

102-500.29q

Number: 102-500
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102-500



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LPI Level 1

Exam A

QUESTION 1

Which of the following connection types, as seen in `nmcli connection show`, may exist in NetworkManager? (Choose three.)



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- A. tcp
- B. ethernet
- C. wifi
- D. ipv6
- E. bridge



Correct Answer: BCE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

On a Linux workstation, the `route` command takes a long time before printing out the routing table. Which of the following errors does that indicate?

- A. The local routing information may be corrupted and must be re-validated using a routing protocol.
- B. One of the routers in the routing table is not available which causes the automatic router failure detection mechanism (ARF-D) to wait for a timeout.
- C. There may accidentally be more than one default router in which case a default router election has to be done on the network in order to choose one router as the default.
- D. The Linux Kernel Routing Daemon (LKRD) is not running and should be started using its init script or systemd unit.
- E. DNS resolution may not be working as `route` by default tries to resolve names of routers and destinations and may run into a timeout.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Which of the following `nmcli` subcommands exist? (Choose two.)

- A. `nmcli ethernet`
- B. `nmcli device`
- C. `nmcli wifi`
- D. `nmcli address`
- E. `nmcli connection`

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:



QUESTION 4

Which of the following changes may occur as a consequence of using the command `ip`? (Choose three.)

- A. Network interfaces may become active or inactive.
- B. New name servers may be added to the resolver configuration.
- C. The system's host name may change.
- D. IP addresses may change.
- E. The routing table may change.

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

How many IP addresses can be used for unique hosts inside the IPv4 subnet 192.168.2.128/26?

- A. 6
- B. 14
- C. 30
- D. 62
- E. 126

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

Which of the following IPv4 networks are reserved by IANA for private address assignment and private routing? (Choose three.)

- A. 10.0.0.0/8
- B. 127.0.0.0/8
- C. 169.255.0.0/16
- D. 172.16.0.0/12
- E. 192.168.0.0/16

Correct Answer: ADE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Which of the following commands configure network interfaces based on the system's existing distribution-specific configuration files? (Choose two.)

- A. ifconf
- B. ifdown
- C. ifpause
- D. ifstart
- E. ifup

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

Which of the following information is stored in `/etc/shadow` for each user?

- A. The timestamp of the user's last login
- B. The user's private SSH keys
- C. The hashed password of the user
- D. The numerical user ID (UID)
- E. The path to the user's home directory



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Which of the following commands shows all active systemd timers?

- A. `systemctl-timer show`
- B. `timectl list`
- C. `systemctl -t`

D. `systemctl list-timers`

E. `timeq`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Which of the following tasks can the `date` command accomplish? (Choose two.)

A. Set the system's date and time.

B. Set the system's date but not the time.

C. Calculate the time span between two dates.

D. Print a calendar for a month or a year.

E. Display time in a specific format.

Correct Answer: AE

Section: (none)

Explanation



Explanation/Reference:

QUESTION 11

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Which file, if present, must contain all users that are allowed to use the cron scheduling system? (Specify the full name of the file, including path.)

Correct Answer: `crontab`

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

What can be specified with `useradd`? (Choose two.)

- A. Commands the user can run using `sudo`.
- B. The absolute path to the user's home directory.
- C. Which printers are available for the new user.
- D. The SSH keys used to login to the new account.
- E. The numeric user ID (UID) of the user.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

What is true about the file `/etc/localtime`?

- A. It is a plain text file containing a string such as `Europe/Berlin`.
- B. It is created and maintained by the NTP service based on the location of the system's IP address.
- C. It is a symlink to `/sys/device/clock/ltime` and always contains the current local time.
- D. After changing this file, `newtzconfig` has to be run to make the changes effective.
- E. It is either a symlink to or a copy of a timezone information file such as `/usr/share/zoneinfo/Europe/Berlin`.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Which of the following statements is true regarding systemd timer units?

- A. Timer units can only be defined within a service unit's file.
- B. The command executed by the timer is specified in the timer unit's `[Cmd]` section.

- C. A dedicated system service, `systemd-cron`, handles the execution of timer units.
- D. Timer units only exist in the system scope and are not available for users.
- E. Each systemd timer unit controls a specific systemd service unit.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Which of the following fields are available in the standard format of both the global `/etc/crontab` file as well as in user-specific `crontab` files? (Choose two.)

- A. Year
- B. Minute
- C. Username
- D. Effective group ID
- E. Command

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Which option in the chrony configuration file changes the initial interval of polls to a NTP server in order to speed up the initial synchronization?



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- A. iburst
- B. quickstart
- C. fast
- D. fsync
- E. flood

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Why is the correct configuration of a system's time zone important?

- A. Because the timezone is included in checksum calculations and timezone changes invalidate existing checksums.
- B. Because the time zone is saved as part of the modification times of files and cannot be changed after a file is created.
- C. Because the environment variables `LANG` and `LC_MESSAGES` are, by default, set according to the time zone.
- D. Because NTP chooses servers nearby based on the configured time zone.
- E. Because the conversion of Unix timestamps to local time relies on the time zone configuration.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Which of the following commands lists all queued print jobs?

- A. `lpd`
- B. `lpr`

- C. lp
- D. lsq
- E. lpq

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Which of the following entries in `/etc/syslog.conf` writes all mail related events to the file `/var/log/maillog` and sends all critical events to the remote server `logger.example.com`?

- A. mail.* /var/log/maillog
 mail,crit @logger.example.org
- B. mail.* /var/log/maillog
 mail.crit
 syslog://logger.example.org
- C. mail /var/log/maillog
 mail.crit @logger.example.org
- D. mail.* /var/log/maillog
 mail.crit @logger.example.org
- E. mail * /var/log/maillog
 mail crit @logger.example.org



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

Which of the following protocols is related to the term open relay?

- A. SMTP
- B. POP3
- C. NTP
- D. IMAP
- E. LDAP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

Which of the following comparison operators for `test` work on elements in the file system? (Choose two.)

- A. `-z`
- B. `-eq`
- C. `-d`
- D. `-f`
- E. `-lt`



Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Which of the following configuration files should be modified to globally set shell variables for all users?

- A. `/etc/profile`
- B. `/etc/bashrc`
- C. `~/.bash_profile`

- D. `/etc/.bashrc`
- E. `/etc/shellenv`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

What output does the command `seq 10` produce?

- A. A continuous stream of numbers increasing in increments of 10 until the command is stopped.
- B. It creates no output because a second parameter is missing.
- C. The number 0 through 9 with one number per line.
- D. The number 10 to standard output.
- E. The numbers 1 through 10 with one number per line.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Which of the following commands can be used to limit the amount of memory a user may use?

- A. `umask`
- B. `usermod`
- C. `passwd`
- D. `ulimit`
- E. `chage`

Correct Answer: D



Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

What is a purpose of an SSH host key?

- A. It must be sent by any SSH client in addition to a user key in order to identify the client's host.
- B. It is root key by which all user SSH keys must be signed.
- C. It provides the server's identity information to connecting SSH clients.
- D. It authenticates any user that logs into a remote machine from the key's host.
- E. It is used by system services like cron, syslog or a backup job to automatically connect to remote hosts.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 26

Given the following excerpt of the `sudo` configuration:

```
jane ANY=NOPASSWD: /bin/kill, /bin/id, PASSWD: /sbin/fdisk
```

Which of the following statements are true? (Choose three.)

- A. Jane can run `/bin/id` only after specifying her password.
- B. Jane can run `/sbin/fdisk` after specifying `root`'s password.
- C. Jane can run `/sbin/fdisk` after specifying her password.
- D. Jane can run `/bin/kill` without specifying a password.
- E. Jane can run `/bin/id` without specifying her password.

Correct Answer: CDE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

Which configuration file contains the default options for SSH clients?

- A. `/etc/ssh/sshd_config`
- B. `/etc/ssh/ssh`
- C. `/etc/ssh/ssh_config`
- D. `/etc/ssh/client`
- E. `/etc/ssh/ssh_client`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 28

Depending on a system's configuration, which of the following files can be used to enable and disable network services running on this host?

- A. `/etc/profile`
- B. `/etc/xinetd.conf`
- C. `/etc/ports`
- D. `/etc/services`
- E. `/etc/host.conf`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

Which of the following commands preloads and manages existing SSH keys that are used for automatic authentication while logging in to other machines using SSH?

- A. sshd
- B. ssh-keyring
- C. ssh-keygen
- D. ssh-pki
- E. ssh-agent

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



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