LAB - 10

- ☐ **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.**

If *nnnn* is specified in the lab, it is your last four digits of your humberid which starts with n

- ☐ **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.**

This lab requires PRELAB to completed and separately submitted as mentioned in Blackboard.

Reference to your course resources could be required

Inclass Activity: 46 - 69

PART-F: SSH

46. From **toronto** ssh to **montreal** using your ***montreal username*** with ***montreal IP address*** **(SCREENSHOT)**
47. After successful ssh in to **montreal**,
    a. Check the hostname and IP address to confirm that you are now in **montreal (SCREENSHOT)**
    b. create files yulfile1, yulfile2, yulfile3, yulfile4, yulfile5
    c. list the files created **(SCREENSHOT)** and **Close the ssh connection with** montreal by typing **exit**
48. In **toronto** VM, list the files in ~/.ssh directory and view the content of the file.
49. Again ssh from **toronto** to **montreal** using your ***montreal username*** with ***montreal's short hostname*** and then close the ssh connection by typing exit. **(SCREENSHOT)**
50. From **montreal** ssh to **toronto** using your ***toronto username*** with ***toronto IP address***. **(SCREENSHOT)**
51. After successful ssh in to **toronto**,
    a. check the hostname and IP address to confirm that you are now in **toronto (SCREENSHOT)**
    b. create files yyzfile1, yyzfile2, yyzfile3, yyzfile4, yyzfile5, yyzfile6
    c. list the files created **(SCREENSHOT)** and close ssh connection with toronto.
52. In **montreal** VM, list the files in ~/.ssh directory and view the content of the file. **(SCREENSHOT)**

PART-G SCP (SCREENSHOTS all activities)

53. Being logged in **toronto** VM securely copy files yulfile1 and yulfile2 from **montreal** to your **toronto username's** home directory.
54. Being logged in **toronto** VM securely copy files yyzfile1 and yyzfile2 from **toronto** to your **montreal** username's home directory. **(SCREENSHOT ls -l min*; history |grep scp**)
55. Go to **montreal** VM, be in your **montreal** user's home directory and **SCREENSHOT ls -l gui***

PART-H SFTP (SCREENSHOTS all activities)

56. Being logged in **toronto** securely download files yulfile3 and yulfile4 from **montreal** to your **toronto** username's home directory.

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57. Being logged in **toronto** securely upload files yyzfile3 and yyzfile4 from **toronto** to your **montreal** username's home directory **(SCREENSHOT ls -l min*)**
58. Go to **montreal** VM, be in your **montreal** user's home directory and **SCREENSHOT ls -l gui***
59. Being logged in **toronto**, sftp to **montreal**. In sftp command prompt, type **!ls -l** and note which VM files are listed ?
60. Again in sftp prompt type **ls -l** and note which VM files are listed ?

Inclass Activity: 46 - 69

PART-I SSH LOGIN using RSA Key Authentication (SCREENSHOTS all activities)

61. Being logged into **toronto** VM, demonstrate ssh login using RSA Key Authentication from **toronto** to **montreal**

PART-J: SSH, SCP, SFTP FROM WINDOWS -> LINUX (SCREENSHOTS all activities)

62. Open Command Prompt in WS2019 VM and ssh to **toronto** machine **(SCREENSHOT)**
63. Type exit to close connection with **toronto**.
64. In WS2019 VM, create files winfile1, winfile2, winfile3, winfile4, winfile5
65. Use scp to copy file yyzfile5 from **toronto** (**SCREENSHOT)**
66. Use scp to copy file winfile1, winfile2 to **toronto (SCREENSHOT)**
67. Use sftp to upload files winfile3, winfile4 to **toronto (SCREENSHOT)**
68. Use sftp to download files yyzfile6 from **toronto (SCREENSHOT)**
69. Check in windows if you have .ssh directory similar to Linux

SCREENSHOT: doskey /history |grep ssh