CompTIA

Exam Questions XK0-004

CompTIA Linux+ Certification Exam

NEW QUESTION 1
A Linux administrator is testing connectivity to a remote host on a shared terminal. The administrator wants to allow other users to access the terminal while the command is executing.
Which of the following commands should the administrator use?

A. bg ping remotehost
B. fg ping remotehost
C. ping remotehost < results
D. ping remotehost &

Answer: C

NEW QUESTION 2
A systems administration team has decided to their systems as immutable instances. They keep the desired state of each of their systems in version control and apply automation whenever they provision a new instance. If there is an issue with one of their servers, instead of troubleshooting the issue they terminate the instance and rebuild it using automation.
Which of the following is this an example of?

A. Inventory
B. Orchestration
C. Infrastructure as code
D. Agentless deployment

Answer: C

NEW QUESTION 3
A systems administrator needs to append output of ls –lha /opt command to the contents of a test.txt file. Which of the following commands will accomplish this?

A. ls –lha /opt > test.txt
B. ls –lha /opt < test.txt
C. ls –lha /opt >> test.txt
D. ls –lha /opt << test.txt

Answer: C

NEW QUESTION 4
An administrator is tasked with increasing the size of the volume /dev/vg/lv to 20GB. Which of the following BEST illustrates the steps the administrator should take?

A. vgextend –L20G /dev/vg/lv; resizelv /dev/vg/lv
B. parted –L20G /dev/vg/lv; remount /dev/vg/lv
C. mkfs –L20G /dev/vg/lv; tune2fs /dev/vg/lv
D. lvextend –L20G /dev/vg/lv; resize2fs /dev/vg/lv

Answer: D

NEW QUESTION 5
A junior systems is configuring localization option environment variables. The administrator is given a checklist of tasks with the following requirements:
View current settings of the LC_ALL environment variable only. Modify the LANG environment variable to US English Unicode.
Given this scenario, which of the following should be performed to meet these requirements? (Choose two.)

A. echo $LC_ALL
B. locale
C. cat $LC_ALL
D. export LANG = en_US.UTF-8
E. export $LANG = en_US.UTF
F. stty

Answer: BD

NEW QUESTION 6
A junior Linux administrator is installing a new application with CPU architecture requirements that have the following specifications:
x64 bit 3.0GHz speed
Minimum quad core
The administrator wants to leverage existing equipment but is unsure whether the requirements of these systems are adequate. The administrator issues the following command cat/proc/cpuinfo. The output of the command is as follows:

```
processor:        0
vendor_id:        GenuineIntel
cpu_family:       x64
model:            58
model name:       Intel (R) Core(TM) i7-3687U @2.10 GHz
stepping:         9
microcode:        0x1c
cpu MHz:          2593.84
cache size:       4096KB
siblings:         1
core id:          0
cpd cores:        4
```

Which of the following is the recommended course of action the administrator should take based on this output?

A. Install the application, as the system meets the application requirements
B. Procure new equipment that matches the recommended specifications
C. Recompile the Linux kernel to support the installation.
D. Reconfigure lib modules to support the new application.

Answer: A

NEW QUESTION 7
The development team has automated their software build process so each time a change is submitted to the source code repository, a new software build is compiled. They are requesting that the Linux operations team look into automating the deployment of the software build into the test environment. Which of the following is the benefit to the development team for implementing deployment automation?

A. To ensure the build commits are also deployed to the test environment
B. To enable notifications when builds are deployed to the test environment
C. To ensure software builds in test are not accidentally deployed to production
D. To streamline the deployment process for deploying builds into test environments

Answer: D

NEW QUESTION 8
A networked has been crashing intermittently. A Linux administrator would like to write a shell script that will attempt to ping the server and email an alert if the server fails to respond. The script will later be scheduled via cron job.
Which of the following scripts would BEST accomplish this task?

A
```
    SERVER=''192.168.1.50''

    RESULT='ping -C 2 $SERVER'

    if [ !$RESULT ]; then

            echo "Server is down" | mail -s "Server down" admin@email_address.com

    fi
```

B
```
    SERVER="192.168.1.50"

    ping -c 2 $SERVER >/dev/null 2>/dev/null

    if [ $? -ge 1 ]; then

            echo "Server is down" | mail -s "Server down" admin@email_address.com

    fi
```

```
C
    SERVER="192.168.1.50"
    RESULT='ping -c 2 $SERVER >/dev/null 2>/dev/null'
    while [ $RESULT != 1 ];
    do
            echo "Server is down" | mail -s "Server down" admin@email_address.com
    done

D
    SERVER="192.168.1.50"
    ping -c 2 $SERVER >/dev/null 2>/tmp/fail.log
    if [ -f /tmp/fail/log ]; then
            echo "Server is down" | mail -s "Server down" admin@email_address.com
    fi
```

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

Answer: D

NEW QUESTION 9
An administrator has modified the configuration file for a service. The service is still running but is not using the new configured values. Which of the following will BEST remediate this issue?

A. kill -HUP
B. init 0
C. service start
D. renice -10

Answer: A

NEW QUESTION 10
A company wants to ensure that all newly created files can be modified only by their owners and that all new directory content can be changed only by the creator of the directory. Which of the following commands will help achieve this task?

A. umask 0022
B. umask 0012
C. chmod –R 0644 /
D. chmod –R 0755 /

Answer: A

NEW QUESTION 10
Which of the following BEST describes running on a Linux system?

A. Containers only need the namespaces functionally to run on a Linux system available since kernel 2.6.
B. Containers need a hypervisor to run a Linux syste
C. Cgroups namespaces are functionalities used for the kernel but not for running containers.
D. Containers only need the cgroups functionality for running on a Linux syste
E. Namespaces is not a Linux kernel functionality needed for creating and managing containers.
F. Containers use the cgroups and namespaces functionalities to isolate processes and assign hardware resources to each of those isolated processes.

Answer: D

NEW QUESTION 12
Which of the following will provide a list of all flash, external, internal, and SSD drives?

A. lspci
B. lsmod
C. lsblk
D. lsusb

Answer: C

NEW QUESTION 14

A Linux administrator has configured a Linux system to be used as a router. The administrator confirms that two network adapters are properly installed and functioning correctly. In addition, the output of the iptables –L command appears to contain a complete firewall configuration.
Which of the following commands does the administrator need to issue for the router to be fully functional?

A. echo "1" > /proc/sys/net/ipv4/ip_forward
B. echo "0" > /proc/sys/net/ipv4/tcp_abort_on_overflow
C. echo "0" > /proc/sys/net/ipv4/max_connections
D. echo "1" > /proc/sys/net/ipv4/ip_default_ttl

Answer: A

NEW QUESTION 19
An operator finds a user is having issues with opening certain files.
Which of the following commands would allow the security administrator to list and check the SELinux context?

A. ls –D
B. ls –a
C. ls –Z
D. ls -1

Answer: C

NEW QUESTION 22
A Linux systems administrator needs to provision multiple web servers into separate regional datacenters. The systems architect has instructed the administrator to define the server infrastructure using a specific tool that consumes a text-based file.
Which of the following is the BEST reason to do this?

A. To document the infrastructure so it can be included in the system security plan
B. To ensure the administrator follows the planning phase of the system development life cycle
C. To define the infrastructure so it can be provisioned consistently with minimal manual tasks
D. To validate user requirements have been met within each regional datacenter for compliance

Answer: B

NEW QUESTION 23
A Linux administrator wants to obtain a list of files and subdirectories in the /etc directory that contain the word "services". Once the files and subdirectories are discovered, they should be listed alphabetically in the /var/tmp/foundservices file. Which of the following shell scripts will accomplish this task?

A. #/bin/bashfind /etc –name services | sort > /var/tmp/foundservices
B. #/bin/bashlocate /etc –sort –name services > /var/tmp/foundservices
C. #/bin/bashfind –name services –sort </var/tmp/foundservices
D. #/bin/bashfind /etc –name services –sort > /var/tmp/foundservices

Answer: B

NEW QUESTION 25
A systems administrator configured a new kernel module, but it stopped working after reboot. Which of the following will allow the systems administrator to check for module problems during server startup?

A. lsmod
B. modprobe
C. modinfo
D. dmesg

Answer: C

NEW QUESTION 30
An administrator needs to change the IP address on a server remotely. After updating the configuration files, a network restart is needed. However, the administrator fears that when the network connection drops, the network restart script will be killed before the new IP address has been set.
Which of the following commands would prevent the script from being killed?

A. nohup service network restart
B. service network restart &
C. echo "service network restart" | at now
D. dg service network restart

Answer: A

NEW QUESTION 33
A new HTTPS web service is being deployed on a server. Which of the following commands should the Linux administrator use to ensure traffic is able to flow through the system firewall to the new service?

A. iptables –I OUTPUT –p tcp --sport 443 –j ACCEPT
B. iptables –A INPUT –p tcp --dport 443 –j ACCEPT
C. iptables –I INPUT --dport 443 –j ACCEPT
D. iptables –A OUTPUT –p tcp --dport 443 –j ACCEPT

Answer: C

NEW QUESTION 34
A Linux storage administrator wants to create a logical volume group. Which of the following commands is required to start the process?

A. pvcreate
B. vgcreate
C. lvcreate
D. mkfs.xfs

Answer: B

NEW QUESTION 37
A junior administrator needs to unload an older video kernel module. Which of the following commands would BEST accomplish this task?

A. modprobe
B. insmod
C. rmmod
D. chmod

Answer: A

NEW QUESTION 39
After installing a new web server, you are unable to browse to the default web page. INSTRUCTIONS
Review all the command output and select the command needed to remediate the issue.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Commands

```
[root@webserver log]# getenforce
[root@webserver log]# setsebool -a | grep httpd
[root@webserver log]# netstat -antp
[root@webserver log]# ss -antp
[root@webserver log]# ps -ef | grep nginx
[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -l
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer
```

Answer

```
[root@webserver log]#
```

```
systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4.ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwx /home/comptia/html/
cp -R /home/comptia/html /var/www/html
```

Output

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Commands

```
[root@webserver log]# getenforce
[root@webserver log]# getsebool -a | grep httpd
[root@webserver log]# netstat -antp
[root@webserver log]# ss -antp
[root@webserver log]# ps -ef | grep nginx
[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -l
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer
```

Answer

```
[root@webserver log]#
```

```
systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4 ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwx /home/comptia/html/
cp -R /home/comptia/html /var/www/html
```

Output

NEW QUESTION 42
A systems administrator is configuring options on a newly installed Linux VM that will be deployed to the Pacific time zone. Which of the following sets of commands should the administrator execute to accurately configure the correct time settings?

A. cd /etcln –s /usr/share/zoneinfo/US/Pacific localtime
B. cd /usr/localln –s /usr/share/zoneinfo/US/Pacific zoneinfo
C. cd /etc/localln –s /usr/share/zoneinfo/US/Pacific localtime
D. cd /usr/share/localln –s /usr/share/zoneinfo/US/Pacific localectl

Answer: A

NEW QUESTION 43
A junior Linux administrator is setting up system-wide configuration settings. The goal is to ensure the PATH environment variable includes the following locations for all users who log into a Linux system.

```
/usr/local/bin
```

```
/usr/local/sbin
```

The administrator issues the following commands at the terminal:

```
echo $PATH
```

```
cat /etc/profile
```

Respectively, the output of these commands is as follows:

```
/usr/bin:/usr/sbin:/sbin:/bin
```

```
# /etc/profile: system-wide .profile file for the Bourne shell (sh(1))

# and Bourne compatible shells (bash(1), ksh(1), ash(1), …).


if [ `id -u` -eg 0 ]; then

PATH="usr/bin:/usr/sbin:/sbin:/bin"

else

PATH="/usr/local/games"

fi

export PATH
```

Given this output, which of the following would be the BEST action for the administrator to perform to address this issue?

A. Update the /etc/profile.d file using a text editor, navigate to the PATH element add the missing locations, and run the bash_completion.sh script to update the

changes.
B. Update the /etc/profile file using a text editor, navigate to the PATH element, add the missing locations and run the . /etc/profile command to update the changes.
C. Update the /etc/profile.d file using a text editor, navigate to the PATH element, add the missing locations, and reboot to update the changes.
D. Update the /etc/profile file using a text editor navigate to the PATH element, add the missing locations, and restart the bash process to update the changes.

Answer: B

NEW QUESTION 45
A systems administrator observes high latency values when reaching a remote web server. Which of the following commands will help determine and isolate issues on the network side?

A. mtr
B. dig
C. netstat
D. route

Answer: A

NEW QUESTION 47
A junior systems administrator created a new filesystem /dev/sda1 with mountpoint /data and added it to the
/etc/fstab for auto-mounting.
When the systems administrator tries to mount the file system, the system refuses. Given the output below:

```
/dev/mapper/VolGroup00-Log-Vol00 / xfs defaults 0 0
/dev/sda1                    /data    xfs       noauto,dev,sync,ro,nosuid          0 0
/dev/mapper/VolGroup00-Log-Vol101 swap    swap     defaults0 0
/dev/sda2                    /mine    ext4     auto,suid,sync,rw,dev    0 0
```

Which of the following steps is necessary?

A. Change the filesystem from /dev/sda1 to /dev/sda2 and reboot.
B. Change the options to auto,dev,sync,rw,nosuid and run the mount -a command.
C. Change the mount point to data and reboot.
D. Change the dump column to 1 and run the mount -a command.

Answer: B

NEW QUESTION 52
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About Exambible

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B. parted –L20G /dev/vg/lv; remount /dev/vg/lv
C. mkfs –L20G /dev/vg/lv; tune2fs /dev/vg/lv
D. lvextend –L20G /dev/vg/lv; resize2fs /dev/vg/lv

Answer: D

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B. locale
C. cat $LC_ALL
D. export LANG = en_US.UTF-8
E. export $LANG = en_US.UTF
F. stty

Answer: BD

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D. Reconfigure lib modules to support the new application.

Answer: A

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SERVER=''192.168.1.50''

RESULT='ping -C 2 $SERVER'

if [ !$RESULT ]; then

        echo "Server is down" | mail -s "Server down" admin@email_address.com

fi
```

B

```
SERVER="192.168.1.50"

ping -c 2 $SERVER >/dev/null 2>/dev/null

if [ $? -ge 1 ]; then

        echo "Server is down" | mail -s "Server down" admin@email_address.com

fi
```

```
C
    SERVER="192.168.1.50"

    RESULT='ping -c 2 $SERVER >/dev/null 2>/dev/null'

    while [ $RESULT != 1 ];

    do

            echo "Server is down" | mail -s "Server down" admin@email_address.com

    done

D
    SERVER="192.168.1.50"

    ping -c 2 $SERVER >/dev/null 2>/tmp/fail.log

    if [ -f /tmp/fail/log ]; then

            echo "Server is down" | mail -s "Server down" admin@email_address.com

    fi
```

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

Answer: D

NEW QUESTION 9
An administrator has modified the configuration file for a service. The service is still running but is not using the new configured values. Which of the following will BEST remediate this issue?

A. kill -HUP
B. init 0
C. service start
D. renice -10

Answer: A

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A company wants to ensure that all newly created files can be modified only by their owners and that all new directory content can be changed only by the creator of the directory. Which of the following commands will help achieve this task?

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B. umask 0012
C. chmod –R 0644 /
D. chmod –R 0755 /

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Answer: D

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B. lsmod
C. lsblk
D. lsusb

Answer: C

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C. echo "0" > /proc/sys/net/ipv4/max_connections
D. echo "1" > /proc/sys/net/ipv4/ip_default_ttl

Answer: A

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An operator finds a user is having issues with opening certain files.
Which of the following commands would allow the security administrator to list and check the SELinux context?

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B. ls –a
C. ls –Z
D. ls -1

Answer: C

NEW QUESTION 22
A Linux systems administrator needs to provision multiple web servers into separate regional datacenters. The systems architect has instructed the administrator to define the server infrastructure using a specific tool that consumes a text-based file.
Which of the following is the BEST reason to do this?

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B. #/bin/bashlocate /etc –sort –name services > /var/tmp/foundservices
C. #/bin/bashfind –name services –sort </var/tmp/foundservices
D. #/bin/bashfind /etc –name services –sort > /var/tmp/foundservices

Answer: B

NEW QUESTION 25
A systems administrator configured a new kernel module, but it stopped working after reboot. Which of the following will allow the systems administrator to check for module problems during server startup?

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B. modprobe
C. modinfo
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Answer: C

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An administrator needs to change the IP address on a server remotely. After updating the configuration files, a network restart is needed. However, the administrator fears that when the network connection drops, the network restart script will be killed before the new IP address has been set.
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D. dg service network restart

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A. iptables –I OUTPUT –p tcp --sport 443 –j ACCEPT
B. iptables –A INPUT –p tcp --dport 443 –j ACCEPT
C. iptables –I INPUT --dport 443 –j ACCEPT
D. iptables –A OUTPUT –p tcp --dport 443 –j ACCEPT

Answer: C

NEW QUESTION 34
A Linux storage administrator wants to create a logical volume group. Which of the following commands is required to start the process?

A. pvcreate
B. vgcreate
C. lvcreate
D. mkfs.xfs

Answer: B

NEW QUESTION 37
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[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -l
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer

Answer

[root@webserver log]#

systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4 ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwx /home/comptia/html/
cp -R /home/comptia/html /var/www/html

A. Mastered
B. Not Mastered

Answer: A

Explanation:

```
Commands
[root@webserver log]# getenforce
[root@webserver log]# getsebool -a | grep httpd
[root@webserver log]# netstat -antp
[root@webserver log]# ss -antp
[root@webserver log]# ps -ef | grep nginx
[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -1
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer
```

```
Answer
[root@webserver log]#


systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4 ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwx /home/comptia/html/
cp -R /home/comptia/html /var/www/html
```

```
Output
```

NEW QUESTION 42
A systems administrator is configuring options on a newly installed Linux VM that will be deployed to the Pacific time zone. Which of the following sets of commands should the administrator execute to accurately configure the correct time settings?

A. cd /etcln –s /usr/share/zoneinfo/US/Pacific localtime
B. cd /usr/localln –s /usr/share/zoneinfo/US/Pacific zoneinfo
C. cd /etc/localln –s /usr/share/zoneinfo/US/Pacific localtime
D. cd /usr/share/localln –s /usr/share/zoneinfo/US/Pacific localectl

Answer: A

NEW QUESTION 43
A junior Linux administrator is setting up system-wide configuration settings. The goal is to ensure the PATH environment variable includes the following locations for all users who log into a Linux system.

```
/usr/local/bin

/usr/local/sbin
```

The administrator issues the following commands at the terminal:

```
echo $PATH

cat /etc/profile
```

Respectively, the output of these commands is as follows:

```
/usr/bin:/usr/sbin:/sbin:/bin


# /etc/profile: system-wide .profile file for the Bourne shell (sh(1))

# and Bourne compatible shells (bash(1), ksh(1), ash(1), ...).


if [ 'id -u' -eg 0 ]; then

PATH="usr/bin:/usr/sbin:/sbin:/bin"

else

PATH="/usr/local/games"

fi

export PATH
```

Given this output, which of the following would be the BEST action for the administrator to perform to address this issue?

A. Update the /etc/profile.d file using a text editor, navigate to the PATH element add the missing locations, and run the bash_completion.sh script to update the

changes.
B. Update the /etc/profile file using a text editor, navigate to the PATH element, add the missing locations and run the . /etc/profile command to update the changes.
C. Update the /etc/profile.d file using a text editor, navigate to the PATH element, add the missing locations, and reboot to update the changes.
D. Update the /etc/profile file using a text editor navigate to the PATH element, add the missing locations, and restart the bash process to update the changes.

Answer: B

NEW QUESTION 45
A systems administrator observes high latency values when reaching a remote web server. Which of the following commands will help determine and isolate issues on the network side?

A. mtr
B. dig
C. netstat
D. route

Answer: A

NEW QUESTION 47
A junior systems administrator created a new filesystem /dev/sda1 with mountpoint /data and added it to the
/etc/fstab for auto-mounting.
When the systems administrator tries to mount the file system, the system refuses. Given the output below:

```
/dev/mapper/VolGroup00-Log-Vol00 / xfs defaults 0 0
/dev/sda1                    /data    xfs       noauto,dev,sync,ro,nosuid        0 0
/dev/mapper/VolGroup00-Log-Vol101 swap     swap     defaults0 0
/dev/sda2                    /mine    ext4      auto,suid,sync,rw,dev   0 0
```

Which of the following steps is necessary?

A. Change the filesystem from /dev/sda1 to /dev/sda2 and reboot.
B. Change the options to auto,dev,sync,rw,nosuid and run the mount -a command.
C. Change the mount point to data and reboot.
D. Change the dump column to 1 and run the mount -a command.

Answer: B

NEW QUESTION 52
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