Unix Family of Operating Systems

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**This assignment contains the results of running basic *bash* commands and scripts.**

1. *whoami*

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1. *users*

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1. *ls*

*ls -ls* – Lists files in order, sorted by file size, largest to smallest.

*ls -i* – Lists files with inode identification number, normally hidden.

*ls -a* – Lists all files, including hidden files (ex *.env*).

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1. *chmod*  - Everyone is set to be able to read this file through the command

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1. Check any 3 environment variables – checking my current terminal language setting, my root terminal path, and the path of my NVM (Node Version Manager) directory path.

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1. *grep* – Searches for a pattern in a file

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1. *grep and sort* – To find a string in a list of files in a directory.

This command, *grep an file-dir -r -h | sort -d,* runs a search on all files (text1.txt, text2.txt, and text3.txt) in the directory *file-dir/* for the pattern “an”, which then pipes to a sort function which arranges the resulting rows in dictionary order with the *-d* flag.

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1. *sudo* account – The use of the “super user” account is in situations where a user needs to execute protected commands or applications in a Unix-based OS. While logged in as the “super user” account, a user can execute any and all system applications, change file ownership, bind ports numbered under 1024, and modify the root directory (Gite, 2018).

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1. Five different, useful commands.
   1. *find –* This command allows the user to search for files or directories matching a certain pattern or file type. It can take wild characters (like “\*”) as well.

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* 1. *traceroute –* This command sends a packet to a designated web address and tracks what servers and and locations the packet travels through to arrive at its destination.

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* 1. *vi* – This command opens an in-console editor for files.

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*Command to open the vi editor.*

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*The vi editor open on a file.*

* 1. *gzip* – This utility compresses files and/or directories together into minified packages using Lempel-Ziv encoding algorithms.

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References

Gite, V. (2018, December 2). Linux Login as Superuser ( root user ). Retrieved January 11, 2020, from <https://www.cyberciti.biz/faq/linux-login-as-super-user/>.

Kamara, I. (n.d.). match command-line arguments to their help text. Retrieved January 10, 2020, from https://explainshell.com/.