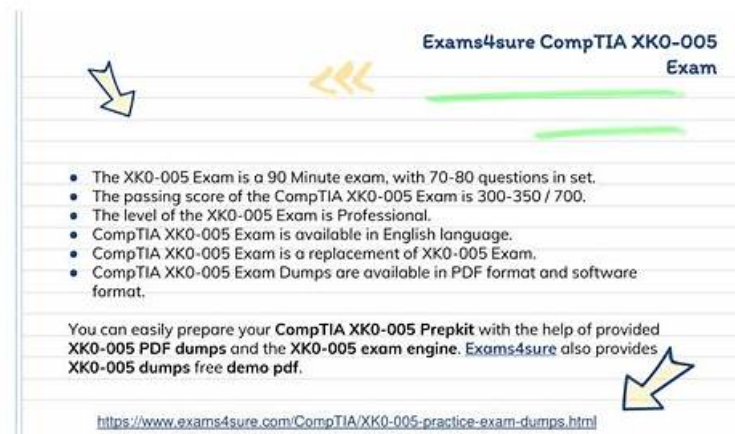


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CompTIA Linux+ Certification Exam Sample Questions (Q564-Q569):

NEW QUESTION # 564

A Linux administrator is setting up a testing environment and needs to connect to a separate testing server using the production server name. The administrator needs to override the hostname that the DNS is returning in order to use the test environment. Which of the following commands should be run on each of the testing systems to BEST meet this goal?

- A. `production.company.com`
`# echo "192.168.1.100 production.company.com" >> /etc/hosts`
- B. `# ip addr add 192.168.1.100/24 dev eth0 && rndc reload`
- C. `# grep -i IP "${ip addr show} production.company.com" > /etc/resolv.conf`
- D. `# hostnamectl set-hostname "192.168.1.100 production.company.com"`

Answer: A

Explanation:

hostnamectl is for your own host name and it modifies the /etc/hostname file (your name). The /etc/hosts file, as lizano stated maps hostnames and IPs of other systems and has a priority over DNS.

NEW QUESTION # 565

A systems engineer has deployed a new application server, but the server cannot communicate with the backend database hostname. The engineer confirms that the application server can ping the database server's IP address. Which of the following is the most likely cause of the issue?

- A. Misconfigured subnet mask
- B. Unreachable default gateway
- C. Incorrect DNS servers
- D. Missing route configuration

Answer: C

Explanation:

Explanation

This is because the application server can ping the database server's IP address, but not its hostname, which suggests that the DNS resolution is not working properly. DNS servers are responsible for translating hostnames into IP addresses, and vice versa. If the application server has incorrect or unreachable DNS servers configured, it will not be able to resolve the hostname of the database server and communicate with it.

To troubleshoot this issue, the systems engineer should check the DNS configuration on the application server, which is usually stored in the `/etc/resolv.conf` file. This file should contain valid nameserver entries that point to the DNS servers that can resolve the database server's hostname. For example, a typical `/etc/resolv.conf` file may look like this:

```
nameserver 8.8.8.8 nameserver 8.8.4.4
```

These are the IP addresses of Google's public DNS servers, which can be used as a fallback option if the default DNS servers are not working.

Alternatively, the systems engineer can use the `nslookup` or `dig` commands to test the DNS resolution of the database server's hostname from the application server. These commands will query a specified DNS server and return the IP address of the hostname, or an error message if the resolution fails. For example, to query Google's public DNS server for the IP address of `comptia.org`, the command would be:

```
nslookup comptia.org 8.8.8.8
```

or

```
dig comptia.org @8.8.8.8
```

NEW QUESTION # 566

A Linux administrator needs to redirect all HTTP traffic temporarily to the new proxy server 192.0.2.25 on port 3128. Which of the following commands will accomplish this task?

- A. `iptables -t nat -A PREROUTING -p top --dport 81 -j DNAT --to-destination 192.0.2.25:3129`
- B. `iptables -t nat -I PREROUTING -p top --sport 80 -j DNAT --to-destination 192.0.2.25:3129`
- C. `iptables -t nat -A PREROUTING -p tcp --dport 80 -j DNAT --to-destination 192.0.2.25:3128`
- D. `iptables -t nat -D PREROUTING -p tcp --sport 80 -j DNAT - -to-destination 192.0.2.25:3128`

Answer: C

NEW QUESTION # 567

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:

```
[Unit]
Description=The Apache HTTP Server
Wants=httpd-init.service
After=network.target remote-fs.target nss-lookup.target httpd-init.service mariadb.service

[Unit]
Description=MariaDB 10.5 database server
After=network.target
```

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

Answer: C

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 # 568

A Linux engineer needs to create a custom script, cleanup.sh, to run at boot as part of the system services.

Which of the following processes would accomplish this task?

- **A. Create a unit file in the /etc/systemd/system/ directory.**
systemctl enable cleanup
systemctl is-enabled cleanup
- B. Create a unit file in the /etc/sysctl.d/ directory.
systemctl enable cleanup
systemctl is-enabled cleanup
- C. Create a unit file in the /etc/skel/ directory.
systemctl enable cleanup
systemctl is-enabled cleanup
- D. Create a unit file in the /etc/default/ directory.
systemctl enable cleanup
systemctl is-enabled cleanup

Answer: A

NEW QUESTION # 569

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