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CompTIA Linux+ Certification Exam Sample Questions (Q578-Q583):

NEW QUESTION # 578
A systems administrator is encountering performance issues. The administrator runs 3 commands with the following output

The Linux server has the following system properties
CPU: 4 vCPU
Memory: 50GB
Which of the following accurately describes this situation?

- A. Too many users are currently logged in to the system
- B. The system has been running for over a year and requires a reboot.
- C. The system is under CPU pressure and will require additional vCPUs
- D. The system requires more memory

Answer: C

Explanation:
Explanation
Based on the output of the image sent by the user, the system is under CPU pressure and will require additional vCPUs. The output shows that there are four processes running upload.sh scripts that are consuming a high percentage of CPU time (99.7%, 99.6%, 99.5%, and 99.4%). The output also shows that the system has only 4 vCPUs, which means that each process is using almost one entire vCPU. This indicates that the system is struggling to handle the CPU load and may experience performance issues or slowdowns. Adding more vCPUs to the system would help to alleviate the CPU pressure and improve the system performance. The system has not been running for over a year, as the uptime command shows that it has been up for only 1 day, 2 hours, and 13 minutes. The number of users logged in to the system is not relevant to the performance issue, as they are not consuming significant CPU resources. The system does not require more memory, as the free command shows that it has plenty of available memory (49 GB total, 48 GB free). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 15: Managing Memory and Process Execution, pages 468-469.

NEW QUESTION # 579
A Linux administrator modified the SSH configuration file. Which of the following commands should be used to apply the configuration changes?

- A. systemctl stop sshd
- B. systemctl mask sshd
- C. systemctl start sshd
- D. systemctl reload sshd

Answer: D

Explanation:
Explanation
The systemctl reload sshd command can be used to apply the configuration changes of the SSH server daemon without restarting it. This is useful to avoid interrupting existing connections. The systemctl stop sshd command would stop the SSH server daemon, not apply the changes. The systemctl mask sshd command would prevent the SSH server daemon from being started, not apply the changes. The systemctl start sshd command would start the SSH server daemon if it is not running, but it would not apply the changes if it is already running. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 12: Secure Shell (SSH), page 415.

NEW QUESTION # 580
One leg of an LVM-mirrored volume failed due to the underlying physical volume, and a systems administrator is troubleshooting the issue. The following output has been provided:

LV	VG	Attr	LSize	Origin	Snap%	Move	Log	Copy%	Devices
linear	vg	-wi-a-	40.00G						unknown device(0)
stripe	vg	-wi-a-	40.00G						unknown device(5120),/dev/sda1(0)

Partial mode. Incomplete volume groups will be activated read-only

Given this scenario, which of the following should the administrator do to recover this volume?

- A. Reboot the server. The volume will revert to stripe mode.
- B. Recreate the logical volume.

- C. Reboot the server. The volume will automatically go back to linear mode.
- D. Replace the failed drive and reconfigure the mirror.

Answer: D

Explanation:
The administrator should replace the failed drive and reconfigure the mirror to recover the volume. The LVM (Logical Volume Manager) is a tool for managing disk space on Linux systems. The LVM allows the administrator to create logical volumes that span across multiple physical volumes, such as hard disks or partitions. The LVM also supports different types of logical volumes, such as linear, striped, or mirrored. A mirrored logical volume is a type of logical volume that creates a copy of the data on another physical volume, providing redundancy and fault tolerance. The output shows that the logical volume is mirrored and that one leg of the mirror has failed due to the underlying physical volume. This means that one of the physical volumes that contains the data of the logical volume is damaged or missing. This can cause data loss and performance degradation. The administrator should replace the failed drive and reconfigure the mirror to recover the volume. The administrator should identify the failed physical volume by using commands such as pvdisplay, vgdisplay, or lvdisplay. The administrator should then remove the failed physical volume from the volume group by using the vgreduce command. The administrator should then install a new drive and create a new physical volume by using the pvcreate command. The administrator should then add the new physical volume to the volume group by using the vgextend command. The administrator should then reconfigure the mirror by using the lvconvert command. The administrator should replace the failed drive and reconfigure the mirror to recover the volume. This is the correct answer to the question. The other options are incorrect because they either do not recover the volume (reboot the server. The volume will automatically go back to linear mode or reboot the server. The volume will revert to stripe mode) or do not preserve the data of the volume (recreate the logical volume). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 10: Managing Storage, pages 333-334.

NEW QUESTION # 581
The administrator comptia is not able to perform privileged functions on a newly deployed system. Given the following command outputs:

```
[root@newserver ~]# id comptia
uid=1000(comptia) gid=1000(comptia) groups=1000(comptia)

[root@newserver ~]# cat /etc/sudoers.d/admin
%admin ALL= (root) NOPASSWD: EXEC: /usr/bin/ps, /usr/bin/chmod, /usr/bin/yum, /usr/bin/cat, /usr/sbin/lvm,
/usr/sbin/pvs

[root@newserver ~]# grep comptia /etc/passwd
comptia:x:1000:1000:comptia:/home/comptia:/bin/bash

[root@newserver ~]# chage -l comptia
Last password change : never
Password expires : never
Password inactive : never
Account expires : never
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7
```

Which of the following is the reason that the administrator is unable to perform the assigned duties?

- A. The administrator did not update the sudo database.
- B. The administrator is not a part of the correct group.
- C. The administrator needs a password reset.
- D. The administrator's credentials need to be more complex.

Answer: B

Explanation:
Explanation
The reason that the administrator is unable to perform the assigned duties is because the administrator is not a part of the correct group. This is option B.
Based on the image that you sent, I can see that the user comptia has a user ID and a group ID of 1000, and belongs to only one group, which is also comptia. However, the sudoers file, which defines the permissions for users to run commands as root or other users, does not include the comptia group in any of the entries.
Therefore, the user comptia cannot use sudo to perform privileged functions on the system.
The other options are incorrect because:
A: The administrator needs a password reset.
This is not true, because the password aging information for the user comptia shows that the password was last changed on Oct 24,

2023, and it does not expire until Jan 22, 2024. There is no indication that the password is locked or expired.

C: The administrator did not update the sudo database.

This is not necessary, because the sudo database is automatically updated whenever the sudoers file is modified. There is no separate command to update the sudo database.

D: The administrator's credentials need to be more complex.

This is not relevant, because the complexity of the credentials does not affect the ability to use sudo. The sudoers file does not specify any password policy for the users or groups that are allowed to use sudo.

NEW QUESTION # 582

Which of the following best describes JSON?

- A. A software-based technique that allows a computer to simulate one or more machines so they appear to be real
- B. A programming language that developers use to build dynamic websites
- C. A file format for exchanging information or data between systems
- D. An open-source platform that facilitates the creation and administration of isolated environments

Answer: C

NEW QUESTION # 583

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