



CompTIA Linux+ and LPIC Practice Tests

PREV
Chapter 22 E-Mail Services (Topic 211)

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NEXT
Chapter 24 Practice Test 1

Chapter 23 System Security (Topic 212)

THE FOLLOWING LPIC-2 EXAM TOPICS ARE COVERED IN THIS CHAPTER:

- ✓ **212.1 Configuring a router**
 - iptables and ip6tables configuration files, tools and utilities
 - Tools, commands and utilities to manage routing tables.
 - Private address ranges (IPv4) and Unique Local Addresses as well as Link Local Addresses (IPv6)
 - Port redirection and IP forwarding
 - List and write filtering and rules that accept or block IP packets based on source or destination protocol, port and address
 - Save and reload filtering configurations
 - The following is a partial list of the used files, terms and utilities:
 - /proc/sys/net/ipv4/
 - /proc/sys/net/ipv6/
 - /etc/services
 - iptables
 - ip6tables
- ✓ **212.2 Managing FTP servers**
 - Configuration files, tools and utilities for Pure-FTPd and vsftpd
 - Awareness of ProFTPD
 - Understanding of passive vs. active FTP connections
 - The following is a partial list of the used files, terms and utilities:
 - vsftpd.conf
 - important Pure-FTPd command line options
- ✓ **212.3 Secure shell (SSH)**
 - OpenSSH configuration files, tools and utilities
 - Login restrictions for the superuser and the normal users
 - Managing and using server and client keys to login with and without password
 - Usage of multiple connections from multiple hosts to guard against loss of connection to remote host following configuration changes
 - The following is a partial list of the used files, terms and utilities:
 - ssh
 - sshd
 - /etc/ssh/sshd_config
 - /etc/ssh/
 - Private and public key files

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- ✓ **212.4 Security tasks**

- Tools and utilities to scan and test ports on a server
- Locations and organisations that report security alerts as Bugtraq, CERT or other sources
- Tools and utilities to implement an intrusion detection system (IDS)
- Awareness of OpenVAS and Snort
- The following is a partial list of the used files, terms and utilities:
- telnet
- nmap
- fail2ban
- nc
- iptables

- ✓ **212.5 OpenVPN**

- OpenVPN
- The following is a partial list of the used files, terms and utilities:
- /etc/openvpn/
- openvpn

1. 1. Which of the following options within an OpenSSH server configuration is used to determine whether the root user can log in directly with an ssh client?

1. PermitRootLogin
2. AllowRoot
3. RootLogin
4. PermitDirectRootLogin

2. 2. Which of the following files is used as the primary configuration file for vsftpd?

1. vsftp.cfg
2. vsftpd.conf
3. vsftpd.cfg
4. vsftp.conf

3. 3. Which iptables chain is used to create a port redirect?

1. REDIRECT
2. PREROUTING
3. PORTREDIR
4. ROUTING

4. 4. Which of the following files is the primary server configuration file for OpenSSH?

1. /etc/ssh/sshd_config
2. /etc/sshserver.conf
3. /etc/openssh.conf
4. /etc/openssh/sshd.conf

5. 5. Which of the following commands saves the current set of iptables rules into a file?

1. save-iptables
2. iptables-create
3. iptables-save
4. ipt-save

6. 6. When starting Pure FTPd, which command-line option is used to indicate that host names should not be resolved on client connection?

1. -n
2. -H
3. -r
4. -z

7. 7. Which of the following commands can be used to generate a private and public key pair for authentication with ssh?

1. ssh-createkey
2. sshkey
3. ssh-key
4. ssh-keygen

8. 8. Which of the following commands tests a connection to mail.example.com on the standard SMTP port?

1. telnet mail.example.com smtp
2. telnet mail.example.com 25
3. telnet mail.example.com
4. smtpptest mail.example.com

9. 9. Which of the following commands lists the current iptables rules while not attempting to resolve host or port names?

1. iptables -L
2. iptables -List -no-resolve
3. iptables -a
4. iptables -nL

10. 10. Which command-line option to Pure FTPd disables anonymous upload?

1. -n
2. -a
3. -i
4. -m

11. 11. Which option within an OpenSSH configuration is used to specify the port on which the daemon will listen?

1. Port
2. ListenOn
3. ListenPort
4. PortNum

12. 12. Which option within an OpenVPN configuration lets a client know that it can reach the network 192.168.5.0/24?

1. client-route 192.168.5.0
2. push "route 192.168.5.0 255.255.255.0"
3. send "route 192.168.5.0/24"
4. client-route "192.168.5.0/24"

13. 13. Which of the following commands executes a port scan using TCP Connect to the host 192.168.2.3?

1. portscan 192.168.2.3
2. nmap -sT 192.168.2.3
3. maphost 192.168.2.3
4. tcpscan -C 192.168.2.3

14. 14. Which of the following directories contains configuration files for the fail2ban system?

1. /etc/fail2ban.cfg
2. /etc/fail2ban.d
3. /etc/f2b
4. /etc/fail2ban

15. 15. Which option on the client side of an SSH connection is used to specify the private key for authentication?

1. ssh -i
2. ssh -k
3. ssh -p
4. ssh -l

16. 16. Which of the following commands saves the current IPv6 iptables configuration?

1. iptables6-save
2. ip6tables-save
3. iptables6save
4. save-iptables6

17. 17. Within an OpenSSH configuration, which option disables the use of empty passwords?

1. DisableEmptyPass
2. PermitEmptyPasswords
3. EmptyPasswordAuth
4. PermitPasswordLength

18. 18. Which of the following commands sets the default policy for the INPUT chain to discard packets that don't have a specific rule allowing them?

1. iptables INPUT DROP
2. iptables chain INPUT policy DROP
3. iptables -P INPUT DROP
4. iptables POLICY=DROP CHAIN=INPUT

19. 19. On which port and protocol does OpenVPN listen?

1. ICMP/1194
2. UDP/1194
3. TCP/1194
4. VPN/1194

20. 20. Which directive in an OpenSSH configuration is used for specifying the version of the SSH protocol to use?

1. Proto
2. Protocol
3. ProtoVer
4. Version

21. 21. Which of the following best describes the difference between the DROP and REJECT targets in iptables?

1. Both DROP and REJECT do the same thing.
2. DROP silently discards packets, while REJECT sends back an ICMP acknowledgement.
3. REJECT silently discards packets, while DROP sends back an ICMP acknowledgement.
4. DROP sends back a direct message, and REJECT sends a redirect.

22. 22. Which file contains a list of keys that will be accepted for authentication for a given user?

1. `~/ssh/keys`
2. `~/ssh/pubkeys`
3. `~/ssh/keyauth`
4. `~/ssh/authorized_keys`

23. 23. Which of the following partial iptables rules sets up a configuration that limits log entries to three per minute?

1. `-m limit 3 -j LOG`
2. `-m limit --limit 3/minute --limit-burst 3 -j LOG`
3. `-m limit --limit 3`
4. `-m limit --limit-minute 3 --burst 3 -j LOG`

24. 24. Which option to the `ssh` command is used for X11 application forwarding?

1. `-X11`
2. `-A`
3. `-X`
4. `-F`

25. 25. The command `netstat -a` is reporting that port 80 is in use on the server. Which of the following commands can be used to determine what is actually using that port?

1. `listPorts`
2. `portlist -a`
3. `lsof -i`
4. `tcpdump`

26. 26. Which of the following partial iptables rules allows incoming ICMP traffic?

1. `-A INPUT -p ICMP -j ACCEPT`
2. `-A IN -P ICMP`
3. `-A INPUT -P ACCEPT-ICMP`
4. `-A IN -P ICMP -j ACCEPT`

27. 27. Which option in an OpenSSH configuration is used to determine whether port forwarding will be enabled?

1. `AllowPortForwarding`
2. `PortForwarding`
3. `ForwardPort`
4. `AllowTcpForwarding`

28. 28. Which of the following partial iptables rules blocks all traffic from 192.168.51.50?

1. `-A INPUT -p ALL 192.168.51.50 -j ACCEPT`
2. `-A INPUT -p ALL -s 192.168.51.50 -j DROP`
3. `-A INPUT -p ALL -s 192.168.51.50 -j BLOCK`
4. `-A INPUT -p ALL -f 192.168.51.50 -j DISCARD`

29. 29. Which of the following partial iptables rules will allow all hosts to connect to TCP port 2222?

1. `-A INPUT -p TCP -s 0/0 --destination-port 2222 -j ACCEPT`
2. `-A TCP -s ALL -p 2222 -j ACCEPT`
3. `-A INPUT -p TCP -s *.* --destination-port 2222 -j ALLOW`
4. `-A INPUT --destination-port */* -j ACCEPT`

30. 30. Which of the following commands enables forwarding such as would be used for NAT?

1. echo "1" > /proc/sys/net/ipv4/nat
2. echo "1" > /proc/sys/net/ipv4/ip_forward
3. iptables --enable-forwarding
4. ip-forward --enable

31. 31. Within the vsftpd.conf file, which directive enables IPv6?

1. ipv6_enable
2. ipv6
3. ipv6_listen
4. listen_ipv6

32. 32. Which configuration directive for OpenSSH determines whether key-based authentication will be used?

1. KeyAuth
2. PubKeyAuth
3. PubkeyAuthentication
4. AuthenticationKey

33. 33. Within a jail configuration for fail2ban, which configuration option sets the name and location of the log file to monitor for failures?

1. logpath
2. monitor
3. logfile_mon
4. monitor_log

34. 34. Which command sends a copy of the public key identity to another server for use with SSH?

1. ssh-key
2. ssh-copy-key
3. ssh-sendkey
4. ssh-copy-id

35. 35. Which command is used for creation and maintenance of firewall rules for IPv6?

1. iptables6
2. ip6tables
3. ipv6tables
4. ipfw6

36. 36. Which of the following OpenVPN configuration entries sends a DHCP option to a client to indicate the DNS server (192.168.2.1) to be used by the client?

1. push "dhcp-option ns 192.168.2.1"
2. push "dhcp-nameserver 192.168.2.1"
3. push "dhcp-option DNS 192.168.2.1"
4. push "dhcp-dns 192.168.2.1"

37. 37. Which option in vsftpd.conf specifies whether users will be able to authenticate to the server?

1. local_enable
2. users_login
3. user_login
4. local_users



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