

OSAdmin Linux Exam 1

Assesses the learning from the Linux course.

1. Which statement is correct?(1 Point)

- ☐ a. A Gigabyte is larger than a Gibibyte.
- ☒ b. A Gibibyte is larger than a Gigabyte.
- ☐ c. Gigabytes and Gibibytes are both the same size.
- ☐ d. The terms Gigabyte and Gibibyte do not refer to a size or an amount

2. Which file is used to house active user account details in Linux?(1 Point)

- ☐ /etc/userdefaults
- ☐ /etc/groups
- ☒ /etc/passwd
- ☐ /etc/password

3. What does the command 'passwd -l Bob' do?(1 Point)

- ☐ Lists all Bob's password
- ☒ Locks Bob's account

- ☐ Unlocks Bob's account
- ☐ Change Bob's password

4. `awk '/audit/ {print $0}' secure`
What does the command do?(1 Point)

- ☐ a. Searches /audit folder for \$0 (value) and runs the command 'secure' against the file.
- ☒ b. Searches the file secure for lines containing the string 'audit' and prints out whole of such lines on the screen when found.
- ☐ c. Searches the file secure for lines containing the string 'secure' and audits the line.
- ☐ d. For every occurrence of the word 'secure' in the file audit prints out the whole line

5. Which statement is correct?(1 Point)

- ☒ Disks live within filesystems which live within files, which live within disk slices
- ☐ Filesystems live within files which live with disk slices which live within disks.
- ☐ Disks live within disk slices which live within file systems which live within files.
- ☐ Files live within filesystems which live within disk slices which live within disks.

6. Which two of the following specify valid IP version 4 subnet masks? Choose two.(1 Point)

- ☒ 255.255.255.0
- ☐ 255.255.255.255.0
- ☐ 255.255.0

☒ 100.100.100.100/24

7. Which statements are true about the user 'root'. Choose two.(1 Point)

- ☐ There is no such user on a Linuxsystem
- ☒ The 'root' account is usually locked on a Linux system
- ☒ The root account is associated with ID '0' and is known as superuser.
- ☐ The root account never owns any files, as such.

8. What does journalctl -b do?(1 Point)

- ☐ a. Shows you systemd's current buffer?
- ☒ b. Shows systemd's logging information since the last boot.
- ☐ c. Clears the systemd's buffer.
- ☐ d. Instructs systemd's to begin logging information.

9. Which is true of device files?(1 Point)

- ☐ a. Are like ordinary files with inode and data blocks.
- ☒ b. Devices files enable the kernel to identify the right driver for the device in question.
- ☐ c. Are only used with devices which need to be associated with a memory buffer.
- ☐ d. Store lots of information about the device, model number, etc.

10. How many bits are there in an IP version 4 address?(1 Point)

- ☐ a. 4
- ☐ b. 8
- ☐ c. 16
- ☒ d. 32

11. What does the last command show?(1 Point)

- ☒ a. Each user account just once, even if never logged in.
- ☐ b. User accounts, multiple times if need be, showing each time they logged in. The account is absent from the list if they have yet to log in.
- ☐ c. User accounts, multiple times if need be, showing each time they logged in. The account is present just once on the list if they have yet to log in.
- ☐ d. The last login time for each account

12. What does `ip -6 a s' show?(1 Point)

- ☒ a. ip version 6 address.
- ☐ b. delete the 6th address set
- ☐ c. IP V 6 addresses and IP V4 address.
- ☐ d. All ip addresses with the number 6 in.

13. Which of the following are IP address configuration methods. Choose two.
(1 Point)

- ☒ static
- ☐ transient
- ☐ ambient

☐ ambient☒ dynamic

14. What is a Linux process?(1 Point)

- ☐ A device.
- ☐ An area of memory.
- ☒ An executing program.
- ☐ A unit of hardware capable of executing instructions.

15. A user logs in and runs a shell. The user runs the 'ls' command, which executes as a process. When this process terminates it send a signal containing the command's exit status. Where is the signal sent?(1 Point)

- ☐ To the kernel.
- ☐ To the init process.
- ☒ To its parent process.
- ☐ To the login.

16. What is a mount point?(1 Point)

- ☐ a. A letter which maps a disk drive, like D: or E:
- ☒ c. A directory which should be empty located somewhere in the tree.
- ☐ d. An empty file which exists somewhere in our existing tree.
- ☐ e. A nameless root.
- ☐ f. A directory which should be empty located directly underneath root (/).

- ☐ g. An empty file which exists underneath root (/).

17. Which file contains a list of supported filesystem types?(1 Point)

- ☐ /etc/filesystems
- ☒ /proc/filesystems
- ☐ /etc/fstab
- ☐ /proc/fstab

18. Fill in the missing word from the following sentence?

The /etc/xxxx file documents which software is running on which port.
(1 Point)

- ☒ a. services.
- ☐ b. home.
- ☐ c. port.
- ☐ d. scripts.

19. Which file is normally used to store user password hashes?(1 Point)

- ☐ /etc/default/passwd
- ☐ /etc/gshadow
- ☒ /etc/shadow
- ☐ /etc/passwd1

20. Authpriv is a what?(1 Point)

- ☐ priority / selector
- ☒ facility
- ☐ error level
- ☐ all of the above

21. Which command does the opposite of mount?(1 Point)

- ☐ a. unmount
- ☐ b. demount
- ☐ c. mountdel.
- ☒ d. umount

22. What is the default filesystem used on the newer Red Hat Enterprise Linux, Oracle Linux, CentOS 7?(1 Point)

- ☐ a. ext3
- ☐ b. xfs
- ☐ c. fsx
- ☒ d. ext4
- ☐ e. ufs

23. Which best defines a filesystem?(1 Point)

- ☐ A logical container which acts like a disk slice.

- ☐ A letter which we assign as a gateway to the new filesystem, like D: or E:
- ☐ An empty file which exists somewhere in our existing tree.
- ☒ A mountable on-disk structure capable of holding files and directories.
- ☐ A pointer, something like a symbolic link.
- ☐ The equivalent of a disk slice, but with greater flexibility.
- ☐ A directory which should be empty located directly underneath root (/).

24. Which command allows a user to modify their cron table?(1 Point)

- ☐ crontab -r
- ☐ crontab -l
- ☐ crontab -m
- ☒ crontab -e

25. Considering the following subnet mask: 255.255.0.0, which statement is true?(1 Point)

- ☒ a. This is a class B subnet mask.
- ☐ b. This would be used for a network with a small number of hosts.
- ☐ c. This is CIDR notation subnet mask.
- ☐ d. This is a class C subnet mask.

26. The logrotate script will, by default, rotate logfiles once every?(1 Point)

- ☐ a. Hour

- ☐ b. Day
- ☒ c. Week
- ☐ d. Month

27. Select 1 of the 7 fields of the /etc/passwd file?(1 Point)

- ☐ The user's manager ID
- ☒ Username
- ☐ The amount of time since user last logged in
- ☐ Last log in time1

28. The selector mail.err would do what?(1 Point)

- ☐ a. send all mail messages to the destination.
- ☐ b. send just mail error messages to the destination.
- ☐ c. send mail messages to the destination that are of severity 'error' or below.
- ☒ d. send mail messages to the destination that are of severity 'error' or above.

29. What does the command `userdel -r` do?(1 Point)

- ☐ a. adds a user
- ☐ b. locks a user account
- ☒ c. removes a user account and home directory
- ☐ d. modifies a user

30. The users viv and lesley already have a number of groups as well as their primary group. Which command adds HR_Docs as a secondary group to viv and lesley alongside their existing groups?(1 Point)

- ☐ passwd -M viv,lesley HR_Docs
- ☐ gpasswd -M viv,lesley HR_Docs
- ☒ usermod -G HR_docs viv,lesley
- ☐ groupadd viv,Lesley HR_Docs

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