**Quiz – CTF Linux Flags**

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Please note that this assessment will only work with the K12 CYBER SECURITY CONCEPTS USING KALI LINUX on the Virginia Cyber Range. It will not work on any other Linux box. If a lab on the Virginia Cyber Range hasn’t been assigned to you, please check with your instructor.

Note: This quiz requires use of the find command. When find queries a file that your user does not have permissions for, it will generate and error. These errors can fill up the screen. To make the errors go away, add 2>/dev/null to the end of your command to redirect the errors to the trash.

Question 1) FLAG 01: Simple flag (100pts)

There is a flag in the root's home directory (note this is /root and not the root directory (/)), you will know that it is a flag. (The answer is the file name of the flag).

Answer:

Question 2) FLAG 02: Find another flag and win big! (100pts)

Find the flag inside the file flag2. The answer is the string that the flag asks you to enter.

Answer:

Question 3) FLAG 03: There is a private file that starts with the word privacy -- see the clue from FLAG 02 (Linux). What is the full name of the file? The answer is the entire filename including the extension, e.g., privacy.exe ). (100pts)

Answer:

Question 4) FLAG 04: What does the private file say? (150pts)

The answer is the flag from the private file. You will know what the flag is when you find it.

Answer:

Question 5) FLAG 05: The range is the rage! (150pts)

How many files with the word cyber\_range in the file name are on the Linux machine? The answer is a number. Note: For this question use the sudo command before find.

Answer:

Question 6) FLAG 06: Who is this user? (150pts)

Identify the username of the user with user id = 0. Answer is just the username (one word).

Hint! Check the file: /etc/passwd.

Every line in this file corresponds to a user and is of the format:

username:x:userid:groupid:groupname:usershomedirectory:users\_shell.

Answer:

07 - Another flag! (150pts)

Find flag4 and enter the data inside it.

Answer:

08 - Hidden flags (200pts)

There is a file inside the directory: /root/.quiz. Find the flag inside the file. Note, the file may be hidden. Flag format is: FLAG-XY-ABCD (e.g., FLAG\_ID\_12$\*, the ABCD part can be longer). Use sudo when running the command.

Answer:

09 - Run this program and get a flag. Use sudo when running the command. (200pts)

Go to the hidden folder from question 8 and run the range.sh program to get the flag. Flag format: FLAG-XY-ABCD

Answer:

10 - All on your own! (250pts)

Flag based on a file named range2.sh. Find it.

Answer: