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## Linux Administer test by Ventsislav Varbanovski System Administrator - Infrastructure Engineer.

Q1. To mount a drive by its ID, what command would you use first to retrieve it?

- ☐ df -h
- ☐ listid
- ☐ ls -l
- ☐ blkid

Q2. Linux file access control lists (ACLs) are \_.

- ☐ discretionary access control system permissions layered over standard Linux permissions
- ☐ mandatory access control system permissions layered over standard Linux permissions
- ☐ a type of firewall for Linux
- ☐ the same as standard Linux permissions

Q3. When using iproute2, how do you show routing information for an IPv6 network?

- ☐ route -ipv6

- ☐ route
- ☐ ip -6 route show
- ☐ ip route show

#### Q4. What does this command string do?

```
find / -size +10M -exec ls -l {} \;
```

- ☐ It finds all files using ls -l and hands them off to the find command to display.
- ☐ It finds all files older than 10 minutes and long lists them using the ls command.
- ☐ It finds all files larger than 10 MB and long lists them using the ls command.
- ☐ It uses the ls command to find all files in the filesystem matching the {} wildcard.

#### Q5. What would this locate command show?

```
locate --regex '^/usr.*pixmap.*jpg$'
```

- ☐ all files in a directory named pixmaps
- ☐ all files ending in ".jpg"
- ☐ all file paths that start with "/usr", include the word "pixmap", and end with ".jpg"
- ☐ all file paths that include "/usr/pixmap" and end with ".jpg"

#### Q6. Which command allows you to do packet analysis from the command line?

- ☐ wireshark
- ☐ ethtool
- ☐ netstat
- ☐ tcpdump

#### Q7. Which command will tell you how long a system has been running?

- ☐ log
- ☐ uptime
- ☐ runtime
- ☐ access

#### Q8. How would you describe PCP (Performance Co-Pilot)?

- ☐ It is an application testing suite used to profile programming code.

- ☐ It is a local command used for monitoring local system resources in real time.
- ☐ It is a set of tools, services, and libraries for gathering and analyzing performance measures.
  - <https://pcp.io/download.html>
- ☐ It is a tool designed to change system configuration for purposes of optimization.

**Q9. You want to resolve a long list of DNS names using dig. What should you do?**

- ☐ Create a text file including all names and use the -f option of dig.
- ☐ Type in each query manually.
- ☐ Write a shell script to send multiple dig queries to the DNS server.
- ☐ Save the DNS names in an SQL database and process it with dig.

**Q10. What would this command output?**

```
ps -e --format uid,pid,ppid,%cpu,cmd
```

- ☐ the user ID, process ID, parent process ID, CPU usage, and command name of a process
- ☐ the user ID, group ID, parent process ID, CPU usage, and command name of a process
- ☐ the UUID, process ID, parent process ID, CPU usage, and command name of a process
- ☐ all of these answers

**Q11. Which command in Bash executes the last line in the shell history that starts with ls?**

- ☐ !
- ☐ !!
- ☐ !\*
- ☐ !ls

**Q12. The ssh-copy-id command copies \_ to the remote host.**

- ☐ both private and public keys
- ☐ the ssh public key
- ☐ the ssh private key
- ☐ a fingerprint file

**Q13. What command is used to determine the amount of disk usage for a directory?**

- ☐ find
- ☐ fdisk
- ☐ du
- ☐ df

**Q14. A backup drive was created using dd to make a bit-for-bit copy. When the drive is inserted into an iSCSI target before it is booted up, the data appears to be missing. What happened?**

- ☐ The backup drive is corrupted and needs to be re-created.
- ☐ When the backup drive was duplicated, the label was as well. When booted, the system mounted the old duplicated drive by its identical label.
- ☐ There is a conflict between the physical location of the backup drive and the original drive.
- ☐ The backup process went wrong, and the old drive was duplicated over the original drive.

**Q15. What is the key difference between a redirect (>) and piping to the tee command?**

- ☐ The tee command sends output only to STDOUT and STDERR.
- ☐ A redirect sends output to STDOUT and a file, whereas a tee sends output only to STDOUT.
- ☐ Nothing, they are the same.
- ☐ The tee command sends output to STDOUT and a file, whereas a redirect sends output only to a file.

**Q16. What does the /etc/nsswitch.conf file manage?**

- ☐ priority of one DNS server over another
- ☐ per network interface DNS server configuration
- ☐ alternative DNS services
- ☐ sources for name service information

**Q17. Assume the variable myNumber holds a string consisting of 10 digits. What will this command output?**

```
echo ${myNumber} | sed -e 's/^[[:digit:]][[:digit:]][[:digit:]]/(&)/g'
```

- ☐ It will only match digits—and since the string has only digits, the command will output the same number without changes.

- ☐ It will output the same 10-digit number, but every digit will be inside parentheses.
- ☐ It will output the entire 10-digit number inside parentheses.
- ☐ It will output the same 10-digit number, but the first 3 digits will be inside parentheses.
- ☐ It will output only the variable.

**Q18. Packages can be downloaded but not installed with yum or dnf by specifying which option?**

- ☐ None of these answers. yum does not support downloading packages without installing them.
- ☐ --downloadaddir
- ☐ -d
- ☐ --downloadonly

**Q19. What character class is equal to this set?**

[0-9]

- ☐ [[:alnum:]]
- ☐ [[:digit:]]
- ☐ [[:alpha:]]
- ☐ [[:num:]]

**Q20. When archiving files, which command will preserve all file attributes including ACLs and SELinux security context?**

- ☐ zip
- ☐ tar
- ☐ archive
- ☐ gzip

**Q21. In a systemd-based OS, you can change the system hostname by editing /etc/hostname manually and then doing what?**

- ☐ Restart dhcpcd.
- ☐ Run /etc/hostname.
- ☐ Nothing, the system notices automatically.
- ☐ Notify systemd to update it by restarting the systemd-hostnamed service.

**Q22. What command would you use to resize an LVM volume group to include an additional physical volume?**

- ☐ vgadd
- ☐ vgresize
- ☐ vgappend
- ☐ vgextend

**Q23. When would this system cron job run its task?**

0 1 \* \* \*

- ☐ every minute of the hour
- ☐ every hour of every day
- ☐ every day at 1:00 AM
- ☐ only on Mondays

**Q24. ifconfig has been deprecated. What command is now recommended for changing IP addresses in the live config?**

- ☐ netconf
- ☐ ipconfig
- ☐ ipman
- ☐ ip

**Q25. You are managing an Apache web server on a system using SELinux. By default it cannot read personal webpages in users' home directories. What SELinux boolean would you set to allow this?**

- ☐ apache\_enable\_homedirs
- ☐ httpd\_enable\_userdirs
- ☐ httpd\_enable\_homedirs
- ☐ httpd\_enable\_userhome\_dirs

**Q26. Why doesn't passwd -l keep a user from logging in via other methods?**

- ☐ The passwd command is not used for locking passwords.
- ☐ There is no password -l option.
- ☐ It locks only the password, not the account, so users can still authenticate with keys or other methods.
- ☐ It does lock the account, keeping users from logging in even if they are using other authentication methods.

**Q27. In the Bash shell, what is the difference between piping into | and piping into |&?**

- ☐ Piping into | pipes both stdout and stderr. Piping into |& pipes only stderr.
- ☐ Piping into | pipes stdout. Piping into |& pipes stdout and stderr.
- ☐ Piping into | pipes both stdout and stderr. Piping into |& pipes only stdout.
- ☐ Piping into | pipes stdout. Piping into |& pipes all open file descriptors.

**Q28. Why is the passwd command able to modify the /etc/passwd file?**

- ☐ The kernel identifies it as one of the names of extended commands.
- ☐ It has the same name as the file it modifies.
- ☐ It has the SUID permission mode and is owned by root.
- ☐ It is a system administration command.

**Q29. When a user deletes a file using the rm command, Linux will \_.**

- ☐ always ask for confirmation
- ☐ back up the file before it deletes the file
- ☐ ask for confirmation if configured to do so
- ☐ never ask for confirmation

**Q30. What is a major advantage of using Logical Volume Management (LVM)?**

- ☐ Access to a drive is faster than with standard partitions.
- ☐ Volumes can be resized smaller without unmounting them.
- ☐ Repairing filesystem errors is easier than with standard partitions.
- ☐ Volumes can be resized even if the free space is not contiguous.

**Q31. What is one major difference between brace expansion and globs?**

- ☐ Globs create a list; brace expansion matches pattern.
- ☐ Brace expansion requires files to exist; globs do not.
- ☐ Brace expansion creates a list; globs match the list of pathnames.
- ☐ Globs get processes first and brace expansion later.

**Q32. To remove all ACLs from a directory , use setfacl with which options?**

- ☐ -d
- ☐ -k
- ☐ -b
- ☐ -x

**Q33. Which choice will not print "Hello World" in the terminal?**

- []

```
myVar = 5
[[ $myVar -lt 10 ]] && echo " Hello World"
```

- []

```
myVar = 5
[[ $myVar -lt 10 ]] || echo " Hello World"
```

- []

```
myVar = 5
[[ $myVar -gt 10 ]] && echo " Hello World"
```

- []

```
myVar = 5
[[ $myVar -gt 10 ]] || echo " Hello World"
```

#### Q34. What is not inherited by child process?

- ☐ shell aliases
- ☐ userid
- ☐ environmental variables
- ☐ scheduling priority

#### Q35. What NFS option allows the root user to access NFS shares as the root user?

- ☐ no\_admin\_squash
- ☐ no\_root\_squash
- ☐ allow\_root\_access
- ☐ all\_squash

#### Q36. You send an email to a remote client using the following syntax. What will be in the body of the email?

```
date | mail -s "This is a remote test" user1@rhost1.localnet.com
```



- ☐ "This is a remote test"
- ☐ the date, the time, and the words "This is a remote test"
- ☐ The email subject shows "This is a remote test" but the body of the email will be empty.
- ☐ the current date and time

**Q37. What is the /etc/hosts file used for?**

- ☐ resolving the local name
- ☐ blocking sites using iptables
- ☐ setting the hostname, aliases to the hosts in the same network, and allowing of hosts and blocking of hosts
- ☐ configuring DNS name servers

**Q38. In an extended regular expression, you would use (pattern){3} to match three instances of the pattern. How would you match the same thing with an extended glob?**

- ☐ 3(pattern)
- ☐ {0,3}(pattern)
- ☐ Occurrence quantifiers are not supported in Bash's version of extended globs, so this is not possible.
- ☐ {3}(pattern)

**Q39. When configuring a Samba share, how would the engineering group be specified in the smb.conf?**

- ☐ Samba uses Linux operating system groups from the /etc/group file; just specify the group name.
- ☐ It would be preceded by a percent sign (%), such as %engineers.
- ☐ Use the group name by itself; Samba checks for its existence.
- ☐ It would be preceded by an @ symbol, such as @engineering.

**Q40. To configure the Kerberos client, which command should you use to import the keytab file?**

- ☐ krb5-workstation
- ☐ ktutil
- ☐ pam\_krb5
- ☐ kdb5\_util

**Q41. To search from the current cursor position up to the beginning of the file using VIM, type \_\_ and then the search criteria.**

- ☐ ?
- ☐ \
- ☐ /
- ☐ /search

**Q42. What is the job of the NetworkManager daemon?**

- ☐ It is a graphical tool that manages network connections, including bonding and wireless networks.
- ☐ It is a security service that manages user access control of local network-aware services.
- ☐ It attempts to keep an active network connection available at all times.
- ☐ It is a command-line tool that manages network connections.

**Q43. Why might you use the usermod command ?**

- ☐ to log out a user
- ☐ to lock a user's account
- ☐ to change global user account settings
- ☐ to set a user's password