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Tutorial6: File Transfer / Sending Email Messages

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TRANSFERRING FILES BETWEEN COMPUTERS

Main Objectives of this Practice Tutorial

- List **common utilities** contained in the **ssh** application framework
- Securely **copy** files between Unix/Linux servers using the **scp** command
- Securely **transfer** copies of files between Unix/Linux servers using the **sftp** command
- Use the **ssh** command to run and view commands on a **remote computer** from a **local computer**.
- Use the **mail** command to send email with **file attachments** to your Seneca email account

Tutorial Reference Material

Course Notes	Definitions / Commands		YouTube Videos
Slides: <ul style="list-style-type: none">Week 6 Lecture 1 Notes: PDF PPTX	Definitions: <ul style="list-style-type: none">Secure CopySecure File Transfer ProtocolEmail	File Transfer Commands: <ul style="list-style-type: none">scpsftpmail	Instructional Videos: <ul style="list-style-type: none">Using scp CommandUsing sftp CommandUsing the mail Command

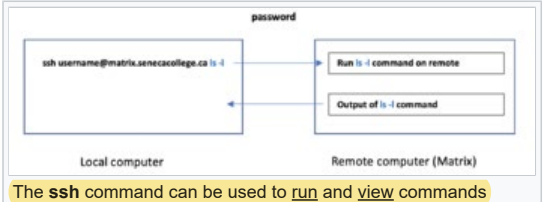
KEY CONCEPTS

The **ssh** Linux command is a **suite of tools** to allow the user to issue Linux commands securely between Unix / Linux servers, as well as securely **copy** and **transfer** files among Unix/Linux servers.

In this tutorial, you will learn several different methods to securely transfer files from your Matrix Linux account to other computers using Linux commands including **scp**, **sftp** and **mail**.

Issuing Commands on Remote Unix/Linux Servers

You can use the **ssh** command to issue Unix/Linux commands on a **remote** server from your **local** computer **without logging into a remote server** (such as Matrix).



Command Usage:

Tools

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`ssh username@matrix.senecacollege.ca ls -l`

on remote computer from a local computer.

You will be prompted for your Matrix account password, then the contents of your home directory in your remote Matrix account will be displayed on your local computer's terminal.

Secure Copy (scp)

The **scp** command is used to securely copy files between your **local** computer and **remote** Unix/Linux server. The usage for the *scp* command is similar to the **cp** command with the addition of **user name** and **host name**.

Command Usage:

```
scp local.file username@host:destination-  
pathname  
scp local.file username@host:  
scp user@host:file-pathname local-pathname
```

`scp local.file user@host:remote.filename`

The **scp** Unix/Linux command is used to securely copy files between Unix/Linux servers.

The most common **mistake** that students make is **forgetting to add the colon character ":" after the remote hostname**.

The **user name** in the command can be **omitted** if it's the **same as on the local host**. Multiple file and recursive directory copy (i.e. option **-R**) is supported.

Secure File Transmission Control Protocol (sftp)

FTP stands for **File Transfer Protocol** which provides a set of **rules** on how to convert data that is transferred between computers (both identical and **different operating systems**). The **sftp** command performs file transfers securely using **encryption**.

Command Usage:

```
sftp username@hostname
```

`sftp username@hostname`

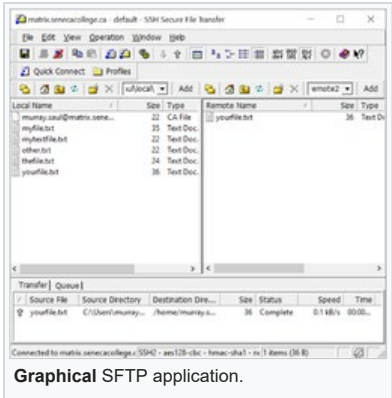
The **sftp** Unix/Linux command is used to securely transfer (copy) files between Unix/Linux servers.

When you login via the *sftp* command, the **sftp prompt** appears. The sftp prompt is like a Bash shell prompt, but with **a limited number of commands**. When issuing sftp commands, the local server relates to the server where you first issued the sftp command. Refer to the diagram on the right for **local** and **remote sftp** commands.

Graphical SFTP Applications

Although it is important to know how to use the **sftp** command for *quizzes*, *midterm* and *final exam*, there are **graphical sftp applications** that provide an alternative to issuing commands.

If you installed the graphical **Secure Shell Client** application in your Windows computer from performing **TUTORIAL 1 INVESTIGATION 1** , you can use this application to transfer files between your computer and your Matrix account by graphically **navigating**, **selecting** and **dragging** files between computers.



Sending Emails with File Attachment (mail)

You can use the **mail** command in Matrix to send email messages to other email accounts **via the Internet**.

Sending a Simple Email Message:

1. Type: `mail username@hostname` and press **ENTER**
2. Enter **subject line** and press **ENTER**

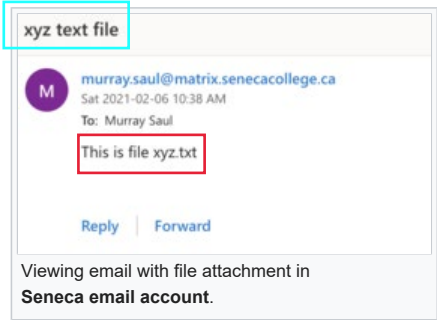
```
[ murray.saul ]  
[ murray.saul ] cat xyz.txt  
[ murray.saul ] This is file xyz.txt  
[ murray.saul ] mail -s "xyz text file" murray.saul@senecacollege.ca < xyz.txt  
[ murray.saul ]
```

3. Type the **body of the message** and then when finished, press **ctrl+d** to send message

Using the **mail** command with **redirection** to send email with file attachment.

Sending an Email Message with a File Attachment:

1. Type: **mail username@hostname -a filepathname** and press **ENTER**
2. Enter **subject line** and press **ENTER**
3. Type the **body of the message** and then when finished, press **ctrl+d** to send message



Alternative Method of Sending an Email Message with a File Attachment:

1. Type: **mail -s "subject line" username@hostname < filepathname**
2. Press **ENTER** to send

NOTE: You would have to use this method since you have used **stdin** redirection to attach the file's so you can't input the subject line from the terminal!

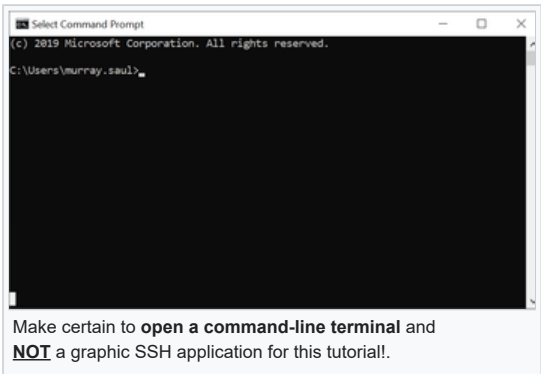
INVESTIGATION 1: FILE TRANSFER (SECURE COPY)

ATTENTION: This online tutorial will be required to be completed by **Friday in week 8 by midnight** to obtain a grade of **2%** towards this course

The **SSH** package on your *home computer* and on the *Matrix Linux server* contain a **suite** (i.e. collection) of secure utilities including **ssh** and **scp**.

In this investigation, you will learn how to use the **scp** command to **securely copy files** between your computer and your Matrix Linux server. This methods is useful because it can be performed in the *MS-Windows*, *MacOSx*, and *Unix/Linux* operating systems.

You will also learn how to issue the **ssh** command to run commands on your **remote** Matrix server while remaining on your **local** computer.



Perform the Following Steps:

1. Determine which operating system that your computer is using.
2. Connect to your Matrix account using the instructions in the table below based on your **current operating system**.

Newer Version of Windows 10:

- From the start menu, type **cmd** and launch program
- In the command terminal, enter the following command:
ssh senecausername@matrix.senecacollege.ca

MacOSX:

- Click *Launchpad* icon, type **terminal** and press **ENTER**
- In the terminal, enter the following command:
ssh senecausername@matrix.senecacollege.ca

Linux:

- From the menu, choose: **Applications > System Tools > Terminal**
- In the terminal, enter the following command:
ssh senecausername@matrix.senecacollege.ca

3. **NOTE:** Make certain to open a **command-line terminal** and NOT a graphical SSH application for this tutorial.
4. After logging into your Matrix account, issue to the **pwd** command to confirm you are in your home directory.

- 5. Issue the following Linux command to create the following directory:
`mkdir ~/remote`
- 6. Change to the `~/remote` directory and confirm that you have changed to that directory.
- 7. Use a text editor to create a text file called `myfile.txt`
- 8. Enter the following two lines displayed below in your editing session:
`This is my file`
`It is a small file`
- 9. **Save** editing changes to your `myfile.txt` file and exit your text editor.
- 10. Let's run a **shell script** to check that you created the `remote` directory and that you created the `myfile.txt` file (with correct file contents) in that directory.

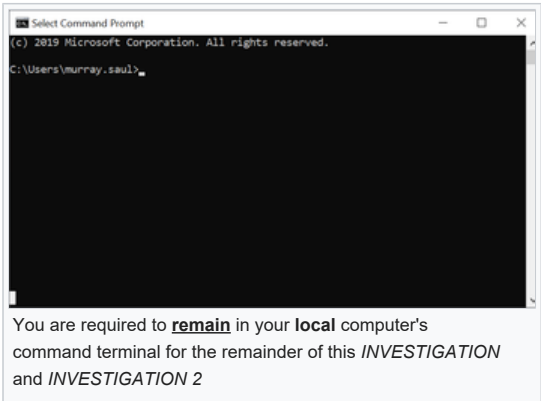
Enter the following command: `~uli101/week6-check-1`

- 11. If you encounter errors, make corrections and then re-run the checking script until you receive a congratulations message, and proceed to the next step.

NOTE: We will now learn to transfer files between your local home computer and your remote Matrix Linux server.

- 12. **Exit your Matrix ssh session** but remain in the *command terminal* on your local computer..

ATTENTION: You are required to remain in your local computer's command terminal for the remainder of this *INVESTIGATION* and *INVESTIGATION 2*.



- 13. The `mkdir` command works with *MS Windows/UNIX/Linux/MacOSx computers*. Issue the following command on your local computer to create a directory called `local`: `mkdir local`
- 14. The `cd` command works with *MS Windows/UNIX/Linux/MacOSx computers*. Issue the following command on your local computer to change to the `local` directory: `cd local`
- 15. If you are using MS Windows on your local computer, issue the `dir` command to confirm you are in the `local` directory; otherwise, use the `pwd` command.
- 16. If you are in MS Windows, open the **GRAPHICAL Notepad** application to create a text file (Otherwise, use the `nano` or `vi` text editor).
- 17. Enter a few lines of text, and if using **Notepad**, then click on the **File** menu and select **save as** (save as the filename `other.txt` in your `local` directory) and then **exit** the *Notepad* text editor.

NOTE: if using another text editor, save your editing session and exit the text editor.

- 18. If your OS is MS Windows issue the `dir` Windows command to view the contents of your current directory (otherwise, issue the `ls` command for other operating systems).

We will use the `scp` command to copy the local file called `other.txt` to your home directory on your remote Matrix Linux server.

`upload`

- 19. Issue the following Linux command to copy the `other.txt` file from your local machine to your remote Matrix server (replace yoursenecaid is YOUR Seneca ID and **ADD A COLON : TO THE END OF THE COMMAND**):
`scp other.txt yoursenecaid@matrix.senecacollege.ca:`

20. When prompted, enter your Matrix **password**.

TIP: You can issue the `ssh` command, followed by a command that will be run on your remote computer, but display on your local computer **without** having to establish a continuous connection to your remote Matrix server.

21. Issue the following command (using your matrix username):

```
ssh yoursenecaid@matrix.senecacollege.ca ls -l other.txt
```

22. When prompted, **enter your password** and press **ENTER**.

```
ssh username@matrix.senecacollege.ca ls -l other.txt
#####
# Welcome to Matrix
# You are accessing a private utility and information that is strictly
# confidential on a server owned by Seneca College and maintained by
# Information Technology Services
# All connection attempts are logged and strictly monitored.
# All unauthorized connection attempts will be fully investigated
# and dealt with appropriately.
# All activities on this system are governed by
# Seneca Information Technology Acceptable Use Policy
# For complete ITAU policy visit http://www.senecacollege.ca/policies/itau.html
#####
Starting September 1, 2020, Login to VPN will be required to SSH to matrix.
Students: studentvpn.senecacollege.ca
Faculty: senecavpn.senecacollege.ca
Instruction on using VPN: https://inside.senecacollege.ca/its/services/vpn/

username@matrix.senecacollege.ca's password:
-rw-r--r-- 1 username users 22 Jan 27 10:55 other.txt
```

You can issue the `ssh` command, followed by a **command** that will be run on your **remote** computer, but **display** command output on your **local** computer.

Do you see detailed information **other.txt** file? (look at bottom) **Yes**

That command was run remotely on your Matrix server as confirmation that you securely copied that file to the home directory of the Matrix server.

download
Let's copy the file called **myfile.txt** in the **~/remote** directory that you created earlier in your Matrix account to your **local** directory on your home computer.

23. Issue the following Linux command (replace yoursenecaid is YOUR Seneca ID).
The period "." as **second argument** represents your current directory on your local computer):

```
scp yoursenecaid@matrix.senecacollege.ca:remote/myfile.txt .
```

24. Issue the **dir** or **ls** command (depending on the OS of your local computer) to confirmed your properly copied that file from Matrix.

25. Use the **Notepad** application (or **vi** for other OS types) to create a text file called **mytextfile.txt**, type some text and then save in the **local** directory of your computer.

26. Issue the **dir** or **ls** command (depending on your OS) to confirm that your newly-created file exists in your **local** directory.

27. We are going to intentionally make a **mistake** with the **scp** command.
Issue the following Linux command to copy the **mytextfile.txt** file from your local machine to your remote Matrix server (replace yoursenecaid is YOUR Seneca ID and DO NOT INCLUDE THE **:** at the end of the command so see what happens):

```
scp mytextfile.txt yoursenecaid@matrix.senecacollege.ca ***missing a colon
```

Did you notice anything different (i.e. no password)? **no password prompt**

28. Issue the following command (using your matrix username):

```
ssh yoursenecaid@matrix.senecacollege.ca ls -l mytextfile.txt
```

29. When prompted, enter your password and press ENTER.

The file **mytextfile.txt** does **NOT** appear in your home directory on your Matrix server!
Note that the COLON was NOT added to the end of the command! Therefore, you **MUST** remember to include the **COLON :** at the end of the hostname, or it will **NOT** remotely copy the file!

30. Issue the following command to properly copy that same file to your Matrix server:

```
scp mytextfile.txt yoursenecaid@matrix.senecacollege.ca:
```

31. Issue the following command to confirm that it was remotely copied to your **home** directory in Matrix:

```
ssh yoursenecaid@matrix.senecacollege.ca ls -l /home/yoursenecaid/mytextfile.txt
```

Do you see the output for the detailed file listing of **mytextfile.txt**? **Yes**

- What does this indicate? This indicate that I have successfully upload the file to the remote Matrix server from my local computer
32. Issue the following command to copy the **other.txt** file on your local computer to the **~/remote** directory in Matrix renaming it as **different.txt**:
- ```
scp other.txt yoursenecaid@matrix.senecacollege.ca:remote/different.txt
```
33. Issue the following command to confirm that the file was remotely copied to your **~/remote** directory in Matrix with a different filename:
- ```
ssh yoursenecaid@matrix.senecacollege.ca ls -l /home/yoursenecaid/remote/different.txt
```
- Were you able to properly copy this file? Yes
- Let's issue a checking script remotely to see that you properly copied that file from your local computer to your remote Linux server to both your **home** directory and **~/remote** directory.
- ```
ssh tw Wong9@matrix.senecacollege.ca /home/uli101/week6-check-2
```
34. Issue the following:
- ```
ssh yoursenecaid@matrix.senecacollege.ca ~uli101/week6-check-2
```
- because it uses local
- If you encounter errors, re-run the scp commands to correct and re-run the above command until you receive a congratulations message.
35. Remain in the terminal on your local computer and proceed to *INVESTIGATION 2*.
- In the next investigation, you will use the **sftp** Linux command to transfer (i.e. copy) files between your local computer and the Matrix server.

INVESTIGATION 2: FILE TRANSFER (SECURE FTP)

The **SSH** package on your *home computer* and on the *Matrix Linux server* contain a **suite** (i.e. collection)of secure utilities including **ssh** and **sftp**.

In this investigation, you will learn how to use the **sftp** command to **transfer** files between Unix/Linux servers. This methods is useful because it can be performed in the *MS-Windows, MacOSx, and Unix/Linux* operating systems.

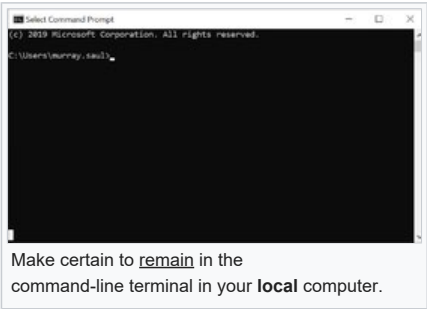
You will also learn how to issue the **ssh** command to run commands on your **remote** Matrix server while remaining on your local computer.

Command Line Terminal (CLI)

Let's look at using the **sftp** command on your **local** machine.

Perform the Following Steps:

1. Make certain that you are in a command terminal on your local computer (i.e. do **NOT** log into your Matrix account).
2. Issue a command (depending on your OS) to confirm that you are located in the **local** directory in your home computer.
3. If you are in MS Windows, open the **NotePad** application to create a text file (otherwise: use another text editor like **vi** or **nano**)
.
4. Enter a few lines of text, and then click on the **File** menu and select **save as** (save as the filename **thefile.txt** in your **local** directory) and then **exit** the *Notepad* text editor.



- If you using another OS, then save-as using the same filename and directory location for the text editor you are using.
5. If your OS is MS Windows issue the `dir` Windows command to view the contents of your current directory (otherwise, issue the `ls` command for other operating systems).
- Note:** the relative pathname symbols "." and ".." work for the *Windows/MacOSx/Unix/Linux* operating systems.
6. Issue the following command to move to the **parent** directory: `cd ..`
7. If your OS is MS Windows issue the `dir` Windows command to view the contents of that parent directory that you changed to (otherwise, issue the `ls` command for other operating systems).
8. Issue the following command to start an **sftp** session (note: yoursenecaid is YOUR Seneca ID):
`sftp yoursenecaid@matrix.senecacollege.ca`

- NOTE:** You may be required to enter **yes** to have the public key shared.
9. You should be in the **sftp command prompt** where you are expected to issue **sftp commands**. Please take a moment to view common local and remote sftp commands on the right-side table.

Operation	sftp Command (Local Server)	sftp Command (Remote Server)
Display current working directory	lpwd	pwd
Display directory contents	lls	ls
Create Directory	lmkdir	mkdir
Change directory location	lcd	cd
Upload file to remote server	put	-
Download file to local server	get	-

Common **sftp** commands to manage the transfer of files between computers.

10. Issue the following *sftp command*: `pwd`
- What is the pathname? Which server does this represent: local or remote? `remote`
Remote working directory: `/home/twwong9`
11. Issue the following *sftp command*: `lpwd`

- What is the pathname? Which server does this represent: local or remote?
Local working directory: `/Users` `local`
12. Issue the following *sftp command* to create a directory on your remote server: `mkdir remote2`
13. Issue the following *sftp command* to confirm that the **remote2** directory has been created in your remote server's home directory:
`ls`
14. Issue the following *sftp command* to change to the **remote2** directory on your **remote server**:
`cd remote2`
15. Issue the **pwd** *sftp command* to confirm that you have changed to the **remote2** directory on your remote server.
Remote working directory: `/home/twwong9/remote2`
16. Issue the following *sftp command* to change to the **local** directory on your local computer:
`lcd local`
17. Issue the **lpwd** *sftp command* to confirm that you have changed to the **local** directory on your local computer.
Local working directory: `/Users/locus/local`
18. Issue the following *sftp command* to transfer the file called **thefile.txt** to the `~/remote2` directory on your remote server:
`put thefile.txt`
19. Issue the **ls** *sftp command* to confirmed that you transferred the file called: **thefile.txt**

- Let's **create another directory on your local computer called local2** so we can learn to download a file from your remote directory.
20. Issue the following *sftp command* to change to the **parent** directory on your local computer:
`lcd ..`

21. Issue the **lpwd** *sftp command* to confirm that your current working directory on your local computer is your home directory.
22. Issue the following *sftp command* to create the following directory on your local computer:
`mkdir local2`
23. Issue the following *sftp command* to change to the **local2** directory on your local computer:
`lcd local2`
24. Issue the **lpwd** *sftp command* to confirm you have changed to the **local2** directory on your local computer.
 Local working directory: /Users/locus/local2
 Let's learn to download a file from your remote server to your local computer.
25. Issue the following **sftp command** to transfer your **thefile.txt** file from the **remote2** directory on your remote server to your local computer:
`get thefile.txt`
26. Issue the **lls** *sftp command* to confirm that you transferred the file **thefile.txt** to your local computer.
27. Issue the following *sftp command* to exit the sftp utility: **exit**
28. Issue the following Linux command to remotely run a checking script to ensure you created the correct directories and properly transferred those created files:
`ssh yoursenecaid@matrix.senecacollege.ca ~uli101/week6-check-3`
29. If you encounter errors, make corrections and then re-run the checking script until you receive a congratulations message.

FYI: To run a checking program to check if you created the **local** and **local2** directories in MS Windows would require running a local-based script (like **PowerShell**). Since this is a Unix/Linux based course, we don't have a PowerShell script, so we will ignore checking for files transferred to your local computer.

In the next investigation, you will learn an alternative way to transfer a file to another computer server by sending an **e-mail message with an attached file**.

INVESTIGATION 3: FILE TRANSFER (EMAIL)

The **Matrix** server is also an **email server** that can allow you to **send** emails messages to other email accounts.

In this investigation, you will learn how to **transfer** a file from your Matrix server to another computer by sending an **email message** with a **file attachment**.

Perform the Following Steps:

1. Make certain that you connect and login to your **Matrix** server and confirm that you are located in your **home** directory.
2. Issue the following Linux command (using your Seneca-ID):
`mail yoursenecaid@myseneca.ca`
3. When prompted, enter the **subject line**: **Test Message** and press **ENTER**
4. In the email message **BODY** section, type the following text displayed below (and press **ENTER**):
This is a test email message
5. Press **ctrl-d** to send your email message. `control not command button`

Did any output display? What you do think **EOT** stands for? **End of transmission**

6. Launch a **web-browser**, login into your **Seneca email** account and check for new email messages.

- Did you receive the email message that you sent from your Matrix server? **Yes**
- If you did NOT receive an e-mail message, check the **JUNK** or **CLUTTER** folders.
If you still did not receive an email message, return to your terminal and re-issue the **mail** command making certain that you pressed **ctrl-d** instead of pressing **ctrl-c**
- Return to your terminal (i.e. Linux Bash shell) and issue the following Linux command:
mail -a ~/remote/myfile.txt yoursenecaid@myseneca.ca
 - When prompted, enter the subject line: **Test Message with Attachment** and press **ENTER**
 - In the email message **BODY** section, type the following text displayed below (and press **ENTER**):
This is a test email message with a file attachment
 - Press **ctrl-d** to send your message.
 - Switch to your Seneca email and check for new email messages.

- Did you receive that email message? Does the email contain a file attachment?
Yes. It contains a myfile.txt in the email.
- Return to your Linux Bash shell and issue the following Linux command:
mail yoursenecaid@myseneca.ca < ~/remote/myfile.txt
- What happened? Were you prompted for subject and could you enter text in email body? **Nothing to be executed and prompted for input**
Did you see a file attachment as a separate file, or just text?
I didn't see anything
- Check your email to see if you received your email message. If you did, what do you notice regarding the subject line?
I didn't receive any email
- You should have noticed that there was **NO** customized **subject line**, since you redirected **standard input (stdin)** from the file, so there was no way for the user to send a subject line.
- You can use the **-s** option, followed by text (in quotes) to **specify a subject line**.
- Return to your Linux Bash shell and issue the following Linux command:
mail -s "email with attachment" yoursenecaid@myseneca.ca < ~/remote/myfile.txt
 - Check your email to see if you received your email message. If you did, what do you notice this time?
Yes. The email takes the content of myfile.txt as the body message with the subject "email with attachment".
 - After completing this INVESTIGATION, perform the LINUX PRACTICE QUESTIONS at the end of the tutorial.

LINUX PRACTICE QUESTIONS

The purpose of this section is to obtain **extra practice** to help with **quizzes**, your **midterm**, and your **final exam**.

Here is a link to the MS Word Document of ALL of the questions displayed below but with extra room to answer on the document to simulate a quiz:

https://github.com/ULI101/labs/raw/main/uli101_week6_practice.docx

Your instructor may take-up these questions during class. It is up to the student to attend classes in order to obtain the answers to the following questions. Your instructor will NOT provide these answers in any other form (eg. e-mail, etc).

Review Questions:

- Write a Linux command to copy a file in the current directory called **mytext.txt** from your Matrix account to your account called **user1** on the Linux server domain name called **tech.myserver.com** to that user's home directory.
- Write a Linux command similar to the previous question, but rename the file on the remote Linux server to **yourtext.txt**
- Write a Linux command to copy a file called **~/project/linux.txt** to the remote server called **linux.techie.org** (your username for this remote server is the same username for your local server).

- 4. Write a Linux command to connect to the username **saulm** for the server domain name **tux.senecac.on.ca** to transfer files between Linux servers.
- 5. Assuming that you are connected to that server in *question #4*. What is the sftp command to display your current working directory on your local server?
- 6. Assuming that you are connected to that server in *question #4*. What is the sftp command to view files in your local server?
What is the sftp command to view files in your remote server?
- 7. Assuming that you are connected to that server in *question #4*. What is the sftp command to download the file answers.txt from the current directory of your remote server?
- 8. Assuming that you are connected to that server in *question #4*. What is the sftp command to upload the file questions.txt from your local server to the **~/documents/tests** directory on your remote server?
- 9. Assuming that you are connected to that server in *question #4*. What is the sftp command to quit your current session?

- 10. Write a Linux command to send the attached file **message.txt** to the email address **murray.saul@senecacollege.ca** with the subject line: **Important Message**
- 11. Create a **table** listing each Linux command, useful options and command purpose for the following Linux commands: **scp** , **sftp** , **mail**.
- 12. Create a **table** listing each **sftp command** and it's purpose.

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