

➤ **Vendor: CompTIA**

➤ **Exam Code: XK0-004**

➤ **Exam Name: CompTIA Linux+ Certification Exam**

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QUESTION 334

An administrator wants to use a Linux server's GUI remotely but is limited by security to using TCP port 22. Which of the following is the BEST choice for installation on the Linux server to enable this functionality?

- A. X-forwarding
- B. NX
- C. VNC
- D. XRDP

Answer: C

QUESTION 335

A technician recently installed Linux on a desktop computer.

The desktop has two graphics cards from two different vendors. One of the graphics cards works, but the other does not.

Which of the following commands should the technician use to start troubleshooting this issue?

- A. lsmod
- B. vmstat
- C. gdm
- D. startx

Answer: A

QUESTION 336

A system administrator needs to run a job called payments_Reconciliation on the last day of the month at the end of the day.

Which of the following lines in crontab should be inserted to complete job?

- A.

55	22	30	4,6,9,11	*	payments_reconciliation.sh
55	23	31	1,3,5,7,8,10,12	*	payments_reconciliation.sh
55	23	28	2	*	payments_reconciliation.sh
- B.

23	55	30	4,6,9,11	*	payments_reconciliation.sh
22	55	31	1,3,5,7,8,10,12	*	payments_reconciliation.sh
23	55	28	2	*	payments_reconciliation.sh
- C.

0	0	30	4,6,9,11	*	payments_reconciliation.sh
0	0	31	1,3,5,7,8,10,12	*	payments_reconciliation.sh
0	0	28	2	*	payments_reconciliation.sh

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D. 23 55 30 4,6,9,11 * payments_reconciliation.sh
 23 55 31 1,3,5,7,8,10,12 * payments_reconciliation.sh
 23 55 28 2 * payments_reconciliation.sh

Answer: B

QUESTION 337

A Linux administrator wants to include a standard, hash_profile file whenever a new local user is created on Linux server.

Which of the following is the BEST location to place the file?

- A. /User/local/
- B. /etc/skel/
- C. /etc/profile.d/
- D. /Home/default_user/

Answer: A

QUESTION 338

Which of the following files would a junior systems administrator check to verify DNS server settings?

- A. /etc/network
- B. /etc/rsolveconf
- C. /etc/nsswitch.conf
- D. /etc/hosts

Answer: B

QUESTION 339

Which of the following directories will help an administrator identify the specifications of a Linux server in term of resources?

- A. /sys
- B. /Proc
- C. /Var
- D. /usr

Answer: B

QUESTION 340

The following error is encountered when running a script:

```
bash: ./script.sh: /usr/bin/bash: bad interpreter: No such file or directory
```

Which of the following is the cause of this error?

- A. Script.sh was not added to the PATH
- B. The \$! line is incorrect
- C. Script.sh is missing the executable bit.
- D. The file script. sh does not exist.
- E. Bash is not installed on the system

Answer: D

QUESTION 341

Which of the following commands should a Linux administrator use to open the firewall to allow incoming database

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connections?

- A. `firewall-cmd --permanent --zone=default --add-port=5432/tcp`
`firewall-cmd --reload`
- B. `firewall-cmd --permanent --zone=default --add-service=5432/tcp`
`firewall-cmd --reload`
- C. `firewall-cmd --permanent --zone=default --add-destination=5432/tcp`
`firewall-cmd --reload`
- D. `firewall-cmd --permanent --zone=default --add-source=5432/tcp`
`firewall-cmd --reload`

Answer: C

QUESTION 342

Which of the following directories contains information related to various runtime processes, such as hardware and system memory?

- A. /usr/bin
- B. /opt
- C. /proc
- D. /etc/local/

Answer: A

QUESTION 343

A system administrator is setting up a cron job that will copy thousands of files from a remote directory on a scheduled basis. The file contents should retain their original permissions, including and group ownership, and the cron job should run for the least amount of time possible.

Which of the following is the BEST program to use in this situation?

- A. Rsync
- B. Curl
- C. Scp
- D. Wget
- E. sftp

Answer: A

QUESTION 344

A Linux administrator has configured a local named caching server to reduce the amount of time to resolve common DNS addresses. The server resolves using the external server, however; the administrator wants to avoid this configuration. The administrator verifies the named.conf settings to confirm the following relevant settings:

The administrator then runs `dig` twice to look up an external address and receives the following relevant output the second time.

```
#dig google.com
...
;Querytime:
SERVER: 8.8.8.8
```

Which of the following should the administrator do to correct the configuration?

- A. Modify `/etc/resolv.conf` and set `nameserver` to `127.0.0.1`
- B. Add `127.0.0.1` to the `forwards` in the `named.conf` file.
- C. Alias the `dig` commands to use `nslookup` instead.
- D. Configure the `name service` in `system` to be masked

Answer: C

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QUESTION 345

An administrator is adding an existing user named `buddy` to the Apache group. Which of the following should the administrator perform to accomplish this task?

- A. sseradd -g apache buddy
- B. ssermod -g apche buddy
- C. sudo useradd -g apache buddy
- D. sudo usermod -g apachebuddy

Answer: B

QUESTION 346

An administrator clones a Git repository onto a local laptop. While inspecting the code, the administrator notices a bug and wants to fix it.

Which of the following is the BEST command for the administrator to use to test a patch for the prior to updating the version saved in master?

- A. Init
- B. Branch
- C. Stash
- D. Comit
- E. merge

Answer: A

QUESTION 347

A Linux administrator is investigating an issue with an internal Linux server that is unable to resolve the following internal addresses:

```
fileshare.example.internal    192.168.10.100
dns1.example.internal        192.168.10.4
```

The administrator runs the following commands as part of troubleshooting:

```
# cat /etc/resolv.conf
nameserver 8.8.8.8

# nslookup fileshare.example.internal
Server: 8.8.8.8
Address: 8.8.8.8#53

** server can't find fileshare.example.internal: NXDOMAIN

# nslookup fileshare.example.internal 192.168.10.4
Server: 192.168.10.4
Address: 192.168.10.4#53

Name: fileshare.example.internal
Address: 192.168.10.100
```

Which of the following is MOST likely resolve the issue?

- A. Allow outbound DNS traffic to the internal DNS server.
- B. Add a public DNS for fileshare, example, internal.
- C. Install a caching DNS server on the local workstation.
- D. Update resolve, conf to use the internal DNS server.

Answer: A

QUESTION 348

A system administrator needs to bootstrap a series of Ubuntu images for a public provider. The administrator must

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ensure at the images contain the exact same updates, custom. Configure files after their first and then automatically. Which of the following tools the administrator user?

- A. Ansible
- B. Docker
- C. Cloud-init
- D. Anaconda

Answer: B

QUESTION 349

Which of the following commands will result in the HOGEST compression level when using gzip to compress a file name file, txt?

- A. Gzip -9 file. text
- B. Gzip -100-file. Text
Crip -high file.txt
- C. Gzip -5 file.txt
- D. Gzip -fast file. text

Answer: A

QUESTION 350

A system administrator recently installed and configure a web proxy server with the IP address 192.68 address. What is the should be implemented on then proxy server to ensure traffic is processes.

- A. `iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 8080`
- B. `iptables -A INPUT -p tcp -s 0.0.0.0/0 -d 192.168.10.5 --sport 80 --dport 8080 -j PERMIT`
- C. `iptables -A OUTPUT -p tcp -d 0.0.0.0/0 -s 192.168.10.5 --sport 8080 --dport 80 -j PERMIT`
- D. `iptables -t nat -A POSTROUTING -p tcp -s !192.168.10.5 --dport 8080 -j REDIRECT --to-port 80`

Answer: A

QUESTION 351

Which of the following is considered best practices when using definition files for the provisioning of Linus servers to the cloud?

- A. Build automation
- B. Container orchestration
- C. Infrastructure as code
- D. Continuous integration

Answer: B

QUESTION 352

A Linux administrator is testing a configuration script and wants to change the hostname of a workstation temporarily, but it must return to its assigned workstation name after reboot.

Which of the following is the BEST command for the administrator to use?

- A. `Hostnamectl set-hostname -transient tempname`
- B. `Hostnamectl -H localhost tempname`
- C. `Hostnamectl set-hostname tempname`

D. Hostnamectl set-hostname -static tempname

Answer: A

QUESTION 353

A Linux administrator opens a connection to a jump server to access the internal database servers. The desktop's IP is 10.11.123, and the jump server's IP address is 10.2.3.11. When the session is idle for a certain amount of time, the connection is interrupted by the firewall.

Which of the is the BEST way to avoid this issue?

- A.

```
systemctl reload openssh_server  
systemctl daemon-reload
```
- B.

```
ping -i 10 10.2.3.11 &  
watch 5 jobs
```
- C.

```
echo "Host *" >> ~/.ssh/config  
echo "ServerAliveInterval 60" >> ~/.ssh/config
```
- D.

```
firewall-cmd --zone=internal --add-service=sshd --permanent  
systemctl restart firewalld
```

Answer: A

QUESTION 354

A network administrator installed a web server on a Linux host and added a firewalld command to open port tcp/80. The web server worked without error until an updated and patch kernel was installed on the system a month later. Now users are unable to access the web server even though the service is running, which of the following would fix the issue?

- A. Use the firewalld command to open the HTTP application service rather than the port.
- B. Change the firewalld zone to private and open port tcp/80.
- C. Issue an additional firewalld command to open up port tcp/443 as well as port tcp/80.
- D. Use the firewalld command to open tcp/80 both with and without the -permanent switch.

Answer: D

QUESTION 355

Ann, a Linux administrator, is storing scripts in a private Git repository.

Which of the following commands should Ann use to avoid entering the login and password every time Ann commits change?

- A. `git init shared=true`
- B. `echo authentication >> .git/config`
- C. `git credential approve`
- D. `git config credential.helper cache`

Answer: B

QUESTION 356

An administrator is configuring a new Linux server and wants to boot the system to a file that was previously downloaded to locally install removable media. Which of the following boot options should the administrator choose?

- A. PXE
- B. ISO
- C. NFS
- D. HTTP

Answer: B

QUESTION 357

A lab virtual image is always named pc21.local and in variety of testing situation. The administrator wants to use the IP address pc21.local in a script but is concerned it may change from day to day, as the image is rebuilt fairly often. Which of the following should the administrator add to a script to ensure the IP address is always accurate?

- A. MYIP=\$(dig pc21.local +short)
- B. MYIP=\$(dig pc21.local +norecurse +nocomments)
- C. MYIP=\$(dig pc21.local + answer + mostatus)
- D. MYIP=\$(dig pc21.local +authority)

Answer: B

QUESTION 358

A Linux server hosts Kerberos and LDAP, which of the following is the MOST likely role of this server?

- A. Certificate authority
- B. Clustering
- C. Database
- D. Authentication

Answer: D

QUESTION 359

A technician reviews the following output:

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sda1	*	2048	121634815	121632768	58G	83	Linux
/dev/sda2		121636862	125827071	4190210	2G	5	Extended
/dev/sda5		121636864	125827071	4190208	2G	82	Linux swap / Solaris

	total	used	free	shared	buff/cache	available
Mem:	2052060	1545312	86676	33508	440072	305308
Swap:	0	0	0			

Which of the following commands should the technical execute to ensure the system has the appropriate paging? (Select TWO.)

- A. dd if=/dev/sda5 of=/tmp bs=512
- B. swapon /dev/sda5
- C. Mkswap/dev/sda5
- D. Mkfs,ext3 /dev/sda5
- E. Lostat/dev/sda 5
- F. Free 璦/dev/sda

Answer: BC

QUESTION 360

Users are receiving permission-denied messages when trying to access a spreadsheet file within the company's filesystem.

A Linux administrator receives a ticket and begin to investigate the following output:

COMMAND	PID	USER	FD	TYPE	DEVICE	SIZE	NODE NAME
init	1	root	cwd	DIR	303,1	4096	/sbin/init
init	1	root	txt	DIR	303,1	12828	/home/ABC-1-15.txt
init	1	root	txt	REG	303,1	150360	/home/ABC-2-17.txt

Which of the following command would produce the presented output?

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- A. Top
- B. nice
- C. grep
- D. isof

Answer: D

QUESTION 361

A Linux administrator needs to run a few virtual machines and containers on the physical machines with a single network interface.

Which of the following networking would allow the administrator to connect with the outside world?

- A. Bridging
- B. VLAN
- C. Bonding/teaming
- D. VPN

Answer: A

QUESTION 362

An administrator is logged on as an unprivileged user and needs to compile and installed an application from source.

Which of the following BEST represents how to complete this task?

- A. `cd <source>; sudo ./configure $$ make $$ make install`
- B. `cd <source>; ./configure $$ sudo make $$ make install`
- C. `cd <source>; ./configure $$ make $$ make install`
- D. `cd <source>; ./configure $$ make $$ make install`

Answer: A

QUESTION 363

A system administrator is investigating why user3 cannot log in using SSH to one of the servers.

An attempt to log in results in the following:

```
# ssh user3@server
Password:
Last failed login: Mon Feb 22 06:07:41 CST 2021 from 192.168.12.13 on ssh:notty
/bin/rssh: Permission denied
Connection to server closed.
```

Which of the following commands should the systems administrator execute to allow user3 log in to the server?

- A. `Restorecon /bin/rssh`
- B. `Passwd -u user3`
- C. `Usermod -s /bin/sh user3`
- D. `Setfac1/ bin/rssh`

Answer: A

QUESTION 364

An administrator wants to be able to access a remote server. After creating an SSH key pair, which of the following describes where the public key should be placed to allow for key-based authentication?

- A. `./, ssh/authorized_keys`
- B. `./ssh/id_ras.pub`
- C. `./ssh/known_hosts`

D. `-.ssh/config`

Answer: A

QUESTION 365

Joe, a system administrator, realizes that the time zone on a system is different than his local time zone. Joe runs the command `export Tz=America.Chicago` to resolve this. However the next Joe logs in, Joe notices the issue has returned.

Which of the following is the BEST way for Joe to fix this issue so the solution persists across logins?

- A. Run the `export Tz=/etc/localtime` command
- B. Set the correct the zone with the `date` command.
- C. Add the `export Tz=America/Chicago` command to the `bash_profile` file.
- D. Run the `export LC ALL=America/Chicago` command

Answer: C

QUESTION 366

An administrator is examining the public Git repository for a newly synchronized program.

```
Dockerfile      initial commit 1 hour ago
LICENSE.md      initial commit 1 hour ago
README.md       initial commit 1 hour ago
install.sh      initial commit 1 hour ago
id_rsa          initial commit 1 hour ago
INSTALL.md      initial commit 1 hour ago
```

The administrator notices the repository has a file in it that does not belong in the public repository. The administrator locally creates a file that will exclude `id_rsa` in the public repository. Which of the following part of commands should the administrator run to correct this issue?

- A.

```
git rm --cached id_rsa && \
git add . && git commit -am "initial update"
```
- B.

```
git checkout id_rsa && git merge .gitignore && \
git push origin .gitignore
```
- C.

```
git commit -m ".gitignore" && \
git push origin .gitignore
```
- D.

```
git push origin .gitignore && \
git pull id_rsa
```

Answer: A

QUESTION 367

A Linux administrator issues the following command with root or sudo privileges:

```
Rmp -l installpackage.rpm -nodeps
```

Which of the following should the administrator expect to see in the output?

- A. The `installpackage.rpm` package will not fail due to checks for dependencies.
- B. The `installpackage.rpm` package will not fail due to missing dependencies
- C. The `installpackage.rpm` package will not be installed, and there will be dependencies
- D. The `installpackage.rpm` package will not be installed, and there not be check for dependencies

Answer: A

QUESTION 368

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A Linux administrator execute the following steps in this order:

1. Changes some software code
2. Commits the changes to the Git repository
3. Triggers a job to compile
4. Execute some test scripts
5. Packages the software package
6. Publishes the software packages to a package repository

Which of the following orchestration processes is the administrator using?

- A. Build automation
- B. Deployment automation
- C. Test automation
- D. Infrastructure automation

Answer: C

QUESTION 369

A system administrator is troubleshooting a web server that runs in a container. After the log is retained, the container occasionally stops logging to a log file. Fortunately, the vendor provides a custom signal that allows the application to reconnect to the log file.

Which of the following would be BEST for the administrator to run the containers?

- A. Kill -HUP 1
- B. Kill -USR 1
- C. Kill -TEAM 1
- D. Kill -Kill 1

Answer: A

QUESTION 370

A junior administrator issues the following commands on a Linux server:

```
umask 222  
touch /home/junior_admin/tasklist
```

The next day, the junior administrator is unable to edit the file. Which of the following would resolve this issue?

- A. Chmod 666 /home/junior_admin/tasklist
- B. Chmod \$+x /home/junior_admin/tasklist
- C. Chmod g+s /home/junior_admin/tasklist
- D. Chmod o+rw /home/junior_admin/tasklist

Answer: A

QUESTION 371

An administrator wants to add a user named comptia to the system administrators group. Which of the following commands will accomplish this task?

- A. Usermod -sG wheel comptia
- B. Useradd -sG wheel comptia
- C. visudo -sG wheel comptia
- D. sudo -sG wheel comptia

Answer: B

QUESTION 372

Which of the following commands should a system administrator use to configure a passwordless login to remote

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system? (Select TWO.)

- A. Cp
- B. Ssh-agent
- C. Ssh-copy-id
- D. Ssh-keygen
- E. Ssh-add
- F. openssl

Answer: BC

QUESTION 373

A new packages repository named repo10 has been installed on mirror site. A Linux administrator wants to use this new repository for local package installations. In which of the following locations should the administrator store the configuration information for the repo10 repository?

- A. /etc/yum.repos.d/repo10.Repo
- B. /etc/yum_repo.d/repo10
- C. /etc/yum.reps.d/repo10
- D. /etc/yum.conf

Answer: A