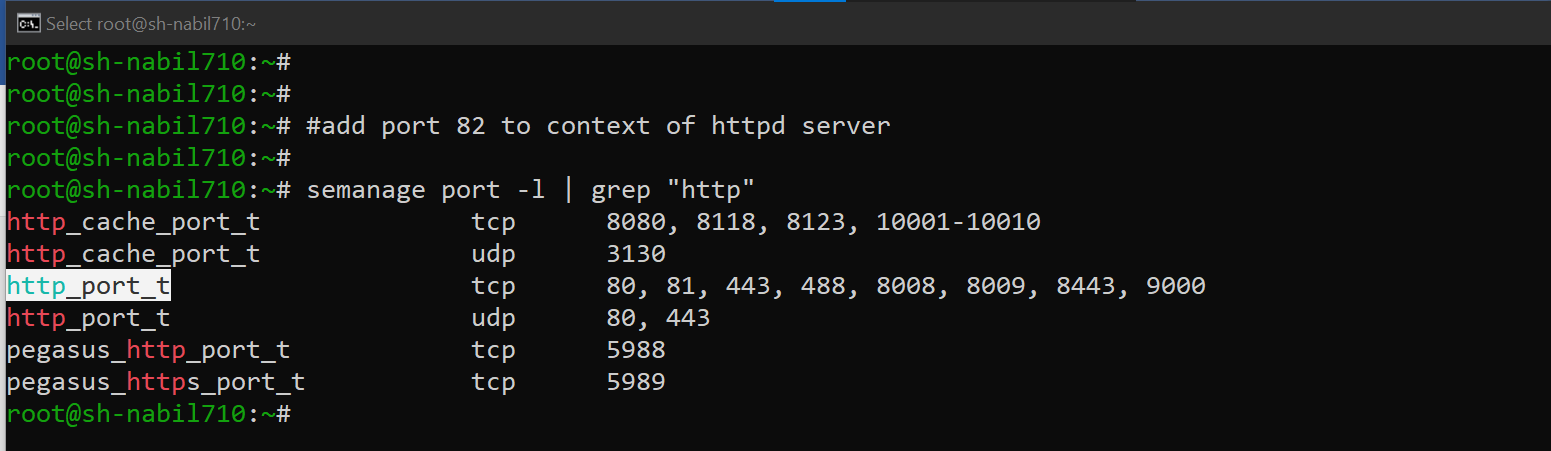
**(Don't alter or remove any files in this directory)**

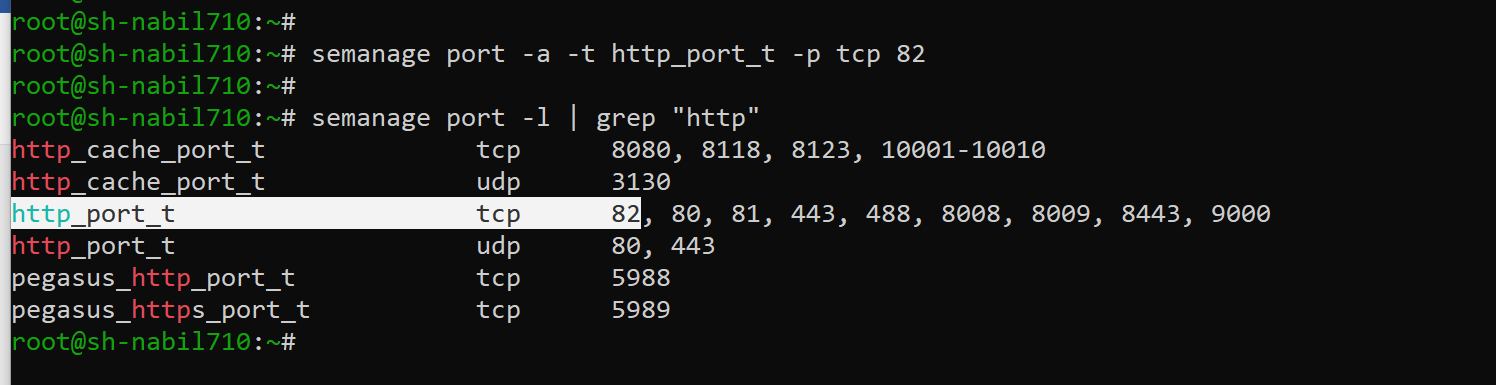
**b) The webserver can serve the content on port 82.**

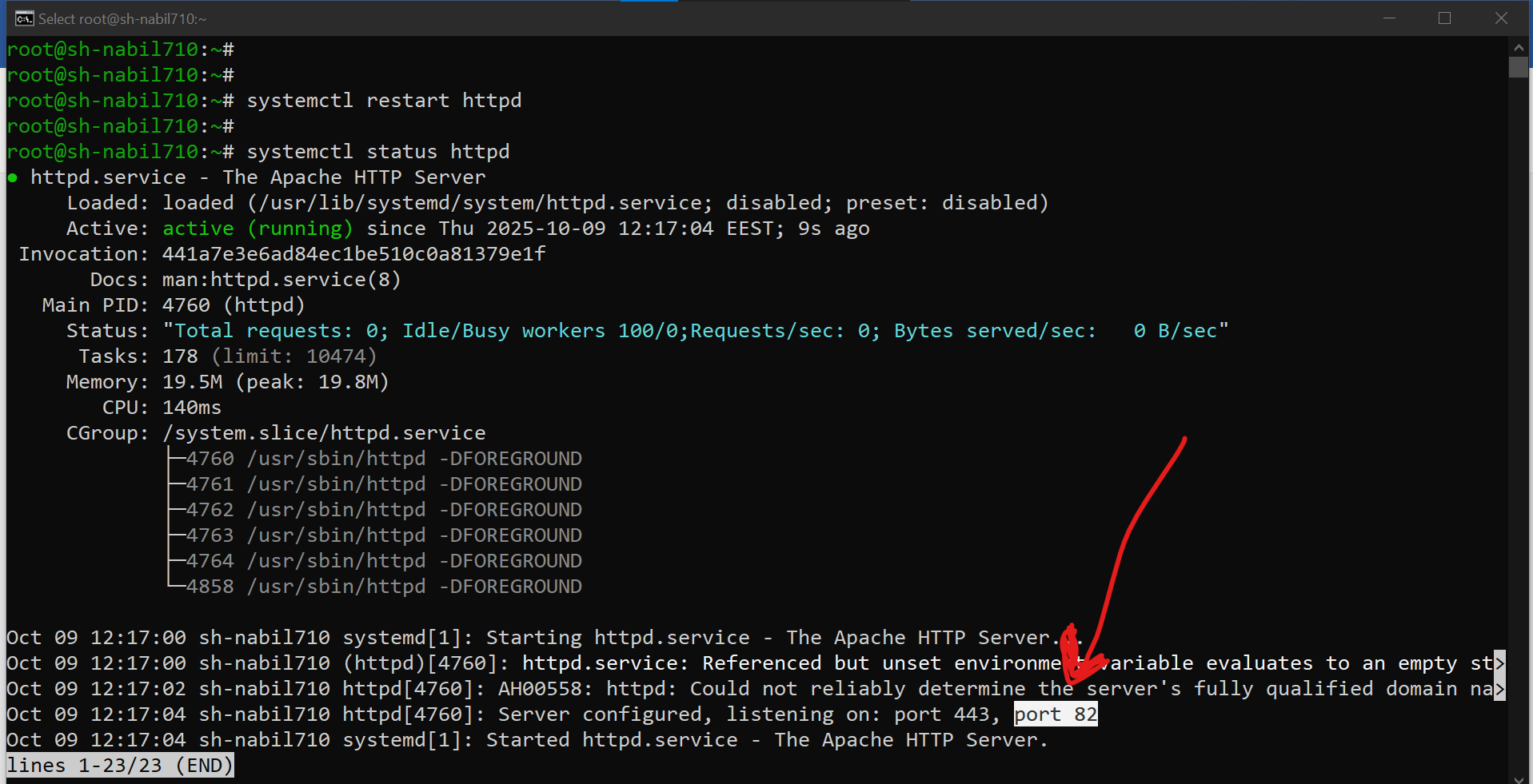
**c) Make the content accessible.**

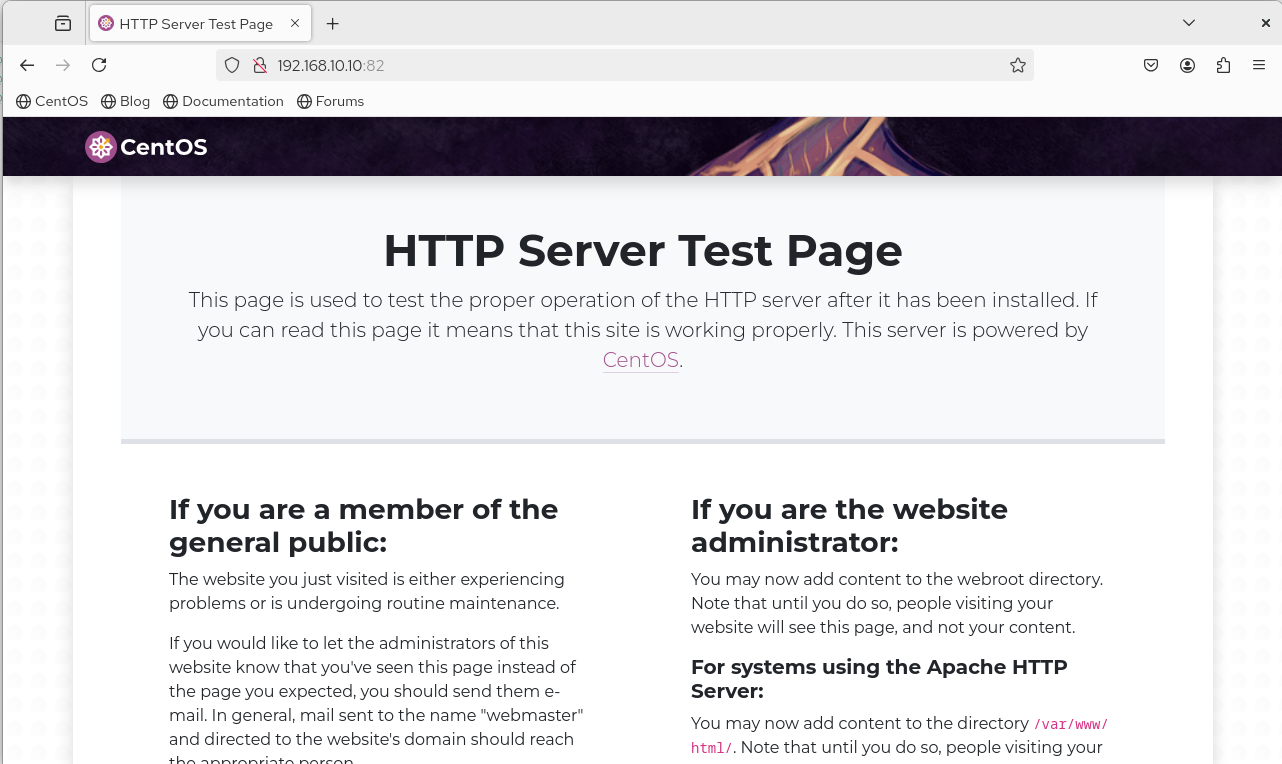
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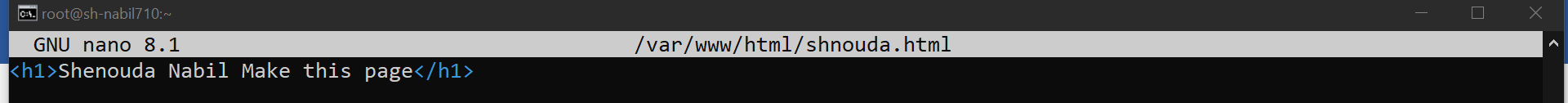
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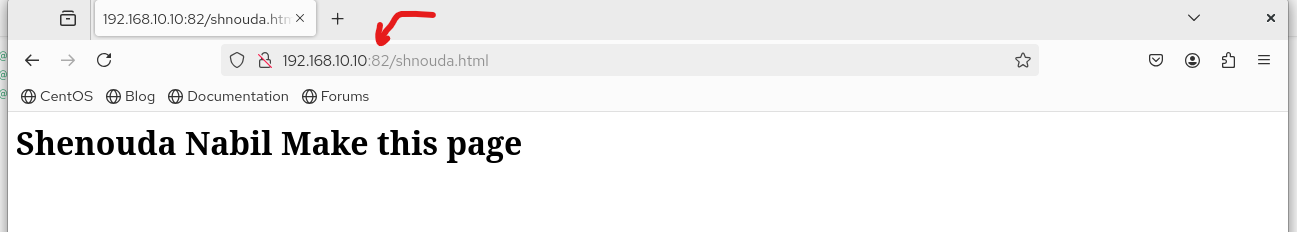
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* **I will make my page under /var/www/html .**

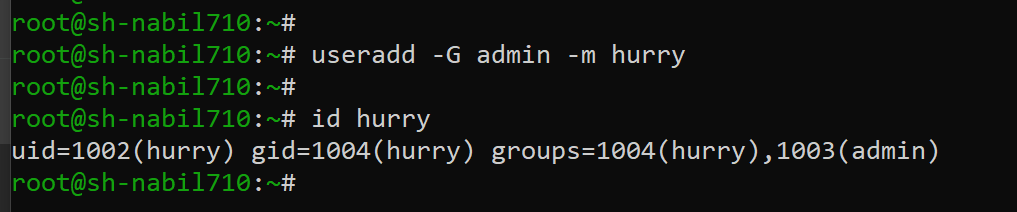
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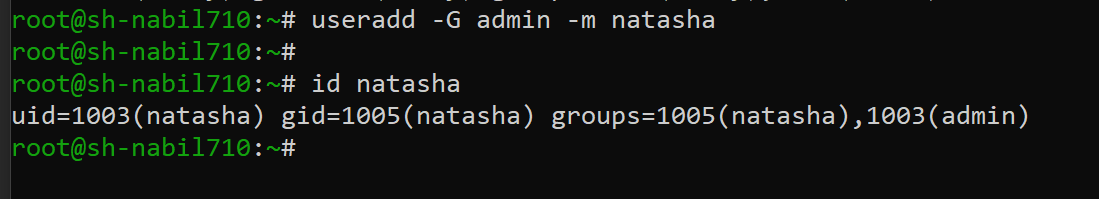
**4. Create the following users, groups and group memberships:** **a) A group named admin.**

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**b) A user harry who belongs to admin as a secondary group.**

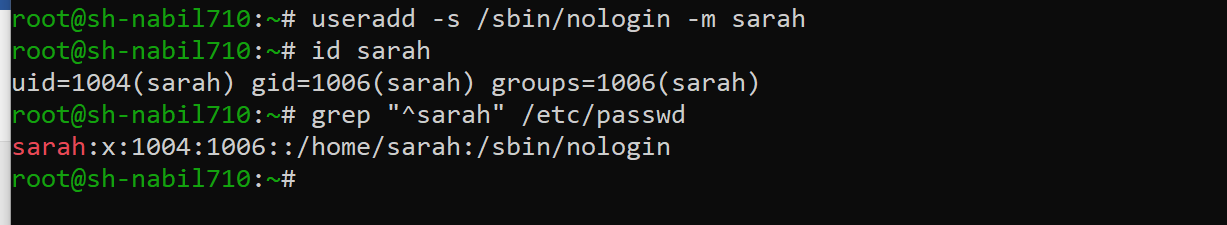
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**c) A user natasha who belongs to admin as a secondary group.**

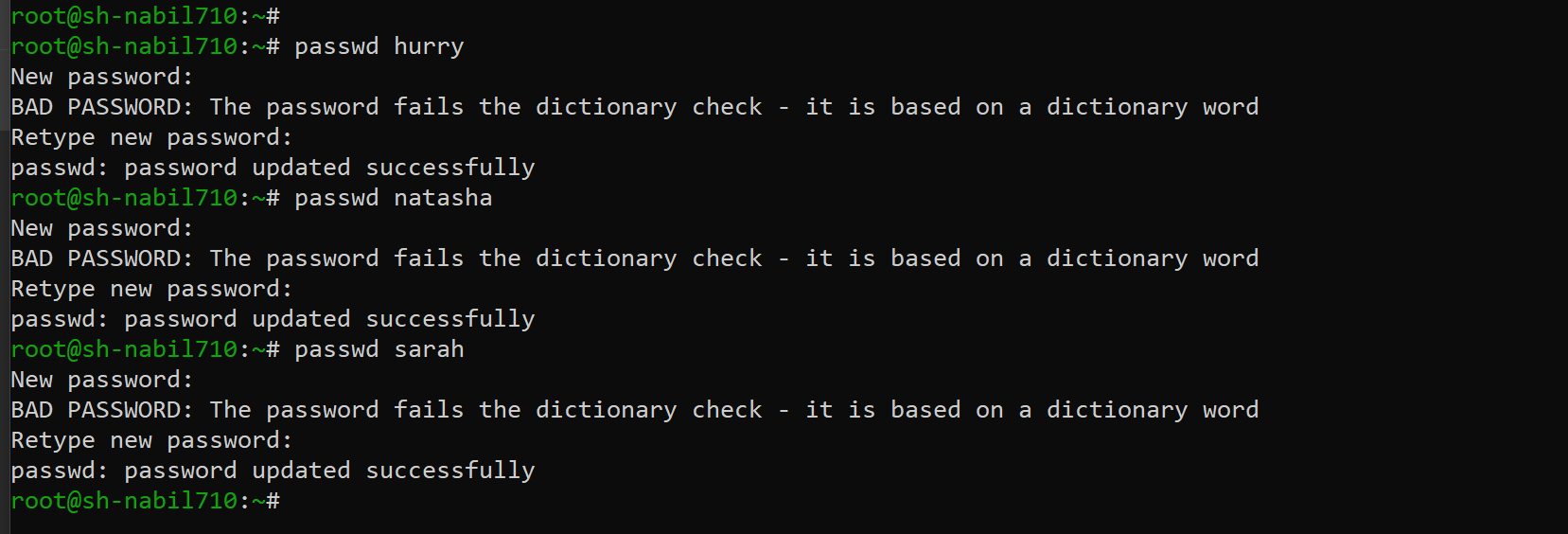
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**d) A user sarah who does not have access to an interactive shell on the**

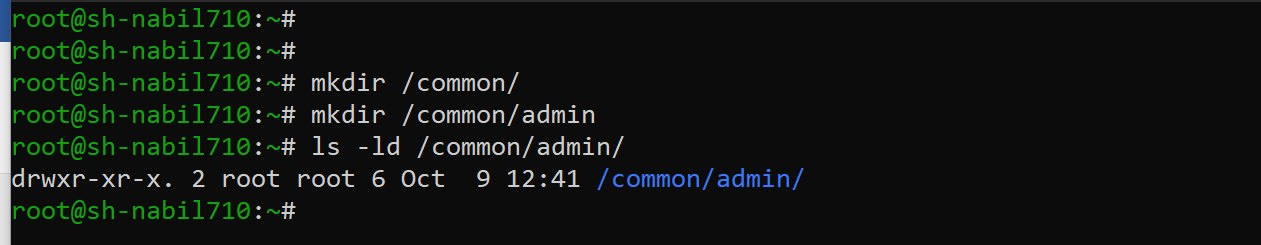
**system and who is not member of admin.**

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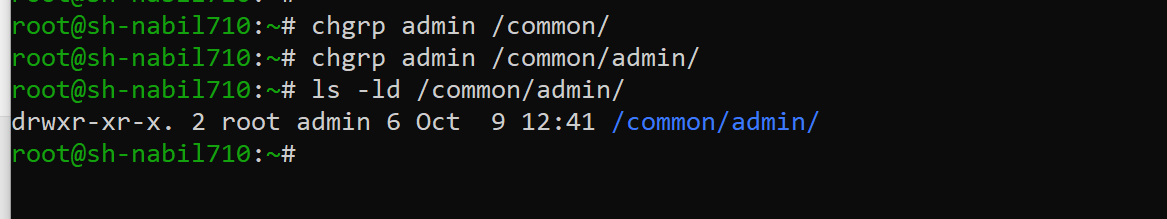
**e) harry, natasha and sarah should have password of password.**

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**5. Create a collaborative directory /common/admin with the following characteristics:**

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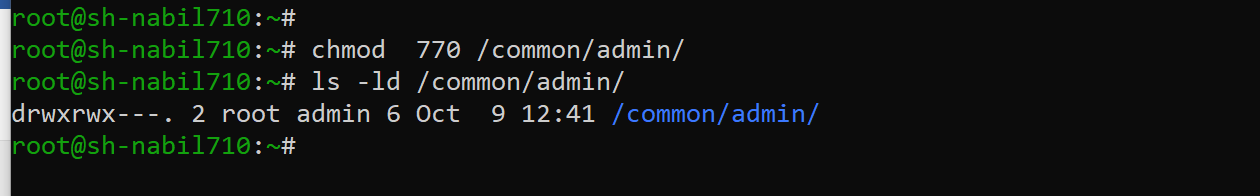
**a) Group ownership of /common/admin is admin.**

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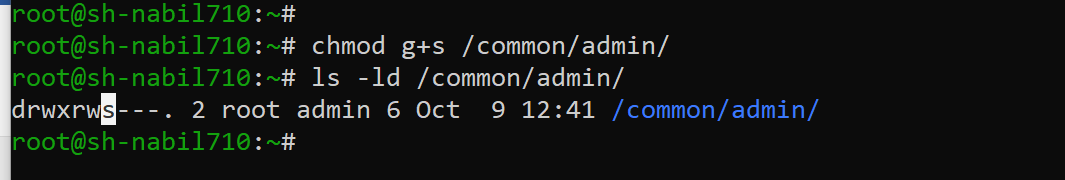
**b) The directory should be readable,writable and accessible to**

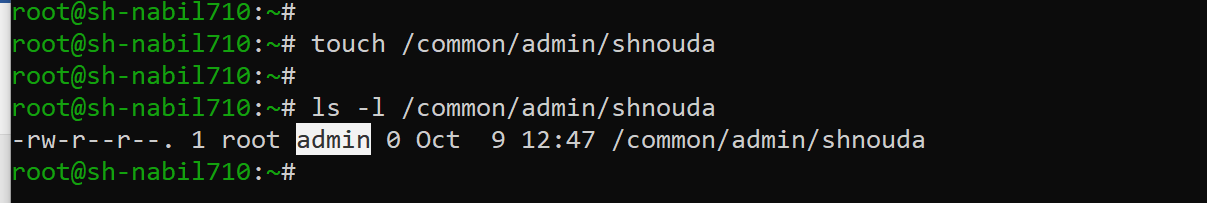
**members of admin, but not to any other user.**

**(It is understood that root has access to all files and directories on the system.)**

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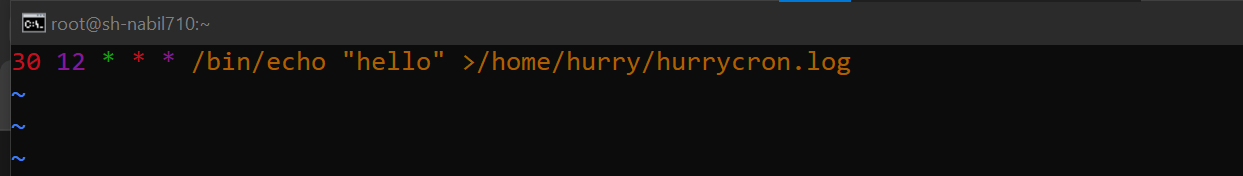
**c) Files created in /common/admin automatically have group ownership set to the admin group**

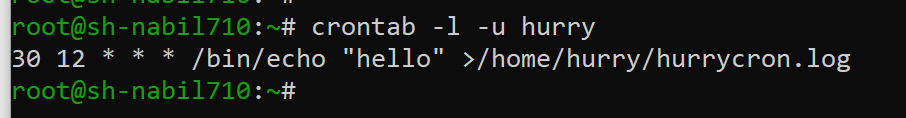
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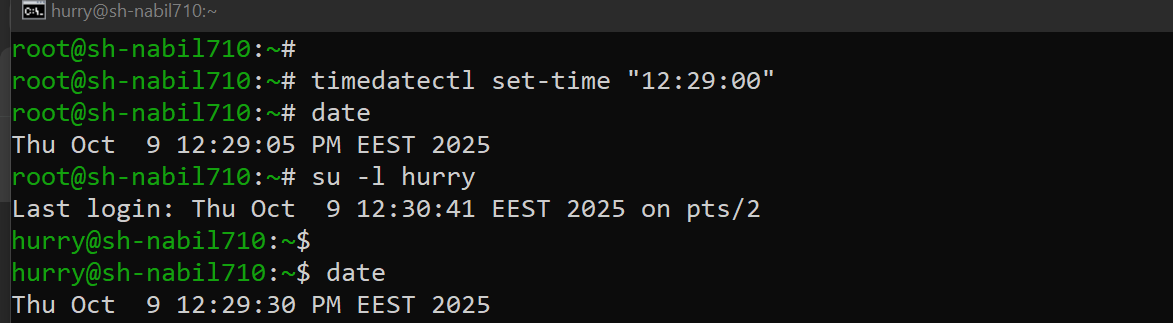
**7. The user harry must configure cron job that runs daily at 12:30 local time and execute /bin/echo "hello".**

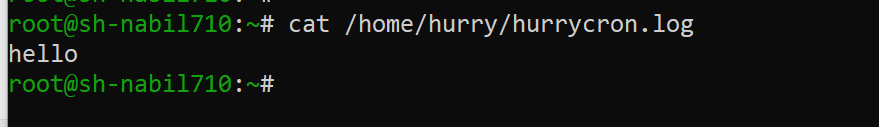
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**Verify the cron job 🡪 I will change the time.**

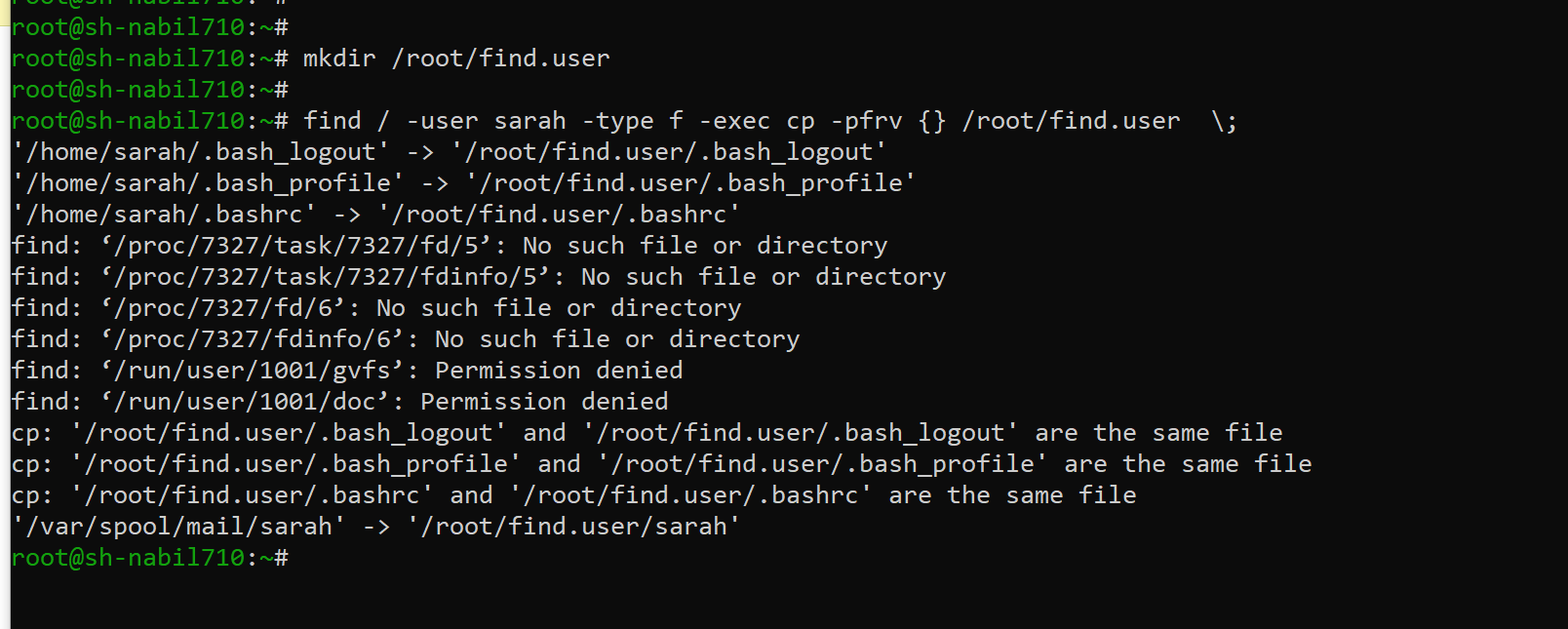
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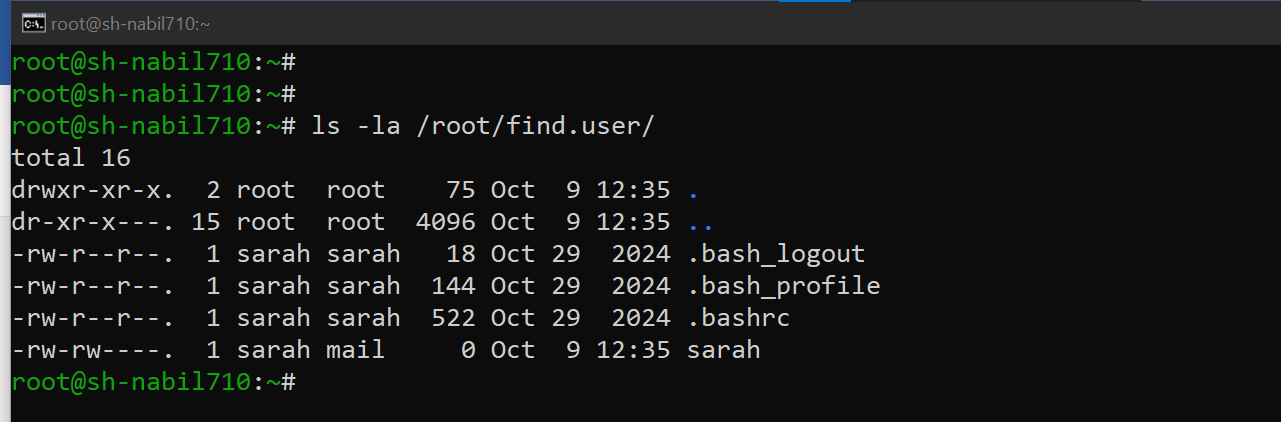
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**9. Locate the Files**

**a) Locate all the files owned by sarah and make a copy of them in the**

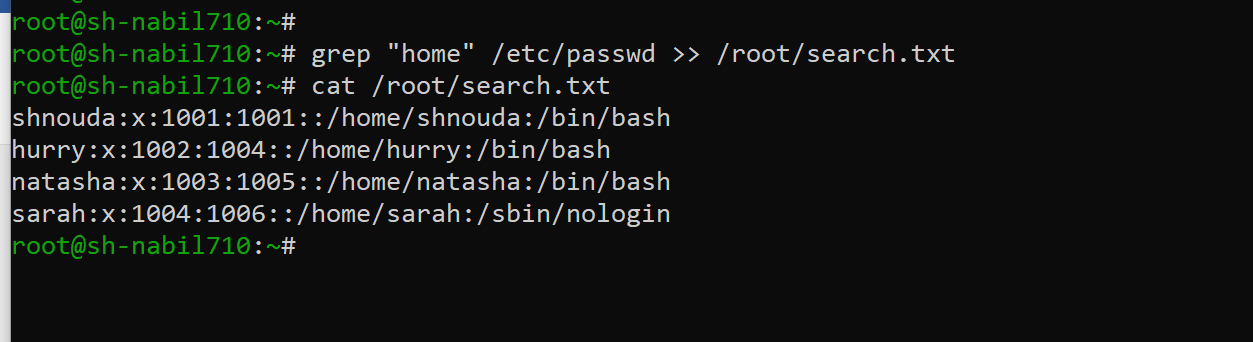
**given path /root/find.user**

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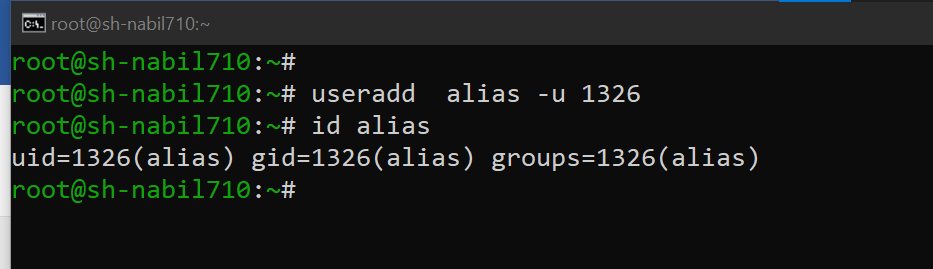
**10. Find the string**

**a) Find a string "home" in /etc/passwd and searching string as been stored in /root/search.txt**

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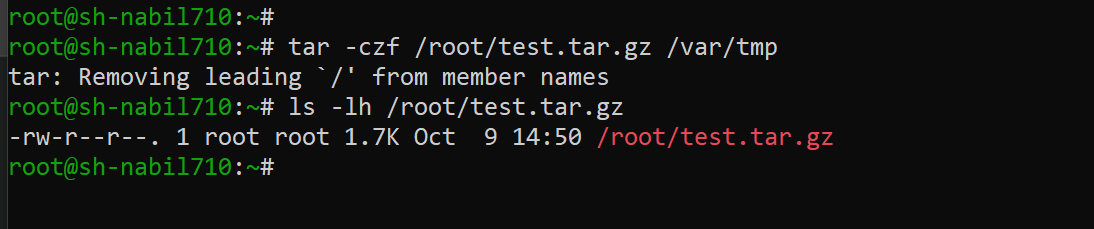
**11. Create an user account**

**a) Create an user account with Userid 1326 and user name as alies**

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**12. Create a tar archive file**

**a) Backup the /var/tmp as /root/test.tar.gz**

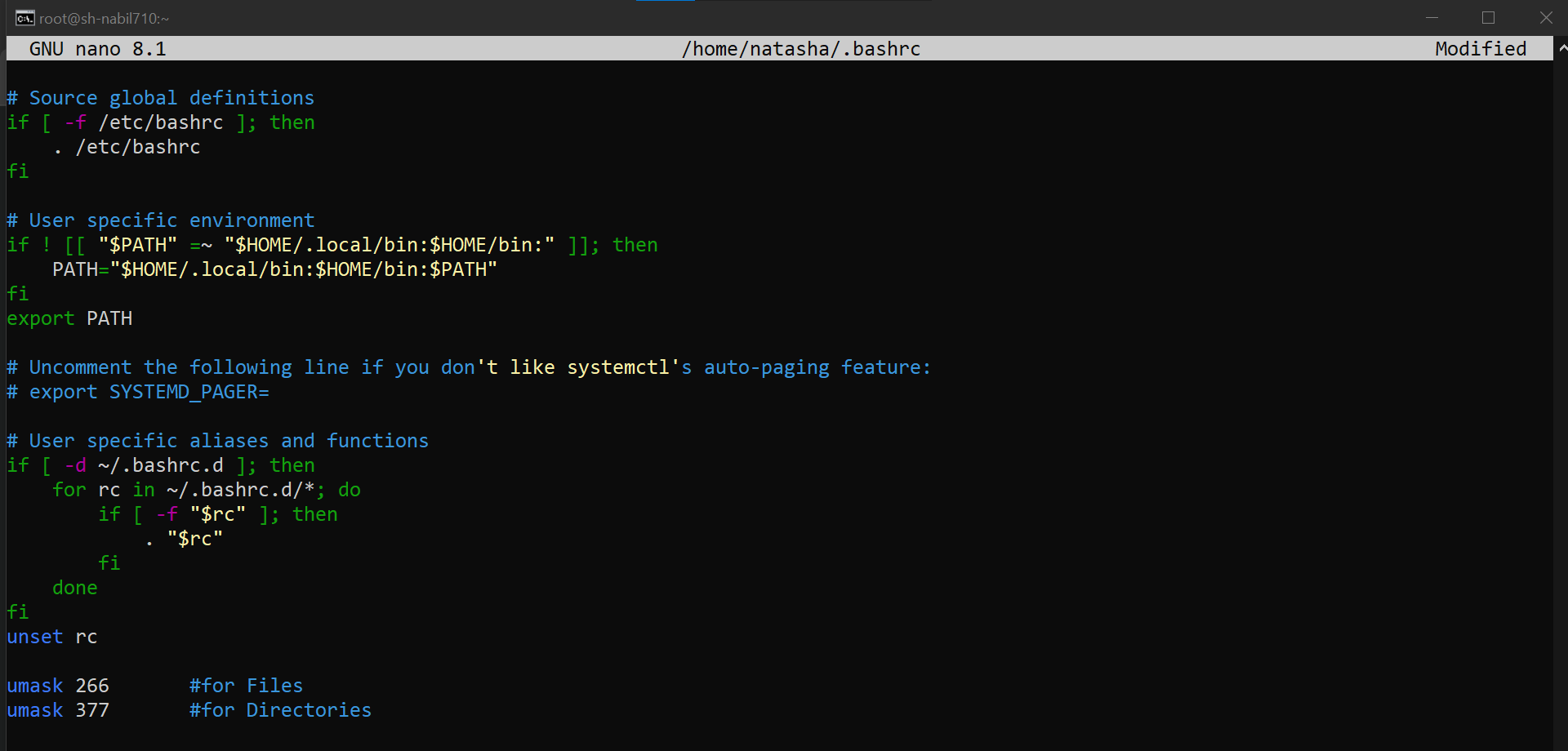
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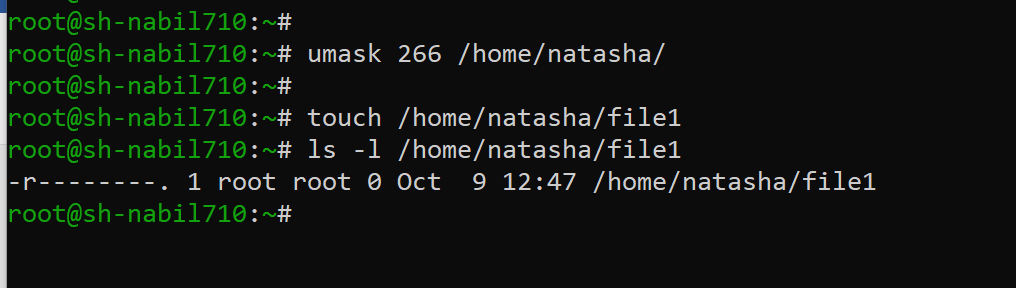
**15.1 Set the Permission**

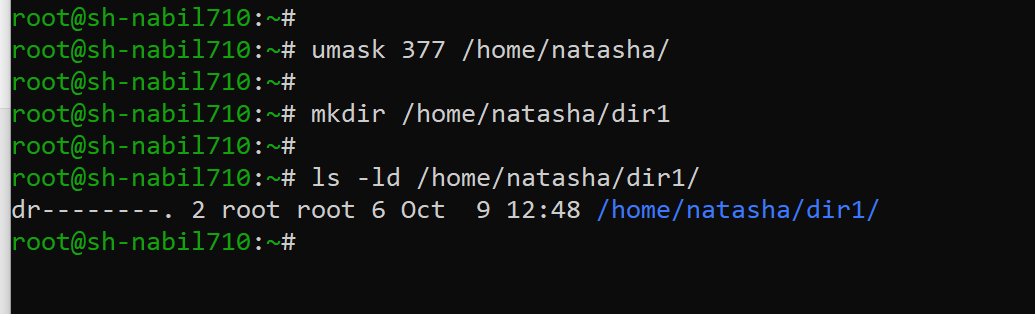
**a) All new creating files for user natasha as -r-------- as default permission.**

**b) All new creating directories for user natasha as dr-x------ as default permission.**

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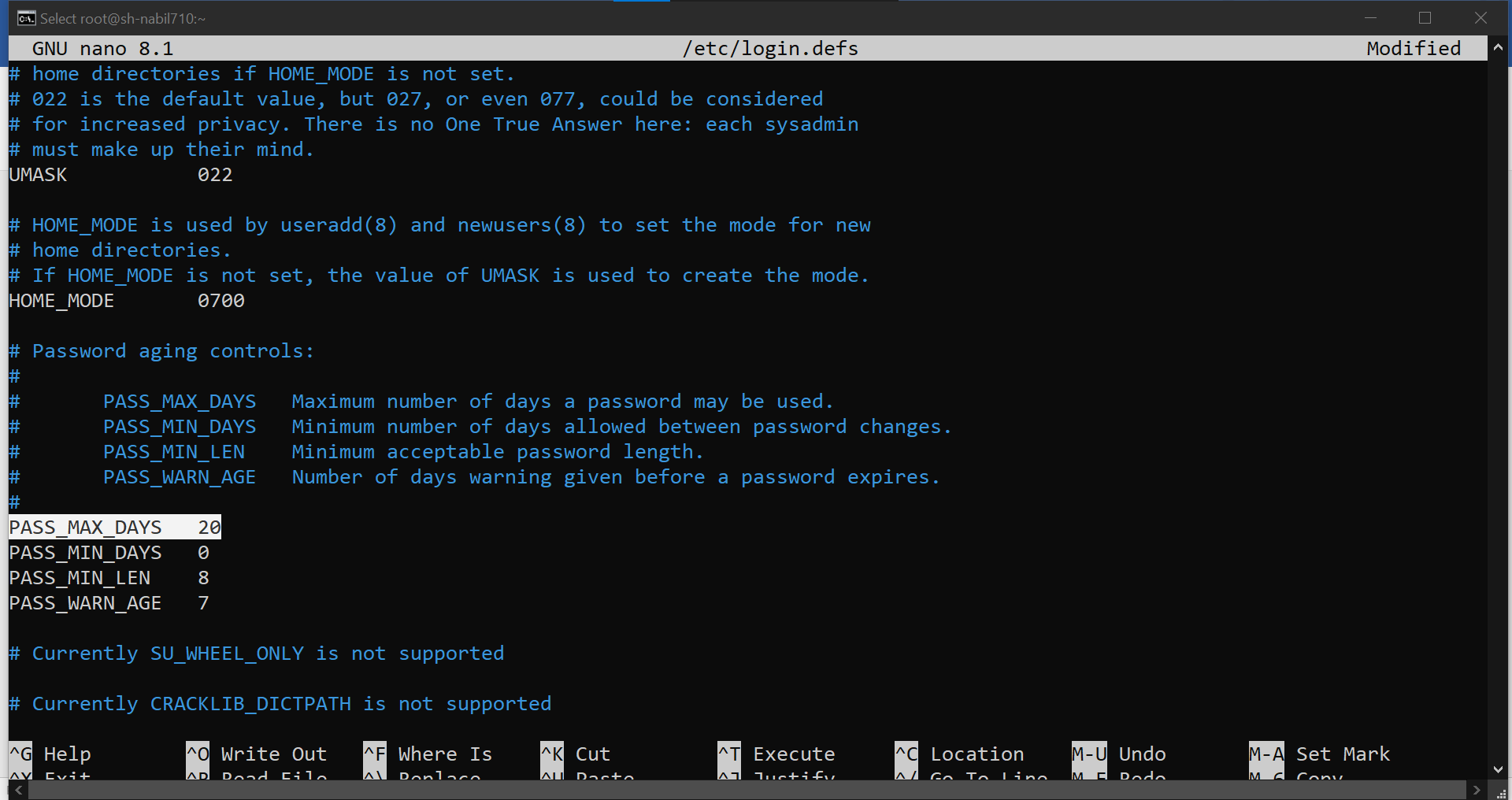
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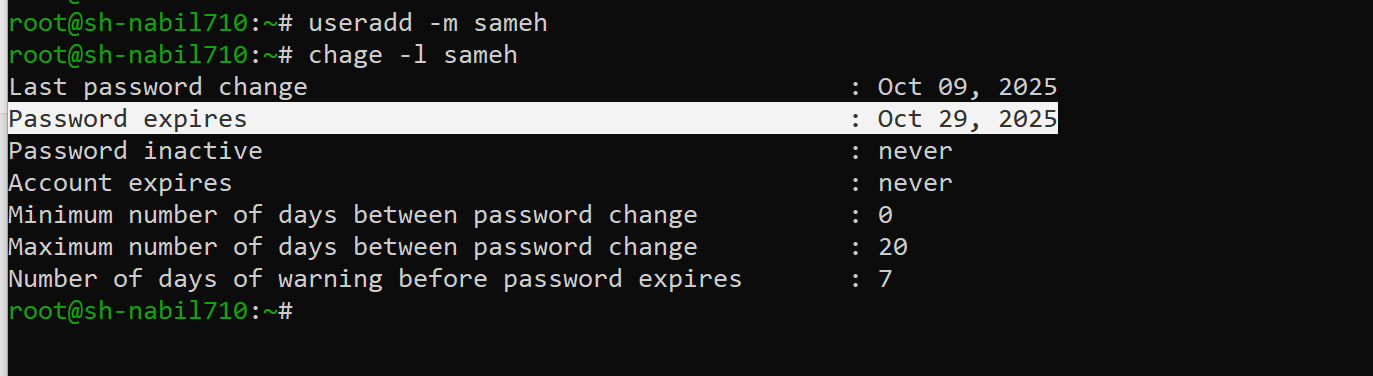
**15.2 Set the Password expire date**

**a) The password for all new users in serverb.lab.example.com should expires after 20 days.**

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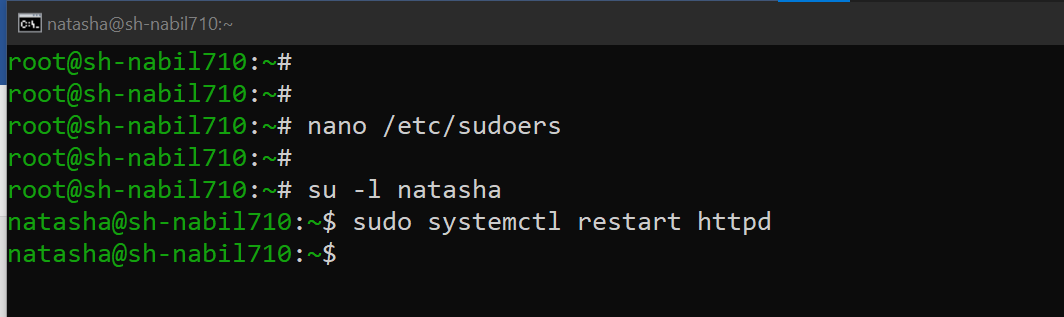
* **I put the Max days for password aging is 20 .**

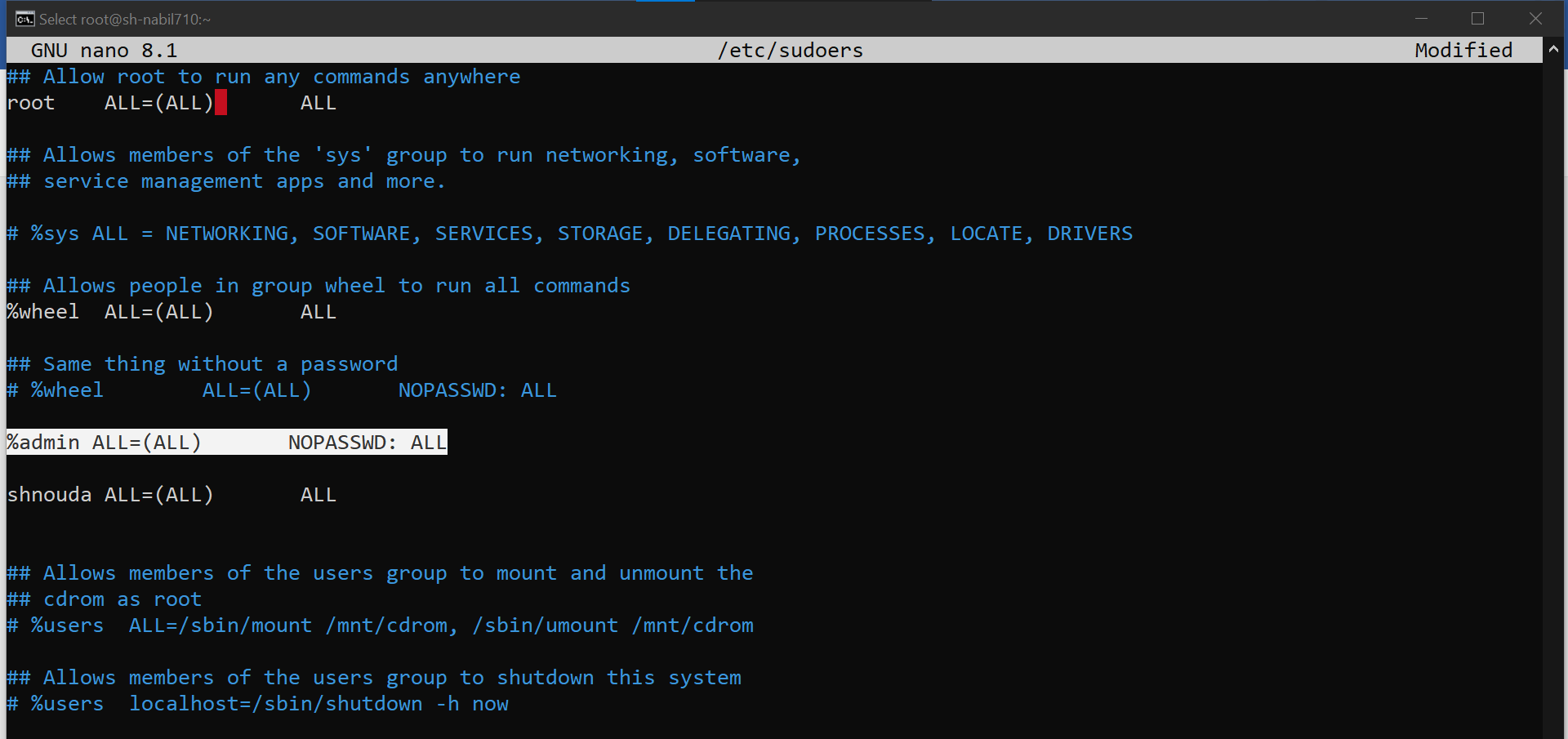
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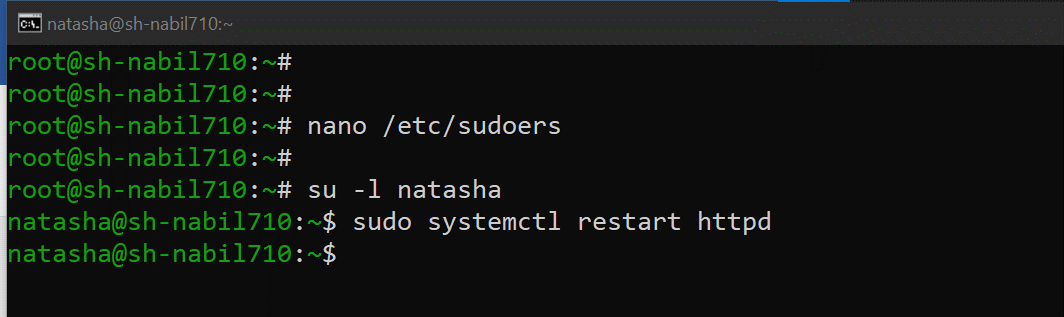
**15.3 Assign Sudo Privilege**

**Assign the Sudo Privilege for Group "admin" and Group members can administrate without any password**

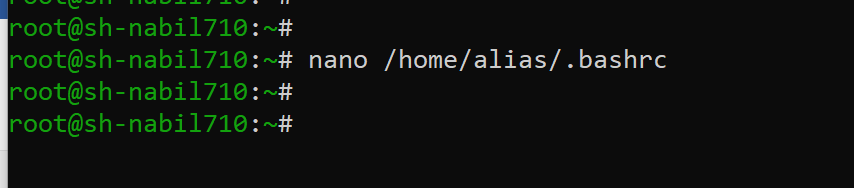
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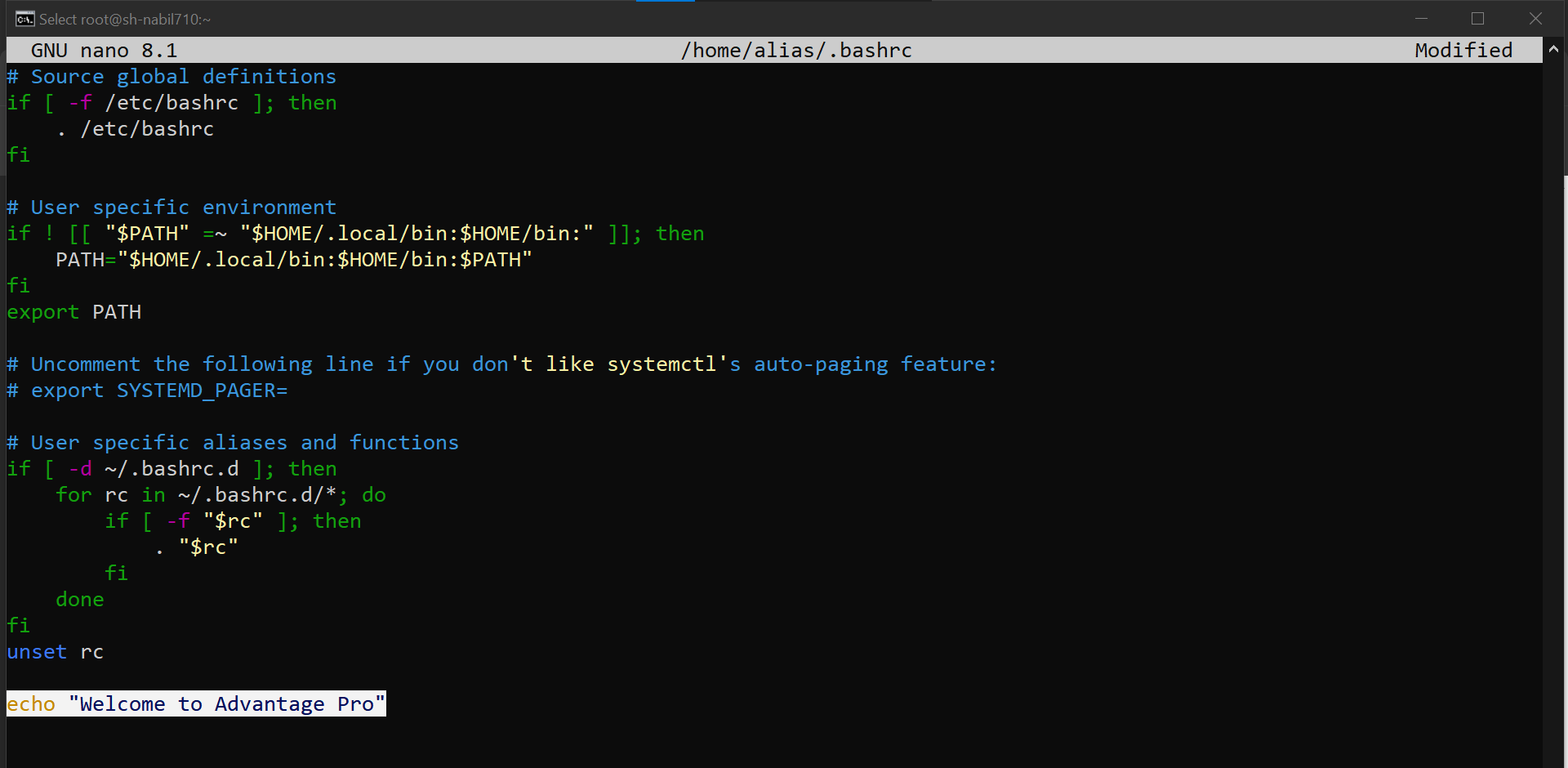


* **To verify.**

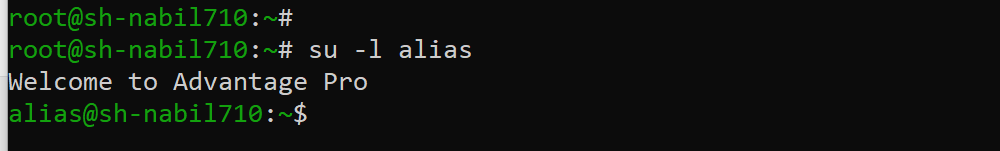


**15.4 Configure the application RHCSA as an alies user, When login it will show the message "Welcome to Advantage Pro"**

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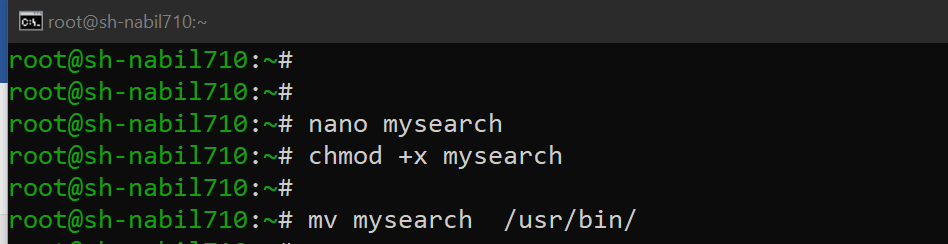
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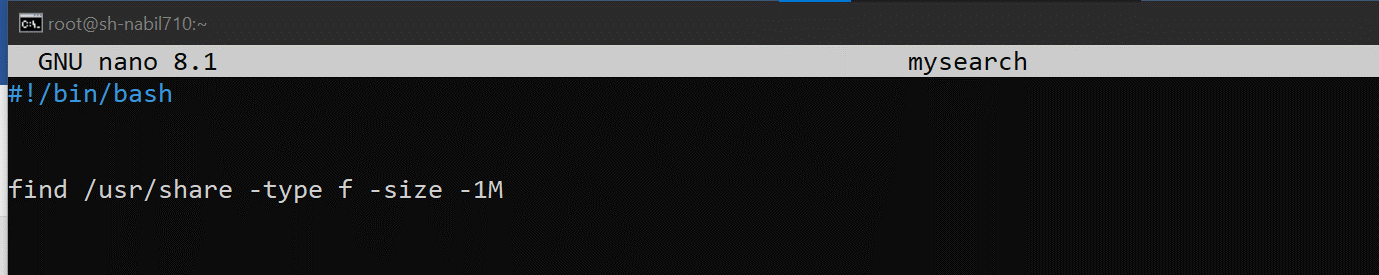
* **To verify**

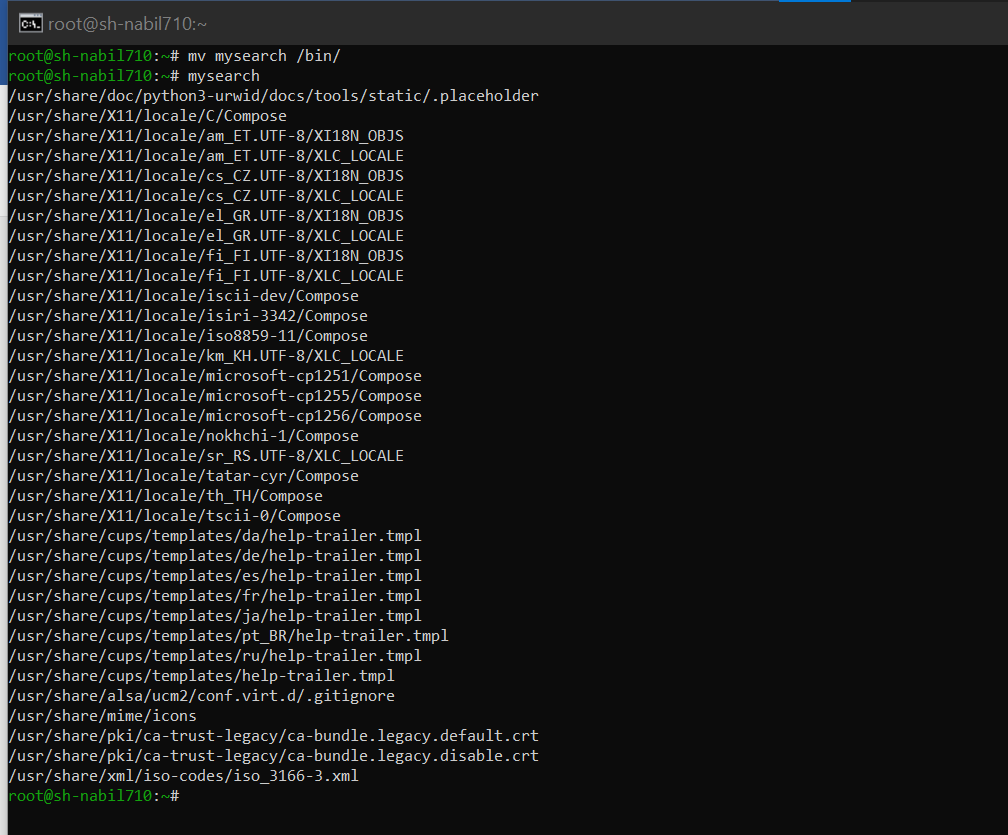
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**15.5 Create the script file**

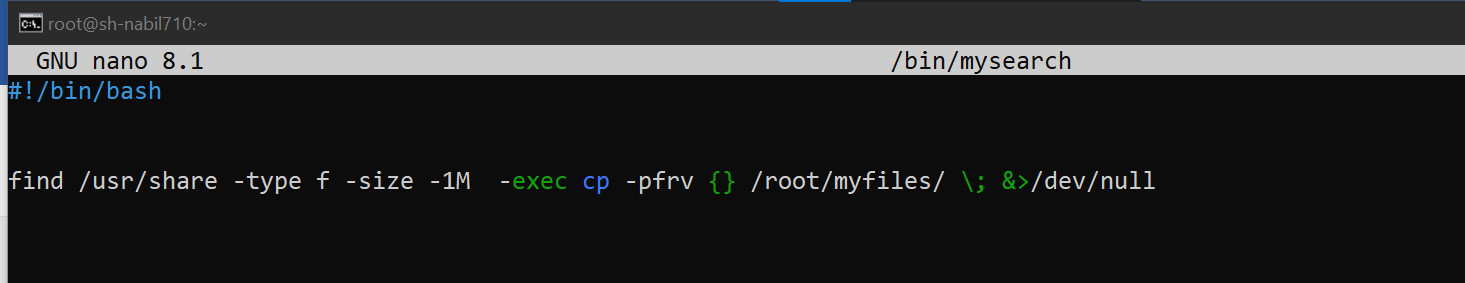
**a) Create a mysearch script file under /usr/local/bin to locate files under /usr/share directory having size less than 1M.**

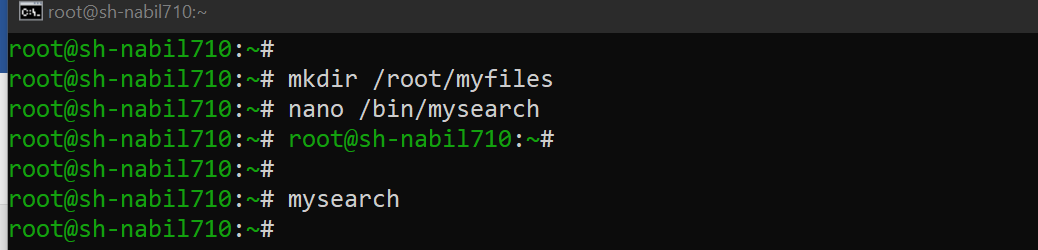
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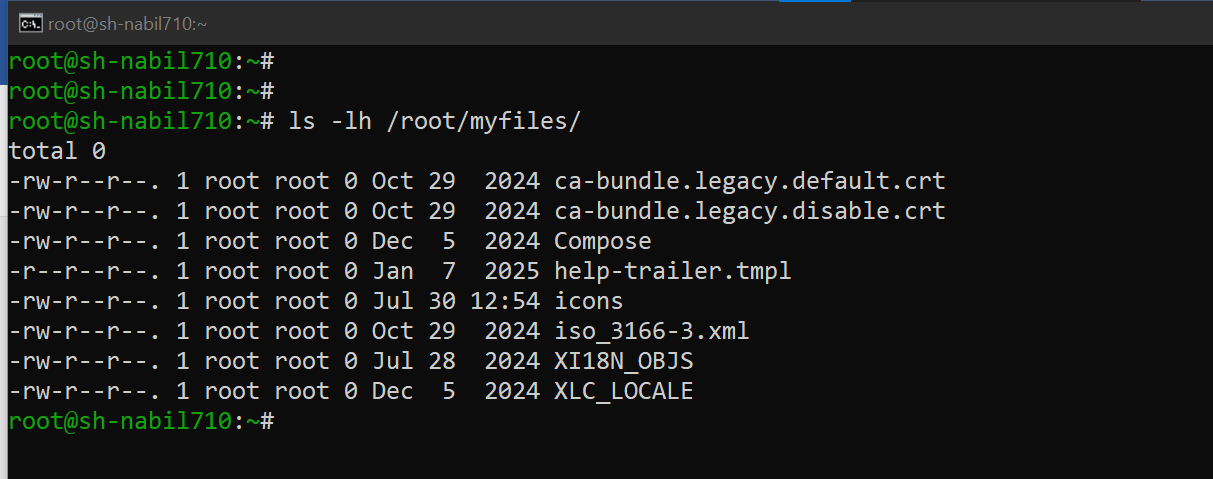
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**b) After executing the mysearch script file and listed(searched) files has to be copied under /root/myfiles**

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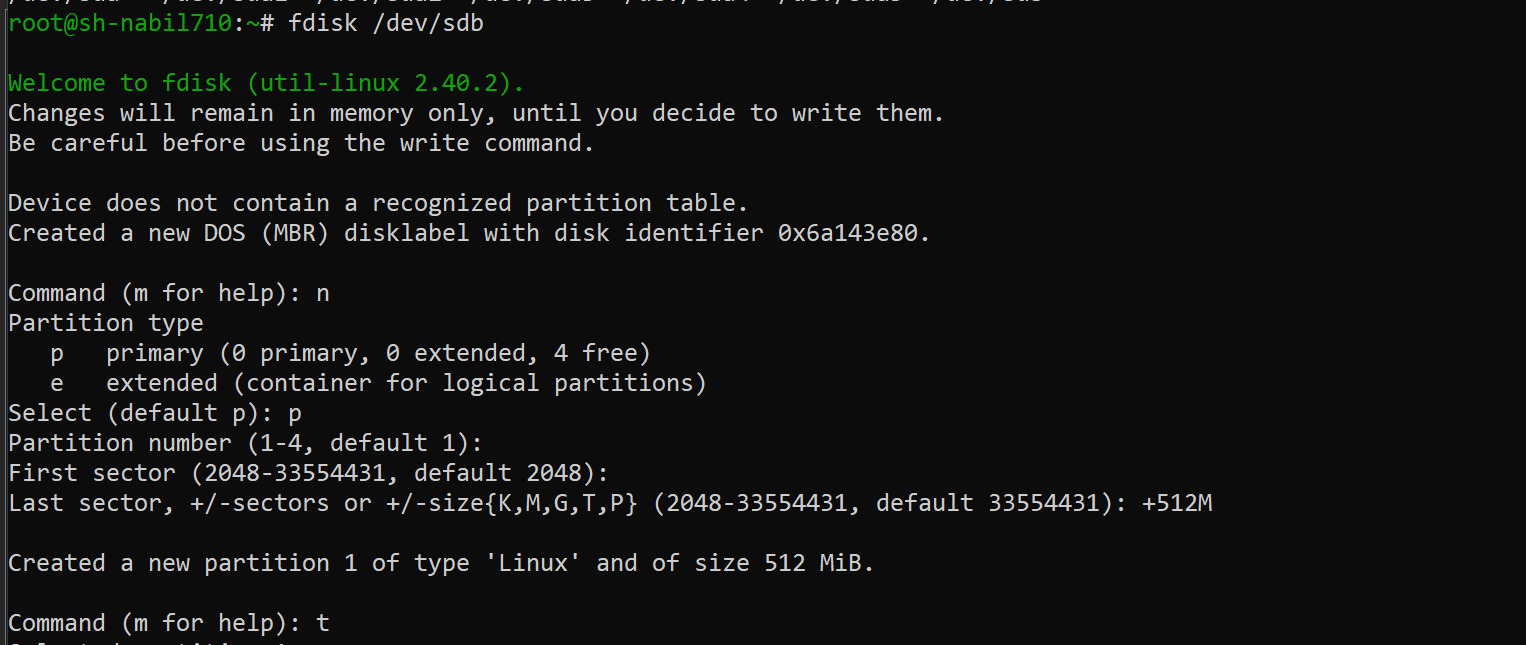
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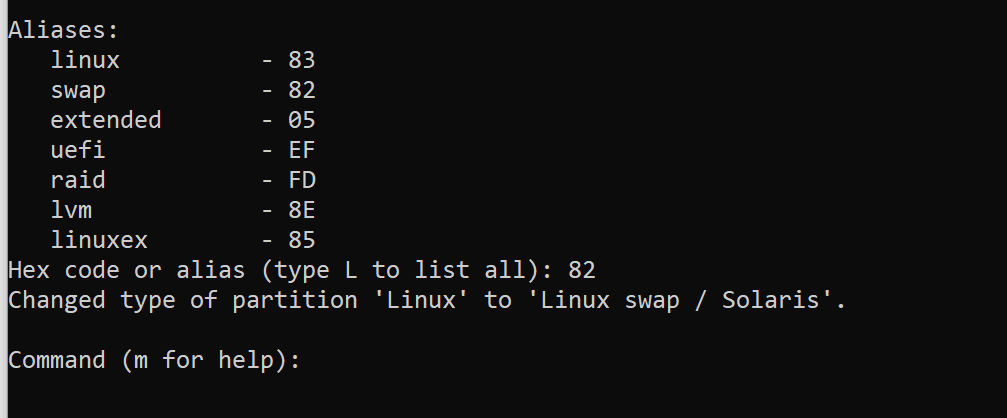
* **To Verify**

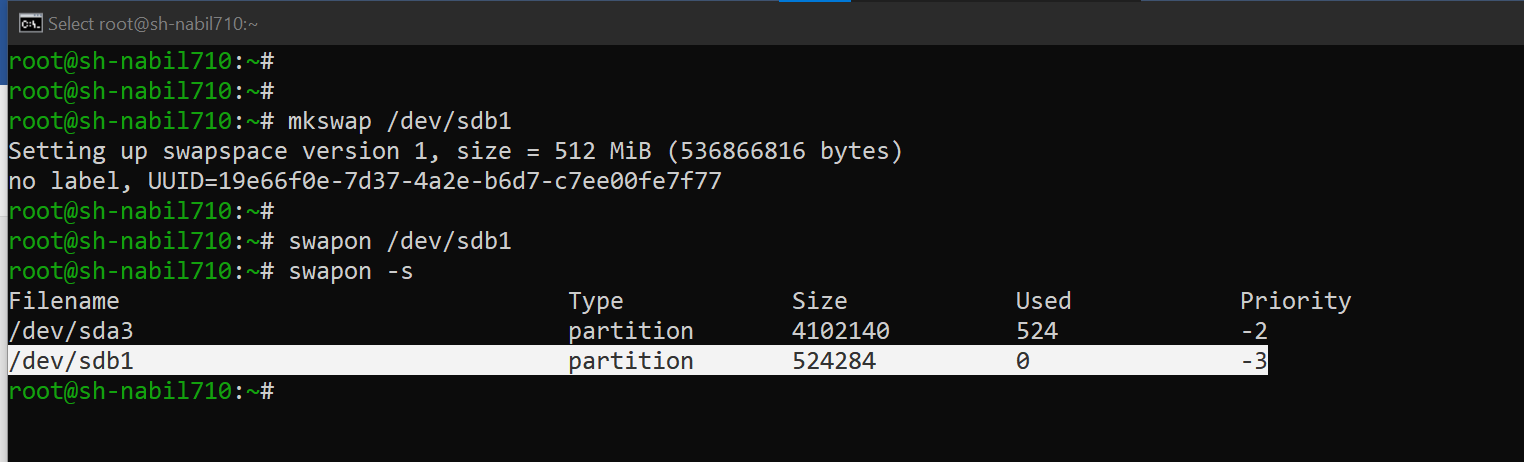
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**16. Create a swap partition 512MB size.**

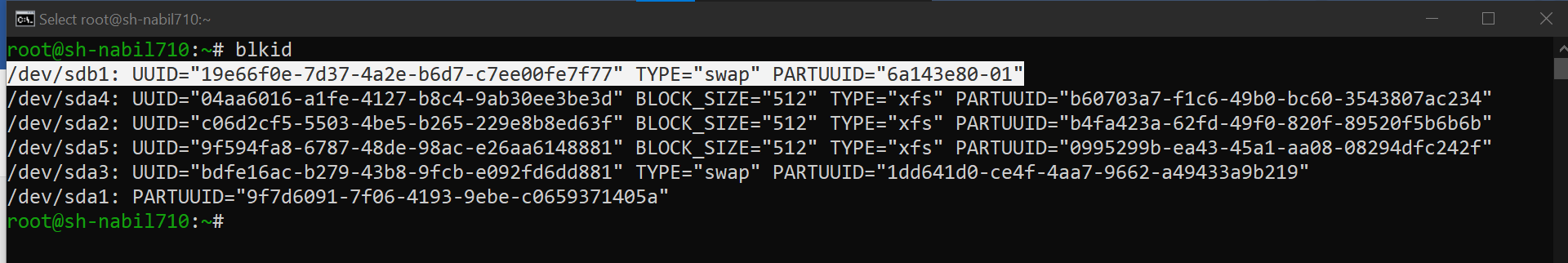
**In this question I will add another hard drive to my machine.**

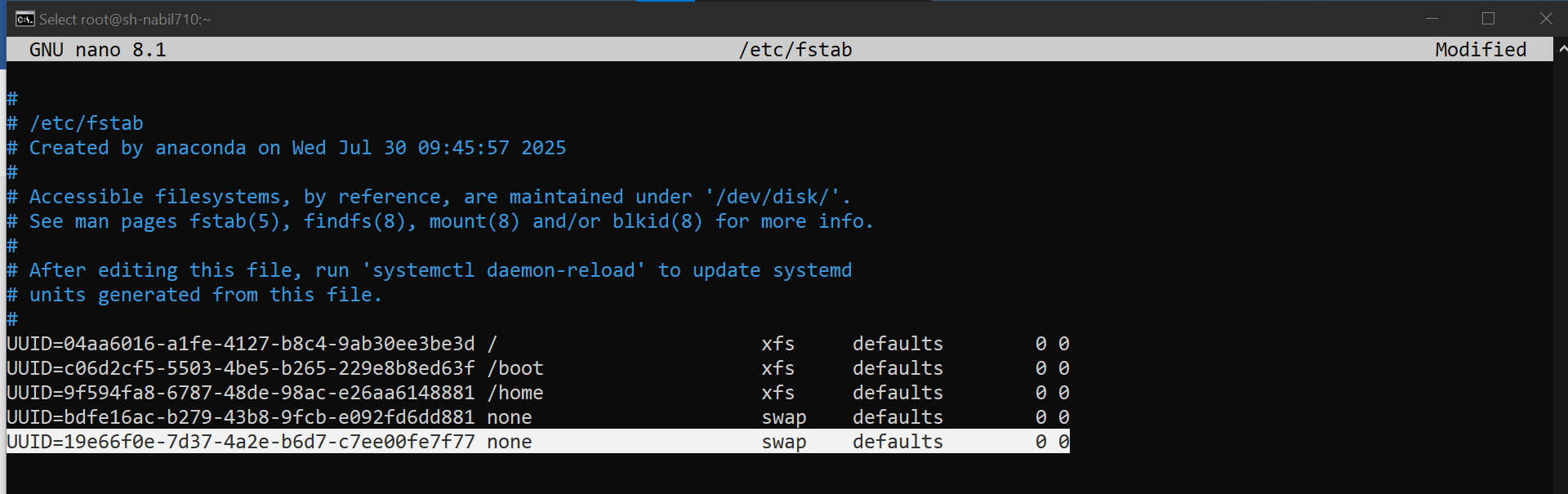
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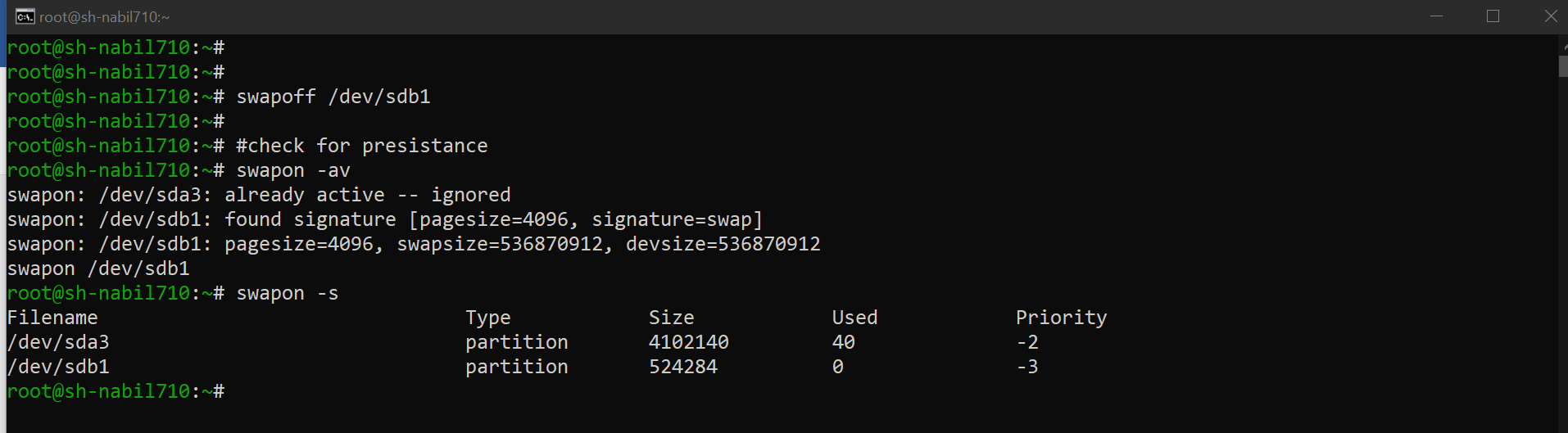
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* **To make this as a persistence 🡪 I will this partition in the /etc/fstab file.**

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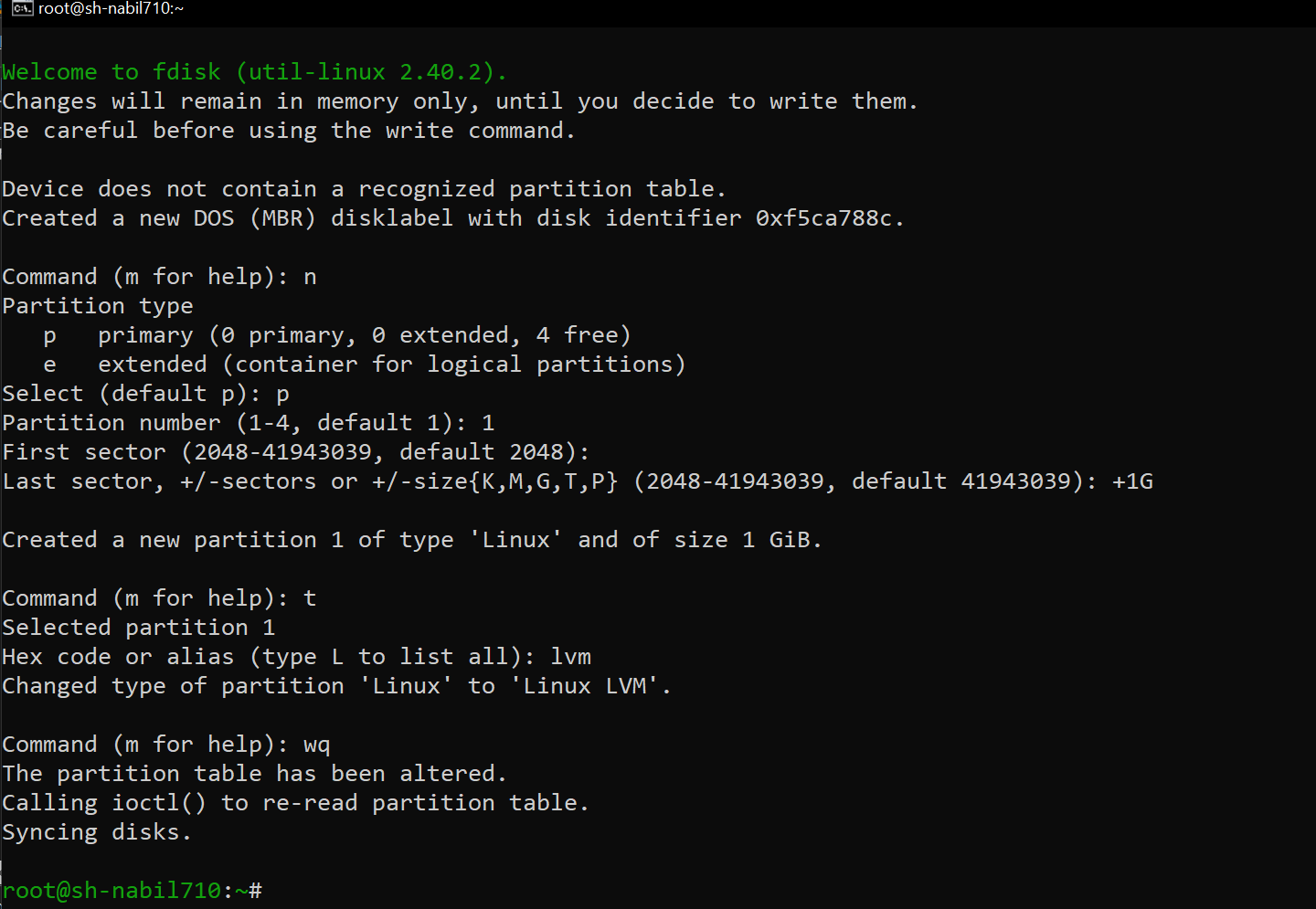
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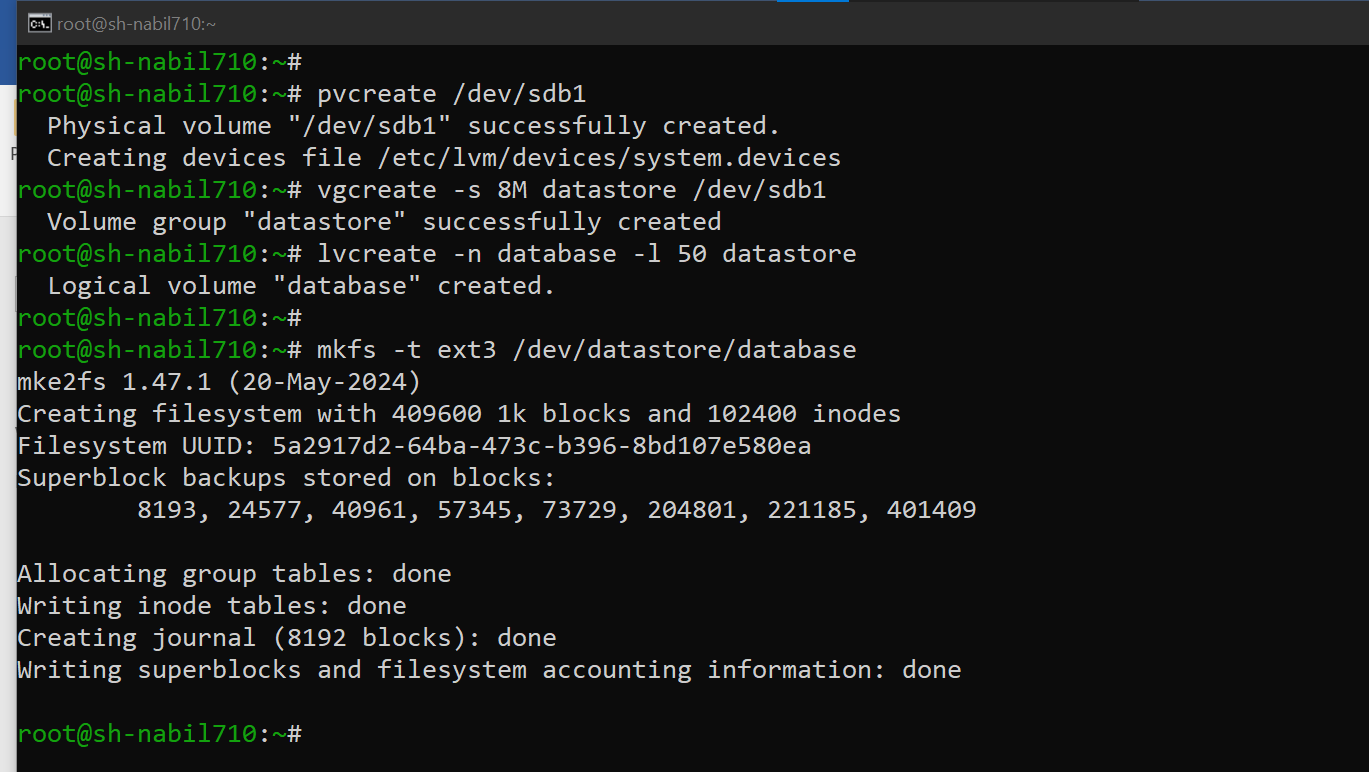
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**17- Create one logical volume named database and it should be on datastore volume group**

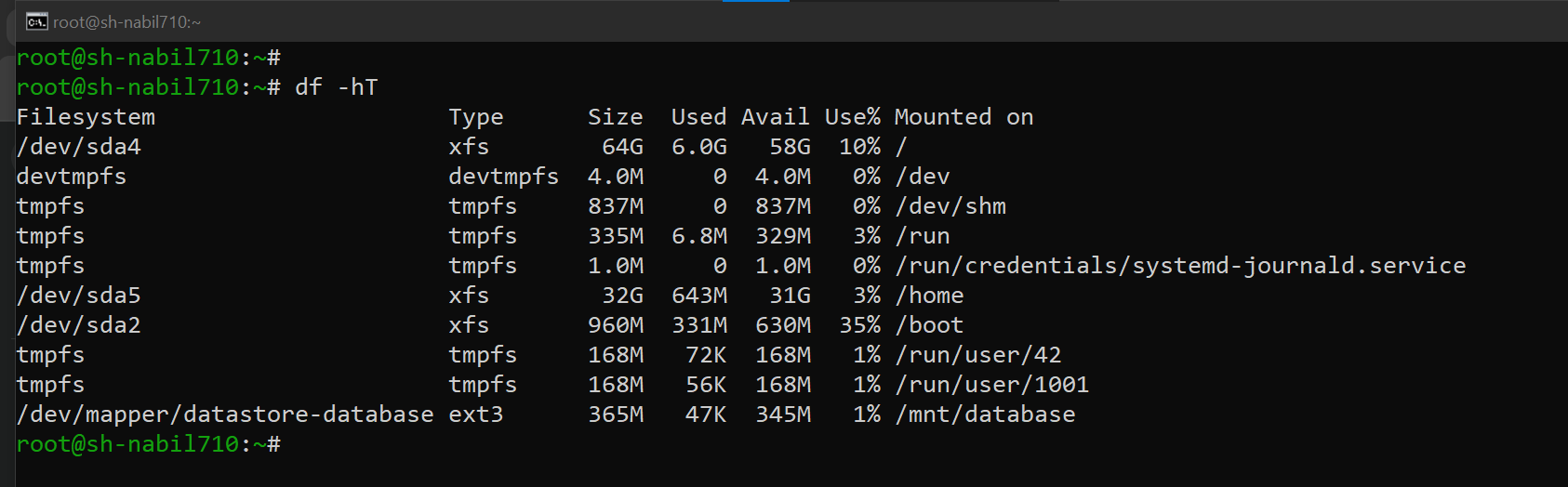
**with size 50 extent and assign the filesystem as ext3.**

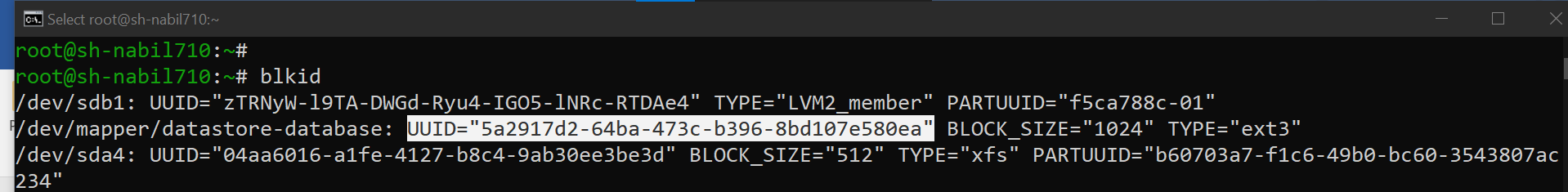
**(i) the datastore volume group extend should be 8MiB. (ii)mount the logical volume under mount point /mnt/database.**

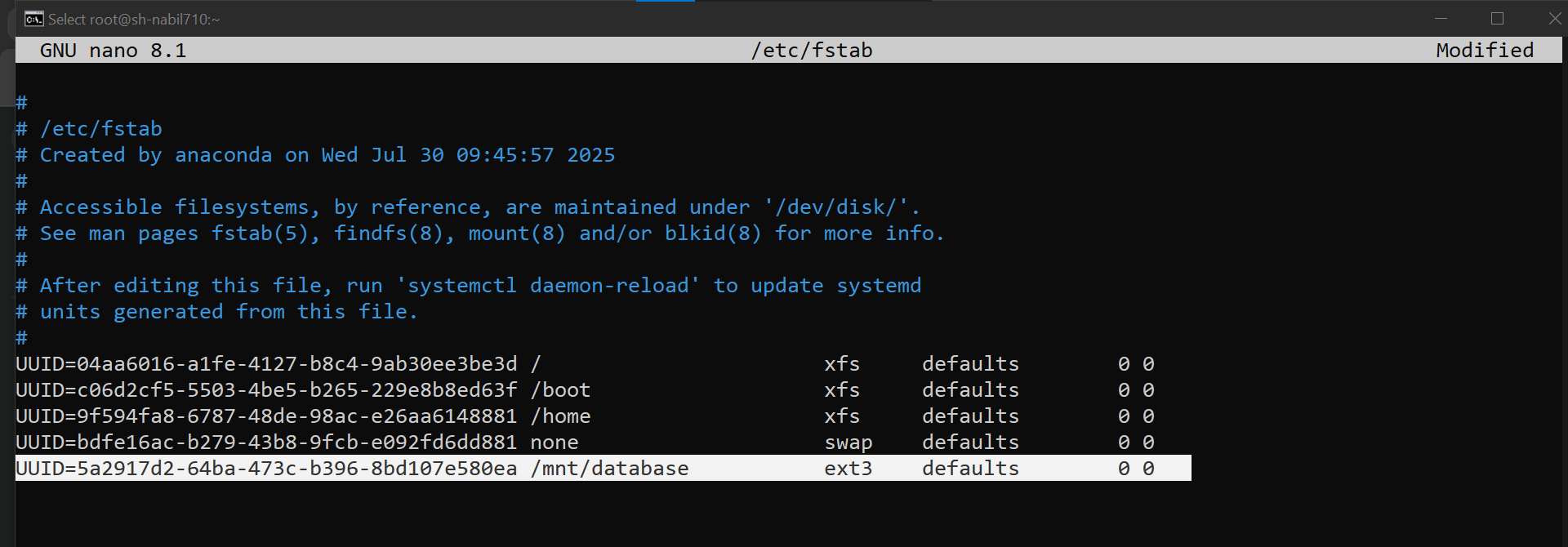
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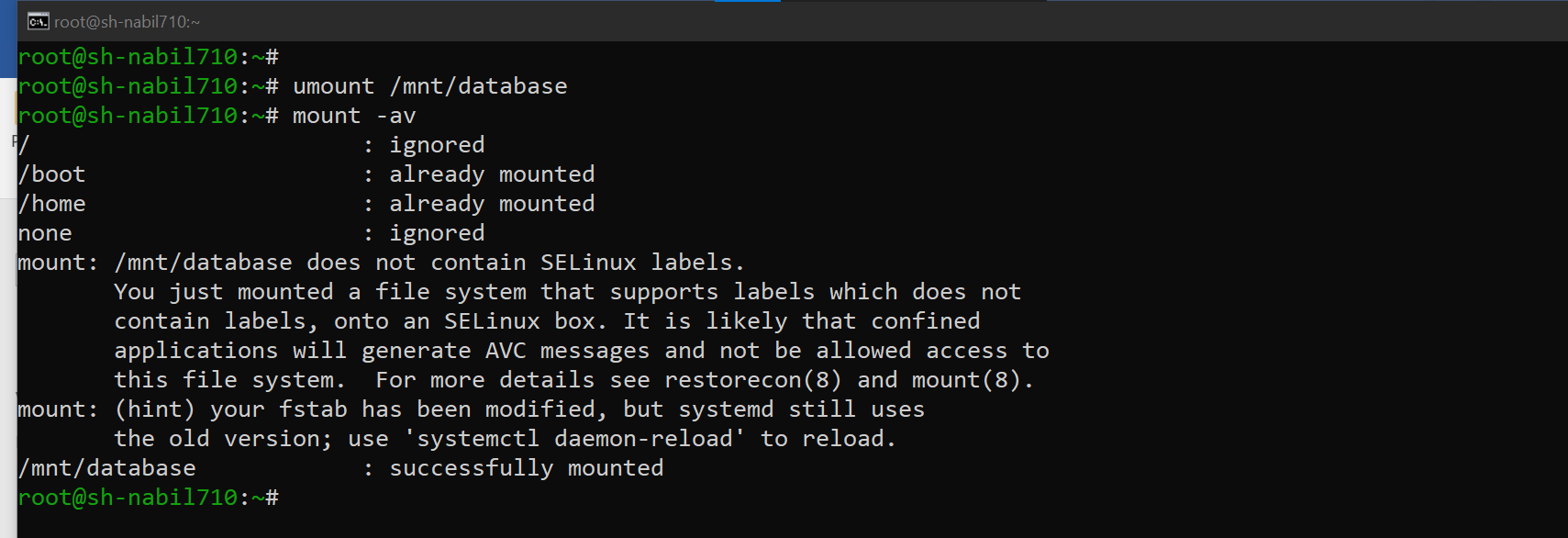
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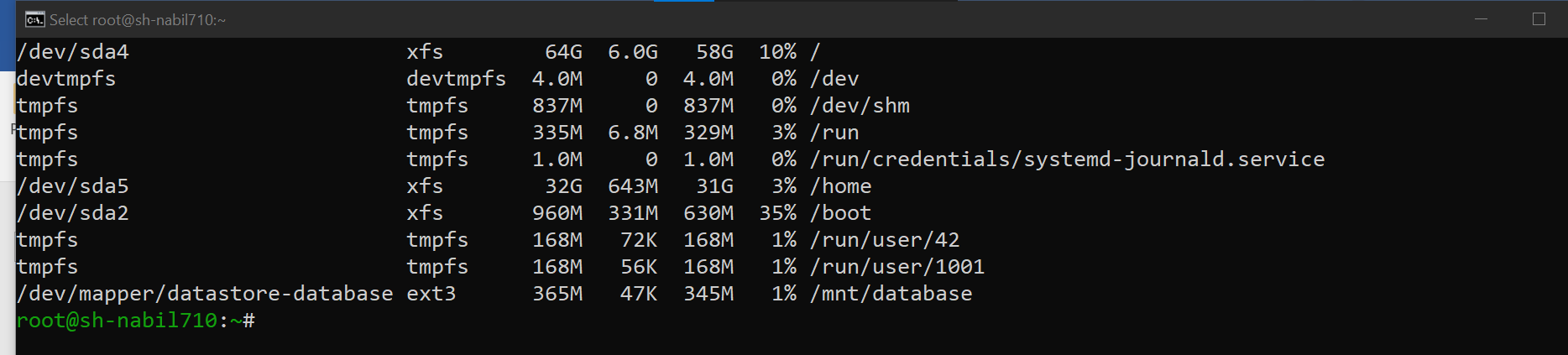
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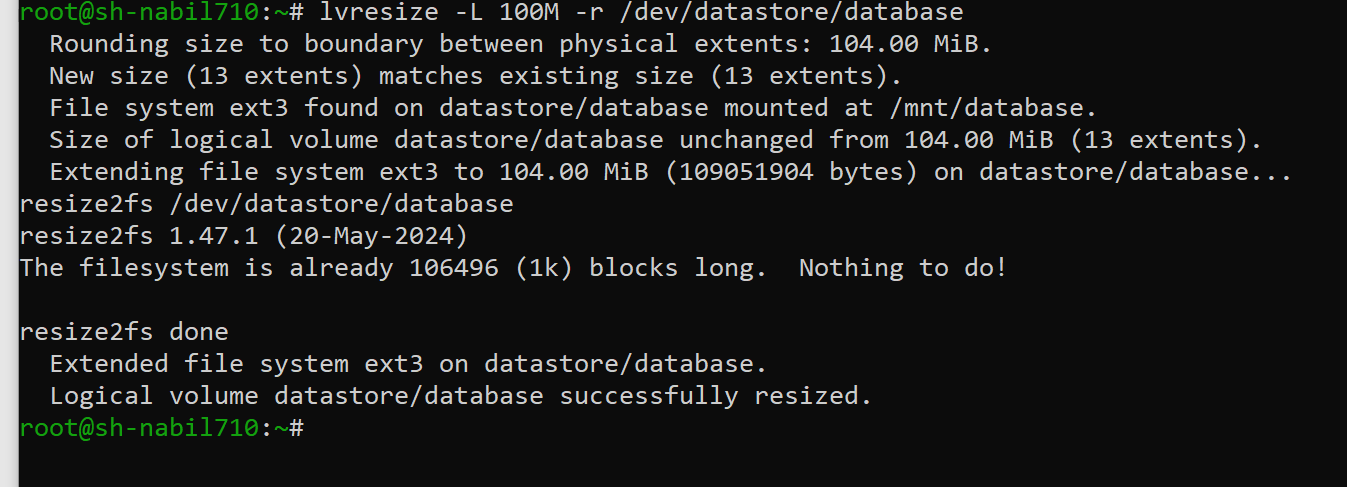
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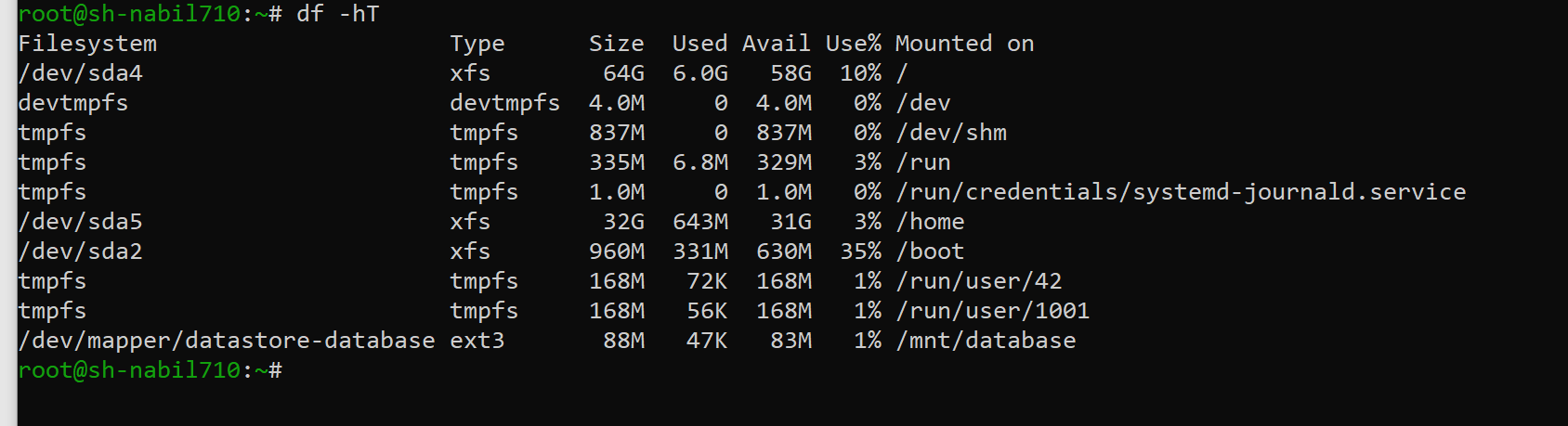
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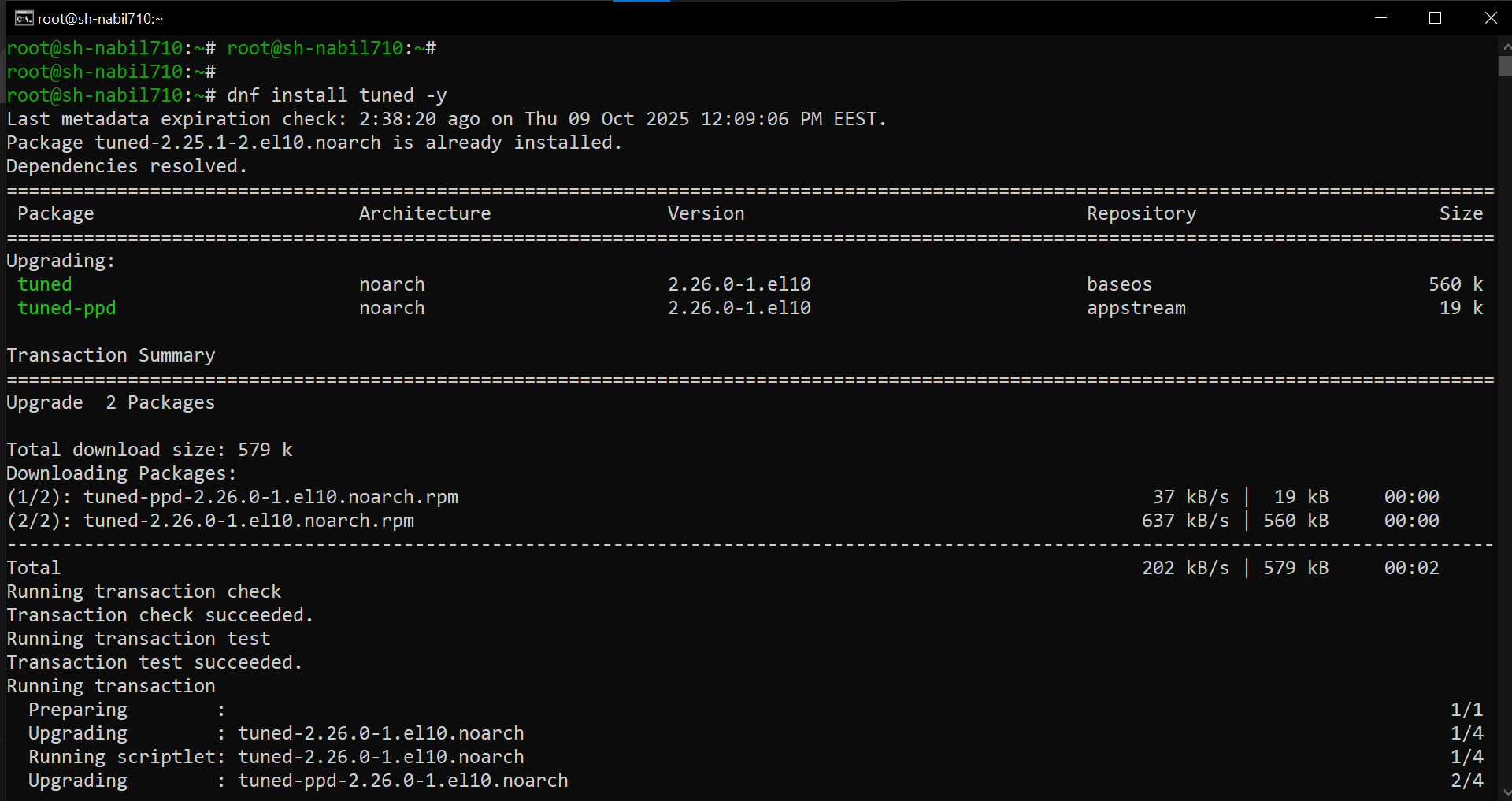
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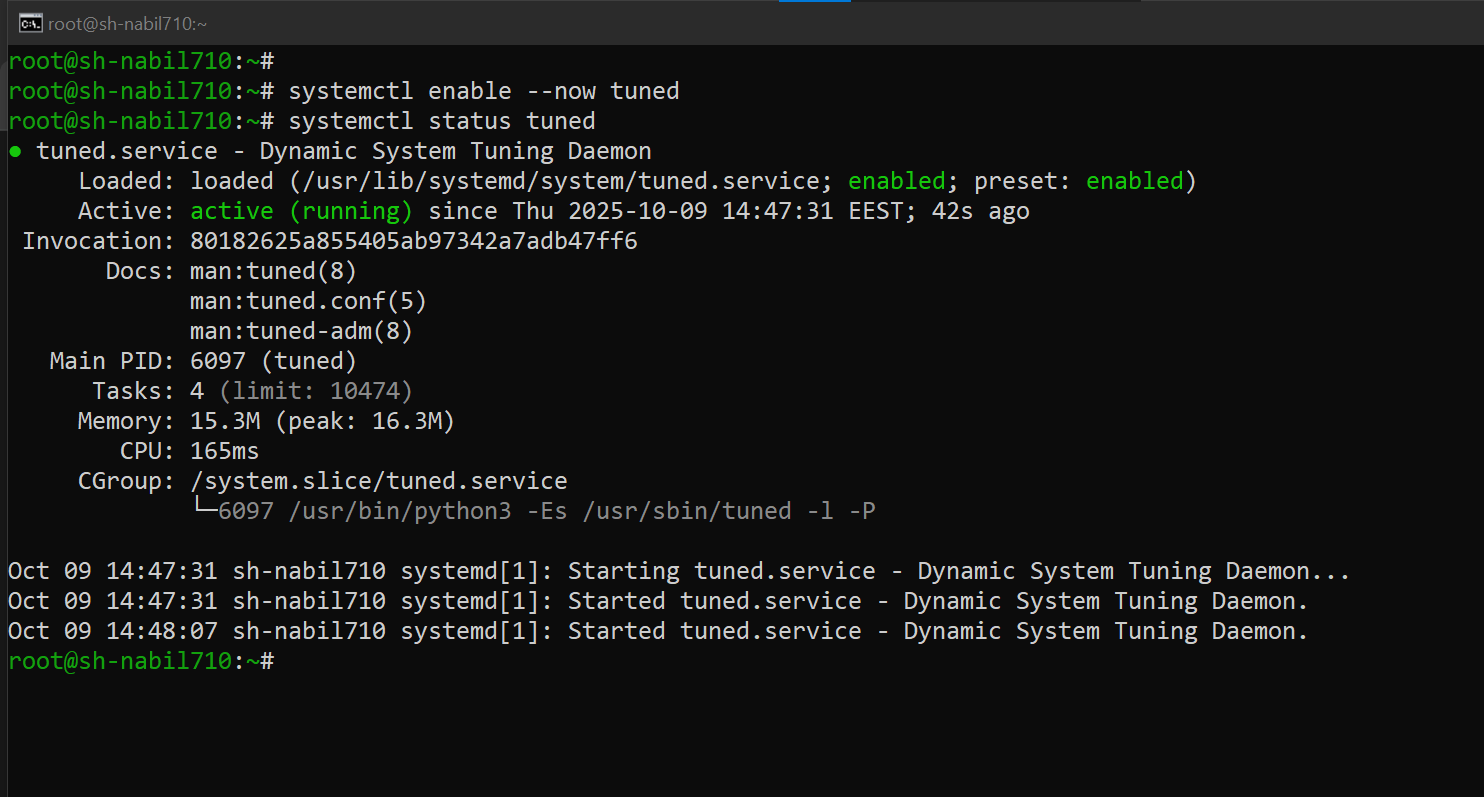
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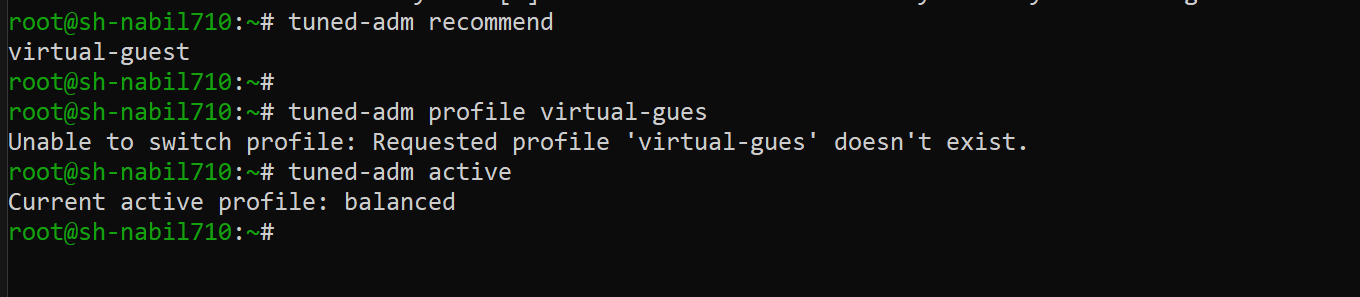
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**18- Set the recommend tuned profile for your system.**

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* **To verify:**

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