

# XK0-005<sup>Q&As</sup>

CompTIA Linux+ Certification Exam

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#### **QUESTION 1**

Users have reported that the interactive sessions were lost on a Linux server. A Linux administrator verifies the server was switched to rescue.target mode for maintenance. Which of the following commands will restore the server to its usual target?

- A. telinit 0
- B. systemct1 reboot
- C. systemct1 get-default
- D. systemct1 emergency

Correct Answer: B

Explanation: The systemct1 reboot command will restore the server to its usual target by rebooting it. This will cause the server to load the default target specified in /etc/systemd/system.conf or /etc/systemd/system/default.target files. The telinit 0 command would shut down the server, not restore it to its usual target. The systemct1 get-default command would display the default target, not change it. The systemct1 emergency command would switch the server to emergency.target mode, which is even more restrictive than rescue.target mode. References: [CompTIA Linux+(XK0-005) Certification Study Guide], Chapter 17: System Maintenance and Operation, page 516.

#### **QUESTION 2**

A systems administrator is installing various software packages using a pack-age manager. Which of the following commands would the administrator use on the Linux server to install the package?

- A. winget
- B. softwareupdate
- C. yum-config
- D. apt

Correct Answer: D

#### **QUESTION 3**

A cloud engineer needs to launch a container named web-01 in background mode. Which of the following commands will accomplish this task\\\\\

- A. docker builder -f --name web-01 httpd
- B. docker load --name web-01 httpd
- C. docker ps -a --name web-01 httpd
- D. docker run -d --name web-01 httpd

Correct Answer: D

Explanation: The docker run -d --name web-01 httpd command will launch a container named web-01 in background mode. This command will create and start a new container from the httpd image, assign it the name web-01, and run it in

detached mode (-d), which means the container will run in the background without attaching to the current terminal. The docker builder -f --name web-01 httpd command is invalid, as builder is not a valid docker command, and -f and --name

are not valid options for docker build. The docker load --name web-01 httpd command is invalid, as load does not accept a --name option, and httpd is not a valid file name for load. The docker ps -a --name web-01 httpd command is invalid,

as ps does not accept a --name option, and httpd is not a valid filter for ps. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 16:

Virtualization and Cloud Technologies, page 499.

#### **QUESTION 4**

An administrator attempts to rename a file on a server but receives the following error.

mv: cannot move 'files/readme.txt' to 'files/readme.txt.orig': Operation not permitted.

The administrator then runs a few commands and obtains the following output:

\$ ls -ld files/					
drwxrwxrwt.1	users	users	20	Sep 10 15:15	files/
\$ ls -a files/					
drwxrwxrwt.1	users	users	20	Sep 10 15:15	-
drwxr-xr-x.1	users	users	32	Sep 10 15:15	**
-rw-rw-r1	users	users	4	Sep 12 10:34	readme.txt

Which of the following commands should the administrator run NEXT to allow the file to be renamed by any user?

A. chgrp reet files

B. chacl -R 644 files



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C. chown users files

D. chmod -t files

Correct Answer: D

Explanation: The command that the administrator should run NEXT to allow the file to be renamed by any user is chmod -t files. This command uses the chmod tool, which is used to change file permissions and access modes. The -t option removes (or sets) the sticky bit on a directory, which restricts deletion or renaming of files within that directory to only their owners or root. In this case, since files is a directory with sticky bit set (indicated by t in drwxrwxrwt), removing it will allow any user to rename or delete files within that directory. The other options are not correct commands for allowing any user to rename files within files directory. The chgrp reet files command will change the group ownership of files directory to reet, but it will not affect its permissions or access modes. The chacl -R 644 files command is invalid, as chacl is used to change file access control lists (ACLs), not permissions or access modes. The chown users files command will change the user ownership of files directory to users, but it will not affect its permissions or access modes. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 8: Managing Users and Groups; chmod(1) - Linux manual page

#### **QUESTION 5**

A systems administrator is tasked with creating an Ansible playbook to automate the installation of patches on several Linux systems. In which of the following languages should the playbook be written?

A. SQL

B. YAML

C. HTML

D. JSON

Correct Answer: B

Explanation: The language that the playbook should be written in is YAML. YAML stands for YAML Ain\\'t Markup Language, which is a human-readable data serialization language. YAML is commonly used for configuration files and data exchange. YAML uses indentation, colons, dashes, and brackets to represent the structure and values of the data. YAML also supports comments, variables, expressions, and functions. Ansible is an open-source tool for automating tasks and managing configuration on Linux systems. Ansible uses YAML to write playbooks, which are files that define the desired state and actions for the systems. Playbooks can be used to automate the installation of patches on several Linux systems by specifying the hosts, tasks, modules, and parameters. The language that the playbook should be written in is YAML. This is the correct answer to the question. The other options are incorrect because they are not the languages that Ansible uses for playbooks (SQL, HTML, or JSON). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 18: Securing Linux Systems, page 549.

#### **QUESTION 6**

A Linux administrator has logged in to a server for the first time and needs to know which services are allowed through the firewall. Which of the following options will return the results for which the administrator is looking?

A. firewall-cmd --get-services

B. firewall-cmd --check-config



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C. firewall-cmd --list-services

D. systemct1 status firewalld

Correct Answer: C

Explanation: The firewall-cmd --list-services command will return the results for which the administrator is looking. This command will list all services that are allowed through the firewall in the default zone or a specified zone. A service is a predefined set of ports and protocols that can be enabled or disabled by firewalld. The firewall-cmd --get-services command will list all available services that are supported by firewalld, not only those that are allowed through the firewall. The firewall-cmd --check-config command will check if firewalld configuration files are valid, not list services. The systemct1 status firewalld command will display information about the firewalld service unit, such as its state, PID, memory usage, and logs, not list services. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 18: Securing Linux Systems, page 543.

#### **QUESTION 7**

A systems administrator is tasked with mounting a USB drive on a system. The USB drive has a single partition, and it has been mapped by the system to the device /dev/sdb. Which of the following commands will mount the USB to /media/ usb?

A. mount /dev/sdb1 /media/usb

B. mount /dev/sdb0 /media/usb

C. mount /dev/sdb /media/usb

D. mount -t usb /dev/sdb1 /media/usb

Correct Answer: A

Explanation: The mount /dev/sdb1 /media/usb command will mount the USB drive to /media/usb. This command will attach the filesystem on the first partition of the USB drive (/dev/sdb1) to the mount point /media/usb, making it accessible to

the system. The mount /dev/sdb0 /media/usb command is invalid, as there is no such device as /dev/sdb0. The mount /dev/sdb /media/usb command is incorrect, as it will try to mount the entire USB drive instead of its partition, which may

cause errors or data loss. The mount -t usb /dev/sdb1 /media/usb command is incorrect, as usb is not a valid filesystem type for mount. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 14:

Managing Disk Storage, page 455.

#### **QUESTION 8**

A junior administrator is setting up a new Linux server that is intended to be used as a router at a remote site. Which of the following parameters will accomplish this goal?



# A.

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A PREROUTING -i eth0 -j MASQUERADE
```

В.

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -D POSTROUTING -o eth0 -j MASQUERADE
```

C.

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
```

D.

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A PREROUTING -o eth0 -j MASQUERADE
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

Explanation: The parameter net.ipv4.ip\_forward=1 will accomplish the goal of setting up a new Linux server as a router. This parameter enables the IP forwarding feature, which allows the server to forward packets between different network interfaces. This is necessary for a router to route traffic between different networks. The parameter can be set in the /etc/sysctl.conf file or by using the sysctl command. This is the correct parameter to use to accomplish the goal. The other options are incorrect because they either do not exist (net.ipv4.ip\_forwarding or net.ipv4.ip\_route) or do not enable IP forwarding (net.ipv4.ip\_forward=0). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 12: Managing Network Connections, page 382.

#### **QUESTION 9**

A Linux administrator created the directory /project/access2all. By creating this directory, the administrator is trying to avoid the deletion or modification of files from non-owners. Which of the following will accomplish this goal?

- A. chmod +t /project/access2all
- B. chmod +rws /project/access2all
- C. chmod 2770 /project/access2all
- D. chmod ugo+rwx /project/access2all

Correct Answer: A



Explanation: The command that will accomplish the goal of avoiding the deletion or modification of files from nonowners is chmod +t /project/access2all. This command will set the sticky bit on the directory /project/access2all, which is a special permission that restricts file deletion or renaming to only the file owner, directory owner, or root user. This way, even if multiple users have write permission to the directory, they cannot delete or modify each other\\'s files. The other options are not correct commands for accomplishing the goal. The chmod +rws /project/access2all command will set both the SUID and SGID bits on the directory, which are special permissions that allow a program or a directory to run or be accessed with the permissions of its owner or group, respectively. However, this does not prevent file deletion or modification from non-owners. The chmod 2770 /project/access2all command will set only the SGID bit on the directory, which means that any new files or subdirectories created in it will inherit its group ownership. However, this does not prevent file deletion or modification from non-owners. The chmod ugo+rwx /project/access2all command will grant read, write, and execute permissions to all users (user, group, and others) on the directory, which means that anyone can delete or modify any file in it. References: chmod(1) - Linux manual page; How to Use SUID, SGID, and Sticky Bits on Linux

#### **QUESTION 10**

Users are unable to create new files on the company\\'s FTP server, and an administrator is troubleshooting the issue. The administrator runs the following commands:

#	df	-h	/ftpusers/

Filesystem	Size	Used	Avail	Use%	Mounted on
/dev/sda4	150G	40G	109G	26%	/ftpusers

# df -i /ftpusers/

Filesystem	Inodes	Iused	Ifree	Iuse%	Mounted on	
/dev/sda4	34567	34567	0	100%	/ftpusers	

Which of the following is the cause of the issue based on the output above?

- A. The users do not have the correct permissions to create files on the FTP server.
- B. The ftpusers filesystem does not have enough space.
- C. The inodes is at full capacity and would affect file creation for users.
- D. ftpusers is mounted as read only.

Correct Answer: C

The cause of the issue based on the output above is C. The inodes is at full capacity and would affect file creation for users.

An inode is a data structure that stores information about a file or directory, such as its name, size, permissions, owner, timestamps, and location on the disk. Each file or directory has a unique inode number that identifies it. The number of

inodes on a filesystem is fixed when the filesystem is created, and it determines how many files and directories can be created on that filesystem. If the inodes are exhausted, no new files or directories can be created, even if there is

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disk space available. The output for the second command shows that the /ftpusers/ filesystem has 0% of inodes available, which means that all the inodes have been used up. This would prevent users from creating new files on the FTP

server. The administrator should either delete some unused files or directories to free up some inodes, or resize the filesystem to increase the number of inodes.

The other options are incorrect because:

A. The users do not have the correct permissions to create files on the FTP server. This is not true, because the output for the first command shows that the /ftpusers/ filesystem has 26% of disk space available, which means that there is

enough space for users to create files. The permissions of the files and directories are not shown in the output, but they are not relevant to the issue of inode exhaustion. B. The ftpusers filesystem does not have enough space. This is not true.

because the output for the first command shows that the /ftpusers/ filesystem has 26% of disk space available, which means that there is enough space for users to create files. The issue is not related to disk space, but to inode capacity.

D. ftpusers is mounted as read only.

This is not true, because the output for the first command does not show any indication that the /ftpusers/ filesystem is mounted as read only. If it was, it would have an (ro) flag next to the mounted on column. A read only filesystem would

prevent users from creating or modifying files on the FTP server, but it would not affect the inode usage.

#### **QUESTION 11**

Application code is stored in Git. Due to security concerns, the DevOps engineer does not want to keep a sensitive configuration file, app . conf, in the repository. Which of the following should the engineer do to prevent the file from being uploaded to the repository?

- A. Run git exclude app. conf.
- B. Run git stash app. conf.
- C. Add app . conf to . exclude.
- D. Add app . conf to . gitignore.

Correct Answer: D

This will prevent the file app.conf from being tracked by Git and uploaded to the repository. The .gitignore file is a special file that contains patterns of files and directories that Git should ignore. Any file that matches a pattern in the .gitignore

file will not be staged, committed, or pushed to the remote repository. The .gitignore file should be placed in the root directory of the repository and committed along with the other files.

The other options are incorrect because:

A. Run git exclude app.conf

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This is not a valid Git command. There is no such thing as git exclude. The closest thing is git update-index --assume-unchanged, which tells Git to temporarily ignore changes to a file, but it does not prevent the file from being uploaded to the

repository.

B. Run git stash app.conf

This will temporarily save the changes to the file app.conf in a stash, which is a hidden storage area for uncommitted changes. However, this does not prevent the file from being tracked by Git or uploaded to the repository. The file will still be

part of the working tree and the index, and it will be restored when the stash is popped or applied.

C. Add app.conf to .exclude

This will have no effect, because Git does not recognize a file named .exclude. The only files that Git uses to ignore files are .gitignore, \$GIT\_DIR/info/exclude, and core.excludesFile.

References:

Git - gitignore Documentation

.gitignore file - ignoring files in Git | Atlassian Git Tutorial Ignoring files - GitHub Docs

[CompTIA Linux+ Certification Exam Objectives]

#### **QUESTION 12**

A user generated a pair of private-public keys on a workstation. Which of the following commands will allow the user to upload the public key to a remote server and enable passwordless login?

A. scp ~/.ssh/id\_rsa user@server:~/

B. rsync ~ /.ssh/ user@server:~/

C. ssh-add user server

D. ssh-copy-id user@server

Correct Answer: D

Explanation: The command ssh-copy-id user@server will allow the user to upload the public key to a remote server and enable passwordless login. The ssh-copy-id command is a tool for copying the public key to a remote server and appending it to the authorized\_keys file, which is used for public key authentication. The command will also set the appropriate permissions on the remote server to ensure the security of the key. The command ssh-copy-id user@server will copy the public key of the user to the server and allow the user to log in without a password. This is the correct command to use for this task. The other options are incorrect because they either do not copy the public key (scp, rsync, or ssh-add) or do not use the correct syntax (scp ~/.ssh/id\_rsa user@server:~/ instead of scp ~/.ssh/id\_rsa.pub user@server:~/ or rsync ~ /.ssh/ user@server:~/ instead of rsync ~/.ssh/id\_rsa.pub user@server:~/). References: CompTIA Linux+ (XKO-005) Certification Study Guide, Chapter 13: Managing Network Services, page 410.

#### **QUESTION 13**



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Which of the following should be used to verify the integrity of a file?

A. sha256sum

B. fsck

C. gpg --d

D. hashcat

Correct Answer: A

The best tool to use to verify the integrity of a file is A. sha256sum. This tool will compute and display the SHA-256 hash of a file, which is a 64-digit hexadecimal number that uniquely identifies the file\\'s content. By comparing the hash of a downloaded file with the hash provided by the file owner or source, you can confirm that the file has not been altered or corrupted during the transfer. The other tools are either not relevant or not suitable for this task. For example:

B. fsck is a tool for checking and repairing the file system, but it does not verify the integrity of individual files.

C. gpg -d is a tool for decrypting files that have been encrypted with GnuPG, but it does not verify the integrity of unencrypted files. D. hashcat is a tool for cracking passwords or hashes, but it does not verify the integrity of files.

#### **QUESTION 14**

Several users reported that they were unable to write data to the /oracle1 directory. The following output has been provided:

Filesystem	Size	Used	Available	Use%	Mounted on
/dev/sdb1	100G	50G	50G	50%	/oracle1

Which of the following commands should the administrator use to diagnose the issue?

A. df -i /oracle1

B. fdisk -1 /dev/sdb1

C. lsblk /dev/sdb1

D. du -sh /oracle1

Correct Answer: A

Explanation: The administrator should use the command df -i /oracle1 to diagnose the issue of users being unable to write data to the /oracle1 directory. This command will show the inode usage of the /oracle1 filesystem, which indicates how many files and directories can be created on it. If the inode usage is 100%, it means that no more files or directories can be added, even if there is still free space on the disk. The administrator can then delete some unnecessary files or directories, or increase the inode limit of the filesystem, to resolve the issue. The other options are not correct commands for diagnosing this issue. The fdisk -I /dev/sdb1 command will show the partition table of /dev/sdb1, which is not relevant to the inode usage. The lsblk /dev/sdb1 command will show information about /dev/sdb1 as a block device, such as its size, mount point, and type, but not its inode usage. The du -sh /oracle1 command will show the disk usage of /oracle1 in human-readable format, but not its inode usage. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 7: Managing Disk Storage; How to Check Inode Usage in Linux - Fedingo



#### **QUESTION 15**

Users have been unable to reach www.comptia.org from a Linux server. A systems administrator is troubleshooting the issue and does the following:

```
Output 1:
2: eth0: <BROADCAST, MULTICAST, UP, LOWER UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
   link/ether ac:11:22:33:44:cd brd ff:ff:ff:ff:ff
   inet 192.168.168.10/24 brd 192.168.169.255 scope global dynamic noprefixroute eth0
      valid 1ft 8097sec preferred 1ft 8097sec
   inet fe80::4daf:8c7c:a6ff:2771/64 scope link noprefixroute
      valid lft forever preferred lft forever
Output 2:
nameserver 192.168.168.53
Output 3:
FING 192.168.168.53 (192.168.168.53) 56(84) bytes of data.
64 bytes from 192.168.168.53; icmp seq=1 ttl=64 time=2.85 ms
--- 192.168.168.53 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 2.847/2.847/2.847/0.000 ms
192.168.168.0/24 dev eth0 proto kernel scope link src 192.168.168.10 metric 600
Output 5:
;; QUESTION SECTION:
;www.comptia.org. IN A
;; ANSWER SECTION:
. 0 CLASS4096 OPT 10 8 LgmNvk0AazU=
;; ADDITIONAL SECTION:
www.comptia.org. 3385 IN A 23.96.239.26
```

Based on the information above, which of the following is causing the issue?

- A. The name www.comptia.org does not point to a valid IP address.
- B. The server 192.168.168.53 is unreachable.
- C. No default route is set on the server.
- D. The network interface eth0 is disconnected.

Correct Answer: B

Explanation: The issue is caused by the server 192.168.168.53 being unreachable. This server is the DNS server configured in the /etc/resolv.conf file, which is used to resolve domain names to IP addresses. The ping command shows that

the server cannot be reached, and the nslookup command shows that the name www.comptia.org cannot be resolved using this server. The other options are incorrect because:

The name www.comptia.org does point to a valid IP address, as shown by the nslookup command using another DNS



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server (8.8.8.8). The default route is set on the server, as shown by the ip route command, which shows a default gateway

of 192.168.168.1.

The network interface eth0 is connected, as shown by the ip link command, which shows a state of UP for eth0. References: CompTIA Linux+ Study Guide, Fourth Edition, page 457-458, 461-462.

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