**ITCS 461 Computer & Communication Security Date : ­­­\_\_\_8/2/2022\_\_\_\_\_**

**ID: 6288102 Name: Krissanapong Palakham Section :** \_\_\_\_1\_\_\_\_\_\_

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**Lab 4 : Linux File System Permission**

Follow Lab 4 document (Lab4.pdf) and answer these questions:

**Part I: Login as Alice**

**Question 1:** (at ~)

1. Try the command “id”, then write down these values

“uid”: 1002

“gid”: 1005

“groups”: 1005,1001,1337

1. What is your current directory? /home/alice
2. Is there any file inside the current directory? Y (Y/N)
3. If the answer is yes, what is the file’s content README.txt

**Question 2:** (at /team1)

1. How many files are inside the directory? 2
2. See the content inside “members.txt”, who are the members listed in the file? Alice and Bob
3. What is the permission of “members.txt” (answer using both “rwx” format and

number format)? -rw-r—r--

1. Can you see inside “secret.txt”? Y (Y/N)

If yes, what is the secret? 81dc9bdb52d04dc20036dbd8313ed055

1. What is the permission of “secret.txt” (answer using both “rwx” format and number format)? -rw-------
2. Who is the owner of “secret.txt”? Alice
3. What is the group of “secret.txt”? team1

**Question 3:** (at /team2)

1. Can you go inside directory “/team2”? N (Y/N)

If yes, how many files are inside “/team2”?

1. What is the permission of the directory “/team2” (answer only in “rwx” formats)? Can go inside the directory, but can’t read the directory
2. Who is the owner and group of “/team2” directory? Root and /team2

**Part II: Login as Bob**

**Question 4:** (at ~)

1. Try the command “id”, then write down these values

“uid”: 1001

“gid”: 1004

“groups”: 1004,1001,1337

1. Does Bob have any same group as Alice? Y (Y/N)

If yes, what are they? 1001,1337

**Question 5:** (at /team1)

1. How many files are inside the directory? 2
2. Is it changed from Question 1? N (Y/N)
3. Can you (as Bob) see inside “secret.txt”? N (Y/N)

If yes, what is the secret?

If no, why can’t you see it? Permission to alice

**Question 6:** (at /team2)

1. Can you go inside “/team2” directory? Y (Y/N)
2. Can you see files inside “/team2” directory? N (Y/N)
3. We know that there is “members.txt” inside this directory. Can you see the content of this file? Y (Y/N)

**Question 7:** (at /share)

1. What is the permission of “announcement.txt” (answer in both “rwx” format and

number format)? -rw-rw-r-- 664

1. Who is the owner and group of “announcement.txt”? root
2. See inside “announcement.txt”, what is the code? C13367945d5d4c91047b3b50234aa7abx
3. What is the permission of this directory (answer in “rwx” format)? drwxrwxr-x

**Part II: Login as Charlie**

**Question 8:** (at ~)

1. Try the command “id”, then write down these values

“uid”: 1003

“gid”: 1006

“groups”: 1006,1001,13375

1. Does Charlie have any same group as Alice? Y (Y/N)

If yes, what are they? 1001

**Question 9:** (at /team2)

1. Can you go inside the directory “/team2”? Y (Y/N)
2. Can you see files inside the directory “/team2”? Y (Y/N)
3. Who is the owner and group of the file “secret.txt”? root and team2
4. What is the permission of “secret.txt” (answer both “rwx” format and number

format)? -rw------- 600

1. Can you read the file “secret.txt”? Y (Y/N)

If yes, what is the secret inside the file? 6774f3c2c1a8a6f90461e8a66fb5550ba

**Question 10:** (at /team1)

1. Can you go inside the directory “/team1”? N (Y/N)
2. Can you list the files inside directory “/team1”? N (Y/N)
3. We know that there is “members.txt” in this directory. Can you see the content of the file? N (Y/N)

**Question 11:** (at /share)

1. Can you go inside the directory “/share”? Y (Y/N)
2. Can you list files inside the directory? Y (Y/N)
3. Can you see the content of “announcement.txt”? Y (Y/N)