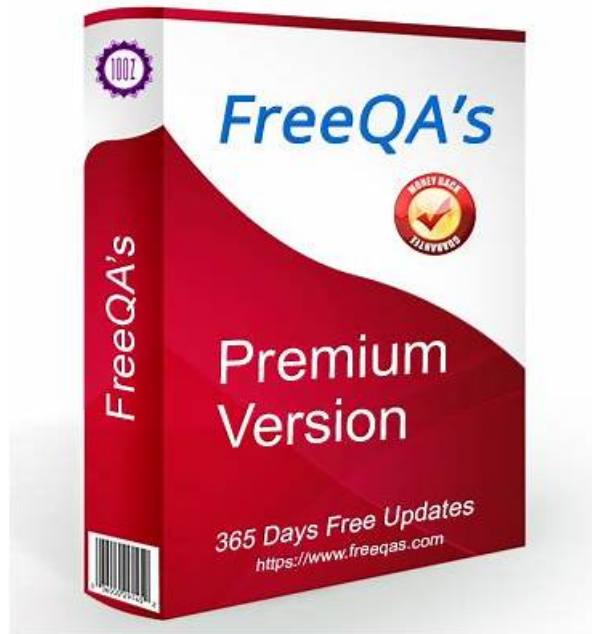


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CompTIA Linux+ Certification Exam Sample Questions (Q844-Q849):

NEW QUESTION # 844

A Linux administrator needs to replace the content of the test1.sh file with the content of the test2.sh file. Which of the following commands will help accomplish this task?

- A. `cat test2.sh >> test1.sh`
- B. `cat test2.sh < test1.sh`
- C. `cat test2.sh > test1.sh`
- D. `cat test2.sh << test1.sh`

Answer: C

Explanation:

The > operator overwrites the content of the target file with the source file. So `cat test2.sh > test1.sh` will copy contents of test2.sh to test1.sh, replacing existing data.

* Source: CompTIA Linux+ XK0-005 Study Guide - Chapter 14: Bash Scripting Reference: Linux Shell Redirection Documentation

NEW QUESTION # 845

A Linux system is getting an error indicating the root filesystem is full. Which of the following commands should be used by the systems administrator to resolve this issue? (Choose three.)

- A. `lvresize -L +10G -r /dev/mapper/rootvg-rootlv`
- B. `parted -l /dev/mapper/rootvg-rootlv`
- C. `fdisk -l /dev/sdb`
- D. `growpart /dev/mapper/rootvg-rootlv`
- E. `vgextend /dev/rootvg /dev/sdb`
- F. `lsblk /dev/sda`
- G. `df -h /`
- H. `pvcreeate /dev/sdb`

Answer: A,D,G

Explanation:

The administrator should use the following three commands to resolve the issue of the root filesystem being full:

* `df -h /`. This command will show the disk usage of the root filesystem in a human-readable format.

The `df` command is a tool for reporting file system disk space usage. The `-h` option displays the sizes in powers of 1024 (e.g., 1K, 234M, 2G). The `/` specifies the root filesystem. The command `df -h /` will show the total size, used space, available space, and percentage of the root filesystem. This command will help the administrator identify the problem and plan the solution.

* `growpart /dev/mapper/rootvg-rootlv`. This command will grow the partition that contains the root filesystem to the maximum size available. The `growpart` command is a tool for resizing partitions on Linux systems. The `/dev/mapper/rootvg-rootlv` is the device name of the partition, which is a logical volume managed by the Logical Volume Manager (LVM). The command `growpart /dev/mapper/rootvg-rootlv` will extend the partition to fill the disk space and increase the size of the root filesystem. This command will help the administrator solve the problem and free up space.

* `lvresize -L +10G -r /dev/mapper/rootvg-rootlv`. This command will resize the logical volume that contains the root filesystem and add 10 GB of space. The `lvresize` command is a tool for resizing logical volumes on Linux systems. The `-L` option specifies the new size of the logical volume, in this case `+10G`, which means 10 GB more than the current size. The `-r` option resizes the underlying file system as well. The `/dev/mapper/rootvg-rootlv` is the device name of the logical volume, which is the same as the partition name. The command `lvresize -L +10G -r /dev/mapper/rootvg-rootlv` will increase the size of the logical volume and the root filesystem by 10 GB and free up space. This command will help the administrator solve the problem and free up space.

The other options are incorrect because they either do not affect the root filesystem (`fdisk -l /dev`

/sdb, pvcreate /dev/sdb, lsblk /dev/sda, or vgextend /dev/rootvg /dev/sdb) or do not use the correct syntax (fdisk -l /dev/sdb instead of fdisk -l /dev/sdb or parted -l /dev/mapper/rootvg-rootlv instead of parted /dev /mapper/rootvg-rootlv print). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 10: Managing Storage, pages 318-319, 331-332.

NEW QUESTION # 846

A Linux systems administrator is trying to execute a particular shell script on a server. The administrator reviews the following outputs:

shell

\$./startup.sh

bash: ./startup.sh: Permission denied

\$ ls -l startup.sh

-rw-rw-r-- 1 companyabc companyabc 18 October 15:35 startup.sh

Which of the following commands should the administrator use to allow the script to run?

- A. chmod -x startup.sh
- B. chown root startup.sh
- C. chmod 400 startup.sh
- D. chmod 750 startup.sh

Answer: D

Explanation:

The script is missing the execute permission. Using chmod 750 startup.sh adds execute permissions for the owner and grants read and execute permissions for the group, allowing the script to run. Without execute permissions, the shell cannot run the script.

NEW QUESTION # 847

A Linux administrator is troubleshooting an issue in which users are not able to access <https://portal.comptia.org> from a specific workstation. The administrator runs a few commands and receives the following output:

```
# cat /etc/hosts
10.10.10.55 portal.comptia.org

# host portal.comptia.org
portal.comptia.org has address 192.168.1.55

#cat /etc/resolv.conf
nameserver 10.10.10.5
```

Which of the following tasks should the administrator perform to resolve this issue?

- A. Update the name server in resolv. conf to use an external DNS server.
- B. Add a network route from the 10.10.10.0/24 to the 192.168.0.0/16.
- C. Remove the entry for portal . comptia.org from the local hosts file.
- D. Clear the local DNS cache on the workstation and rerun the host command.

Answer: C

Explanation:

The best task to perform to resolve this issue is B. Remove the entry for portal.comptia.org from the local hosts file. This is because the local hosts file has a wrong entry that maps portal.comptia.org to 10.10.10.55, which is different from the actual IP address of 192.168.1.55 that is returned by the DNS server. This causes a mismatch and prevents the workstation from accessing the website. By removing or correcting the entry in the hosts file, the workstation will use the DNS server to resolve the domain name and access the website successfully.

To remove or edit the entry in the hosts file, you need to have root privileges and use a text editor such as vi or nano. For example, you can run the command:

```
sudo vi /etc/hosts
```

and delete or modify the line that says:
10.10.10.55 portal.comptia.org
Then save and exit the file.

NEW QUESTION # 848

A Linux systems administrator receives reports from various users that an application hosted on a server has stopped responding at similar times for several days in a row. The administrator logs in to the system and obtains the following output:

Output 1:

```
[Tue Aug 31 16:36:42 2021] OOM: Kill process 43805 (java) score 249 or sacrifice child
[Tue Aug 31 16:36:42 2021] killed process 43805 (java) total-vm: 4446352kB, anon-rss: 4053140kB, file-rss: 68kB
```

Output 2:

```
Linux 3.10.0-328.13.1.x86_64 #1 (hostname) 17/08/2021 _x86_64_ (8 CPU)
16:00:01 PM      CPU   %user   %nice   %syscm  %iowait  %steal   %idle
16:10:01 PM      all    17.58    0.00    19.36    0.00    0.00    73.06
16:20:01 PM      all    22.34    0.00    11.75    0.00    0.00    65.91
16:30:01 PM      all    25.74    0.00    11.69    0.00    0.00    62.52
```

Output 3:

```
$ free -m
              total        used        free   shared  buff/cache   available
Mem:          16704        15026         1174         92         619         793
Swap:           0           0           0
```

Which of the following should the administrator do to provide the BEST solution for the reported issue?

- A. Configure memory allocation policies during business hours and prevent the Java process from going into a zombie state while the server is idle.
- B. Configure more CPU cores to allow for the server to allocate more processing and prevent the Java process from consuming all of the available resources.
- C. Configure a different nice value for the Java process to allow for more users and prevent the Java process from restarting during business hours.
- **D. Configure the swap space to allow for spikes in usage during peak hours and prevent the Java process from stopping due to a lack of memory.**

Answer: D

Explanation:

Based on the output of the image sent by the user, the system requires more swap space to allow for spikes in usage during peak hours and prevent the Java process from stopping due to a lack of memory. The output shows that there is only 0 MB of swap space available on the system, which means that there is no room for swapping out memory pages when physical memory is full or low. The output also shows that there is only 793 MB of available memory on the system, which may not be enough to handle high-demand applications such as Java. This may cause Java to stop working due to insufficient memory or trigger an OutOfMemoryError exception. Configuring more swap space on the system would help to alleviate this issue by providing more virtual memory for applications and improving performance. Configuring memory allocation policies during business hours will not help to solve this issue, as it will not increase the amount of available memory or swap space on the system. Configuring a different nice value for Java process will not help to solve this issue, as it will only affect its scheduling priority, not its memory consumption or allocation. Configuring more CPU cores will not help to solve this issue, as it will only increase processing power, not memory capacity or availability. Reference: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 15: Managing Memory and Process Execution, page 468.

NEW QUESTION # 849

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