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>> **Detail XK0-006 Explanation** <<

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CompTIA Linux+ Certification Exam Sample Questions (Q64-Q69):

NEW QUESTION # 64

A systems administrator attempts to edit a file as root, but receives the following error:

```
E212: Cannot open file for writing

# ls -l /etc/resolv.conf
-rw-----. 1 root admin 141 May 30 11:00 /etc/resolv.conf

# lsattr /etc/resolv.conf
----i----- /etc/resolv.conf
```

Which of the following commands allows the administrator to edit the file?

- A. `chmod 750 /etc/resolv.conf`
- B. `chown root /etc/resolv.conf`
- C. `chgrp root /etc/resolv.conf`
- D. `chattr -i /etc/resolv.conf`

Answer: D

Explanation:

The `lsattr` output shows the immutable (`i`) attribute set on `/etc/resolv.conf`. This prevents any modifications, even by root. Running `chattr -i` removes the immutable flag, allowing the administrator to edit the file.

NEW QUESTION # 65

SIMULATION 3

You are a systems administrator and have created an uncompressed backup of the application directory. Several hours later, you must restore the application from backup.

INSTRUCTIONS

Within each tab, click on an object to form the appropriate command used to create the backup and restore the application.

Command objects may only be used once, but the spacebar `_` object may be used multiple times.

Not all objects will be used. Click the arrow to remove any unwanted objects from your command.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Backup
Restore

-cvf

-xvf

/opt/

-d

-xzvf

/

application

-tvf

/home/

-cvf

-xjvf

/backups/application.tar.gz

/backups/application.tar

/backups/application.tgz

_

/backups/application.tar.bz2

-C

tarBackup

Restore Backup

| | | |
|-----------------------------|------------------------------|--------------------------|
| -cvf | -xvf | /opt/ |
| -d | -xzvf | / |
| application | -tvf | /home/ |
| -cvf | | -xjvf |
| /backups/application.tar.gz | /backups/application.tar | /backups/application.tgz |
| -u | /backups/application.tar.bz2 | -C |

tar Restore

Answer:

Explanation:

Backup Restore

| | | |
|-----------------------------|------------------------------|--------------------------|
| -cvf | -xvf | /opt/ |
| -d | -xzvf | / |
| application | -tvf | /home/ |
| -cvf | -c | -xjvf |
| /backups/application.tar.gz | /backups/application.tar | /backups/application.tgz |
| -u | /backups/application.tar.bz2 | -C |

tar Backup

Restore Backup

| | | |
|-----------------------------|------------------------------|--------------------------|
| -cvf | -xvf | /opt/ |
| -d | -xzvf | / |
| application | -tvf | /home/ |
| -cvf | | -xjvf |
| /backups/application.tar.gz | backups/application.tar | /backups/application.tgz |
| tar | /backups/application.tar.bz2 | -C |

tar tar -xvf /backups/application.tar -C /opt/ Restore

-cvf creates (-c) a verbose (-v) archive file (-f) named /backups/application.tar.
 -C /opt/ application changes to /opt/ so only the relative application directory is saved, avoiding absolute paths.
 -xvf extracts (-x) the same archive, and -C /opt/ restores the contents back into the original location.

NEW QUESTION # 66

Which of the following is a characteristic of Python 3?

- A. It is extensible through modules.
- B. It is binary compatible with Java.
- C. It is closed source.
- D. It is fully backwards compatible.

Answer: A

Explanation:

Python 3 is open source and supports extensibility through modules and packages, allowing developers to add functionality easily. It is not fully backward compatible with Python 2 and has no binary compatibility with Java.

NEW QUESTION # 67

An average of one out of three users in a company cannot reach the company website. A Linux administrator determines that one of the three website servers is down. The administrator inspects the DNS configuration for the website and notices the following entry:



Which of the following accurately explains the issue?

- A. One of the DNS records has not been signed with a DNSSEC-supported key, and this is causing some web browsers to reject the DNS response.
- B. The DNS configuration is missing corresponding AAAA records and PTR records, and this is causing clients to fail the hostname translation.
- C. The administrator has incorrectly configured the DNS server to be an iterative resolver instead of an authoritative resolver.
- D. DNS returns all three records in a different order each time, and the browser typically uses the first address in the DNS response.

Answer: D

Explanation:

With multiple A records, DNS performs simple round-robin ordering and returns the records in a different sequence on each query. Most clients try the first address returned-so when the downed server's IP appears first (about one in three times), those users cannot connect.

NEW QUESTION # 68

A Linux software developer wants to use AI to optimize source code used in a commercial product. Which of the following steps should the developer take first?

- A. Research which of the available AI chatbots are best at optimizing source code.
- B. Use open-source LLMs that undergo regular security reviews by the community.
- C. Verify that the company has a policy governing the use of AI in software development.
- D. Install a private LLM to use on the internal network for source code optimization.

Answer: C

Explanation:

Before using AI on commercial source code, the developer must first ensure compliance with company policies, legal requirements, and security standards. This prevents potential intellectual property, licensing, or confidentiality issues.

NEW QUESTION # 69

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