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/etc/xinetd.conf/etc/inetd.d/*

- /etc/hosts.allow
- /etc/hosts.deny
- ✓ 110.3 Securing data with encryption
- Perform basic OpenSSH 2 client configuration and usage
- Understand the role of OpenSSH 2 server host keys
- Perform basic GnuPG configuration, usage and revocation
- Understand SSH port tunnels (including X11 tunnels)
- The following is a partial list of the used files, terms and utilities:
- ssh
- ssh-keygen
- ssh-agent
- ssh-ac
- · ~/.ssh/id rsa and id rsa.pub
- ~/.ssh/id_dsa and id_dsa.pub
- /etc/ssh/ssh_host_rsa_key and ssh_host_rsa_key.pub
- /etc/ssh/ssh_host_dsa_key and ssh_host_dsa_key.pub
- ~/.ssh/authorized_keys
- /etc/ssh_known_hosts
- gpg
- ~/.gnupg/*
- 1. 1. You need to prevent users temporarily from logging into the system using ssh or another means. Which of the following describes one method for accomplishing this task?
- 1. Use the command touch /etc/nologin.
- 2. Disable sshd.
- 3. Remove /etc/login.
- 4. Add a shadow file.
- 2. 2. Which of the following commands searches the entire filesystem for files with the setuid bit set?
- 1. find ./ -perm suid
- 2.find / -perm 4000
- 3. find / -type suid
- 4 find / -type f -perm setuid
- 3. 3. Which of the following commands displays the currently open ports and the process that is using the port?
- 1. netstat -a
- 2.lsof -i
- 3. ps auwx
- 4. netlist
- 4. 4. You are attempting to unmount a filesystem using the umount command. However, when you do so, you receive a message indicating that the filesystem is in use. Which of the following commands can be used to determine what process is keeping a filesystem open?
- 1. fuser
- 2. ls
- 3. find
- 4. ps
- 5. 5. Which of the following commands displays account information such as expiration date, last password change, and other related details?
- 1. usermod -1
- 2.userinfo -a

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3. chageuser -1
4. chage -1
 6.\ 6. Which of the following commands scans the IP address
  192.168.1.154 for open ports?
 1. nmap 192.168.1.154
2.lsof 192.168.1.154
3. netstat 192.168.1.154
4. netmap 192.168.1.154
7. 7. Which command is used to create a public/private key pair for use
   with ssh?
 1. ssh -k
2. ssh-keygen
3. ssh-genkey
4. ssh -key
8. 8. Which of the following configuration options sets a hard limit of 25 \,
   processes for a user called suehring in
   /etc/security/limits.conf?
 1. suehring hard proc 25
2. suehring hard nproc 25
3. suehring proc 25 hard-limit
 4 proc 25 suehring hard
9. 9. Within which file should you place public keys for servers from
   which you will accept key-based ssh authentication?
 1. ~/.ssh/authorized keys
2. ~/.ssh/keys
3. ~/.ssh/keyauth
 4. ~/.sshd/authkeys
10. 10. The system on which you are working does not have the lsof
   command installed, and you are not allowed to install software
   without going through four levels of approval and scheduling the
   installation weeks in advance. However, the netstat command is
   available. Which option to netstat will show the process \operatorname{ID} to which
   a given network port is connected?
3. -p
4. -1
11. 11. You need to look at information on logins beyond that which is
   captured by the current log file for the last command. Which option
   to the last command can be used to load information from an \,
   alternate file?
 1. -a
3. -е
4. -f
12. 12. You need to examine who is currently logged in to the system.
   Which of the following commands will display this information?
 1. listuser
2. fuser
3.1s -u
 4. W
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13. \underline{\textbf{13}}. You need to execute a command as a specific user. Which of the
   following commands enables this to occur?
 1. sudo -u
 2. sudo -U
 3. sudo -s
 4. sudo -H
14. 14. Which option in /etc/sudoers will cause the specified command
   to not prompt for a password?
 1. PASSWORD=NO
 2. NOPASSWD
 3. NOPASSWORD
 4. NOPROMPT
15. \underline{\textbf{15}}. Which of the following commands will display the cputime,
   memory, and other limits for the currently logged-in user?
 1. reslimit
 2.limitres -a
 3. ulimit -a
 4 proclimit -n
16. 16. Which line within the /etc/hosts.deny file will prevent any host
   within the 192.168.1.0/24 network from accessing services that
   operate from xinetd?
 1. BLOCK: 192.168.1.0/24
 2. REJECT: 192.168.1.0
 3. ALL: 192.168.1.0/255.255.255.0
 4. NONE: 192.168.1/255.255.255.0
17. \underline{17}. When expiring a user account with usermod \, -e, which of the
   following represents the correct date format?
 1. YYYY-MM-DD
 2. MM/DD/YYYY
 3. DD/MM/YY
 4. MM/DD/YY HH:MM:SS
18. 18. Which of the following directives in a configuration file found
   within /etc/xinetd.d will prevent the service from starting?
 1. enable no
 2. start no
 3. disable yes
 4. boot no
19. 19. You are using an RSA-based key pair for SSH. By default, what is
   the name of the private key file in \sim/.ssh?
 1. id_rsa
 2.id_rsa.priv
 3.id_rsa.key
 4. rsa_key.priv
20. 20. Which option to the su command will execute a single command
   with a non-interactive session?
 1. - 5
 2. -u
 3. -c
 4. -e
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21. $\underline{\mathbf{21}}$. After specifying the keyserver, which option to gpg is used to specify the key to send to the key server? 3. send-key 4. sendkey 22. 22. Which of the following best describes the method to use with ssh in order to execute a single command on a remote server? 1. Use the -e option followed by the command. 2. Send the command after the other options as part of the command 3. Use the --execute option followed by the command. 4. Use the -s option followed by the command. 23. 23. When using ssh-agent, which command and option lists the currently loaded keys? 1. ssh-agent -1 3. ssh-list-keys 4. ssh-add -1 24. 24. Which of the following commands should be used to edit the /etc/sudoers file? 1. Any text editor such as vi or emacs 2. editsudo 3. visudo 4. visudoers 25. $\underline{25}$. Which of the following commands can be used to stop a given service, such as httpd.service, from starting on boot with a systemd-based system? 1. systemctl disable httpdservice 2. systemctl stop httpd.service 3. systemd disable httpd.service 4. systemd enable httpd.service boot=no 26. 26. Which of the following commands will set an account to expire based on the number of days elapsed since January 1, 1970? 1. passwd -e 2. chage -E 3. usermod -1 4. chguser 27. 27. You are using nmap to scan a host for open ports. However, the server is blocking ICMP echo requests. Which option to nmap can you set in order to continue the scan? 2. -no-ping 3. - 50 28. 28. Which option within /etc/security/limits.conf is used to control the number of times that a given account can log in simultaneously? 1. nlogins 2. loginmax

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3. maxlogins
 4. loginlimit
29. 29. Which file can be used to store a server-wide cache of hosts whose
   keys are known for ssh?
 1. /etc/sshd_known_hosts
 2. /etc/ssh_known_hosts
 3. ~/.ssh/known_hosts
 4. /root/ssh_known_hosts
30. 30. Within the following entry in /etc/shadow, to what does the
   number 15853 refer?
       mail:*:15853:0:99999:7:::
 1. The UID of the mail user
 2. The number of files owned by mail
 3. The date of the last password change (since 1/1/1970)
 4. The number of days until the account expires
31. 31. Which of the following commands sets up a local port forwarding
   session on local port 5150 to remote port 80 of www.example.com?
 1. ssh -L 5150:www.example.com:80
 2.ssh 5150:www.example.com
 3.ssh -p 5150 www.example.com
 4.ssh -e 5150 www.example.com:80
32. 32. Which option must be enabled in /etc/sshd_config on the
   destination server in order for X11 forwarding to work?
 1. XForward yes
 3. X11Forwarding yes
 4 Xconnection yes
33. 33. Which of the following commands generates a GnuPG key pair?
 1. gpg --gen-key
 2. gpg --key
 3. gpg --send-key
 4 gpg --create-key
34. \underline{34.} Which of the following represents a group called {\tt admins} within
 1. @admins
 2. admins
 3. -admins
 4. %admins
35. 35. Which option to ssh is used to set the port for the remote host?
 1. -p
 3. -1
 4.0
36. 36. Which option to nmap sets the scan to use TCP SYN packets for
   finding open ports?
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2. -sT
 3. -sY
 4.-type SYN
37.37. Which of the following logs is used by the last command for
   detailing recent logins?

    /var/log/last

 2./var/log/all.log
 3./var/log/wtmp
 4./var/log/logins
38. 38. Which option to ssh enables the use of a key for authentication?
 2. -k
 3. -f
 4. --key
39. 39. In a scripting scenario, you need to prevent sudo from prompting
   for credentials or for any other reason. Which option to sudo is used to
   indicate this?
 2. --noprompt
 3.-i
40. \underline{40}. Which of the following commands generates an RSA key for use
   with ssh?
 1. ssh -key rsa
 2. ssh --gen-key rsa
 3. ssh-keygen -t rsa
 4. ssh-keygen rsa
41. 41. You need to disable a service found in /etc/inetd.conf. Which of
   the following is used as a comment character in that file?
 2, #
 3. /
 4. %
42. 42. Which of the following commands can be used to lock an account?
 1. usermod -L
 2. usermod -1
 3. passwdlock
 4. lockacct
43.43. Which file is used as the default storage for public keyrings for
   gpg?

    publickeys.gpg

 2. pubring.gpg
 3. public.gpg
 4. pubkeys.gpg
44. 44. Which file in ~/. gnupg, if present, indicates that files have been
   migrated to gpg version 2.1 or later?
 1. .gpg-v21
 2. .gpg-updated
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3. .gpg-v21-migrated
 4..gpg-files-v21
45. 45. Which of the following commands searches a server for files with
   the setgid bit enabled?
 1. find / -perm 4000
 2. find ./ -perm setgid
 3. grep setgid *
 4.find / -perm 2000
46. 46. Which of the following commands creates links within
   /\verb|etc/rc.d|* for starting and stopping services on a Debian system?
 1. createsym
 2. startstop-service
 4. createconfig
47. 47. Which runlevel is typically used for single-user mode, as indicated
 3.5
 4.6
48. 48. Which option to the su command is used to obtain the normal
   login environment?
 1. -u
 2. -U
 3. -
 4. -login
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