# \*\* HUMBER Faculty of Applied Sciences & Technology

### **LAB - 06**

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 <u>single document</u> 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.
<b>Do not use <u>changeme</u> username</b> to do the lab, the lab(s) MUST be done using your own username as specified in PART-B of LAB-1, to
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.

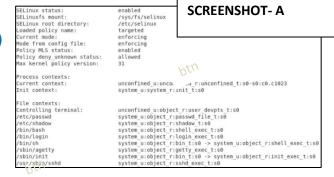
#### PRE LAB SHOULD HAVE BEEN COMPLETED FOR THIS LAB

In-class Activity: 31 - 49

In toronto VM

### **PART-H: SELINUX**

- 31. Check status of SELinux and current mode of SELinux
- 32. Check the selinux context set on currently logged in user (SCREENSHOT)
- 33. List selinux context of all process (SCREENSHOT)
- 34. List selinux context for files in your home directory (SCREENSHOT)
- 35. List the available selinux users (SCREENSHOT)
- 36. List selinux context for ports (SCREENSHOT)
- 37. Using semanage list Booleans (SCREENSHOT)
- 38. Using semanage list Booleans and filter for httpd (SCREENSHOT)
- 39. Using sestatus list Booleans and filter for nfs (SCREENSHOT)
- 40. Using getsebool list SELinux Booleans and filter for nfs\_export (SCREENSHOT)
- 41. Change the status of **nfs\_export\_all\_ro** to off (**SCREENSHOT**) and then change it back to **on (SCREENSHOT)**
- 42. Display report on security contexts set on files and process that are listed in /etc/sestatus.conf as per screenshot shown in SCREENSHOT-A (SCREENSHOT)
- 43. Create a directory /setest1 and using chcon command change selinux user to staff\_u and selinux context to public\_content\_t. (SCREENSHOT)
- 44. Create a directory /setest2 and using semanage and restorecon change selinux context to public\_content\_t. (SCREENSHOT)
- 45. List the SELinux mapped users. (SCREENSHOT)
- 46. Create user **seluser1**, and then map to SELinux user **user\_u** and list the mapping(**SCREENSHOT**)
- 47. SELinux mapping should be done while creating the user seluser2 and map to SELInux user staff\_u and list it. (SCREENSHOT with user creation command and then showing the user selinux mapping)





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- 48. Display current SELinux mode (SCREENSHOT), then change SELinux mode to **permissive** in command line (SCREENSHOT), reboot and display the SELinux mode(SCREENSHOT) (Is SELinux mode permissive or enforcing?)
- 49. Try changing permanently to **permissive** and then revert to **enforcing** as permanent.

#### PART-I: SALES (no sudo command must be used)

- 50. Login as sales department's manager and create directory named common in /sales
- 51. Create two files **sales1** and **sales2** with text "**sales**" in **/sales** and set user and group read and write and others no permission for the files **sales1** and **sales2**
- 52. Provide permission such that this **/sales/common** <u>directory</u> is **r** and **w** for user and group, and others **r** permission
- 53. Create file salescommon with text "salescommon" in /sales/common,
- 54. Provide permission such that <u>file</u> **salescommon** is **r** and **w** for user and group, and others **r** permission then **exit** the **sales** user.

<u>SCREENSHOT:</u> a) df -Th /finance /hrd /sales /tech b)sudo ls -ld /finance /hrd /sales /tech c) sudo ls -IR /finance /hrd /sales /tech

### PART-J: PERMISSIONS CHECK (no sudo command be used)

- 55. Login as any finance user and test the permission of /finance, /hrd, /sales, /tech (SCREENSHOT)
- 56. Login as any hrd user and test the permission of /finance, /hrd, /sales, /tech
- 57. Login as any sales user and test the permission of /finance, /hrd, /sales, /tech
- 58. Login as any tech user and test the permission of /finance, /hrd, /sales, /tech
- 59. Login as John Smith and test the permission of /finance, /hrd, /sales, /tech

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