CompTIA

Exam Questions XK0-005

CompTIA Linux+ Certification Exam

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NEW QUESTION 1
A Linux administrator cloned an existing Linux server and built a new server from that clone. The administrator encountered the following error after booting the cloned server:

```
Device mismatch detected
```

The administrator performed the commands listed below to further troubleshoot and mount the missing filesystem:

```
#ls -al /dev/disk/by-uuid/
total 0
drwxr-xr-x 2 root 220 Jul 08:59 .
drwxr-xr-x 2 root 160 Jul 08:59 ..
lrwxrwxrwx 1 root 26 Jul 11:10 2251a54-6c14-9187-df8629373 -> ../../sdb
lrwxrwxrwx 1 root 26 Jul 11:10 4211c54-2a13-7291-bd8629373 -> ../../sdc
lrwxrwxrwx 1 root 26 Jul 11:10 3451b54-6d10-3561-ad8629373 -> ../../sdd
```

Which of the following should administrator use to resolve the device mismatch issue and mount the disk?

A. mount disk by device-id
B. fsck -A
C. mount disk by-label
D. mount disk by-blkid

Answer: D

NEW QUESTION 2
A systems administrator is tasked with preventing logins from accounts other than root, while the file
/etc/nologin exists. Which of the following PAM modules will accomplish this task?

A. pam_login.so
B. pam_access.so
C. pam_logindef.so
D. pam_nologin.so

Answer: D

NEW QUESTION 3
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 4
Which of the following tools is BEST suited to orchestrate a large number of containers across many different servers?

A. Kubernetes
B. Ansible
C. Podman
D. Terraform

Answer: A

NEW QUESTION 5
Rugged appliances are small appliances with ruggedized hardware and like Quantum Spark appliance they use which operating system?

A. Centos Linux
B. Gaia embedded
C. Gaia
D. Red Hat Enterprise Linux version 5

Answer: B

NEW QUESTION 6
A Linux administrator is tasked with adding users to the system. However, the administrator wants to ensure the users' access will be disabled once the project is over. The expiration date should be 2021-09-30. Which of the following commands will accomplish this task?

A. sudo useradd -e 2021-09-30 Project_user
B. sudo useradd -c 2021-09-30 Project_user
C. sudo modinfo -F 2021-09-30 Project_uses
D. sudo useradd -m -d 2021-09-30 Project_user

Answer: A

NEW QUESTION 7
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 8
A systems administrator created a web server for the company and is required to add a tag for the API so end users can connect. Which of the following would the administrator do to complete this requirement?

A. hostnamectl status --no-ask-password
B. hostnamectl set-hostname "$(perl -le "print" "A" x 86)"
C. hostnamectl set-hostname Comptia-WebNode -H root@192.168.2.14
D. hostnamectl set-hostname Comptia-WebNode --transient

Answer: C

NEW QUESTION 9
Some servers in an organization have been compromised. Users are unable to access to the organization's web page and other services. While reviewing the system log, a systems administrator notices messages from the kernel regarding firewall rules:

```
Oct 20 03:45:50 hostnane kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=1059 TOS=0x00
PREC=0x00 TTL=115 ID=31368 DF PROTO=TCP
SPT=17992 DPT=80 WINDOW=16477 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:02 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=52 ID=763 DF PROTO=TCP SPT=20229 DPT=22 WINDOW=15598 RES=0x00 ACK URGP=0
Oct 20 03:46:14 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=324 TOS=0x00
PREC=0x00 TTL=49 ID=64245 PROTO=TCP SPT=47237 DPT=80 WINDOW=470 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:26 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=45 ID=2010 PROTO=TCP SPT=48322 DPT=80 WINDOW=380 RES=0x00 ACK URGP=0
```

Which of the following commands will remediate and help resolve the issue?

A. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
IPtables -A FORWARD -i eth0 -p tcp --dport 80 -j ACCEI
IPtables -A FORWARD -i eth0 -p tcp --dport 22 -j ACCEI
```

B. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
IPtables -A INPUT -i eth0 -p tcp --dport 80 -j ACCEP
IPtables -A INPUT -i eth0 -p tcp --dport 22 -j ACCEP
```

C. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
IPtables -A INPUT -i eth0 -p tcp --sport 80 -j ACCEP'
IPtables -A INPUT -i eth0 -p tcp --sport 22 -j ACCEP'
```

D. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
IPtables -A INPUT -i eth0 -p tcp --dport :80 -j ACCEF
IPtables -A INPUT -i eth0 -p tcp --dport :22 -j ACCEF
```

Answer: B

NEW QUESTION 10
A Linux administrator reviews a set of log output files and needs to identify files that contain any occurrence of the word denied. All log files containing entries in uppercase or lowercase letters should be included in the list. Which of the following commands should the administrator use to accomplish this task?

A. find . -type f -print | xrags grep -ln denied
B. find . -type f -print | xrags grep -nv denied
C. find . -type f -print | xrags grep -wL denied
D. find . -type f -print | xrags grep -li denied

Answer: A

NEW QUESTION 10
A Linux administrator was asked to run a container with the httpd server inside. This container should be exposed at port 443 of a Linux host machine while it internally listens on port 8443. Which of the following commands will accomplish this task?

A. podman run -d -p 443:8443 httpd
B. podman run -d -p 8443:443 httpd
C. podman run –d -e 443:8443 httpd
D. podman exec -p 8443:443 httpd

Answer: A

NEW QUESTION 12
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. fdiskpvcreate vgextend

Answer: D

NEW QUESTION 16
Which of the following technologies can be used as a central repository of Linux users and groups?

A. LDAP
B. MFA
C. SSO
D. PAM

Answer: A

NEW QUESTION 20
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	0.9	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 25
Based on an organization's new cybersecurity policies, an administrator has been instructed to ensure that, by default, all new users and groups that are created fall within the specified values below.

```
# Min/max values for automatic uid selection in useradd
#
UID_MIN 1000
UID_MAX 60000
# Min/max values for automatic gid selection in groupadd
#
GID_MIN 1000
GID_MAX 60000
```

To which of the following configuration files will the required changes need to be made?

A. /etc/login.defs
B. /etc/security/limits.conf
C. /etc/default/useradd
D. /etc/profile

Answer: A

NEW QUESTION 26
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 29
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 34
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 37
A systems administrator is compiling a report containing information about processes that are listening on the network ports of a Linux server. Which of the following commands will allow the administrator to obtain the needed information?

A. ss -pint
B. tcpdump -nL
C. netstat -pn
D. lsof -It

Answer: C

NEW QUESTION 41
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 46
An administrator needs to make some changes in the IaC declaration templates. Which of the following commands would maintain version control?

A. git clone https://github.com/comptia/linux+-.git git push origin
B. git clone https://qithub.com/comptia/linux+-.git git fetch New-Branch
C. git clone https://github.com/comptia/linux+-.git git status
D. git clone https://github.com/comptia/linuxt+-.gitgit checkout -b <new-branch>

Answer: D

NEW QUESTION 51
A Linux administrator is troubleshooting an issue in which an application service failed to start on a Linux server. The administrator runs a few commands and gets the following outputs:

```
Output 1:

Dec 23 23:14:15 root systemd[1] logsearch.service: Failed to start Logsearch.

Output 2:

logsearch.service - Log Search
   Loaded: loaded (/etc/systemd/system/logsearch.service; enabled; vendor preset:enabled)
   Active: failed (Result: timeout)
  Process: 3267 ExecStart=/usr/share/logsearch/bin/logger ...
 Main PID: 3267 (code=killed, signal=KILL)
```

Based on the above outputs, which of the following is the MOST likely action the administrator should take to resolve this issue?

A. Enable the logsearch.service and restart the service.
B. Increase the TimeoutStartUSec configuration for the logsearch.sevice.
C. Update the OnCalendar configuration to schedule the start of the logsearch.service.
D. Update the KillSignal configuration for the logsearch.service to use TERM.

Answer: B

NEW QUESTION 54
A DevOps engineer needs to allow incoming traffic to ports in the range of 4000 to 5000 on a Linux server. Which of the following commands will enforce this rule?

A. iptables -f filter -I INPUT -p tcp --dport 4000:5000 -A ACCEPT
B. iptables -t filter -A INPUT -p tcp --dport 4000:5000 -j ACCEPT
C. iptables filter -A INPUT -p tcp --dport 4000:5000 -D ACCEPT
D. iptables filter -S INPUT -p tcp --dport 4000:5000 -A ACCEPT

Answer: B

NEW QUESTION 55
A Linux administrator is tasked with creating resources using containerization. When deciding how to create this type of deployment, the administrator identifies some key features, including portability, high availability, and scalability in production. Which of the following should the Linux administrator choose for the new design?

A. Docker
B. On-premises systems
C. Cloud-based systems
D. Kubernetes

Answer: D

NEW QUESTION 57
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: etho: <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 58
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 63
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 65
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 68
A junior Linux administrator is tasked with installing an application. The installation guide states the application should only be installed in a run level 5 environment.

```
$ systemctl get-default
getty.target
```

Which of the following commands would ensure the server is set to runlevel 5?

A. systemctl isolate multi-user.target
B. systemctl isolate graphical.target
C. systemctl isolate network.target
D. systemctl isolate basic.target

Answer: B

NEW QUESTION 73
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 77
A systems administrator frequently connects to a remote host via SSH and a non-standard port. The systems administrator would like to avoid passing the port parameter on the command line every time. Which of the following files can be used to set a different port value for that host?

A. /etc/ssh/sshd_config
B. /etc/ssh/moduli
C. ~/.ssh/config
D. ~/.ssh/authorized_keys

Answer: C

NEW QUESTION 80
A Linux administrator recently downloaded a software package that is currently in a compressed file. Which of the following commands will extract the files?

A. unzip -v
B. bzip2 -z
C. gzip
D. funzip

Answer: C

NEW QUESTION 85
A junior administrator is trying to set up a passwordless SSH connection to one of the servers. The administrator follows the instructions and puts the key in the authorized_key file at the server, but the administrator is still asked to provide a password during the connection.
Given the following output:

```
junior@server:~$ ls -lh .ssh/auth*
-rw------- 1 junior junior 566 sep 13 20:56 .ssh/authorized_key
```

Which of the following commands would resolve the issue and allow an SSH connection to be established without a password?

A. restorecon -rv .ssh/authorized_key
B. mv .ssh/authorized_key .ssh/authorized_keys
C. systemctl restart sshd.service
D. chmod 600 mv .ssh/authorized_key

Answer: C

NEW QUESTION 88
Which of the following commands is used to configure the default permissions for new files?

A. setenforce
B. sudo
C. umask
D. chmod

Answer: C

NEW QUESTION 89
When trying to log in remotely to a server, a user receives the following message:

```
Password:
Last failed login: Wed Sep 15 17:23:45 CEST 2021 from 10.0.4.3 on ssh:notty
There were 3 failed login attempts since the last successful login.
Connection to localhost closed.
```

The server administrator is investigating the issue on the server and receives the following outputs:

Output 1:

user:x:1001:7374:::/home/user:/bin/false

Output 2:

drwx------. 2 user 62 Sep 15 17:17 /home/user

Output 3:

```
Sep 12 14:14:05 server sshd[22958] Failed password for user from 10.0.2.8
Sep 15 17:24:03 server sshd[9460]: Accepted keyboard-interactive/pam for user from 10.0.6.5 port 50928 ssh2
Sep 15 17:24:03 server sshd[9460]: pam_unix(sshd:session): session opened for user testuser
Sep 15 17:24:03 server sshd[9460]: pam_unix(sshd:session): session closed for user testuser
```

Which of the following is causing the issue?

A. The wrong permissions are on the user's home directory.
B. The account was locked out due to three failed logins.
C. The user entered the wrong password.
D. The user has the wrong shell assigned to the account.

Answer: D

NEW QUESTION 90
A Linux system is failing to start due to issues with several critical system processes. Which of the following options can be used to boot the system into the single user mode? (Choose two.)

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

Answer: CE

NEW QUESTION 94
A Linux systems administrator needs to copy files and directories from Server A to Server B. Which of the following commands can be used for this purpose? (Select TWO)

A. rsyslog
B. cp
C. rsync
D. reposync
E. scp
F. ssh

Answer: CE

NEW QUESTION 99
A user is asking the systems administrator for assistance with writing a script to verify whether a file exists. Given the following:

```
#1/bin/bash
filename=$1
<CONDITIONAL>
echo "File exists"
else
echo "File does not exist"
fi
```

Which of the following commands should replace the <CONDITIONAL> string?

A. if [-f "$filename"]; then
B. if [-d "$filename"]; then
C. if [-f "$filename"] then
D. if [-f "$filename"]; while

Answer: A

NEW QUESTION 101
A Linux administrator needs to create a new cloud.cpio archive containing all the files from the current directory. Which of the following commands can help to accomplish this task?

A. ls | cpio -iv > cloud.epio
B. ls | cpio -iv < cloud.epio
C. ls | cpio -ov > cloud.cpio
D. ls cpio -ov < cloud.cpio

Answer: C

NEW QUESTION 105
A Linux administrator has been tasked with installing the most recent versions of packages on a RPM-based OS. Which of the following commands will accomplish this task?

A. apt-get upgrade
B. rpm -a
C. yum updateinfo
D. dnf update
E. yum check-update

Answer: D

NEW QUESTION 110
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 app1

$ ps -ef | grep user1
user1 6295 1 7:42:19 tty/1   06:48:29 /usr/local/bin/app1
```

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 112
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 117
A Linux administrator needs to determine whether a hostname is in the DNS. Which of the following would supply the information that is needed?

A. nslookup
B. rsyn
C. netstat
D. host

Answer: A

NEW QUESTION 118
A Linux systems administrator needs to persistently enable IPv4 forwarding in one of the Linux systems. Which of the following commands can be used together to accomplish this task? (Choose two.)

A. sysctl net.ipv4.ip_forward
B. sysctl -w net.ipv4.ip_forward=1
C. echo "net.ipv4.ip_forward=1" >> /etc/sysctl.conf
D. echo 1 > /proc/sys/net/ipv4/ip_forward
E. sysctl –p
F. echo "net.ipv6.conf.all.forwarding=I" >> /etc/sysctl.conf

Answer: BC

NEW QUESTION 119
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 120
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-vm: 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      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 121
A systems administrator is receiving tickets from users who cannot reach the application app that should be listening on port 9443/tcp on a Linux server.
To troubleshoot the issue, the systems administrator runs netstat and receives the following output:

```
# netstat -anp | grep appd | grep -w LISTEN
tcp 0 0 127.0.0.1:9443 0.0.0.0:* LISTEN 1234/appd
```

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

A. The IP address 0.0.0.0 is not valid.
B. The application is listening on the loopback interface.
C. The application is listening on port 1234.
D. The application is not running.

Answer: B

Explanation:
The server is in a "Listen" state on port 9943 using its loopback address. The "1234" is a process-id

NEW QUESTION 123
A systems administrator is tasked with creating a cloud-based server with a public IP address.

```
---
-name: start an instance with a public IP address
  community.abc.ec2_instance:
      name: "public-compute-instance"
      key_name: "comptia-ssh-key"
      vpc_subnet_id: subnet-5cjssh1
      instance_type: instance.type
      security_group: comptia
      network:
          assign_public_ip: true
      image_id: ami-1234568
      tags:
          Environment: Comptia-Items-Writing-Workshop
...
```

Which of the following technologies did the systems administrator use to complete this task?

A. Puppet
B. Git
C. Ansible
D. Terraform

Answer: D

NEW QUESTION 124
A Linux administrator rebooted a server. Users then reported some of their files were missing. After doing some troubleshooting, the administrator found one of the filesystems was missing. The filesystem was not listed in /etc/f stab and might have been mounted manually by someone prior to reboot. Which of the following would prevent this issue from reoccurring in the future?

A. Sync the mount units.
B. Mount the filesystem manually.
C. Create a mount unit and enable it to be started at boot.
D. Remount all the missing filesystems

Answer: C

NEW QUESTION 129
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 130
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 133
A Linux administrator is troubleshooting SSH connection issues from one of the workstations.
When users attempt to log in from the workstation to a server with the IP address 104.21.75.76, they receive the following message:

```
ssh: connect to host 104.21.75.76 port 22: Connection refused
```

The administrator reviews the information below:

Workstation output 1:

```
eth0: <BROADCAST,MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mq state UP group default
link/ether 00:15:5d:e9:e9:fb brd 5.189.153.255 scope global eth0
inet 5.189.153.89/24 brd 5.189.153.255 scope global eth0
```

Workstation output 2:

```
default via 5.189.153.1 dev eth0
5.189.153.0/24 dev eth0 proto kertnel scope link src 5.189.153.89
```

Server output 1:

target	prot	opt	source	destination	
REJECT	tcp	--	101.68.78.194	0.0.0.0/0	tcp dpt:22 ctstate NEW, UNTRACKED reject-with icmp-port-unreachable
REJECT	tcp	--	222.186.180.130	0.0.0.0/0	tcp dpt:22 ctstate NEW, UNTRACKED reject-with icmp-port-unreachable
REJECT	tcp	--	104.131.1.39	0.0.0.0/0	tcp dpt:22 ctstate NEW, UNTRACKED reject-with icmp-port-unreachable
REJECT	tcp	--	68.183.196.11	0.0.0.0/0	tcp dpt:22 ctstate NEW, UNTRACKED reject-with icmp-port-unreachable
REJECT	tcp	--	5.189.153.89	0.0.0.0/0	tcp dpt:22 ctstate NEW, UNTRACKED reject-with icmp-port-unreachable
REJECT	tcp	--	41.93.32.148	0.0.0.0/0	tcp dpt:22 ctstate NEW, UNTRACKED reject-with icmp-port-unreachable

Server output 2:

```
sshd. service - OpenSSH server daemon
   Loaded: loaded (/usr/lib/systemd/system/sshd.service: disabled: vendor preset: enabled)
   Active: active (running) since Thu 2021-08-26 18:50:19 CEST; 2 weeks 5 days ago
```

Server output 3:

```
eth0: <BROADCAST, MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mg state UP group default
link/ether 52:52:00:2a:bb:98 brd 104.21.75.255 scope global eth0
inet 104.21.75.76/24 brd 104.21.75.255 scope global eth0
```

Server output 4:

```
default via 104.21.75.254 dev eth0
104.21.75.0/24 dev eth0 proto kertnel scope link src 104.21.75.76
```

Which of the following is causing the connectivity issue?

A. The workstation has the wrong IP settings.
B. The sshd service is disabled.
C. The server's firewall is preventing connections from being made.
D. The server has an incorrect default gateway configuration.

Answer: B

NEW QUESTION 135
A Linux administrator is providing a new Nginx image from the registry to local cache. Which of the following commands would allow this to happen?

A. docker pull nginx
B. docker attach nginx
C. docker commit nginx
D. docker import nginx

Answer: A

NEW QUESTION 139

A cloud engineer needs to remove all dangling images and delete all the images that do not have an associated container. Which of the following commands will help to accomplish this task?

A. docker images prune -a
B. docker push images -a
C. docker rmi -a images
D. docker images rmi --all

Answer: A

NEW QUESTION 142
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 145
A cloud engineer needs to check the link status of a network interface named eth1 in a Linux server. Which of the following commands can help to achieve the goal?

A. ifconfig hw eth1
B. netstat -r eth1
C. ss -ti eth1
D. ip link show eth1

Answer: D

NEW QUESTION 150
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 153
A Linux administrator needs to create a new user named user02. However, user02 must be in a different home directory, which is under /comptia/projects. Which of the following commands will accomplish this task?

A. useradd -d /comptia/projects user02
B. useradd -m /comptia/projects user02
C. useradd -b /comptia/projects user02
D. useradd -s /comptia/projects user02

Answer: A

NEW QUESTION 156
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 159
After installing some RPM packages, a systems administrator discovers the last package that was installed was not needed. Which of the following commands can be used to remove the package?

A. dnf remove packagename
B. apt-get remove packagename
C. rpm -i packagename
D. apt remove packagename

Answer: A

NEW QUESTION 164
In which of the following filesystems are system logs commonly stored?

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

Answer: A

NEW QUESTION 165
A Linux administrator needs to obtain a list of all volumes that are part of a volume group. Which of the following commands should the administrator use to accomplish this task?

A. vgs
B. lvs
C. fdisk -1
D. pvs

Answer: D

NEW QUESTION 168
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
"$6"	pgrep	repeat
/tmp/tempfile	locate	filename
rar	then	"log.[1-6]$"
in	done	/var/log
for	xz	"$1"
sed	gzip	"$log.[1-6]$"
while		

```bash
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep   ( ? )   > /tmp/tempfile

( ? )  filename  ( ? )  $(cat  ( ? )  )

do

( ? )  $filename

( ? )
```

A. Mastered
B. Not Mastered

Answer: A

Explanation:

Snippets

tar	until	zip
egrep	awk	$log
"$6"	pgrep	repeat
/tmp/tempfile	locate	filename
rar	then	"log.[1-6]$"
in	done	/var/log
for	xz	"$1"
sed	gzip	"$log.[1-6]$"
while		

```bash
#!/bin/bash

#name: script.sh

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

for  filename  in  $(cat  /tmp/tempfile  )

do

gzip  $filename

done
```

NEW QUESTION 169
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 172

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 -1 | 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 173

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 175

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 178

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 180

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 182

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 185
A systems administrator needs to verify whether the built container has the app.go file in its root directory. Which of the following can the administrator use to verify the root directory has this file?

A. docker image inspect
B. docker container inspect
C. docker exec <container_name> ls
D. docker ps <container_name>

Answer: B

NEW QUESTION 188
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 193
Users report that connections to a MariaDB service are being closed unexpectedly. A systems administrator troubleshoots the issue and finds the following message in /var/log/messages:

```
dbserver kernel: out of Memory: Killed process 1234 (mysqld).
```

Which of the following is causing the connection issue?

A. The process mysqld is using too many semaphores.
B. The server is running out of file descriptors.
C. Something is starving the server resources.
D. The amount of RAM allocated to the server is too high.

Answer: D

NEW QUESTION 198
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 200
A systems administrator is deploying three identical, cloud-based servers. The administrator is using the following code to complete the task:

```
resource "abc_instance" "ec2_instance" {

    ami                        = data.abc_ami.vendor-Linux-2.id
    associate_public_ip_address = true
    count                      = 3
    instance_type              = "instance_type"
    vpc_security_group_ids     = [abc.security_group.allow_ssh.
                                 id]
    key_name                   = abc_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 204
Employees in the finance department are having trouble accessing the file /opt/work/file. All IT employees can read and write the file. Systems administrator reviews the following output:

```
admin@server:/opt/work$ ls -al file
-rw-rw----+ 1 root it 4 Sep 5 17:29 file
```

Which of the following commands would permanently fix the access issue while limiting access to IT and finance department employees?

A. chattr +i file
B. chown it:finance file
C. chmod 666 file
D. setfacl -m g:finance:rw file

Answer: D

NEW QUESTION 207
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 209
Which of the following technologies provides load balancing, encryption, and observability in containerized environments?

A. Virtual private network
B. Sidecar pod
C. Overlay network
D. Service mesh

Answer: D

Explanation:
"A service mesh controls the delivery of service requests in an application. Common features provided by a service mesh include service discovery, load balancing, encryption and failure recovery."
https://www.techtarget.com/searchitoperations/definition/service-mesh

NEW QUESTION 210
Users have been unable to save documents to /home/tmp/temp and have been receiving the following error: Path not found
A junior technician checks the locations and sees that /home/tmp/tempa was accidentally created instead of /home/tmp/temp. Which of the following commands should the technician use to fix this issue?

A. cp /home/tmp/tempa /home/tmp/temp
B. mv /home/tmp/tempa /home/tmp/temp
C. cd /temp/tmp/tempa
D. ls /home/tmp/tempa

Answer: B

NEW QUESTION 211
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 216
The security team has identified a web service that is running with elevated privileges A Linux administrator is working to change the systemd service file to meet security compliance standards. Given the following output:

```
[Unit]
Description=CompTIA server daemon
Documentation=man:webserver(8) man:webserver_config(5)
After=network.target

[Service]
Type=notify
EnvironmentFile=/etc/webserver/config
ExecStart=/usr/sbin/webserver -D $OPTIONS
ExecReload=/bin/kill -HUP $MAINPID
KillMode=process
Restart=on-failure
RestartSec=42s

[Install]
WantedBy=multi-user.target
```

Which of the following remediation steps will prevent the web service from running as a privileged user?

A. Removing the ExecStartWusr/sbin/webserver -D SOPTIONS from the service file
B. Updating the Environment File line in the [Service] section to/home/webservice/config
C. Adding the User-webservice to the [Service] section of the service file
D. Changing the:nulti-user.target in the [Install] section to basic.target

Answer: A

NEW QUESTION 217
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. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

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

B. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

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

C. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

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

D. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

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

Answer: A

NEW QUESTION 219
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 220
A systems administrator was tasked with assigning the temporary IP address/netmask 192.168.168.1/255.255.255.255 to the interface eth0 of a Linux server.
When adding the address, the following error appears:
ip address add 192.168.168.1/33 dev eth0
Error: any valid prefix is expected rather than "192.168.168.1/33".
Based on the command and its output above, which of the following is the cause of the issue?

A. The CIDR value /33 should be /32 instead.
B. There is no route to 192.168.168.1/33.
C. The interface eth0 does not exist.
D. The IP address 192.168.168.1 is already in use.

Answer: C

NEW QUESTION 225
......

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