CompTIA

Exam Questions XK0-004

CompTIA Linux+ Certification Exam

NEW QUESTION 1
A user has connected a Bluetooth mouse to a computer, but it is not working properly. Which of the following commands should the systems administrator use to fix the issue?

A. lsmod –i bluetooth
B. insmod bluetooth
C. modprobe –r bluetooth
D. depmod –i bluetooth

Answer: C

NEW QUESTION 2
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 3
A Linux administrator needs the "tech" account to have the option to run elevated commands as root. Which of the following commands would BEST meet this goal?

A. $ su – tech –c "/bin/bash"
B. # usermod –aG wheel tech
C. # sudo –l tech
D. # groupadd –u tech –g root

Answer: C

NEW QUESTION 4
A Linux server needs to be accessed, but the root password is not available.
Which of the following would BEST allow an administrator to regain access and set a new known password at the same time?

A. Boot into a single-user mode and reset the password via the passwd command.
B. Boot into a single-user mode and reset the password by editing the /etc/passwd file.
C. Boot into a single-user mode and reset the password by editing the /etc/shadow file.
D. Boot into a single-user mode and reset the password via the chage command.

Answer: A

NEW QUESTION 5
A Linux systems administrator is setting up SSH access with PKI for several using their newly created RSA keys. Which of the following MOST securely achieves this task?

A. Use curl to copy each user's public key file to the respective system
B. Use cp to copy each user's public key file to the respective system
C. Use ssh-copy-id to copy each user's public key file to the respective system
D. Use ssh-copy-id to copy each user's private key file to the respective system

Answer: C

NEW QUESTION 6
Which of the following configuration management tools is considered agentless?

A. Ouppet
B. Salt
C. Ansible
D. Chef

Answer: C

NEW QUESTION 7
An administrator is attempting to block SSH connections to 192.168.10.24 using the Linux firewall. After implementing a rule, a connection refused error is displayed when attempting to SSH to 192.168.10.24.
Which of the following rules was MOST likely implemented?

A. iptables –A –p tcp –d 192.168.10.24 –dropt 22 –j REJECT
B. iptables –A –p tcp –d 192.168.10.24 –dropt 22 –j DROP
C. iptables –A –p tcp –d 192.168.10.24 –dropt 22 –j FORWARD
D. iptables –A –p tcp –d 192.168.10.24 –dropt 22 –j REFUSE

Answer: A

NEW QUESTION 8
A Linux administrator wants to fetch a Git repository from a remote Git server. Which of the following is the BEST command to perform this task?

A. git checkout
B. git clone
C. git merge
D. git config

Answer: B

NEW QUESTION 9
Which of the following BEST describes the purpose of the X11 system?

A. X11 provides graphical display capabilities
B. X11 provides command line capabilities
C. X11 provides networking capabilities
D. X11 provides telephony capabilities.

Answer: A

NEW QUESTION 10
Given the output below:

```
drwxr-xr-x.  4096  user1  user1  Documents
drwxr-xr-x.  4096  user1  user1  Music
lrwxrwxrwx.  1     root   root   MyPhoto.jpg ->/Pictures/photo.jpg
drwxr-xr-x.  4096  user1  user1  Pictures
-rw-r--r--.  256   user1  user1  text.txt
-rw-r--r--.  35    user1  user1  tmp.tmp
```

Which of the following commands can be used to remove MyPhoto.jpg from the current directory?

A. unlink ./MyPhoto.jpg
B. del Pictures/photo.jpg
C. rm –rf ./Pictures
D. rm –f MyPhoto.jpg
E. ln –rm ./Pictures/photo.jpg

Answer: E

NEW QUESTION 10
A systems administrator wants to deploy several applications to the same server quickly. Each application should be abstracted from the host with its own dependencies and libraries and utilize a minimal footprint.
Which of the following would be BEST in this scenario?

A. Virtual machines
B. Type 2 hypervisor
C. Chroot jails
D. Containers

Answer: D

NEW QUESTION 11
A systems administrator has finished building a new feature for the monitoring software in a separate Git branch.
Which of the following is the BEST method for adding the new feature to the software's master branch?

A. Merge the changes from the feature branch to the master branch.
B. Save the changes to the master branch automatically with each Git commit.
C. Clone the feature branch into the master branch.
D. Pull the changes from the feature branch into the master branch.

Answer: A

NEW QUESTION 13
Which of the following is the BEST reason for not storing database files in the /var directory?

A. The /var filesystem is not fast enough for database files.
B. The number of files in /var is limited by the available inodes.
C. Files in /var do not have strict file permissions.
D. If log files fill up /var, it might corrupt the database.

Answer: D

NEW QUESTION 14
A junior Linux administrator is optimizing a system in which an application needs to take priority 0 when running the process. The administrator runs the ps command and receives the following output:

```
PID    PPID   TTY      Time       CMD

8481   2      pts/17   16:40:00   app

9854   0      pts/17   16:40:00   ps
```

Given this scenario, which of the following steps will address this issue?

A. Issue the command ronice –n 0 –p 8481
B. Issue the command renice –p 8481
C. Issue the command renice –p 0 ~n 8481
D. Issue the command renice –n 8481

Answer: D

NEW QUESTION 17
A systems administrator needs to retrieve specific fields from a csv file. Which of the following tools would accomplish this task?

A. awk
B. sort
C. print
D. echo

Answer: A

NEW QUESTION 19
A configuration management tool running every minute is enforcing the service HTTPd to be started. To perform maintenance, which of the following series of commands can be used to prevent the service from being started?

A. systemctl stop httpd && systemctl mask httpd
B. systemctl disable httpd && systemctl mask httpd
C. systemctl stop httpd && systemctl hide httpd
D. systemctl disable httpd && systemctl hide httpd

Answer: A

NEW QUESTION 20
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 21
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 24
A systems administrator needs to install a new piece of hardware that requires a new driver. The driver should be manually installed. Which of the following describes the order of commands required to obtain module information, install the module, and check the log for any errors during module installation?

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

Answer: A

NEW QUESTION 29
Which of the following is the purpose of the monitoring server role?

A. To aggregate web traffic to watch which websites employees are visiting
B. To collect status and performance information about the servers in an environment
C. To provide user authentication services to a network
D. To provide real-time analysis of potential threats to the organization

Answer: B

NEW QUESTION 31
A junior system administrator had trouble installing and running an Apache web server on a Linux server. You have been tasked with installing the Apache web server on the Linux server and resolving the issue that prevented the junior administrator from running Apache.
INSTRUCTIONS
Install Apache and start the service. Verify that the Apache service is running with the defaults. Typing "help" in the terminal will show a list of relevant commands. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button. CentOS Command Prompt

```
[root@centos7]#
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:
```
[root@tecmint ~]#
[root@tecmint ~]# yum install httpd
Loaded plugins: fastestmirror, refresh-packagekit
Setting up Install Process
Loading mirror speeds from cached hostfile
 * base: centos.excellmedia.net
 * epel: epel.scopesky.iq
 * extras: centos.excellmedia.net
 * updates: centos-hn.viettelidc.com.vn
Resolving Dependencies
There are unfinished transactions remaining. You might consider running yum-comp
lete-transaction first to finish them.
_
```

```
[root@tecmint ~]#
[root@tecmint ~]# systemctl start httpd
[root@tecmint ~]#
[root@tecmint ~]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/htt
[root@tecmint ~]#
[root@tecmint ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2017-06-27 06:51:35 EDT; 14s ago
     Docs: man:httpd(8)
           man:apachectl(8)
 Main PID: 17981 (httpd)
   Status: "Total requests: 0; Current requests/sec: 0; Current traffic:   0 B/sec"
   CGroup: /system.slice/httpd.service
           ├─17981 /usr/sbin/httpd -DFOREGROUND
           ├─17982 /usr/sbin/httpd -DFOREGROUND
           ├─17983 /usr/sbin/httpd -DFOREGROUND
           ├─17984 /usr/sbin/httpd -DFOREGROUND
           ├─17985 /usr/sbin/httpd -DFOREGROUND
           └─17986 /usr/sbin/httpd -DFOREGROUND

Jun 27 06:51:35 tecmint systemd[1]: Starting The Apache HTTP Server...
Jun 27 06:51:35 tecmint httpd[17981]: AH00558: httpd: Could not reliably determine the server's fully qualifi
Jun 27 06:51:35 tecmint systemd[1]: Started The Apache HTTP Server.
[root@tecmint ~]# █
```

NEW QUESTION 34
An administrator needs to mount the shared NFS file system testhost:/testvolume to mount point /mnt/testvol and make the mount persistent after reboot.
Which of the following BEST demonstrates the commands necessary to accomplish this task?

A.
```
# mkdir -p /mnt/testvol

# echo "testhost:/testvolume        /mnt/testvol     nfs   defaults   0   0" >> /etc/fstab

# mount -a
```

B.
```
# mkdir /mnt/testvol

# mount testhost:/testvolume /mnt/testbol
```

C.
```
# mkdir testhost:/testvolume at /mnt/testvol

# mount -a
```

D.
```
# mkdir /mnt/testvol

# echo "testhost:/testvolume /mnt/testvol" >> /mnt/mnttab

# mount -a
```

Answer: C

NEW QUESTION 36
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 40

An administrator receives a warning about a file system filling up, and then identifies a large file located at /tmp/largelogfile. The administrator deletes the file, but no space is recovered on the file system.
Which of the following commands would BEST assists the administrator in identifying the problem?

A. lsof | grep largelogfile
B. pkill /tmp/largelogfile
C. pgrep largelogfile
D. ps –ef | grep largelogfile

Answer: A

NEW QUESTION 45
An administrator notices that a long-running script, /home/user/script.sh, is taking up a large number of system resources. The administrator does not know the script's function. Which of the following commands should the administrator use to minimize the script's impact on system resources?

A. renice
B. kill
C. bg
D. nohup

Answer: A

NEW QUESTION 49
An administrator reviews the following configuration file provided by a DevOps engineer:

```
Tasks:

  - name:Install php-fpm from repo
    yum:
      name: php-fpm
      state: present
  - name:Install mysql from repo
    yum:
      name: mysql-server
      state: present
```

Which of the following would the application parsing this file MOST likely have to support?

A. YAML
B. AJAX
C. JSON
D. SOAP

Answer: C

NEW QUESTION 52
A Linux administrator needs to take stock of USB devices attached to the system. Which of the following commands would be BEST to complete this task?

A. lspci
B. lsusb
C. cat /proc/USB
D. modprobe -–usb

Answer: B

NEW QUESTION 56
A Linux systems administrator wants the ability to access systems remotely over SSH using RSA authentication. to which of the following files should the RSA token be added to allow this access?

A. authorized_keys
B. ~/.ssh/ssh_config
C. id_rsa.pub
D. known_hosts

Answer: C

NEW QUESTION 60
A member of the production group issues the following command:
echo "Monday through Friday" > /production_docs/days
The command fails to execute, so the user obtains the following output: drwxr--r-- root production 0 Jun 16 2018 production
-rw-r--r-- production production 4096 Jun 14 2018 days
Which of the following commands should the user execute to BEST fix the issue?

A. chmod g+w production to change the permissions of the days file
B. chgrp root production_docs/days to change the group ownership of the production_docs/ days file
C. chmod g+S production to set the GUID on the production_docs directory
D. chown production to change the ownership of the production_docs directory

Answer: D

NEW QUESTION 63
An administrator needs to see a list of the system user's encrypted passwords. Which of the following Linux files does the administrator need to read?

A. /etc/shadow
B. /etc/skel
C. /etc/passwd
D. /etc/pw

Answer: C

NEW QUESTION 64
Which of the following server roles would assign a host IP address?

A. DHCP
B. NTP
C. DNS
D. SSH

Answer: A

NEW QUESTION 68
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 71
A systems administrator is enabling quotas on the /home directory of a Linux server. The administrator makes the appropriate edits to the /etc/fstab file and attempts to issue the commands to enable quotas on the desired directory. However, the administrator receives an error message stating the filesystem does not support quotas. Which of the following commands should the administrator perform to proceed?

A. mount –o remount /home
B. quotacheck -cg
C. edquota /home
D. quotaon /home

Answer: D

NEW QUESTION 76
A junior administrator of a physical server receives log messages indicating the out-of-memory killer has been active. All memory slots are in use on the motherboard, but additional disk space is available. Space has been allocated for a swap file.
Which of the following should the administrator use to reduce the output of memory messages?

A. free : swapoff / swapfile ; swapon -a
B. mkswap /swapfile; swapon –a
C. fallocate –l 2G /swapfile && swapon –a
D. echo "1" > /proc/meninfo ; swapon / swapfile

Answer: A

NEW QUESTION 79
A junior administrator is migrating a virtual machine from a Type 1 hypervisor to a Type 2 hypervisor. To ensure portability, which of the following formats should the administrator export from the Type 1 hypervisor to ensure compatibility?

A. OWASP
B. VDI
C. VMDK
D. OVA

Answer: D

NEW QUESTION 81
A Linux administrator built a GitLab server. Later that day, a software engineer tried to access the server to upload the repository during the final step of installation. The software engineer could not access the website. Which of the following firewall rules would allow access to this site?

A. iptables –A INPUT –p tcp –m multiport --dports 80,443 –m conntrack –cstate NEW, ESTABLISHED –j ACCEPT
B. iptables –A INPUT –p tcp –m multiport --dports 80,443 –m conntrack –cstate ESTABLISHED –j ACCEPT
C. iptables –A INPUT –p tcp –m multiport --dports 80,443 –m conntrack –cstate RELATED, ESTABLISHED –j ACCEPT
D. iptables –A INPUT –p tcp –m multiport --dports 80,443 –m conntrack –cstate NEW, ESTABLISHED –j REJECT

Answer: C

NEW QUESTION 82
A junior Linux administrator is updating local name resolution to support IPv6. The administrator issues the command cat /etc/hosts and receives the following output: 127.1.1.1 localhost
Which of the following actions should the administrator perform to accomplish this task?

A. Modify the /etc/hosts file, and add the ipv6 localhost entry to the file.
B. Modify the /etc/hosts file, and add the ::1 localhost entry to the file.
C. Modify the /etc/hosts file, and add the ipv4 localhost entry to the file.
D. Modify the /etc/hosts file, and add the 0.0.0.0 localhost entry to the file.

Answer: D

NEW QUESTION 83
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