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CompTIA Linux+ Certification Exam Sample Questions (Q93-Q98):

NEW QUESTION # 93

A Linux engineer has been notified about the possible deletion of logs from the file `/opt/app/logs`. The engineer needs to ensure the log file can only be written into without removing previous entries.



Which of the following commands would be BEST to use to accomplish this task?

- A. `chattr +c /opt/app/logs`
- B. `chattr +a /opt/app/logs`
- C. `chattr +d /opt/app/logs`
- D. `chattr +i /opt/app/logs`

Answer: B

Explanation:

The command `chattr +a /opt/app/logs` will ensure the log file can only be written into without removing previous entries. The `chattr` command is a tool for changing file attributes on Linux file systems. The `+a` option sets the append-only attribute, which means that the file can only be opened in append mode for writing. This prevents the file from being modified, deleted, or renamed. This is the best command to use to accomplish the task. The other options are incorrect because they either set the wrong attributes (`+d`, `+i`, or `+c`) or do not affect the file at all (`-a`). Reference: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 11: Managing Files and Directories, page 357.

NEW QUESTION # 94

A Linux system is having issues. Given the following outputs:

```
# dig @192.168.2.2 mycomptiahost
; <<>> DiG 9.9.4-RedHat-9.9.4-74.el7_6.1 <<>> @192.168.2.2 mycomptiahost
; (1 server found)
;; global options: +cmd
;; connection timed out; no servers could be reached

# nc -v 192.168.2.2 53
Ncat: Version 7.70 (https://nmap.org/ncat)
Ncat : Connection timed out.

# ping 192.168.2.2
PING 192.168.2.2 (192.168.2.2) 56(84) bytes of data.
64 bytes from 192.168.2.2: icmp_seq=1 ttl=117 time=4.94 ms
64 bytes from 192.168.2.2: icmp_seq=2 ttl=117 time=10.5 ms
```

Which of the following best describes this issue?

- A. The DNS host is down.
- B. The Linux engineer is using the wrong DNS port.
- C. The name `mycomptiahost` does not exist in the DNS.
- D. The DNS service is currently not available or the corresponding port is blocked.

Answer: D

Explanation:

The `ping` command shows that the Linux system can reach the DNS server at 192.168.2.2, so the DNS host is not down. The `dig` and `nc` commands show that the Linux system cannot connect to the DNS server on port 53, which is the standard port for DNS queries. This means that either the DNS service is not running on the DNS server, or there is a firewall or network device blocking the port 53 traffic. Therefore, the DNS service is currently not available or the corresponding port is blocked.

NEW QUESTION # 95

A systems administrator notices several intensive tasks executing from users Joe and Ann.

These processes are impacting server operations but must be allowed to continue running.

Which of the following commands should the systems administrator run to reduce the impact on the server?

- A. `strace -u joe ann`
- B. `pkill -u joe ann`
- C. `nohup -u joe ann`
- D. `renice 11 -u joe ann`

Answer: D

Explanation:

<https://www.computerhope.com/unix/renice.htm#:~:text=On%20Unix%2Dlike%20operating%20systems,the%20Linux%20version%20of%20renice>

NEW QUESTION # 96

A Linux administrator attempts to log in to a server over SSH as root, and receives the following error message: Permission denied,

please try again. The administrator is able to log in to the console of the server directly with root and has confirmed the password is correct. The administrator reviews the configuration of the SSH service and gets the following output:

```
Port 22
PermitRootLogin prohibit-password
PasswordAuthentication yes
PermitEmptyPassword no
Use PAM no
MaxSessions 1
MaxAuthTries 3
```

Based on the above output, which of the following will most likely allow the administrator to log in over SSH to the server?

- A. Log out other user sessions because only one is allowed at a time.
- **B. Use a key to log in as root over SSH.**
- C. Enable PAM and configure the SSH module.
- D. Modify the SSH port to use 2222.

Answer: B

NEW QUESTION # 97

A developer has been unable to remove a particular data folder that a team no longer uses. The developer escalated the issue to the systems administrator. The following output was received:

```
# rmdir data/
rmdir: failed to remove 'data/': Operation not permitted
# rm -rf data/
rm: cannot remove 'data': Operation not permitted
# mv data/ mydata
mv: cannot move 'data/' to 'mydata': Operation not permitted
# cd data/
# cat > test.txt
bash: test.txt: Permission denied
```

Which of the following commands can be used to resolve this issue?

- A. `chmod -R 777 data/`
- **B. `chattr -R -i data/`**
- C. `chgrp -R 755 data/`
- D. `chown -R data/`

Answer: B

Explanation:

The command that can be used to resolve the issue of being unable to remove a particular data folder is `chattr -R -i data/`. This command will use the `chattr` utility to change file attributes on a Linux file system. The `-R` option means that `chattr` will recursively change attributes of directories and their contents. The `-i` option means that `chattr` will remove (unset) the immutable attribute from files or directories. When a file or directory has the immutable attribute set, it cannot be modified, deleted, or renamed.

The other options are not correct commands for resolving this issue. The `chgrp -R 755 data/` command will change the group ownership of `data/` and its contents recursively to 755, which is not a valid group name. The `chgrp` command is used to change group ownership of files or directories. The `chmod -R 777 data/` command will change the file mode bits of `data/` and its contents recursively to 777, which means that everyone can read, write, and execute them. However, this will not remove the immutable attribute, which prevents deletion or modification regardless of permissions. The `chmod` command is used to change file mode bits of files or directories. The `chown -R data/` command is incomplete and will produce an error. The `chown` command is used to change the user and/or group ownership of files or directories, but it requires at least one argument besides the file name. References:

CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 7:

Managing Disk Storage; `chattr(1)` - Linux manual page; `chgrp(1)` - Linux manual page; `chmod(1)` - Linux manual page; `chown(1)` - Linux manual page

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