



# CompTIA

## Exam Questions XK0-005

CompTIA Linux+ Certification Exam

#### NEW QUESTION 1

Which of the following data structures is written in JSON?

A)

```
---
name: user1
position: DevOps
floor: 3
```

B)

```
<table>
<tbody><tr>
<td>user1</td>
<td>DevOps</td>
<td>3</td>
</tr>
</tbody></table>
```

C)

```
<root>
  <floor>3</floor>
  <name>user1</name>
  <position>DevOps</position>
</root>
```

D)

```
{
  "name": "user1",
  "job": "DevOps",
  "floor": 3
}
```

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

**Answer: D**

#### NEW QUESTION 2

A Linux engineer receives reports that files created within a certain group are being modified by users who are not group members. The engineer wants to reconfigure the server so that only file owners and group members can modify new files by default. Which of the following commands would accomplish this task?

- A. chmod 775
- B. umask
- C. 002
- D. chattr -Rv
- E. chown -cf

**Answer: B**

#### NEW QUESTION 3

A Linux administrator needs to connect securely to a remote server in order to install application software. Which of the following commands would allow this connection?

- A. scp "ABC-key.pem" root@10.0.0.1
- B. sftp rooteiO.0.0.1
- C. telnet 10.0.0.1 80
- D. ssh -i "ABC-key.pem" root@10.0.0.1
- E. sftp "ABC-key.pem" root@10.0.0.1

**Answer: D**

#### NEW QUESTION 4

One leg of an LVM-mirrored volume failed due to the underlying physical volume, and a systems administrator is troubleshooting the issue. The following output has been provided:

Partial mode. Incomplete volume groups will be activated read-only

LV	VG	Attr	LSize	Origin	Snap%	Move	Log	Copy%	Devices
linear	vg	-wi-a-	40.00G						unknown device(0)
stripe	vg	-wi-a-	40.00G						unknown device(5120),/dev/sda1(0)

Given this scenario, which of the following should the administrator do to recover this volume?

- A. Reboot the serve
- B. The volume will automatically go back to linear mode.
- C. Replace the failed drive and reconfigure the mirror.
- D. Reboot the serve
- E. The volume will revert to stripe mode.
- F. Recreate the logical volume.

**Answer:** B

#### NEW QUESTION 5

A Linux system is getting an error indicating the root filesystem is full. Which of the following commands should be used by the systems administrator to resolve this issue? (Choose three.)

- A. `df -h /`
- B. `fdisk -l /dev/sdb`
- C. `growpart /dev/mapper/rootvg-rootlv`
- D. `pvccreate /dev/sdb`
- E. `lvresize -L +10G -r /dev/mapper/rootvg-rootlv`
- F. `lsblk /dev/sda`
- G. `parted -l /dev/mapper/rootvg-rootlv`
- H. `vgextend /dev/rootvg /dev/sdb`

**Answer:** DEH

#### NEW QUESTION 6

A cloud engineer needs to change the secure remote login port from 22 to 49000. Which of the following files should the engineer modify to change the port number to the desired value?

- A. `/etc/host.conf`
- B. `/etc/hostname`
- C. `/etc/services`
- D. `/etc/ssh/sshd_config`

**Answer:** D

#### NEW QUESTION 7

A Linux administrator needs to expand a volume group using a new disk. Which of the following options presents the correct sequence of commands to accomplish the task?

- A. `partprobe` `vgcreate` `lvextend`
- B. `lvcreate` `fdisk` `partprobe`
- C. `fdiskpartprobe` `mkfs`
- D. `fdiskpvccreate` `vgextend`

**Answer:** D

#### NEW QUESTION 8

While inspecting a recently compromised Linux system, the administrator identified a number of processes that should not have been running:

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
5545	joe	30	-10	5465	56465	8254	R	0.5	1.5	00:35.3	upload.sh
2567	joe	30	-10	6433	75544	9453	R	0.7	1.8	00:25.1	upload_passwd.sh
8634	joe	30	-10	3584	74537	6435	R	0.3	1.1	00:17.6	uploadpw.sh
4846	joe	30	-10	6426	63234	9683	R	0.8	1.9	00:22.2	upload_shadow.sh

Which of the following commands should the administrator use to terminate all of the identified processes?

- A. `pkill -9 -f "upload*.sh"`
- B. `kill -9 "upload*.sh"`
- C. `killall -9 -upload*.sh`
- D. `skill -9 "upload*.sh"`

**Answer:** C

#### NEW QUESTION 9

Which of the following tools is commonly used for creating CI/CD pipelines?

- A. Chef
- B. Puppet
- C. Jenkins
- D. Ansible

**Answer:** C

#### NEW QUESTION 10

An administrator recently updated the BIND software package and would like to review the default configuration that shipped with this version. Which of the

following files should the administrator review?

- A. /etc/named.conf.rpmnew
- B. /etc/named.conf.rpmsave
- C. /etc/named.conf
- D. /etc/bind/bind.conf

**Answer:** C

#### NEW QUESTION 10

After installing a new version of a package, a systems administrator notices a new version of the corresponding, service file was Installed In order to use the new version of the, service file, which of the following commands must be Issued FIRST?

- A. systemctl status
- B. systemctl stop
- C. systemctl reinstall
- D. systemctl daemon-reload

**Answer:** D

#### NEW QUESTION 14

A systems administrator is troubleshooting a connectivity issue pertaining to access to a system named db.example.com. The system IP address should be 192.168.20.88. The administrator issues the dig command and receives the following output:

```
;; ANSWER SECTION:
db.example.com.      15 IN A 192.168.20.89
```

The administrator runs `grep db.example.com /etc/hosts` and receives the following output:

```
192.168.20.89 db.example.com
```

Given this scenario, which of the following should the administrator do to address this issue?

- A. Modify the /etc/hosts file and change the db.example.com entry to 192.168.20.89.
- B. Modify the /etc/network file and change the db.example.com entry to 192.168.20.88.
- C. Modify the /etc/network file and change the db.example.com entry to 192.168.20.89.
- D. Modify the /etc/hosts file and change the db.example.com entry to 192.168.20.88.

**Answer:** A

#### NEW QUESTION 17

A Linux system fails to start and delivers the following error message:

```
Checking all file systems.
/dev/sda1 contains a file system with errors, check forced.
/dev/sda1: Inodes that were part of a corrupted orphan linked list found.
/dev/sda1: UNEXPECTED INCONSISTENCY;
```

Which of the following commands can be used to address this issue?

- A. `fsck.ext4 /dev/sda1`
- B. `partprobe /dev/sda1`
- C. `fdisk /dev/sda1`
- D. `mkfs.ext4 /dev/sda1`

**Answer:** A

#### NEW QUESTION 22

A systems administrator has been unable to terminate a process. Which of the following should the administrator use to forcibly stop the process?

- A. `kill -1`
- B. `kill -3`
- C. `kill -15`
- D. `kill -HUP`
- E. `kill -TERM`

**Answer:** B

#### NEW QUESTION 26

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`

**Answer:** D

#### NEW QUESTION 29

A systems administrator is tasked with installing GRUB on the legacy MBR of the SATA hard drive. Which of the following commands will help the administrator accomplish this task?

- A. `grub-install /dev/hda`
- B. `grub-install /dev/sda`
- C. `grub-install /dev/sr0`
- D. `grub-install /dev/hd0,0`

**Answer:** B

#### NEW QUESTION 32

A systems administrator needs to check if the service `systemd-resolved.service` is running without any errors. Which of the following commands will show this information?

- A. `systemctl status systemd-resolved.service`
- B. `systemctl enable systemd-resolved.service`
- C. `systemctl mask systemd-resolved.service`
- D. `systemctl show systemd-resolved.service`

**Answer:** A

#### NEW QUESTION 36

A systems administrator is troubleshooting connectivity issues and trying to find out why a Linux server is not able to reach other servers on the same subnet it is connected to. When listing link parameters, the following is presented:

```
# ip link list dev eth0
2: eth0: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500, qdisc
fq_codel state DOWN mode DEFAULT group default qlen 1000
link/ether ac:00:11:22:33:cd brd ff:ff:ff:ff:ff:ff
```

Based on the output above, which of following is the MOST probable cause of the issue?

- A. The address `ac:00:11:22:33:cd` is not a valid Ethernet address.
- B. The Ethernet broadcast address should be `ac:00:11:22:33:ff` instead.
- C. The network interface `eth0` is using an old kernel module.
- D. The network interface cable is not connected to a switch.

**Answer:** D

#### NEW QUESTION 39

A systems administrator is tasked with setting up key-based SSH authentication. In which of the following locations should the administrator place the public keys for the server?

- A. `~/.sshd/authkeys`
- B. `~/.ssh/keys`
- C. `~/.ssh/authorized_keys`
- D. `~/.ssh/keyauth`

**Answer:** C

#### NEW QUESTION 44

A development team asks an engineer to guarantee the persistency of journal log files across system reboots. Which of the following commands would accomplish this task?

- A. `grep -i auto /etc/systemd/journald.conf && systemctl restart systemd-journald.service`
- B. `cat /etc/systemd/journald.conf | awk '{print $1,$3}'`
- C. `sed -i 's/auto/persistent/g' /etc/systemd/journald.conf && sed -i 'persistent/s/^#/q/' /etc/systemd/journald.conf`
- D. `journalctl --list-boots && systemctl restart systemd-journald.service`

**Answer:** A

#### NEW QUESTION 48

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

**Answer:** A

#### NEW QUESTION 51

An administrator installed an application from source into /opt/operations1/ and has received numerous reports that users are not able to access the application without having to use the full path /opt/operations1/bin/\*. Which of the following commands should be used to resolve this issue?

- A. echo 'export PATH=\$PATH:/opt/operations1/bin' >> /etc/profile
- B. echo 'export PATH=/opt/operations1/bin' >> /etc/profile
- C. echo 'export PATH=\$PATH/opt/operations1/bin' >> /etc/profile
- D. echo 'export \$PATH:/opt/operations1/bin' >> /etc/profile

**Answer:** A

#### Explanation:

It would be better to put the directory before \$PATH, so that way the directory is searched before the rest of the pathing options in \$PATH.

#### NEW QUESTION 53

A junior systems administrator has just generated public and private authentication keys for passwordless login. Which of the following files will be moved to the remote servers?

- A. id\_dsa.pem
- B. id\_rsa
- C. id\_ecdsa
- D. id\_rsa.pub

**Answer:** D

#### NEW QUESTION 58

A Linux systems administrator receives a notification that one of the server's filesystems is full. Which of the following commands would help the administrator to identify this filesystem?

- A. lsblk
- B. fdisk
- C. df -h
- D. du -ah

**Answer:** C

#### NEW QUESTION 59

Which of the following directories is the mount point in a UEFI system?

- A. /sys/efi
- B. /boot/efi
- C. /efi
- D. /etc/efi

**Answer:** B

#### NEW QUESTION 61

A Linux systems administrator is setting up a new web server and getting 404 - NOT FOUND errors while trying to access the web server pages from the browser. While working on the diagnosis of this issue, the Linux systems administrator executes the following commands:

```
# getenforce
Enforcing

# matchpathcon -V /var/www/html/*
/var/www/html/index.html has context unconfined_u:object_r:user_home_t:s0, should be system_u:object_r:httpd_sys_content_t:s0
/var/www/html/page1.html has context unconfined_u:object_r:user_home_t:s0, should be system_u:object_r:httpd_sys_content_t:s0
```

Which of the following commands will BEST resolve this issue?

- A. sed -i 's/SELINUX=enforcing/SELINUX=disabled/' /etc/selinux/config
- B. restorecon -R -v /var/www/html
- C. setenforce 0
- D. setsebool -P httpd\_can\_network\_connect\_db on

**Answer:** B

#### NEW QUESTION 64

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



D. iptables -t nat -A PREROUTING -p tcp --dport 80 -j DNAT --to-destination 192.0.2.25:3128

**Answer:** D

#### NEW QUESTION 66

A DevOps engineer needs to download a Git repository from <https://git.company.com/admin/project.git>. Which of the following commands will achieve this goal?

- A. git clone <https://git.company.com/admin/project.git>
- B. git checkout <https://git.company.com/admin/project.git>
- C. git pull <https://git.company.com/admin/project.git>
- D. git branch <https://git.company.com/admin/project.git>

**Answer:** A

#### Explanation:

git clone is the best option if its a new project. git pull would work best if it was an ongoing project that had multiple team members that had pushed their updates to the main repository

#### NEW QUESTION 68

A systems administrator received a notification that a system is performing slowly. When running the top command, the systems administrator can see the following values:

```
%Cpu(s): 2.7 us, 1.9 sy, 0.0 ni, 0.4 id, 95 wa, 0.0 hi, 0.0 si 0.0 st
```

Which of the following commands will the administrator most likely run NEXT?

- A. vmstat
- B. strace
- C. htop
- D. lsof

**Answer:** A

#### NEW QUESTION 73

A Linux administrator needs to resolve a service that has failed to start. The administrator runs the following command:

```
ls -l startup file
```

The following output is returned

```
-----. root root 81k Sep 13 19:01 startupfile
```

Which of the following is MOST likely the issue?

- A. The service does not have permissions to read write the startupfile.
- B. The service startupfile size cannot be 81k.
- C. The service startupfile cannot be owned by root.
- D. The service startupfile should not be owned by the root group.

**Answer:** A

#### NEW QUESTION 75

A Linux administrator copied a Git repository locally, created a feature branch, and committed some changes to the feature branch. Which of the following Git actions should the Linux administrator use to publish the changes to the main branch of the remote repository?

- A. rebase
- B. tag
- C. commit
- D. push

**Answer:** C

#### NEW QUESTION 78

A Linux administrator is troubleshooting the root cause of a high CPU load and average.

```
$ uptime
07:30:43 up 20 days, 3 min, 1 user, load average: 2.98, 3.62, 5.21

$ top
PID  USER PR  NI  VIRT  RES   SHR  S  %CPU  %MEM  TIME+  COMMAND
6295  user1 30  -10  5465  56465 8254  R   86.5   1.5  7:35.25  appl

$ ps -ef | grep user1
user1 6295 1 7:42:19 tty/1   06:48:29 /usr/local/bin/appl
```

Which of the following commands will permanently resolve the issue?

- A. renice -n -20 6295
- B. pstree -p 6295
- C. iostat -cy 1 5
- D. kill -9 6295

**Answer:** A

#### NEW QUESTION 79

A Linux engineer set up two local DNS servers (10.10.10.10 and 10.10.10.20) and was testing email connectivity to the local mail server using the mail command on a local machine when the following error appeared:

```
Send-mail: Cannot open mail:25
```

The local machine DNS settings are:

```
$ cat /etc/resolv.conf
nameserver 10.10.10.10 #web records
nameserver 10.10.10.20 #email records
```

```
Mail server: mail.example.com
```

Which of the following commands could the engineer use to query the DNS server to get mail server information?

- A. dig @example.com 10.10.10.20 a
- B. dig @10.10.10.20 example.com mx
- C. dig @example.com 10.10.10.20 ptr
- D. dig @10.10.10.20 example.com ns

**Answer:** B

#### NEW QUESTION 84

What is the main objective when using Application Control?

- A. To filter out specific content.
- B. To assist the firewall blade with handling traffic.
- C. To see what users are doing.
- D. Ensure security and privacy of information.

**Answer:** C

#### NEW QUESTION 86

A Linux administrator modified the SSH configuration file. Which of the following commands should be used to apply the configuration changes?

- A. systemctl stop sshd
- B. systemctl mask sshd
- C. systemctl reload sshd
- D. systemctl start sshd

**Answer:** C

#### NEW QUESTION 89

A Linux systems administrator receives reports from various users that an application hosted on a server has stopped responding at similar times for several days in a row. The administrator logs in to the system and obtains the following output:

Output 1:

```
[Tue Aug 31 16:36:42 2021] OOM: Kill process 43805 (java) score 249 or sacrifice child
[Tue Aug 31 16:36:42 2021] killed process 43805 (java) total-vx: 4446352kB, anon-rss: 4053140kB, file-rss: 68kB
```



Output 2:

```
Linux 3.10.0-328.13.1.x86_64 #1 (hostname) 31/08/2021 _x86_64_ (8 CPU)
16:00:01 PM      CPU      %user   %nice   %system   %iowait   %steal     %idle
16:10:01 PM      all       17.58    0.00    9.36      0.00      0.00     73.06
16:20:01 PM      all       22.34    0.00   11.75      0.00      0.00     65.91
16:30:01 PM      all       25.49    0.00   11.69      0.00      0.00     62.82
```

Output 3:

```
$ free -m
              total        used        free   shared  buff/cache   available
Mem:        16704      15026         174        92         619         793
Swap:          0           0           0
```

Which of the following should the administrator do to provide the BEST solution for the reported issue?

- A. Configure memory allocation policies during business hours and prevent the Java process from going into a zombie state while the server is idle.
- B. Configure a different nice value for the Java process to allow for more users and prevent the Java process from restarting during business hours.
- C. Configure more CPU cores to allow for the server to allocate more processing and prevent the Java process from consuming all of the available resources.
- D. Configure the swap space to allow for spikes in usage during peak hours and prevent the Java process from stopping due to a lack of memory.

**Answer:** A

#### NEW QUESTION 94

A Linux administrator needs to remove software from the server. Which of the following RPM options should be used?

- A. rpm -s
- B. rm -d
- C. rpm -q
- D. rpm -e

**Answer:** D

#### NEW QUESTION 96

Which of the following is a function of a bootloader?

- A. It initializes all the devices that are required to load the OS.
- B. It mounts the root filesystem that is required to load the OS.
- C. It helps to load the different kernels to initiate the OS startup process.
- D. It triggers the start of all the system services.

**Answer:** C

#### NEW QUESTION 98

A Linux administrator is alerted to a storage capacity issue on a server without a specific mount point or directory. Which of the following commands would be MOST helpful for troubleshooting? (Choose two.)

- A. parted
- B. df
- C. mount
- D. du
- E. fdisk
- F. dd
- G. ls

**Answer:** BD

#### NEW QUESTION 103

A Linux administrator needs to correct the permissions of a log file on the server. Which of the following commands should be used to set filename.log permissions to -rwxr--r--. ?

- A. chmod 755 filename.log
- B. chmod 640 filename.log
- C. chmod 740 filename.log
- D. chmod 744 filename.log

**Answer:** D

#### NEW QUESTION 105

A Linux administrator is creating a primary partition on the replacement hard drive for an application server. Which of the following commands should the administrator issue to verify the device name of this partition?

- A. sudo fdisk /dev/sda
- B. sudo fdisk -s /dev/sda
- C. sudo fdisk -l
- D. sudo fdisk -h

Answer: C

#### NEW QUESTION 109

A Linux system is failing to boot with the following error:

```
error: no such partitions
Entering rescue mode...
grub rescue>
```

Which of the following actions will resolve this issue? (Choose two.)

- A. Execute grub-install --root-directory=/mnt and reboot.
- B. Execute grub-install /dev/sdX and reboot.
- C. Interrupt the boot process in the GRUB menu and add rescue to the kernel line.
- D. Fix the partition modifying /etc/default/grub and reboot.
- E. Interrupt the boot process in the GRUB menu and add single to the kernel line.
- F. Boot the system on a LiveCD/ISO.

Answer: BD

#### NEW QUESTION 113

A systems administrator wants to be sure the sudo rules just added to /etc/sudoers are valid. Which of the following commands can be used for this task?

- A. visudo -c
- B. test -f /etc/sudoers
- C. sudo vi check
- D. cat /etc/sudoers | tee test

Answer: A

#### NEW QUESTION 114

A systems administrator configured firewall rules using firewalld. However, after the system is rebooted, the firewall rules are not present:

```
Chain INPUT (policy ACCEPT)
target      prot opt source      destination
Chain FORWARD (policy ACCEPT)
target      prot opt source      destination
Chain OUTPUT (policy ACCEPT)
target      prot opt source      destination
```

The systems administrator makes additional checks:

```
- dynamic firewall daemon
  Loaded: loaded (/usr/lib/systemd/system/firewalld.service: disabled; vendor preset: enabled)
  Active: inactive (dead)
  Docs: man: firewalld (1)

firewalld is not running
```

Which of the following is the reason the firewall rules are not active?

- A. iptables is conflicting with firewalld.
- B. The wrong system target is activated.
- C. FIREWALL\_ARGS has no value assigned.
- D. The firewalld service is not enabled.

Answer: D

#### NEW QUESTION 115

A Linux administrator is installing a web server and needs to check whether web traffic has already been allowed through the firewall. Which of the following commands should the administrator use to accomplish this task?

- A. firewalld query-service-http
- B. firewall-cmd --check-service http
- C. firewall-cmd --query-service http
- D. firewalld --check-service http

Answer: C

**NEW QUESTION 119**

A systems administrator made some unapproved changes prior to leaving the company. The newly hired administrator has been tasked with revealing the system to a compliant state. Which of the following commands will list and remove the correspondent packages?

- A. dnf list and dnf remove last
- B. dnf remove and dnf check
- C. dnf info and dnf upgrade
- D. dnf history and dnf history undo last

**Answer: D**

**NEW QUESTION 122**

A Linux administrator is trying to remove the ACL from the file /home/user/data.txt but receives the following error message:

```
setfacl: data.txt: operation not permitted
```

Given the following analysis:

```
/dev/mapper/linux-home on /home type xfs (rw,relatime,seclabel,attr2,inode64,usrquota)

-rw-rw-r--+ 1 user staff 2354 Sep 15 16:33 data.txt
-rw-rw-r--+ user staff unconfined_u:object_r:user_home_t:s0 data.txt

# file: data.txt
# owner: user
# group: staff
user::rw-
user:accounting:rw-
group::r-
mask::rw-
other::r-

Attributes:
-----a-----
```

Which of the following is causing the error message?

- A. The administrator is not using a highly privileged account.
- B. The filesystem is mounted with the wrong options.
- C. SELinux file context is denying the ACL changes.
- D. File attributes are preventing file modification.

**Answer: D**

**NEW QUESTION 123**

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

```
# grep joe /etc/passwd /etc/shadow
/etc/passwd:joe:x:1001:1001::/home/joe:/bin/nologin
/etc/shadow:joe:$6$3uOw6qWx9876jGhgKJsdfH987634534voj.:18883:0:99999:7:::
```

Which of the following command 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

**Answer: A**

**NEW QUESTION 126**

A developer reported an incident involving the application configuration file /etc/httpd/conf/httpd.conf that is missing from the server. Which of the following identifies the RPM package that installed the configuration file?

- A. rpm -qf /etc/httpd/conf/httpd.conf
- B. rpm -ql /etc/httpd/conf/httpd.conf
- C. rpm --query /etc/httpd/conf/httpd.conf
- D. rpm -q /etc/httpd/conf/httpd.conf

**Answer: A**

**NEW QUESTION 130**

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 event

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:

```
yum install httpd
systemctl --now enable httpd systemctl status httpd
netstat -tunlp | grep 80 pkill <processname> systemctl restart httpd systemctl status httpd
```

#### NEW QUESTION 133

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. systemctl reboot
- C. systemctl get-default
- D. systemctl emergency

**Answer:** B

#### NEW QUESTION 134

In which of the following filesystems are system logs commonly stored?

- A. /var
- B. /tmp
- C. /etc
- D. /opt

**Answer:** A

#### NEW QUESTION 137

A Linux engineer has been notified about the possible deletion of logs from the file /opt/app/logs. The engineer needs to ensure the log file can only be written into without removing previous entries.

```
# lsattr /opt/app/logs
-----e--- logs
```

Which of the following commands would be BEST to use to accomplish this task?

- A. chattr +a /opt/app/logs
- B. chattr +d /opt/app/logs
- C. chattr +i /opt/app/logs
- D. chattr +c /opt/app/logs



Answer: A

NEW QUESTION 142

As a Systems Administrator, to reduce disk space, you were tasked to create a shell script that does the following: Add relevant content to /tmp/script.sh, so that it finds and compresses rotated files in /var/log without recursion.

INSTRUCTIONS

Fill the blanks to build a script that performs the actual compression of rotated log files.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Snippets

tar

until

zip

egrep

awk

\$log

"\$@"

pgrep

repeat

/tmp/tmpfile

locate

Filename

nan

then

"log.[1-6]\$"

in

done

/var/log

for

xx

"\$1"

sed

gzip

"\$log.[1-6]\${"

while

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep 

?

 > /tmp/tmpfile



?

 filename 

?

 $(cat 

?

)

do



?

 $filename



?


```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Snippets

tar

until

zip

egrep

awk

\$log

"\$@"

pgrep

repeat

/tmp/tmpfile

locate

Filename

nan

then

"log.[1-6]\$"

in

done

/var/log

for

xx

"\$1"

sed

gzip

"\$log.[1-6]\${"

while

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep "$1" > /tmp/tmpfile

for filename in $(cat /tmp/tmpfile)

do

gzip $filename

done
```

NEW QUESTION 144

A Linux engineer is setting the sticky bit on a directory called devops with 755 file permission. Which of the following commands will accomplish this task?

- A. chown -s 755 devops
- B. chown 1755 devops
- C. chmod -s 755 devops
- D. chmod 1755 devops

Answer: D



#### NEW QUESTION 149

An administrator transferred a key for SSH authentication to a home directory on a remote server. The key file was moved to `.ssh/authorized_keys` location in order to establish SSH connection without a password. However, the SSH command still asked for the password. Given the following output:

```
[admin@linux ~]$ -ls -lhZ .ssh/auth*
-rw-r--r--. admin unconfined_u:object_r:user_home_t:s0 .ssh/authorized_keys
```

Which of the following commands would resolve the issue?

- A. `restorecon .ssh/authorized_keys`
- B. `ssh_keygen -t rsa -o .ssh/authorized_keys`
- C. `chown root:root .ssh/authorized_keys`
- D. `chmod 600 .ssh/authorized_keys`

**Answer: A**

#### NEW QUESTION 154

An administrator deployed a Linux server that is running a web application on port 6379/tcp. SELinux is in enforcing mode based on organization policies. The port is open on the firewall. Users who are trying to connect to a local instance of the web application receive Error 13, Permission denied. The administrator ran some commands that resulted in the following output:

```
# semanage port -l | egrep '(`http_port_t|6379) '
http_port_t tcp 80, 81, 443, 488, 8008, 8009, 8443, 9000

# curl http://localhost/App.php
Cannot connect to App Server.
```

Which of the following commands should be used to resolve the issue?

- A. `semanage port -d -t http_port_t -p tcp 6379`
- B. `semanage port -a -t http_port_t -p tcp 6379`
- C. `semanage port -a http_port_t -p top 6379`
- D. `semanage port -l -t http_port_tcp 6379`

**Answer: B**

#### NEW QUESTION 157

A Linux administrator found many containers in an exited state. Which of the following commands will allow the administrator to clean up the containers in an exited state?

- A. `docker rm --all`
- B. `docker rm $(docker ps -aq)`
- C. `docker images prune *`
- D. `docker rm --state exited`

**Answer: D**

#### NEW QUESTION 158

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/default/` director
- B. `systemctl enable cleanup`
- C. Create a unit file in the `/etc/ske1/` director
- D. `systemctl enable cleanup`
- E. Create a unit file in the `/etc/systemd/system/` director
- F. `systemctl enable cleanup`
- G. Create a unit file in the `/etc/sysctl.d/` director
- H. `systemctl enable cleanup`

**Answer: C**

#### NEW QUESTION 159

An administrator accidentally deleted the `/boot/vmlinuz` file and must resolve the issue before the server is rebooted. Which of the following commands should the administrator use to identify the correct version of this file?

- A. `rpm -qa | grep kernel; uname -a`
- B. `yum -y update; shutdown -r now`
- C. `cat /etc/centos-release; rpm -Uvh --nodeps`

D. telinit 1; restorecon -Rv /boot

**Answer:** A

#### NEW QUESTION 164

A Linux engineer needs to download a ZIP file and wants to set the nice of value to -10 for this new process. Which of the following commands will help to accomplish the task?

- A. \$ nice -v -10 wget https://foo.com/installation.zip
- B. \$ renice -v -10 wget https://foo.com/installation.2ip
- C. \$ renice -10 wget https://foo.com/installation.zip
- D. \$ nice -10 wget https://foo.com/installation.zip

**Answer:** D

#### NEW QUESTION 168

A cloud engineer is asked to copy the file deployment.yaml from a container to the host where the container is running. Which of the following commands can accomplish this task?

- A. docker cp container\_id/deployment.yaml deployment.yaml
- B. docker cp container\_id:/deployment.yaml deployment.yaml
- C. docker cp deployment.yaml local://deployment.yaml
- D. docker cp container\_id/deployment.yaml local://deployment.yaml

**Answer:** A

#### NEW QUESTION 172

A Linux administrator needs to analyze a failing application that is running inside a container. Which of the following commands allows the Linux administrator to enter the running container and analyze the logs that are stored inside?

- A. docker run -ti app /bin/sh
- B. podman exec -ti app /bin/sh
- C. podman run -d app /bin/bash
- D. docker exec -d app /bin/bash

**Answer:** B

#### NEW QUESTION 176

A systems administrator is investigating why one of the servers has stopped connecting to the internet.

```
#curl http://google.com
curl: (6) Could not resolve host: google.com

#cat /etc/resolv.conf
search user.company.com company.com
#nameserver 10.10.10.10

#ip route
0.0.0.0/0 via 10.0.5.1 dev eth0 proto static metric 100
10.0.0.0/16 dev eth0 proto kernel scope link src 10.0.3.60 metric 101

#nmcli connection show
NAME                UUID                                  TYPE      DEVICE
eth0                 ba4a3d30-efdc-4fa5-83d3-3721fd4aff75 ethernet  eth0
Wired connection 1   8d569d5a-22a2-356d-8532-9a2638f11b5a5 ethernet  --
```

Which of the following is causing the issue?

- A. The DNS address has been commented out in the configuration file.
- B. The search entry in the /etc/resolv.conf file is incorrect.
- C. Wired connection 1 is offline.
- D. No default route is defined.

**Answer:** A

#### NEW QUESTION 180

Using AD Query, the security gateway connections to the Active Directory Domain Controllers using what protocol?

- A. Windows Management Instrumentation (WMI)
- B. Hypertext Transfer Protocol Secure (HTTPS)
- C. Lightweight Directory Access Protocol (LDAP)
- D. Remote Desktop Protocol (RDP)

**Answer:** A

#### NEW QUESTION 182

A systems administrator created a new Docker image called test. After building the image, the administrator forgot to version the release. Which of the following will allow the administrator to assign the v1 version to the image?

- A. docker image save test test:v1
- B. docker image build test:vl
- C. docker image tag test test:vl
- D. docker image version test:v1

**Answer: C**

#### NEW QUESTION 186

A systems administrator installed a new software program on a Linux server. When the systems administrator tries to run the program, the following message appears on the screen.

```
Hardware virtualization support is not available on this system.  
Either is not present or disabled in the system's BIOS
```

Which of the following commands will allow the systems administrator to check whether the system supports virtualization?

- A. dmidecode -s system-version
- B. lscpu
- C. sysctl -a
- D. cat /sys/device/system/cpu/possible

**Answer: B**

#### NEW QUESTION 191

A systems administrator is deploying three identical, cloud-based servers. The administrator is using the following code to complete the task:

```
resource "aws_instance" "ec2_instance" {  
  
    ami                = data.aws_ami.vendor-Linux-2.id  
    associate_public_ip_address = true  
    count              = 3  
    instance_type      = "instance_type"  
    vpc_security_group_ids = [aws_security_group.allow_ssh.id]  
    key_name            = aws_key_pair.key_pair.key_name  
  
    tags = [  
        Name = "${var.namespace} ${count.index}"  
    ]  
}
```

Which of the following technologies is the administrator using?

- A. Ansible
- B. Puppet
- C. Chef
- D. Terraform

**Answer: D**

#### NEW QUESTION 196

A systems administrator is checking the system logs. The administrator wants to look at the last 20 lines of a log. Which of the following will execute the command?

- A. tail -v 20
- B. tail -n 20
- C. tail -c 20
- D. tail -l 20

**Answer: B**

#### NEW QUESTION 200

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 -l /dev/sdb1
- C. lsblk /dev/sdb1
- D. du -sh /oracle1

**Answer:** A

#### NEW QUESTION 205

Which of the following enables administrators to configure and enforce MFA on a Linux system?

- A. Kerberos
- B. SELinux
- C. PAM
- D. PKI

**Answer:** A

#### NEW QUESTION 207

A systems administrator wants to test the route between IP address 10.0.2.15 and IP address 192.168.1.40. Which of the following commands will accomplish this task?

- A. route -e get to 192.168.1.40 from 10.0.2.15
- B. ip route get 192.163.1.40 from 10.0.2.15
- C. ip route 192.169.1.40 to 10.0.2.15
- D. route -n 192.168.1.40 from 10.0.2.15

**Answer:** B

#### NEW QUESTION 212

A systems administrator is investigating an issue in which one of the servers is not booting up properly. The journalctl entries show the following:

```
Sep 16 20:30:43 server kernel: acpi PNP0A03:00: _OSC failed (AE_NOT_FOUND);
-- Subject: Unit dev-mapper-centos\x2dapp.device has failed
Sep 16 20:32:15 server systemd[1]: Dependency failed for /opt/app
-- Subject: Unit opt-app.mount has failed
-- Unit opt-app.mount has failed
Sep 16 20:32:15 server systemd[1]: Dependency failed for Local File Systems.
-- Subject: Unit local-fs.target has failed
-- Unit local-fs.target has failed.
Sep 16 20:32:15 server systemd[1]: Dependency failed for Relabel all filesystem, if necessary.
-- Subject: Unit rhel-autorelabel.service has failed
-- Unit rhel-autorelabel.service has failed.
```

Which of the following will allow the administrator to boot the Linux system to normal mode quickly?

- A. Comment out the /opt/app filesystem in /etc/fstab and reboot.
- B. Reformat the /opt/app filesystem and reboot.
- C. Perform filesystem checks on local filesystems and reboot.
- D. Trigger a filesystem relabel and reboot.

**Answer:** A

#### NEW QUESTION 217

A systems administrator is encountering performance issues. The administrator runs 3 commands with the following output

```
09:10:18 up 457 days, 32min, 5 users, load average: 4.22 6.63 5.98
```

The Linux server has the following system properties CPU: 4 vCPU

Memory: 50GB

Which of the following accurately describes this situation?

- A. The system is under CPU pressure and will require additional vCPUs
- B. The system has been running for over a year and requires a reboot.
- C. Too many users are currently logged in to the system
- D. The system requires more memory

**Answer:** B

#### NEW QUESTION 218

A newly created container has been unable to start properly, and a Linux administrator is analyzing the cause of the failure. Which of the following will allow the administrator to determine the FIRST command that is executed inside the container right after it starts?

- A. docker export <container\_id>
- B. docker info <container\_id>
- C. docker start <container\_id>
- D. docker inspect <container\_id>

**Answer:** D

#### NEW QUESTION 219

A systems administrator requires that all files that are created by the user named web have read-only permissions by the owner. Which of the following commands will satisfy this requirement?

- A. chown web:web /home/web
- B. chmod -R 400 /home/web
- C. echo "umask 377" >> /home/web/.bashrc
- D. setfacl read /home/web

**Answer:** B

#### NEW QUESTION 221

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