

3X0-104

Sair

Linux Security, Privacy and Ethics (Level 1)

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Question: 1

Kathryn wants to maximize security on her system by replacing ftpd with a program that logs requests, denies unauthorized users, and runs the original ftpd daemon. What should Kathryn use?

- A. TCP wrappers
- B. A VPN
- C. Tripwire
- D. Packet filters

Answer: A

Question: 2

John has just set up shadowing on his Linux machine. As root, he looks in the /etc/shadow file and finds the line below. Which of the following is TRUE about the line he found?

```
jsmith:H7o12v$s:100:0:60:7:3::
```

- A. The user jsmith's account has been disabled for 100 minutes.
- B. The user jsmith's password can only be changed after the current password has been active for 3 days.
- C. The user jsmith will be warned for 60 days until his password expires.
- D. The user jsmith's account will be disabled 3 days after his password expires.

Answer: D

Question: 3

John would like the finger daemon to be TCP wrapped. He finds the line below in the /etc/inetd.conf file. How should he change this line to enable wrapping of the finger daemon?

```
finger stream tcp nowait nobody /usr/sbin/in.fingerd
```

- A. finger stream tcpd nowait /usr/sbin/in.fingerd
- B. finger stream tcp nowait /usr/sbin/tcpd in.fingerd
- C. finger stream tcpd nowait /usr/sbin/tcpd finger
- D. finger stream tcp nowait /usr/sbin/in.fingerd in.fingerd

Answer: B

Question: 4

Which of the following can be used to watch logged-in users as they execute commands?

- A. ttysnoop
- B. mgetty
- C. sniffdev
- D. urlsniff

Answer: A

Question: 5

Which of the following best describes how the Crack program breaks passwords?

- A. It gathers passwords by masquerading as a Kerberalized login program.
- B. It encrypts a list of dictionary words and compares it to passwords already encrypted on the system.
- C. It attempts to decrypt passwords that are already encrypted on the system.

D. It gathers plain-text information sent over the network and parses that information for passwords.

Answer: B

Question: 6

The following is a listing from the /etc/passwd file. Which users have a user identification (UID) of superuser?

```
johndoe:x:1:0::/home/johndoe:/bin/bash
tom:x:0:0::/home/tom:/bin/bash
beth:x:0:1::/home/beth:/bin/bash
carla:x:1:1::/home/carla:/bin/bash
```

- A. johndoe and carla
- B. tom and beth
- C. johndoe and tom
- D. beth and carla

Answer: B

Question: 7

Charles has been using PGP for file encryption for months and wants to expand its uses to other projects. Which of the following would NOT be an effective use of PGP?

- A. Creating public keys for user authentication
- B. Encrypting company e-mail
- C. Creating digital signatures
- D. Encrypting the signing of SSL certificates
- E. Creating private keys for user authentication

Answer: D

Question: 8

Molly wants to encrypt and send an e-mail containing sensitive material to Sandy. To ensure that no one besides Sandy can read the e-mail, Molly wants to use PGP encryption. Which of the following methods will allow Molly to encrypt the e-mail and provide a way for Sandy to decrypt it? (Choose two.)

- A. Molly gives a password at encryption time that Sandy can use to decrypt the e-mail.
- B. Molly encrypts the e-mail using a private key. Sandy must then decrypt it using the public key.
- C. Molly encrypts the e-mail using a public key. Sandy must then decrypt it using the private key.
- D. Molly encrypts the e-mail using a series of private keys. Sandy then decrypts it using one of the private keys sent along with the e-mail.

Answer: A, C

Question: 9

A cracker has obtained the /etc/passwd file from a large Server . In an attempt to gain entry into the system, the cracker checks the encrypted passwords from /etc/passwd against a list of encrypted passwords created from a word list. This is an example of a _____ attack.

- A. dictionary

- B. buffer overflow
- C. brute force
- D. smurf
- E. spoof

Answer: A

Question: 10

An assistant network administrator has just been assigned the task of enhancing network security. One of the options that he has to implement is password aging. Consider the excerpt below from the `/etc/passwd` file. Which two commands can the network administrator run to make `jdoe`'s and `msmith`'s passwords expire in 90 days? (Choose two.)

- A. `passwd -90 jdoe msmith`
- B. `passwd -x 90 jdoe msmith`
- C. `passwd --expire 90 jdoe msmith`
- D. `crypt -m 90 jdoe msmith`
- E. `chage -m 90 jdoe msmith`

Answer: B, E

Question: 11

An assistant network administrator has just been assigned the task of enhancing network security. One of the options to be implemented is password aging. Consider the excerpt from the `/etc/passwd` file below. Which of the following would implement password aging?

- A. `shadow -x 90 jdoe msmith`
- B. `pwconv; passwd -x 90 jdoe msmith`
- C. `crypt; passwd -age 90 jdoe msmith`
- D. `pwage -t 90 jdoe msmith`

Answer: B

Question: 12

Tom, a system administrator for Server A, is interested in security and has written a script that scans the password file for unauthorized promotion to root status. Which of the following should the script check? (Choose two.)

- A. A UID number that has been set to one
- B. A UID number that has been set to zero
- C. An account with the GID set to *
- D. A user with a non-standard shell (i.e., `"/bin/runasroot"`)
- E. An account with the UID set to *

Answer: B, D

Question: 13

The line below is from an `/etc/passwd` file. What information does the presence of a single character in the second field (an `x` in most cases) reveal about the password authentication procedure?

```
john:x:500:100::/home/john:/bin/bash
```

- A. Encoded passwords are stored in `"/etc/shadow."`
- B. The administrator has locked this user's account.
- C. The user's encrypted password is `x`.

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