**Basic:**

1. How to check the Memory and CPU stat? Yes

Ans: Using “Free” and “vmstat” we can display the Physical and Virtual memory statistics. Using “sar” or “Top” command we can see the CPU utilization

1. What are the run levels in linux? Yes

Ans: 0: Halt

1: Single user mode ( Sometimes also called as maintainance mode)

2: Multi user mode without NFS

3: Multi user mode with NFS( Full multi user text mode)

4: Unused

5: GUI

6: Reboot

1. How to change the default runlevel in Linux?

Ans: Edit the file “/etc/inittab” and change the initdefault entry. This can also be done using init command.

1. What are the Port numbers for FTP, SSH, DNS

Ans: FTP: 20, 21

SSH: 22

DNS 53

1. What is the difference between telnet and SSH?

Ans: Both are communication protocol which are used to manage remote systems. SSH is secured which requires exchanging of key. Telnet transmits the data in plain text which means telnet is ot as secure as SSH.

1. How to list the services that are enabled at particular run level?

Ans: Chkconfig –list|grep (runlevel):on

1. How to check which ports are listening in the linux server?

Ans: “netstat –listen” or “lsof-i”

**Intermediate:**

1. **How to check the default route and routing table?** No

Ans: Using command “ netstat –nr” and “route – n

1. **What is hardlink?** Yes

Ans Hardlink points directly to the physical file on the disk and not the path name. This means if you rename or move the original file the link will not break.

1. **What is Sticky bit?** Yes

Ans: Sticky bit is used on executables in linux ao that they will remain in memory for more time after initial execution. But mostly it Is on folders to imply that a file or folder created inside the sticky bit folder could only be deleted by owner.

1. **What is the difference between softlink and hardlink?**

Ans: 1. Hardlink cannot be created for directories it can only be created for files.

2. Symbolic links or softlink can link to a directory.

3. Removing the original that hardlink points to will not remove hardlink but it does in softlink.

1. **What is a inode?** Yes

Ans: An inode is a data structure on file system that stores all the information about the file except its name and actual data.

1. **How do you find the inode associated with a file?**

Ans: “ls-i “

**Advanced:**

1. **How to check and verify the status of bond interface?-** Yes

Ans: Cat /proc/net/bonding/bond0

1. **How to scan a newly assigned LUN on linux box?-** Yes

Ans: Two ways as mentioned below if candidate’s mentions any one should be good to go.

1. If sg3 rpm is installed then run command “rescan-scsi-bus.sh”
2. Run command eco”---“>/sys/class/scsi\_host/hostX/scan
3. **How to add or change the kernel parameters?** – **Yes**

Ans: first edit the file /etc/sysctl.conf after making the changes save the file and run the command sysctl –p.

1. **How do you track events on the system?-Yes**

Ans: To track events on the system we need a daemon call syslogd. This daemon is useful in tracking information and saving them to the specified log files.

1. **Why should you avoid the Telnet to administer a Linux system remotely?-** **Yes**

Ans: Telnet use most insecure method for communication. It sends data across the network in plain text format. Someone easily find out the password using the network tool.

1. **Name a service which should be disabled on a Linux Server which acts as both a Web and FTP Server.-** Yes

Ans: The finger service should be disabled because a remote user can get important information about the system by using that command.

1. **Which necessary steps should you take to enhance the security of server just after the initial installation?-** **Yes**

Ans: Kernel and packages should be upgraded to the latest versions.

Unnecessary services and daemons should be disabled.

Enable and configure firewall

Set a complex password policy.

1. **Which permission allows a user to run an executable with the permission of the owner of that file?-Yes**

Ans: The Set-User-ID is a special permission that allows a user to run an executable with the permissions of the owner of that file.

1. **Which backup strategy only backs up files that have changed since the last full back up?**-NO

Ans: Differential backup will backup files that have changed since the last full backup.

*Dump,Tivoli, Incremental, Rsync*

1. *After defining the environment variables how to apply immediately without rebooting server.*

*Ans : $source <env>*

1. *Which variable contains current shell process id ?*

*Ans : $$*

1. *Which signal is generated when we press Control-C?*

*Ans : SIGINT*

1. *Which command is used to check the number of files and disk space used and the each user’s defined quota?*

*Ans : repquota command is used to check the status of the user’s quota along with the disk space and number of files used.* *The quota can be given to a single user or to a group of users.*

1. *Are you working with any configuration management tool for automate the system process?*

*Ans : Puppet & Chef /Jenkins/docker*

1. *Any scripting exposure you have developed for fasten the routine process?*

*Ans : Any script like Bash/Perl/Python etc.*

1. *Any virtualization experience what type of activity : KVM, Vmware etc.*
2. *Any Monitoring tools & activity: Zabbix, Nagios etc.*
3. *Any Cloud technologies & which type of activity : AWS, Openstack etc.*
4. *Other technologies which you have worked with linux environment which want to share with us. :----Storage, firewall, security, networking, Backups, RAID etc.*