

XK0-005^{Q&As}

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QUESTION 1

After starting an Apache web server, the administrator receives the following error:

Apr 23 localhost.localdomain httpd 4618] : (98) Address already in use: AH00072: make_sock: could not bind to address [: :]80

Which of the following commands should the administrator use to further trou-bleshoot this issue?

A. Ss

B. Ip

C. Dig

D. Nc

Correct Answer: A

The ss command is used to display information about socket connections, such as the port number, state, and process ID. The error message indicates that the port 80 is already in use by another process, which prevents the Apache web server from binding to it. By using the ss command with the -I and -n options, the administrator can list all the listening sockets and their port numbers in numeric form, and identify which process is using the port 80. For example: ss -In | grep :80. The ip, dig, and nc commands are not relevant for this issue, as they are used for different purposes, such as configuring network interfaces, querying DNS records, and testing network connectivity.

QUESTION 2

An administrator would like to securely connect to a server and forward port 8080 on a local machine to port 80 on the server. Which of the following commands should the administrator use to satisfy both requirements?

A. ssh --L 8080: localhost:80 admin@server

B. ssh --R 8080: localhost:80 admin@server

- C. ssh --L 80 : localhost:8080 admin@server
- D. ssh --R 80 : localhost:8080 admin@server

Correct Answer: A

This command will create a local port forwarding, which means that connections from the SSH client are forwarded via the SSH server, then to a destination server. In this case, the destination server is the same as the SSH server (localhost),

and the destination port is 80. The SSH client will listen on port 8080 on the local machine, and any connection to that port will be forwarded to port 80 on the server. This way, the administrator can securely access the web service running on

port 80 on the server by using http://localhost:8080 on the local machine.

The other options are incorrect because:



B. ssh -R 8080:localhost:80 admin@server

This command will create a remote port forwarding, which means that connections from the SSH server are forwarded via the SSH client, then to a destination server. In this case, the destination server is the same as the SSH client

(localhost), and the destination port is 80. The SSH server will listen on port 8080 on the remote machine, and any connection to that port will be forwarded to port 80 on the client. This is not what the administrator wants to do.

C. ssh -L 80:localhost:8080 admin@server

This command will also create a local port forwarding, but it will use port 80 on the local machine and port 8080 on the server. This is not what the administrator wants to do, and it may also fail if port 80 is already in use by another service on

the local machine.

D. ssh -R admin@server

This command is incomplete and invalid. It does not specify any port numbers or destination addresses for the remote port forwarding. It will also fail if the SSH server does not allow remote port forwarding.

References:

CompTIA Linux+ Certification Exam Objectives

How to Set up SSH Tunneling (Port Forwarding)

QUESTION 3

Joe, a user, is unable to log in to the Linux system. Given the following output:

```
# grep joe /etc/passwd /etc/shadow
/etc/passwd:jce:x:1001:1001::/home/jce:/bin/nologin
/etc/shadow:jce:$6$3uCw6qWx9876jGhgKJsdfH987634534voj.:18883:0:99999:7:::
```

Which of the following commands would resolve the issue?

- A. usermod -s /bin/bash joe
- B. pam_tally2 -u joe -r
- C. passwd -u joe
- D. chage -E 90 joe

Correct Answer: B

The command pam_tally2 -u joe -r will resolve the issue of Joe being unable to log in to the Linux system. The pam_tally2 command is a tool for managing the login counter for the PAM (Pluggable Authentication Modules) system. PAM is a framework for managing authentication and authorization on Linux systems. PAM allows the administrator to define the rules and policies for accessing various system resources and services, such as login, sudo, ssh, or cron. PAM also supports different types of authentication methods, such as passwords, tokens, biometrics, or smart cards. PAM can be used to implement login restrictions, such as limiting the number of failed login attempts, locking the account after a certain number of failures, or enforcing a minimum or maximum time between login attempts. The



pam_tally2 command can display, reset, or unlock the login counter for the users or hosts. The -u joe option specifies the user name that the command should apply to. The -r option resets the login counter for the user. The command pam_tally2 -u joe - r will reset the login counter for Joe, which will unlock his account and allow him to log in to the Linux system. This will resolve the issue of Joe being unable to log in to the Linux system. This is the correct command to use to resolve the issue. The other options are incorrect because they either do not unlock the account (usermod -s /bin/bash joe or passwd -u joe) or do not affect the login counter (chage -E 90 joe). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 17: Implementing Basic Security, page 517.

QUESTION 4

A systems administrator is notified that the mysqld process stopped unexpectedly. The systems administrator issues the following command:

sudo grep -i -r `out of memory\\' /var/log

The output of the command shows the following:

kernel: Out of memory: Kill process 9112 (mysqld) score 511 or sacrifice child.

Which of the following commands should the systems administrator execute NEXT to troubleshoot this issue? (Select two).

A. free -h

- B. nc -v 127.0.0.1 3306
- C. renice -15 \$(pidof mysql)
- D. Isblk
- E. killall -15
- F. vmstat -a 1 4

Correct Answer: AF

Explanation: The free -h command can be used to check the amount of free and used memory in the system in a humanreadable format. This can help to troubleshoot the issue of mysqld being killed due to out of memory. The vmstat -a 1 4 command can be used to monitor the system\\'s virtual memory statistics, such as swap usage, paging activity, and memory faults, every one second for four times. This can help to identify any memory pressure or performance issues that may cause out of memory errors. The nc -v 127.0.0.1 3306 command would attempt to connect to the MySQL server on port 3306 and display any diagnostic messages, but this would not help to troubleshoot the memory issue. The renice -15 \$(pidof mysql) command would change the priority of the mysql process to -15, but this would not prevent it from being killed due to out of memory. The lsblk command would display information about block devices, not memory usage. The killall -15 command would send a SIGTERM signal to all processes with a matching name, but this would not help to troubleshoot the memory issue. References: [CompTIA Linux+ (XK0-005) Certification Study Guide], Chapter 15: Managing Memory and Process Execution, pages 468-469.

QUESTION 5

A Linux system is failing to start due to issues with several critical system processes. Which of the following options can be used to boot the system into the single user mode? (Choose two.)



- A. Execute the following command from the GRUB rescue shell: mount -o remount, ro/sysroot.
- B. Interrupt the boot process in the GRUB menu and add systemd.unit=single in the kernel line.
- C. Interrupt the boot process in the GRUB menu and add systemd.unit=rescue.target in the kernel line.
- D. Interrupt the boot process in the GRUB menu and add single=user in the kernel line.
- E. Interrupt the boot process in the GRUB menu and add init=/bin/bash in the kernel line.
- F. Interrupt the boot process in the GRUB menu and add systemd.unit=single.target in the kernel line.

Correct Answer: CF

The administrator can use the following two options to boot the system into the single user mode: Interrupt the boot process in the GRUB menu and add systemd.unit=rescue.target in the kernel line. This option will boot the system into the rescue mode, which is a minimal environment that allows the administrator to perform basic tasks such as repairing the system. The GRUB menu is a screen that appears when the system is powered on and allows the administrator to choose which kernel or operating system to boot. The kernel line is a line that specifies the parameters for the kernel, such as the root device, the init system, and the boot options. The administrator can interrupt the boot process by pressing the e key in the GRUB menu and edit the kernel line by adding systemd.unit=rescue.target at the end. This option will tell the system to use the rescue target, which is a unit that defines the state of the system in the rescue mode. The administrator can then press Ctrl+X to boot the system with the modified kernel line. This option will boot the system into the single user mode and allow the administrator to troubleshoot the issues. Interrupt the boot process in the GRUB menu and add systemd.unit=single.target in the kernel line. This option will boot the system into the single user mode, which is a mode that allows the administrator to log in as the root user and perform maintenance tasks. The GRUB menu and the kernel line are the same as the previous option. The administrator can interrupt the boot process by pressing the e key in the GRUB menu and edit the kernel line by adding systemd.unit=single.target at the end. This option will tell the system to use the single target, which is a unit that defines the state of the system in the single user mode. The administrator can then press Ctrl+X to boot the system with the modified kernel line. This option will boot the system into the single user mode and allow the administrator to troubleshoot the issues. The other options are incorrect because they either do not boot the system into the single user mode (execute the following command from the GRUB rescue shell: mount -o remount, ro/sysroot or interrupt the boot process in the GRUB menu and add systemd.unit=single in the kernel line) or do not use the correct syntax (interrupt the boot process in the GRUB menu and add single=user in the kernel line or interrupt the boot process in the GRUB menu and add init=/bin/bash in the kernel line). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 8: Managing the Linux Boot Process, pages 267-268.

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