

LAB – 06, PRELAB

- ☐ All screenshots, **must have your username** at command prompt and screenshot should be legible. Snipping tool is advised for the screen shots, no full page screenshot.
- ☐ For **LAB REPORT**, The screenshots should be pasted in Word Document in order of the lab questions and submitted in Blackboard as a single document only. **Plagiarism is awarded zero.**
- ☐ Refer to course details posted in BB for more info on Lab report and screenshots.
- ☐ Do NOT login as root or user with UID=0 to do the lab, use sudo ONLY when required.
- ☐ Do not use changeme username to do the lab, the lab(s) MUST be done using your own username as specified in PART-B of LAB-1
- ☐ Strictly NO screenshots with full screen of terminal or desktop or partly taken screenshots
- ☐ It is highly required to following naming conventions and instructions and it would affect evaluation.

LAB-04 and 05 completion is required to continue this lab

LAB-05 USER MANAGEMENT (is given here for reference)

EMPLOYEE NAME	USER NAME	DEPARTMENT(primary)	OTHER DEPARTMENT(secondary)
John Smith	johns	sales	finance, hrd, tech
Nancy Taylor	nancyt	finance	--
Preet Singh	preets	finance	--
Raymond Cruz	raymondc	tech	--
Ahmed Khan	ahmedk	tech	--
Leslie Lee	lesliel	sales	finance
Cassey Jones	casseyj	hrd	--
Jane Williams	janew	hrd	--
Jane Doe	janed	tech	--
Tom Harry	tomh	tech	--

PRELAB MUST BE COMPLETED BY DUE DATE AS GIVEN IN BLACKBOARD.

In toronto VM

PART-A: MOUNTPPOINT CHANGES

1. Unmount **/logistics** (done in lab-04) and mount it as **/hrd** and update **/etc/fstab** accordingly
2. Unmount **/purchases** (done in lab-04) and mount it as **/sales** and update **/etc/fstab** accordingly
3. Confirm **/finance**, **/hrd**, **/sales**, **/tech**, **/apps**, **/databases** are mounted using **df -Th /finance /hrd /sales /tech /apps /databases** (this is required to proceed further) (**SCREENSHOT**)

Remember from your learning that **directory requires X permission**

PART-B: FILE ACCESS AND USER, GROUP PERMISSIONS

In the company each department of **finance**, **hrd** and **sales** are assigned **/finance**, **/hrd** and **/sales** respectively. For **tech** department **/tech**, **/apps** and **/databases** are assigned.

prof benann nathan

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4. Modify **/finance** to be owned by employee who heads **finance** department and group being **finance**
5. Modify **/hrd** to be owned by employee who heads **hrd** department and group being **hrd**
6. Modify **/sales** to be owned by employee who heads **sales** department and group being **sales**
7. Modify **/tech**, **/apps** and **/databases** to be owned by employee who heads **tech** department and group being **tech**
8. The access permissions for **/finance**, **/hrd**, **/sales**, **/tech**, **/apps** and **/databases** must be configured with **r**, **w** access for user and group; for others provide **x** permission.

SCREENSHOT a) ls -ld /finance /hrd /sales /tech /apps /databases

b) ls -la /finance /hrd /sales /tech /apps /databases

PART-C: FINANCE (no sudo command be used)

9. Login as **finance** department's manager and create directory named **common** in **/finance**
10. Create two files **fin1** and **fin2** with text "**finance**" in **/finance** and set user and group read and write and others no permission for the files **fin1** and **fin2**
11. Provide permission such that this **/finance/common** directory is **r** and **w** for user and group, and others **r** permission
12. Create file **fincommon** with text "**fincommon**" in **/finance/common**.
13. Provide permission such that file **fincommon** is **r** and **w** for user and group, and others **r** permission then **exit** the **finance** user.

SCREENSHOT: a) df -Th /finance b) sudo ls -ld /finance c) sudo ls -lR /finance

PART-D: HRD (no sudo command must be used)

14. Login as **hrd** department's manager and create directory named **common** in **/hrd**
15. Create two files **hrd1** and **hrd2** with text "**hrd**" in **/hrd** and set user and group read and write and others no permission for the files **hrd1** and **hrd2**
16. Provide permission such that this **/hrd/common** directory is **r** and **w** for user and group, and others **r** permission
17. Create file **hrdcommon** with text "**hrdcommon**" in **/hrd/common**.
18. Provide permission such that file **hrdcommon** is **r** and **w** for user and group, and others **r** permission then **exit** the **hrd** user.

PART-E: TECH (no sudo command must be used)

19. Login as **tech** department's manager and create directory named **common** in **/tech**
20. Create two files **tech1** and **tech2** with text "**tech**" in **/tech** and set user and group read and write and others no permission for the files **tech1** and **tech2**
21. Provide permission such that this **/tech/common** directory is **r** and **w** for user and group, and others **r** permission
22. Create file **techcommon** with text "**techcommon**" in **/tech/common**.

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23. Provide permission such that file **techcommon** is **r** and **w** for user and group, and others **r** permission then exit the **tech** user.

SCREENSHOT: a) `df -Th /finance /hrd /sales /tech` b) `sudo ls -ld /finance /hrd /sales /tech` c) `sudo ls -lR /finance /hrd /sales /tech`

PART-F: PERMISSIONS CHECK *(no sudo command be used)*

24. Login as any finance user and test the permission of **/finance /hrd /tech** (SCREENSHOT)

25. Login as any hrd user and test the permission of **/finance /hrd /tech** (SCREENSHOT)

26. Login as lesliel user and test the permission of **/finance /hrd /tech** (SCREENSHOT)

27. Login as any tech user and test the permission of **/finance /hrd /tech** (SCREENSHOT)

28. Login as John Smith and test the permission of **/finance /hrd /tech** (SCREENSHOT)

PART-G: ACL PERMISSIONS

29. Tech department is implementing project for hrd and in /tech a directory named **project** is created which is owned by tech manager and group is tech. Others do not have permission to /tech/project directory, users and group have read and write permissions. Create non-empty files project1 and project2 in /tech/project.

30. Provide ACL permission for Cassey to read and write in /tech/project directory.

a. Login as Cassey and confirm the requisite permission

b. Login as Jane Williams and check if the hrd user can access /tech/project

SCREENSHOTS: a) display the ACL permissions for /tech/project and files in it b) `ls -l /tech/project`

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