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Oracle Linux 6 Implementation Essentials

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QUESTION 1

You found a message on a public discussion forum mentioning a Vulnerability (for example, CVE-20065794), which could affect some versions of OpenSSH in Linux distribution. Identify the command that would allow you to see whether this CVE has been applied.

- A. `rpm -q changelog openssh | grep 5794`
- B. `yum listcview openssh`
- C. `rpm -qa | grep openssh | grep 5794`
- D. `yum sec -list cves`

Correct Answer: A

*

The command `rpm -q --changelog rpm` displays a detailed list of information (updates, configuration, modifications, etc.) about a specific package. This example shows information about the package `rpm`. However, only the last five change entries in the RPM database are listed. All entries (dating back the last two years) are included in the package itself. This query only works if CD 1 is mounted at `/media/cdrom`:

```
rpm -qp --changelog /media/cdrom/suse/i586/rpm-3*.rpm
```

*

Is the patch RPM suitable for my system?

To check this, first query the installed version of the package. For `pine`, this can be done with

```
rpm -q pine pine-4.44-188
```

Incorrect: not C:

* `qa` stands for "Query All"

Assuming you are attempting to find out if you have the Very Secure FTP Daemon installed, you want:

```
rpm -qa | grep vsftpd
```

`rpm -qa` will show you all installed RPMs, piping it through `grep` will limit the list to RPMs containing the string `"vsftpd"`.

QUESTION 2

View the output below. As `oracle` user, you run the following command on your Oracle Linux 6 system:

```
[oracle@dbhost ~] $
```

```
[oracle@dbhost ~] $ nice -n 10 ./myscript.sh and
```



```
[1] 2735 [oracle@dbhost ~] $ nice: cannot set niceness: permission denied
```

Why is the nice command failing?

- A. Shell scripts cannot be assigned a negative nice value.
- B. There is already another process running with same niceness value on this system.
- C. A negative nice value can be set by the root user.
- D. A nice value of -10 is not the permissible niceness range.

Correct Answer: C

Only a privileged user may run a process with lower niceness: `$ nice -n -1 nice` nice: cannot set niceness: Permission denied `$ sudo nice -n -1 nice` Note: Sudo stands for either "substitute user do" or "super user do" (depending upon how you want to look at it). What sudo does is incredibly important and crucial to many Linux distributions. Effectively, sudo allows a user to run a program as another user (most often the root user).

QUESTION 3

Which file system is both new and now installed by default in Oracle Linux 6 with Unbreakable Enterprise Kernel (UEK)?

- A. ext4
- B. ext3
- C. zfs
- D. ext2
- E. fat64

Correct Answer: A

Oracle Linux 6 includes many new features, including:

ext4 filesystem

The ext4 filesystem is installed by default.

QUESTION 4

View the exhibit.



```
# grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE: You have a /boot partition. This means that
#          all kernel and initrd paths are relative to /boot/, eg.
#          root (hd0,0)
#          kernel /vmlinuz-version ro root=/dev/mapper/vg_dbhost-lv_root
#          initrd /initrd-[generic-]version.img
#boot=/dev/sda
default=0
timeout=8
splashimage=(hd0,0)/grub/splash.xpm.gz
hiddenmenu
title Oracle Linux Server (2.6.39-100.5.1.el6uek.x86_64)
    root (hd0,0)
    kernel /vmlinuz-2.6.39-100.5.1.el6uek.x86_64 ro root=/dev/mapper/vg_dbhost-
lv_root rd NO LUKS LANG=en_US.UTF-8 rd NO MD quiet SYSFONT=latarcyrheb-sun16
rd LVM LV=vg_dbhost/lv_swap rhgb KEYBOARDTYPE=pc KEYTABLE=us rd_LVM_LV=vg_dbhost
/lv_root rd NO DM numa=off
    initrd /initramfs-2.6.39-100.5.1.el6uek.x86_64.img
title Oracle Linux Server (2.6.32-300.11.1.el6uek.x86_64)
    root (hd0,0)
    kernel /vmlinuz-2.6.32-300.11.1.el6uek.x86_64 ro root=/dev/mapper/vg_dbh
ost-lv_root rd NO LUKS LANG=en_US.UTF-8 rd NO MD quiet SYSFONT=latarcyrheb-sun16
rd LVM LV=vg_dbhost/lv_swap rhgb KEYBOARDTYPE=pc KEYTABLE=us rd_LVM_LV=vg_dbh
ost-lv_root rd NO DM numa=off
```

Examine the grub.conf file snippet in the Exhibit. Which statement is true if your Linux system boots by using this grub.conf file?

- A. GRUB will boot, by default, the first kernel entry of this grub.conf file.
- B. GRUB will prompt you to select the kernel to be booted because the default parameter is set to 0.
- C. GRUB will boot the kernel specified in the inittab file of the system.
- D. GRUB will boot, by default, the second kernel entry of this grub.conf file.

Correct Answer: A

According to the grub .conf file you have 8 seconds to choose whether to boot the first entry.

Now if you want to change, and let say you want the second grub entry as booting system by default, just change the line: default=0 by default=1

QUESTION 5

You want to allow multiple users the write access to files within the same directory, in addition, you want all the new files created in this directory to be of the required group instead of the primary ID of the user who creates the file. How do you accomplish this?

- A. Set the setgid bit on the directory.
- B. Change the group owner of the new files manually.
- C. Run a cron job to change the group owner.
- D. Change the primary group ID of every user to the required group.



Correct Answer: A

Linux: SETGID on directory

SETGID stands for SET Group ID. We can use the command `chmod` to set the group ID bit for a directory.

`chmod g+s mydir`

or with numeric mode:

`chmod 2775 mydir`

After the change, the permission of the directory "mydir" becomes "drwxrwsr-x".

`drwxrwsr-x 3 zen zen 4096 2010-03-18 19:57 mydir`

But what is so special about setting the group ID for a directory? The trick is that when another user creates a file or directory under such a directory "mydir", the new file or directory will have its group set as the group of the owner of "mydir", instead of the group of the user who creates it.

For example, if user2 belongs to the groups "user2" (main group) and "zen", and he creates a file "newfile" under the directory "mydir", "newfile" will be owned by the group of "zen" instead of user2's main group ID "user2".

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