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## CompTIA Linux+ Certification Exam Sample Questions (Q264-Q269):

### NEW QUESTION # 264

A Linux administrator has installed a web server, a database server, and a web application on a server. The web application should be active in order to render the web pages. After the administrator restarts the server, the website displays the following message in the browser: Error establishing a database connection. The Linux administrator reviews the following relevant output from the `systemd` init files:

The administrator needs to ensure that the database is available before the web application is started. Which of the following should the administrator add to the HTTP server `.service` file to accomplish this task?

- A. `REQUIRES=mariadb.service`
- B. `TRIGGERS=mariadb.service`
- C. `ONFAILURE=mariadb.service`
- D. `WANTEDBY=mariadb.service`

**Answer: A**

Explanation:

Explanation

The administrator should add `REQUIRES=mariadb.service` to the HTTP server `.service` file to ensure that the database is available before the web application is started. This directive specifies that the HTTP server unit requires the MariaDB server unit to be started before it can run. If the MariaDB server unit fails to start or stops for any reason, the HTTP server unit will also fail or stop. This way, the dependency between the web application and the database is enforced by `systemd`.

The other options are not correct directives for accomplishing this task. `TRIGGERS=mariadb.service` is not a valid directive in `systemd` unit files. `ONFAILURE=mariadb.service` means that the HTTP server unit will start only if the MariaDB server unit fails, which is not what we want. `WANTEDBY=mariadb.service` means that the HTTP server unit will be started when the MariaDB server unit is enabled, but it does not imply a strong dependency or ordering relationship between them. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 10: Managing Services with `systemd`; `systemd.unit(5)` - Linux manual page

### NEW QUESTION # 265

A Linux administrator is reviewing changes to a configuration file that includes the following section:

The Linux administrator is trying to select the appropriate syntax formatter to correct any issues with the configuration file. Which of the following should the syntax formatter support to meet this goal?

- A. Markdown
- B. **YAML**
- C. JSON
- D. XML

**Answer: B**

Explanation:

Explanation

The configuration file shown in the image is written in YAML format, so the syntax formatter should support YAML to correct any issues with the file. YAML stands for `YAML Ain't Markup Language`, and it is a human-readable data serialization language that uses indentation and colons to define key-value pairs. YAML supports various data types, such as scalars, sequences, mappings, anchors, aliases, and tags. The configuration file follows the rules and syntax of YAML, while the other options do not. Markdown is a lightweight markup language that uses plain text formatting to create rich text documents. XML is a markup language that uses tags to enclose elements and attributes. JSON is a data interchange format that uses curly braces to enclose objects and square brackets to enclose arrays. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 21: Automating Tasks with Ansible, page 591.

### NEW QUESTION # 266

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

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 # 267

Employees in the finance department are having trouble accessing the file `/opt/work/file`. All IT employees can read and write the file. Systems administrator reviews the following output:

Which of the following commands would permanently fix the access issue while limiting access to IT and finance department employees?

- A. `setfacl -m g:finance:rw file`
- B. `chown it:finance file`
- C. `chattr +i file`
- D. `chmod 666 file`

**Answer: A**

Explanation:

The command `setfacl -m g:finance:rw file` will permanently fix the access issue while limiting access to IT and finance department employees. The `setfacl` command is a tool for modifying the access control lists (ACLs) of files and directories on Linux systems. The ACLs are a mechanism that allows more fine-grained control over the permissions of files and directories than the traditional owner-group-others model. The `-m` option specifies the modification to the ACL. The `g:finance:rw` means that the group named `finance` will have read and write permissions on the file. The file is the name of the file to modify, in this case `/opt/work/file`. The command `setfacl -m g:finance:rw file` will add an entry to the ACL of the file that will grant read and write access to the `finance` group. This will fix the access issue and allow the `finance` employees to access the file. The command will also preserve the existing permissions of the file, which means that the IT employees will still have read and write access to the file. This will limit the access to IT and finance department employees and prevent unauthorized access from other users. This is the correct command to use to accomplish the task. The other options are incorrect because they either do not fix the access issue (`chattr +i file` or `chown it:finance file`) or do not limit the access to IT and finance department employees (`chmod 666 file`). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 11: Managing File Permissions and Ownership, page 352.

#### NEW QUESTION # 268

A systems administrator is investigating a service that is not starting up. Given the following information:

Which of the following `systemd` commands should the administrator use in order to obtain more details about the failing service?

- A. `systemctl -a network`
- B. `systemctl info network`

- C. journalctl -xu network
- D. systemctl analyze network

**Answer: C**

Explanation:

The systemd is a system and service manager for Linux systems that provides a standard way to control and monitor system services. The systemd uses various commands and tools to manage and troubleshoot system services, such as systemctl, systemctl, and journalctl. The systemctl command is used to start, stop, enable, disable, restart, reload, status, and list system services.

The systemctl command is used to configure kernel parameters at runtime. The journalctl command is used to view and filter the logs of system services.

To investigate a service that is not starting up, the administrator can use the journalctl command with the -xu option. The -x option enables verbose output that includes explanatory text and priority information. The -u option filters the output by a specific unit name, such as network.service. Therefore, the command journalctl -xu network will show detailed logs of the network service, which can help identify the cause of the failure.

## NEW QUESTION # 269

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