





Homework #1

1. Install VMware player (or Virtual Box) on your machine
2. Install Ubuntu linux – ***Set the user name as your first name.***
3. Logging as a user and start a Terminal (Applications→Accessories→Terminal)
4. Change the root password to "1234" by using "sudo passwd".
7. Compare the command "echo Hello" and "Echo Hello"
 - (1) Take a screenshot 
 - (2) Explain the reason of the result
8. Press "CTRL+d" or "ALT+F4"
 - (1) Describe what happens
9. Start a Terminal, then do "su" (enter the password, "1234"), then do "groupadd defender", then do "groupadd attacker", then do "groupadd neverland", then do "useradd peterpan -m -s /bin/bash -G defender,neverland", then do "useradd hook -m -s /bin/bash -G neverland", then do "passwd peterpan" (set new password (1234)), then do "passwd hook" (set new password(1234)), then do "usermod -a -G attacker hook", then do "tail /etc/passwd", then do "tail /etc/group", then do "id peterpan", then do "id hook", do "exit"
 - (1) Take a screen shot 
 - (2) Describe the meaning of the commands
 - (a) "useradd peterpan -m -s /bin/bash -G defender,neverland"
 - (b) usermod -a -G attacker hook
 - (3) Describe GID and members of new groups (defender, attacker and neverland), UID of new users (peterpan, hook)
10. Do "clear", and do "whoami" command, then do "su peterpan" (enter the password), then do "whoami", then do "su hook" (enter the password), then do "whoami", then "su" and enter root password (1234), then do "whoami", then do "exit", then do "exit", then do "exit" , then do "whoami"
 - (1) Take a screen shot 
 - (2) Explain the functionality of "su" and "whoami"
 - (3) Explain why three times of doing "exit" is required.
11. Do "last" command, then take a screen shot 

Problems

1. Create a new user "wendy". (Conditions : "Wendy" is included in two groups, "neverland" and "defender". The home directory of "Wendy" will be "/home/wendy", and the shell will be "/bin/bash".)

(1) List the required commands sequentially, and describe their roles.

(2) For validating the operations of the commands, print the contents of "/etc/passwd" file and "/etc/group" file by tail and take the screenshot. 📷

1. 새로운 유저 "wendy"를 생성한다. (조건 : Wendy는 neverland과 defender 그룹에 속한다. Wendy의 home directory는 /home/wendy이고, wendy의 shell은 /bin/bash를 사용한다.)

(1) 수행해야 할 명령어들을 순서대로 나열하고 그 역할을 설명하시오.

(2) 결과의 확인을 위해 /etc/passwd와 /etc/group파일의 내용을 tail로 출력하여 캡처한다. 📷

2. Describe what is "/etc/login.defs" file, and list the important configuration parameters with simple explanation.

3.

(1) Create the following 3 users

- tester1 : UID = 2001, default-group = class1

- tester2 : UID = 2003, default-group = class1, other-groups = class2

- tester3 : UID = 2005, default-group = class2, other-groups = class1, class3

To verify the results, print the contents of "/etc/passwd" file and "/etc/group" file by tail and take the screenshot. 📷

(2) Then, set a group password for class2 as "13579".

After then, switching user to "tester1" (su) and initiating a new session with class2 GID (newgrp).

To check the session run "id" command.

To verify the results, take the screenshot of this procedure. 📷