



CompTIA Linux+ and LPIC Practice Tests

PREV
Chapter 13 System Startup (Topic 202)

→ AA ↺ 🔍

NEXT
Advanced Storage Device Administration (Topic 204)

Chapter 14 Filesystems and Devices (Topic 203)

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

- ✓ **203.1 Operating the Linux filesystem**
 - The concept of the fstab configuration
 - Tools and utilities for handling swap partitions and files
 - Use of UUIDs for identifying and mounting file systems
 - Understanding of systemd mount units
 - The following is a partial list of the used files, terms and utilities:
 - /etc/fstab
 - /etc/mtab
 - /proc/mounts
 - mount and umount
 - blkid
 - sync
 - swapon
 - swapoff
- ✓ **203.2 Maintaining a Linux filesystem**
 - Tools and utilities to manipulate and ext2, ext3 and ext4
 - Tools and utilities to perform basic Btrfs operations, including subvolumes and snapshots
 - Tools and utilities to manipulate XFS
 - Awareness of ZFS
 - The following is a partial list of the used files, terms and utilities:
 - mkfs (mkfs.*)
 - mkswap
 - fsck (fsck.*)
 - tune2fs, dumpe2fs and debugfs
 - btrfs, btrfs-convert
 - xfs_info, xfs_check, xfs_repair, xfsdump and xfsrestore
 - smartd, smartctl
- ✓ **203.3 Creating and configuring filesystem options**
 - autofs configuration files
 - Understanding of automount units
 - UDF and ISO9660 tools and utilities
 - Awareness of other CD-ROM filesystems (HFS)
 - Awareness of CD-ROM filesystem extensions (Joliet, Rock Ridge, El

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

- /etc/auto.master
- /etc/auto.[dir]
- mkisofs
- cryptsetup

1. 1. Within which file is a list of the currently mounted filesystems stored?

1. /etc/fstab
2. /etc/cumount
3. /var/spool/files
4. /etc/mtab

2. 2. Which option to mke2fs sets the type of filesystem to be created?

1. -f
2. -a
3. -t
4. -e

3. 3. Which of the following files is the default configuration file for the autofs automounter?

1. /etc/autofs
2. /etc/auto.master
3. /etc/autofs.conf
4. /etc/automounter.conf

4. 4. Which of the following commands is used to create an ISO filesystem?

1. mkiso
2. mkfsiso
3. mkisofs
4. isofs-mk

5. 5. Which of the following commands is used to configure dm-crypt volumes?

1. cryptsetup
2. dm-cryptsetup
3. dm-setup
4. dm-crypts

6. 6. Which command is used to format a swap partition?

1. mkfs -swap
2. mkswap
3. format -swap
4. mksw

7. 7. Which option to the tune2fs command sets the maximum mount count before the system will automatically run fsck on the partition on boot?

1. -b
2. -c
3. -C
4. -a

8. 8. Which option to the mount command can be used to simulate the mount process without actually mounting the filesystem?

1. -q
 2. -v
 3. -l
 4. -f
9. 9. When viewing `/proc/mounts`, you see a filesystem with the letters `ro` in the fourth column. To what do the letters `ro` refer?
1. relative option
 2. realtime option
 3. read only
 4. relative only
10. 10. Which option to `dumpe2fs` displays the bad blocks for a given partition?
1. -bb
 2. -C
 3. -b
 4. -f
11. 11. Which of the following filesystem types features copy-on-write?
1. ext3
 2. ext4
 3. FAT
 4. btrfs
12. 12. Which of the following commands displays filesystem geometry for an XFS filesystem?
1. `xfsinfo`
 2. `xfs_info`
 3. `xfs -info`
 4. `xfs --info`
13. 13. Which of the following commands can be used to display information such as the UUID for partitions on a system?
1. `blkid`
 2. `blockdev`
 3. `devinfo`
 4. `uuidinfo`
14. 14. Which option to the `umount` command will cause it to unmount only filesystems of the specified type?
1. -v
 2. -f
 3. -t
 4. -a
15. 15. Which command causes unwritten data to be written to disk immediately?
1. `write`
 2. `wnow`
 3. `connowrite`
 4. `sync`
16. 16. Which command is used to activate swap space on a system?
1. `mkswap`
 2. `swapon`

- 3. `swaptact`
- 4. `actswap`

17. 17. Which option to `xfs_check` is used to verify a filesystem that is stored in a file?

- 1. `-v`
- 2. `-a`
- 3. `-f`
- 4. `-d`

18. 18. Which option to `debugfs` causes the filesystem to be opened in read-write mode rather than the default read-only?

- 1. `-rw`
- 2. `-w`
- 3. `-r`
- 4. `-n`

19. 19. Which daemon is responsible for monitoring Self-Monitoring, Analysis, and Reporting Technology-compatible hard drives?

- 1. `smartmon`
- 2. `smarty`
- 3. `sartd`
- 4. `smartd`

20. 20. Which option to the `fsck` command causes it to run the check even if the filesystem is apparently marked as clean?

- 1. `-f`
- 2. `-m`
- 3. `-a`
- 4. `-c`

21. 21. You are performing an `xfsrestore`. The `xfsdump` was executed with a block size of 4M. Which option do you need to invoke on `xfsrestore` in order for it to use this dump successfully?

- 1. `-b 4M`
- 2. `-g 1M`
- 3. `-i 1M`
- 4. `-k 1028K`

22. 22. You see the word `defaults` within `/etc/fstab`. Which options are encompassed within the defaults?

- 1. `ro, exec, auto`
- 2. `rw, suid, dev, exec, auto, nouser, async`
- 3. `rw, exec, auto, nouser, async`
- 4. `rw, exec, nouser, async, noauto, suid`

23. 23. Which of the following commands is used to administer and configure how SMART monitoring is done?

- 1. `smartmon`
- 2. `smartconf`
- 3. `smartd`
- 4. `smartctl`

24. 24. Which of the following is the correct format for a filesystem in `/etc/fstab`?

- 1. `<filesystem> <mountpoint> <type> <options> <dump> <pass>`

- 2. <mountpoint> <filesystem> <type> <options> <dump> <pass>
- 3. <mountpoint> <filesystem> <type> <options> <pass> <dump>
- 4. <filesystem> <mountpoint> <type> <dump> <pass> <options>

25. 25. Which key derivation function is used by LUKS?

- 1. PBKDF2
- 2. SSL
- 3. RSA
- 4. DSA

26. 26. Which of the following commands creates a btrfs subvolume?

- 1. btrfs create subvolume
- 2. btrfs subvolume create
- 3. btrfs sv create
- 4. btrfs svcreate

27. 27. Which of the following options to xfsdump sets the maximum size for files to be included in the dump?

- 1. -p
- 2. -s
- 3. -z
- 4. -b

28. 28. Which option to the tune2fs command sets the behavior when a filesystem error occurs?

- 1. -f
- 2. -d
- 3. -e
- 4. -k

29. 29. The /etc filesystem has been mounted as read-only for a recovery process. You need to mount another partition. Which option to the mount command causes it not to write to /etc/mtab?

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

30. 30. Which of the following commands deactivates swap space?

- 1. swapoff
- 2. swap -off
- 3. unmountswap
- 4. uswap

31. 31. Within the [mount] section of a systemd mount unit, which directive specifies the location for mounting the chosen filesystem?

- 1. Where=
- 2. Location=
- 3. List=
- 4. Dest=

32. 32. Which of the following swapon options displays information on the size of swap space along with its used space?

- 1. --list
- 2. -a
- 3. --show

4. -h

33. 33. Which of the following commands can be used to format a FAT filesystem?

1. mkfs.fat
2. mkfs -f
3. mkfs --fat
4. mkfat

34. 34. Which of the following commands adds a journal to an existing ext3 filesystem?

1. tune2fs -jrn
2. e2fs -x
3. tune3fs
4. tune2fs -j

35. 35. Which of the following commands creates a snapshot of a btrfs subvolume?

1. btrfs subvolume snapshot
2. btrfs snapshot --create
3. btrfs create snapshot
4. btrfs --create

36. 36. Which option to xfs_repair will force log zeroing, even if there may be metadata within the log?

1. -L
2. -v
3. -d
4. -V

37. 37. Which of the following commands mounts a filesystem in read-only mode?

1. mount read-only
2. mount --read
3. mount -o ro
4. mount -or



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Chapter 15 Advanced Storage Device Administration (Topic 204)