System Administration 1 Activity Sheet

# Activity 1: Easter Egg Hunt

Try to find the following files in various locations in your file system.

The ten files to search for are:

1. [Ant-Man](https://www.britannica.com/topic/Ant-Man-and-the-Wasp)
2. [Aquaman](https://www.britannica.com/topic/Aquaman)
3. [Asterix](https://www.britannica.com/topic/Asterix-cartoon-character)
4. [The Atom](https://www.britannica.com/art/The-Atom-comic-strip-hero-DC-Comics)
5. [The Avengers](https://www.britannica.com/topic/the-Avengers-superhero-team)
6. [Batgirl](https://www.britannica.com/topic/Batgirl)
7. [Batman](https://www.britannica.com/topic/Batman-fictional-character)
8. [Batwoman](https://www.britannica.com/topic/Batwoman)
9. [Black Canary](https://www.britannica.com/topic/Black-Canary)
10. [Black Panther](https://www.britannica.com/topic/Black-Panther-comic-book-character)

**More advanced users**: Try finding the file locations without using the change directory and ls commands.

**Hint**: Look at the find command

# Activity 2: GenCyber Principles

1. Create a text file and name it Principles.txt under the Desktop folder using the nano editor
2. List out all the GenCyber principles you can recall in the text file
3. Save the file and create a backup
   1. The backup should be named PrinciplesBackup.txt

# Activity 3: Create a Superhero

1. Create a text file and name it Superhero.txt under the Desktop folder
2. In the text file, list all the details about your custom superhero.
3. Save the file and create a backup
   1. The backup should be named SuperheroBackup.txt

System Administration 1 Cheat Sheet

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| **File System Commands** | |
| pwd | Lists where you are |
| ls | Prints out all directory contents (files and folders) |
| ls \*.txt | List out and filter only text files |
| ls -la or ls -l -a | List out all hidden files and other information on files, including permissions. |
| ls -d \*/ | List only directory names |
| cd (e.g., *cd directoryname*) | Change directory |
| mkdir (e.g., mkdir directoryname) | Make a new directory |
| rmdir (e.g., rmdir directoryname) | Remove a directory |
| history | It shows the command history. For example, issuing ![number] will run the command with the number next to it. |
| compgen -c | Lists all the system commands you can run. |

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| **Reading/Writing Files Commands** | |
| cat (e.g., *cat filename.txt*) | Used to print out file contents to the terminal window |
| less (e.g., *less filename.txt*) | Used to read large files without cluttering the screen |
| tail (e.g., tail filename.txt) | Output the last part of a file |
| nano (e.g., nano filename.txt) | Used to create and edit a file |
| cp (e.g., cp filename.txt newfilename.txt) | Make a copy of a file. |

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| **Searching for Files Commands** | |
| find (e.g., find . -name '\*.txt') | Used to search the file system |