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QUESTION 1

A developer reported an incident involving the application configuration file `/etc/httpd/conf/httpd.conf` that is missing from the server. Which of the following identifies the RPM package that installed the configuration file?

- A. `rpm -qf /etc/httpd/conf/httpd.conf`
- B. `rpm -ql /etc/httpd/conf/httpd.conf`
- C. `rpm --query /etc/httpd/conf/httpd.conf`
- D. `rpm -q /etc/httpd/conf/httpd.conf`

Correct Answer: A

- A. `rpm -qf /etc/httpd/conf/httpd.conf`

`rpm` is a command-line package manager used in many Linux distributions, including Red Hat, CentOS, and Fedora.

`-qf` is an option used with the `rpm` command to query the package that owns a particular file.

`/etc/httpd/conf/httpd.conf` is the path of the configuration file that is missing.

So, the command `rpm -qf /etc/httpd/conf/httpd.conf` will return the name of the RPM package that installed the configuration file on the system

QUESTION 2

A Linux system is failing to boot with the following error:

```
error: no such partitions
Entering rescue mode...
grub rescue>
```

Which of the following actions will resolve this issue? (Choose two.)

- A. Execute `grub-install --root-directory=/mnt` and reboot.
- B. Execute `grub-install /dev/sdX` and reboot.
- C. Interrupt the boot process in the GRUB menu and add `rescue` to the kernel line.
- D. Fix the partition modifying `/etc/default/grub` and reboot.
- E. Interrupt the boot process in the GRUB menu and add `single` to the kernel line.
- F. Boot the system on a LiveCD/ISO.



Correct Answer: BF

B. Execute grub-install /dev/sdX and reboot.

This action involves reinstalling the GRUB bootloader on the specified device (/dev/sdX). By reinstalling GRUB, it can help resolve any issues related to the bootloader and allow the system to boot successfully.

F. Boot the system on a LiveCD/ISO.

Booting the system using a LiveCD/ISO allows accessing the system's filesystem from an external environment. Once booted into the LiveCD/ISO, you can perform various troubleshooting steps such as checking the filesystem, repairing any

errors, or modifying configuration files if necessary.

QUESTION 3

A Linux administrator needs to remove software from the server. Which of the following RPM options should be used?

A. rpm -s

B. rm -d

C. rpm -q

D. rpm -e

Correct Answer: D

D. rpm -e

The rpm -e option is used to remove software packages from a Linux system that uses the RPM Package Manager. This option allows the administrator to remove one or more installed packages, along with all their dependencies.

QUESTION 4

A systems administrator is troubleshooting a connectivity issue pertaining to access to a system named db.example.com. The system IP address should be 192.168.20.88. The administrator issues the dig command and receives the following output:

```
;; ANSWER SECTION:  
db.example.com.      15 IN A 192.168.20.89
```

The administrator runs `grep db.example.com /etc/hosts` and receives the following output:

```
192.168.20.89 db.example.com
```

Given this scenario, which of the following should the administrator do to address this issue?



- A. Modify the /etc/hosts file and change the db.example.com entry to 192.168.20.89.
- B. Modify the /etc/network file and change the db.example.com entry to 192.168.20.88.
- C. Modify the /etc/network file and change the db.example.com entry to 192.168.20.89.
- D. Modify the /etc/hosts file and change the db.example.com entry to 192.168.20.88.

Correct Answer: D

QUESTION 5

A Linux administrator needs to redirect all HTTP traffic temporarily to the new proxy server 192.0.2.25 on port 3128. Which of the following commands will accomplish this task?

- A. `iptables -t nat -D PREROUTING -p tcp --sport 80 -j DNAT - -to-destination 192.0.2.25:3128`
- B. `iptables -t nat -A PREROUTING -p tcp --dport 81 -j DNAT ?to-destination 192.0.2.25:3129`
- C. `iptables -t nat -I PREROUTING -p tcp --sport 80 -j DNAT ?to-destination 192.0.2.25:3129`
- D. `iptables -t nat -A PREROUTING -p tcp --dport 80 -j DNAT ?to-destination 192.0.2.25:3128`

Correct Answer: D

The command "`iptables -t nat -A PREROUTING -p tcp --dport 80 -j DNAT --to-destination 192.0.2.25:3128`" will temporarily redirect all HTTP traffic to the new proxy server at IP address 192.0.2.25 and port 3128. The options used in this command are:

-t nat: Specifies the table (nat) to be used for this operation -A PREROUTING: Specifies that the rule should be added to the PREROUTING chain, which is used to manipulate incoming packets before they are processed by the routing decision -p tcp: Specifies that the rule should apply to TCP packets --dport 80: Specifies that the rule should apply to incoming packets destined for port 80 (the default HTTP port) -j DNAT: Specifies that the target of the rule should be DNAT (Destination NAT), which rewrites the destination address of a packet --to-destination 192.0.2.25:3128: Specifies the destination address and port to which incoming packets should be redirected

Note: After executing this command, the administrator should make sure to save the iptables configuration, so that it will persist after a reboot.

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