117-303

LPI Level 3 Exam (LPI 303: Security)

Version 3.1

QUESTION NO: 1

An administrator has just configured an OpenVPN client. Upon starting the service, the following message is displayed:

TLS Error: TLS key negotiation failed to occur within 60 seconds

Which of the following statements is true?

A. The client was unable to establish a network connection with the server.

B. The client was able to establish a network connection with the server, however TLS key negotiation failed, resulting in a fallback to SSL.

C. The client was able to establish a network connection with the server, however TLS and SSL security are not enabled.

D. The client was able to establish a network connection with the server, however TLS key negotiation took longer than 60 seconds, indicating that there may be a problem with network performance.

Answer: A

QUESTION NO: 2

SELinux has just been installed on a Linux system and the administrator wants to use SELinux in permissive mode in order to audit the various services on the system. What command will switch SELinux into permissive mode?

A. setenforce 0

B. /etc/init.d/selinux stop

C. selinux passive

D. /etc/init.d/selinux startpassive

Answer: A

QUESTION NO: 3

Which of the following export options, when specified in /etc/exports, will tell the server to use the NFSv4 Pseudofilesystem?

A. fsid=2

B. fsid=0

C. fsid=3

D. fsid=1

Answer: B

QUESTION NO: 4

Which of the following are common techniques for securing a sendmail server? (Select THREE correct answers)

A. Maintain user accounts in an LDAP directory.

B. Enable TLS.

C. Disable VRFY.

D. Run sendmail in a chroot'd environment.

E. Disable USRLKUP.

Answer: B, C, D

QUESTION NO: 5

What does ntop use for data collection?

A. Network packets

B. Log files

C. Frame relay

D. SNMP

Answer: A

QUESTION NO: 6

An administrator has successfully configured a cryptographic volume for dmcrypt, and has added the following line to /etc/fstab:

/dev/mapper/cryptvol /media/crypt auto defaults 0 0

Upon booting the system, the error message "mount: special device /dev/mapper/cryptvol does not exist" is displayed. What configuration file has the administrator forgotten to edit? (Provide the full path and filename)

Answer: /etc/crypttab

QUESTION NO: 7

What command will remove the dmcrypt mapping named cryptvol? (Provide the command with any options and parameters)

Answer: /sbin/cryptsetup remove crypt-vol cryptsetup remove crypt-vol

QUESTION NO: 8

Which LUKS action, when supplied to the cryptsetup command, will initialize a LUKS partition and set the initial key? (Provide only the action name)

Answer: luksFormat

QUESTION NO: 9

An administrator has created a mapping with the following command:
cryptsetup luksOpen /dev/sda1 cryptvol and has set three different keys. Which command below
will delete the first key?

A. cryptsetup luksDelKey /dev/sda1 0

B. cryptsetup luksDelKey /dev/sda1 1

C. cryptsetup luksDelKey /dev/mapper/cryptvol 1

D. cryptsetup luksDelKey /dev/mapper/cryptvol 0

Answer: A

QUESTION NO: 10

What command will list basic information about all targets available to cryptmount? (Provide the
command with any options or parameters)

Answer: cryptmount

--list

/usr/bin/cryptmount

-l

/usr/bin/cryptmount

--list cryptmount -l

QUESTION NO: 11

Which of the following are valid dmcrypt modes? (Choose THREE correct answers)

A. XTS

B. ESSIV

C. GMR

D. KWG

E. LRW

Answer: A, B, E

QUESTION NO: 12

Which directive in the OpenVPN client.conf specifies the remote server and port that the client should connect to? (Provide only the directive, without any options or parameters)

Answer: remote

QUESTION NO: 13

You are certain that your kernel has been compiled with ACL support, however, when you try to set an ACL on a file, you get the following output:

% setfacl m user:hugh:r afile.txt

setfacl: afile.txt: Operation not supported

What is the most likely reason for this problem?

A. There is an error in the command line parameters.

B. There is no user on the system named hugh.

C. The partition has not been mounted with the acl option.

D. The file afile.txt doesn't exist.

Answer: C

QUESTION NO: 14

Which of the following are valid OpenVPN authentication modes? (Choose TWO correct answers)

A. S/Key

B. Kerberos

C. Static Key

D. Password

E. TLS

Answer: C, E

QUESTION NO: 15

What is true about the permissions for the file afile given the following output from getfacl? (Select TWO correct answers)

% getfacl afile

file: afile

owner: matt

group: support

user::rwx

user:hugh:rw

group::r

group:staff:rx

mask::rwx

other::r

A. Anyone in the support group will be able to read and execute the file.

B. The user hugh will be able to read the contents of the file.

C. Anyone in the users group will be able to read the file.

D. The user matt will not be able to edit this file.

E. Anyone in the staff group will be able to read and execute the file.

Answer: B, E

QUESTION NO: 16

You wish to revoke write access for all groups and named users on a file. Which command will make the correct ACL changes?

A. setfacl x group:*:rx,user:*:rx afile

B. setfacl x mask::rx afile

C. setfacl m mask::rx afile

D. setfacl m group:*:rx,user:*:rx afile

Answer: C

QUESTION NO: 17

What is the default UDP port for OpenVPN traffic?

Answer: 1194