**[www.linuxdmz.com](http://www.linuxdmz.com)**

**Evaluation-2**

***Process:***

1. What is Process?
2. What are the different states of the Linux processes?
3. What are interactive processes?
4. What is a daemon process?
5. How can we send a process in the background?
6. How can we bring a process in the foreground?
7. What command do you use to check background processes?
8. What does ps -aux command do?
9. How can we kill the background process?
10. How to list all processes?
11. Show all the running processes?
12. Command to list a process along with child processes.
13. How can you kill a process by name?
14. What is the difference between SIGTERM and SIGKILL signals?
15. What signal keep the process continue even shell exits?
16. What is zombie process?
17. What is the difference between process and thread?
18. How to search the “vi” process from all running processes?
19. How to get the total number of processes running in the system?
20. What is difference between -15 and -9 signals?
21. Kill the process number 1200?
22. How to kill a process gracefully? What signal is invoked by -15?
23. What signal to use to kill a process abruptly?
24. What is the purpose of the pkill command?
25. How can we list all the processes belonging to user John?
26. What is the command used to manage the services?
27. How to list all the services in Linux System?
28. What is a unit file?
29. How can we count the number of services in the Linux system?
30. How can we get status of service?
31. How can we figure out whether a service is active or not?
32. How to start service?
33. How to restart the service?
34. How to reload service?
35. How to stop service?
36. How to make service boot persistent?
37. How to check whether the service is enabled or disabled?
38. How to prevent the service from starting at the boot time?
39. What is the difference between restarting and reloading a service?
40. What is the difference between disabling and stopping a service?
41. How can we prevent the service from starting at booting of system?
42. How to enable and start a service simultaneously?
43. How to disable and stop a service simultaneously?
44. What is difference between restart and reload?
45. What is difference between disable and stop a service?
46. What is difference between masked and static services status?

***Boot Process :***

1. What Linux Booting Process? Give high-level steps.
2. What is a Boot loader? Give me the name of the most recent bootloaders Linux is using.
3. What is the difference between runlevel and targets?
4. What are different run levels in Linux System?
5. What is the configuration file of targets in RHEL 7?
6. Mention two commands to check the runlevel.
7. How runlevel 2 and runlevel 3 differ from each other?
8. What is the difference between Runlevel 3 & runlevel 5?
9. What command is used to change the runlevel from runlevel 5 to runlevel 3?
10. How to set a run level by default?

***Link Management:***

1. What is soft link/ symlink?
2. Why symlinks are needed?
3. If you delete or relocate the source file what will be the effect on symlink?
4. How to delete a soft link?
5. What is a broken link?
6. What is unlink command and its syntax?
7. Difference between rm and unlink commands to break link?
8. How to create soft link?
9. How we can overwrite soft link?
10. How we can delete a soft link?
11. How we can create hard link?
12. How we can find the hardlink?
13. What is the lost+found directory in Linux?
14. What is difference between hard link and soft link?

***Networking:***

1. What are the basic components of LAN?
2. What is IP address?
3. What is gateway?
4. What is purpose of DNS server?
5. What is DHCP server?
6. What is NAT service?
7. What is dynamic routing protocol?
8. What TCP/ IP setting is required for a workstation to work?
9. What is Subnet Mask?
10. What is one ip address that never changes?
11. How to get the IP address of the remote hostname?
12. What is reverse lookup of the 31.13.71.36?
13. What is purpose of loopback address?
14. What configuration file for any interface?
15. What is DNS configuration file?
16. What is the purpose of /etc/hosts?
17. Which file specifies how the system should switch between different name service providers?
18. What is the difference between the switch and the router?
19. Mention the path of the file in which networking configuration (interface configuration), is stored?
20. How we can check that port is listening or not on local server?
21. What is ping used for?
22. How we can check that port is listening or not on remote server?
23. How can you check that cable of a server is connected or not?
24. Minimum requirement for remote connection?
25. What is command to list the routing table?
26. What host-based firewall is in RHEL 6 & RHEL 7?
27. What is NIC? How can we list the NICs?
28. Network trouble shooting steps?

**TAR:**

1. What is tar ball?
2. What is archiving?
3. What is the syntax of the Tar command? Can you explain the flags used in tar command?
4. What is compressing a data?
5. You want to compress and archive the /data file system. What command would you use to archive and compress /data in one shot?
6. What are operating modes of tar utility?
7. How we can know the type of file?

**Misc:**

1. What is the structure of Linux? Or What are the core parts of the Linux OS?
2. What is the difference between shell and Kernel?
3. What’s the command to check the user’s default shell? OR How to check what shell you are working on?
4. How can you find out the kernel version of Linux system?
5. How can we check the release version of Linux OS?
6. What are binaries and where are they stored?
7. Where are the system binaries kept?
8. What is the difference between /bin and /sbin directories?
9. Command to read system live logs?
10. What is Path to system error logs?
11. Difference between /var/log/secure and /var/log/messages.
12. What information /var/log/dmesg contains?
13. Where can we find kernel buffer messages?
14. How can you find the “invalid user” in /var/log/secure?
15. What is path to the directory that contains environmental files?
16. What command we use to find system variables? How to set the PATH env variable.
17. If you are trying to access cnn.com how would you get ip address?
18. Commands to check OS release? Kernel version? Uptime?
19. Command to check when the last was rebooted?
20. /proc file importance? Size?
21. Major differences between RHEL 6 and RHEL 7?
22. Find all messages related to “kernel” from system logs and dump them into /tmp/kernel-logs
23. What is $0, $? and $# in shell scripting?
24. Command to add user john? Important files related to user accounts?
25. Command to change ownership and permissions such as rwx?
26. How can we extract all the lines that contain the word “error|ERROR” in them?
27. How can we get/see the real time updates in /var/log/secure file?
28. How to grep all the lines that contain the string “root” in them, and 2 lines After each line, and 2 lines before the targeted string line from “/etc/passwd”?
29. How can we find all the lines in /etc/pass that do not contain the string “root” from “/etc/passwd” file?
30. A Colleague of your's want to see all the processes running on your system, but excluding all the processes that are owned by root. How can you send him this information in file?