IT 3850 Computer System Administration  
Spring 2022

**Laboratory # 7 - SFTP & SAMBA**

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1. **Objectives**
2. Explain how to enable an SFTP server.
3. Explain how to enable a SAMBA server.
4. **Material Required**

One RHEL Linux VM and Microsoft Windows 10 VM.

1. **Activity**
2. Go through the Web Server Module slides and videos available on Canvas.
3. On the RHEL server VM, configure SFTP by following the steps shared on Canvas.
4. On the RHEL server VM, configure SAMBA by following the steps shared on Canvas.
5. **Review Questions**

**\*Important\*. For each question where you are required for a screenshot, include the screenshot that clearly demonstrates you completed that step successfully.** Include any commands you executed for each step as well, if applicable**. All the screenshots for this lab and future labs must include your pawprint in the command prompt or have other information visible that identifies you (i.e. type/draw your pawprint).** This is to ensure that you are submitting your own work.

Answer the following questions and perform the following tasks. Construct your report in a document to submit on Canvas. Make sure to read the directions and the rubric carefully!

Include screenshots for questions 1 and 2 to demonstrate your work.

1. (SFTP) From an MS Windows 10 VM, use MobaXterm to access via SFTP to the RHEL server, create a file and name it as your pawprint. Provide a screenshot of the MobaXterm window showing the file created.
2. (SFTP) On the RHEL server VM, access the SFTP server through the command-line interface. Use the SFTP CLI to:
   1. List the contents of your SFTP server including the file you created through WinSCP. Provide a screenshot.
   2. Retrieve the file from the SFTP server and place the file in your user home directory. Then, list the contents of your local directory showing the file was copied successfully. Provide a screenshot of these commands being executed.
3. (SAMBA) From an MS Windows 10 VM use the File Explorer to access via SAMBA to the RHEL server, and:
   1. Provide a screenshot showing the windows authentication popup for your SAMBA server located on your RHEL VM.
   2. Create a file through your Windows system and name it as your pawprint. Provide a screenshot showing the file created in the **Windows** file explorer.
   3. On your RHEL system, provide a screenshot showing the file created in the **Linux** file system by listing the contents of your SAMBA file directory.
4. Provide a strong reason why you would recommend configuring an SFTP server.
5. Provide a strong reason why you would recommend configuring a SAMBA server over an SFTP server.