**Lesson 3 – Network Security**

**\*\*Instructions:** Please change the text color of your responses to red text. Please organize the endings to each page.

**ACTIVITY 3.1.3 – ANALYZING PROCESSES**

**VOCABULARY**

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| shell |  |
| pipe |  |
| spawn |  |
| background process |  |
| root directory |  |

**LINUX BASED COMMANDS**

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| **COMMAND** | **DESCRIPTION** |
| ls | List the contents of a directory. With:  No argument list the current working directory.  -l return a long listing showing permissions and other information.  -a a list all files, specifically hidden files beginning with a . (dot).  -R show the entire directory structure, recursively listing all contents. |
| cd | Change directory.  cd [filename] changes to a subdirectory.  cd .. changes to the parent directory.  A . (dot) indicates the current directory. |
| pwd | Print the working directory. |
| cat | Display the contents of a file. (From concatenate.) |
| mkdir | Create (make) a directory. |
| mv | Move a file/directory to a new name and/or location. The general syntax for the move command is mv [source] [destination]. |
| touch | Create a file and/or change the file timestamp to the current time. |
| cp | Copy a file/directory to a new name and/or location. Syntax is cp [source] [destination]. |
| rm | Delete (remove) a file. |
| rmdir | Delete (remove) an empty directory. |
| File | Show a file’s type, as determined by the operating system. |
| Gpg | Encrypt/decrypt a file. With:  -c Create an encrypted version of a file.  -d Decrypt the encrypted version of a file. |
| ps |  |
| more |  |
| bg/fg |  |
| Grep |  |
| Su |  |
| kill |  |

What is the PID of your -bash? (After Step #12 i)

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What is the PPID (the parent process ID) of the process that spawned (launched) your -bash process? (After Step #12 ii)

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What is the PPID (the parent process ID) of the process that spawned (launched) your -bash process? (After Step #12 iii)

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Notice the other users on the system. Other than you, alpha, what other users have processes running on the system? (After Step #14)

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Record what Ctrl+C and Ctrl+Z do to a process. (After Step #23)

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In alpha’s shell, find and record the PID of beta’s bogus\_sw command. (After Step #30)

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Record bogus\_sw’s PPID—its parent process, which should be bash . Find the PPID in beta’s process tree and note the name of that parent process. (After Step #31)

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Record what Ctrl+C and Ctrl+Z do to a process. (After Step #23)

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**CONCLUSION**

Describe the actions you should take to secure the system.

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If gamma is an employee of your company, what might you say to them?

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