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**Final Class Real life Interview Questions**

1-boot process; boot config file

1-Boot process: there’s 4 phases in the boot process:

A-Firmware phase: Bios run the post (power on self-test) to initialize the system hardware then discover the MBR (master boot record)which load the boot loader phase.

B-Boot loader phase: the grub takes the kernel from the /boot then decompress it and place it in to the memory based configuration file /boot/grub2/grub.cfg then load the kernel phase.

C-kernel phase: the kernel load required drivers from the initrd.img and start the first process (systemd) rhel 7/8 or (initd) rhel6

D-initialization phase: system takes control of the kernel and enable all the services then start the runlevel.

2-difference between rhel6/7/8



Selinux is a Linux kernel security module that provides a support access control policies.

It has 3 modes:enforcing ,permissive and disabled

4-how do you build a webserver? do you have experience on building web-server

* Download the package
* Start and enable the service
* Edit the /var/www/html/index.txt file
* If firewall and selinux are enabled add the service and the port to the firewall level.
* Restart the service
* Try to access the webserver using the curl command or using the ip on a browser to verify.

5-how do you harden your system

To harden my system I will need to:

-secure user accounts : put strong user id ,set password to expire, increase the length of the password ,increase the complexity of the password(/etc/security/pwquality.conf )rhel 7/8 (etc/pam.d/passwd.auth) rhel 6.

-disable the user root remotely login

-remove unwanted packages

-Stop unused services

-Check on listening ports

-secure ssh configuration by maping shh login to a different port.

-enable firewall (iptables, firewalld)

-Enable SElinux

-change listening services port numbers

-keep the OS up to date

7-OSI model

It is the framework that implement the network under different layers

It has 7 layers.



8-how do you build ntp client To build an ntp client I need to:

-install the package: ntp or chrony

-enable and start the service

- edit the /etc/chrony.conf or the /etc/ntp.conf and add the stratum

-restart the service

Note :you can verify by using “chronyc sources” command

9-how do you increase system performance

To increase system performance , I will need to use tuned tool or manage system process

-tuned is a system used to increase performance

It has different profiles and you should activate the profile that match your server.

* Second I will need to manage the processes running on the server by nicing or renicing processes .
* Nice value will decrease the priority of a process
* Decreasing the swap value will increase the system performance.

10-patching process

1. Prepatching :

-create a change

-send communication

-server version (physical or virtual)

-backup the config files (/etc/fstab, /etc/sysconfig/network ,/etc/resolv.conf)

-check if /var have at least 50% of space

-check the runlevel (3 is default)

-make sure repo is available

-take snapshot of the server

-blackout the server(maintenance mode)

B-Implementing the patch :

-use ansible playbooks wrote by by engineers to patch

Or

-use adhoc command with yum update to patch the server

-Reboot the system

C -post patching:

-Make sure all the config files are ok

-check runlevel

- send communication

11-how do you create a logical fs from a rawdisk

---create a partition from the raw disk

-then create physical volumes(pv) from the partitions

-combine the physical volumes(pv) to create a volume group(vg)

-then slice the volume group to form logical volume (lv)

-Format and permanently mount the lv in /etc/fstab .

12-how do you build nfs client

* To build an nfs client ,I will need to install ,start,enable nfs
* Put the informations in the /etc/export of the host server
* Create the mount point
* Mount the share
* Mount permanently (/etc/fstab)
* Mount -a

13-boot process

14-how do you check if server is virtual/physical

**-I will use the dmidecode -t system command**

15-what is ssh config file and http

* The ssh config file is /etc/ssh/sshd\_config
* The http config file is /etc/httpd/conf/httpd.conf

16-how do you bootstrap

* To bootstrap the server I will neeed:
* -To install the url katello agent
* -use the key based on the environment
* -after registration, I attach a subscription to a registered server

17-what is runlevel

Runlevel is operation state that is preset in linux .runlevels are numbered

from 0 to 6 and determine which program can execute when the server boots up.

-runlevel 0 = halt

-runlevel 1 = maintenance mode

-runlevel 2 = single user mode

-runlevel 3= multi user mode with networking but no gui

-runlevel 4= not applicabe

-runlevel 5=multi user mode with networking and gui

-runlevel 6= reboot

18-how do you display a kernel version

Uname -a

19-differences between R6/R7/R8

20-tell me about the boot process?

21-what is hugepage; swapiness?

-hugepage is a future integrated into the linux kernel that makes possible for the operating system to support memory pages greater than the default .

-swapiness is the the process where the swap takes over the ram when the ram is not sufficient.

22-what is boot config file in rh6

/boot/grub/grub.conf

23-how to break a rootpasswd?

To break the root passwd I will:

-Interrupts the boot process by typing on any key

-then press the E key to get to another command line

-then edit the linux line and add rd.break at the end of the line and hit ctrl+x buttons to get to the interface where you will mount the root filesystem and give it the necessary permission: mount -o remount,rw /sysroot

Chroot /sysroot

Then add the password and create the /.autorelabel file to reload SELINUX modules.

24-How to register server to satellite == bootstrap ?

To bootstrap the server,I will need to :

-install the url kattelo agent

-use the key based on the environnement

-then on the registered server, add a subscription.

what is the difference between TCP/IP and OSI/model?

-tcp/ip is the optimized version of the osi model

25-what is DNS?

26-what is A-record; c-record; reverse-record , alias

27-what command you use to see dns server?

#Cat /etc/resolv.conf

28-what is network bonding or teaming?

#the network bonding is the processe to put together two or more interfaces in order to gain more bandwich,speed or security.

29-how to capture a network?

tcpdump

30-How to deploy a server to a network // how to set an ip to a server?

#i will use the nmcli command or edit the /etc/sysconfig/network-scripts/ifcfg- file.

60-what is the difference between switch and router

Switch establish connection between computers into a (lan) network and router establish connection between (lans) networks.

31-how to check MAC addr associated to your ip?

#Arp -a

32-how to check the gateway?

#Ip route

33-how to display the routing table?

#Route -n

34-how to set-hostname?

#Hostnamectl set-hostname ….

35-what is the user config file

/etc/passwd

36-what is the passwd config file

/etc/shadow

37-Hardlinks and soft link

-Hardlinks are cloun of the original file,it has the same inode and will not be damaged when the original file is deleted.

-softlinks are shurtcuts of the original file ,have different inode and will be damaged if the original file is deleted.

38-display kernel

Uname -a

39-display what user are doing

$w

40-display all users that are login

$who

41-What is a VMware and what is your experience in VMware?

42-How do you add resources in VMware?

43-How do you harden your system?

44-what is the ticketing tool you use?

-Service-now

44-what is the monitoring tool & bakup you use?

-Monitoring tool =Nagios

-backup tool =rsync

45-What are the different parameters you monitor?

--cpu load average

--user time

--memory utilization

--disk utilization

--network resource utilization

46-how many people you have in yr team?

* people

47-what kind of project did you work on?

-Implementation of LVM for disk management.

48-how do you see yrself in 5 years?

-as a system ingenieer

49-Tell me about yourself?

My name is Thierno balde , .

in the past few years I’ve been working for several companies where I acquired a lot of experience .

I have experience in the linux systems administration as configuring samba servers to map and share it to a windows 8 server.

I have experience of managing users ,creating and assigning permissions.

I have experience managing servers storage by adding disks and performing lvm creation.

I have experience on troubleshooting outcoming issue and perform patching.

Outside of work I keep myself productive by self studying and keeping on track of new technologies.

I’m very committed and a good team player. I love challenges and seek for new ones.

50-how big is yr environment?

-Around 150 employes

51-what is the port number of mysql ,ldap , nfs?

-Mysql=3306

-ldap=389

-nfs =2049

52-How do you build a server?

53-What is the difference between rpm and yum?

-rpm install packages

-yum download and install packages

54-how do you shrink the fs?

To shrink a fs :I will:

-unmount the fs

-reduce the fs using lvreduce

-and remount the fs

55-what is yr experience with ansible?

I have experience working with ansible which is an automation tool .

It’s a tool that is very useful when you work on a big environnement(lot of servers)

57-how do you set up an nfs clients?

58-tell me about the patching process?

59-whatis yr experience with RD satellite?

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