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QUESTION 1

A Linux administrator has downloaded and installed the httpd package.

Which of the following commands will start the service immediately and allow the service to start on system boot?

- A. `systemctl start httpd;chkconfig httpd on`
- B. `systemctl status httpd;chkconfig httpd on`
- C. `systemctl.start httpd;chkconfig httpd on`
- D. `systemctl start httpd;chkconfig httpd on 6`

Correct Answer: A

QUESTION 2

While creating a file on a volume, the Linux administrator receives the following message: No space left on device. Running the `df -m` command, the administrator notes there is still 50% of usage left. Which of the following is the NEXT step the administrator should take to analyze the issue without losing data?

- A. Run the `df -i` command and notice the inode exhaustion
- B. Run the `df -h` command and notice the space exhaustion
- C. Run the `df -B` command and notice the block size
- D. Run the `df -k` command and notice the storage exhaustion

Correct Answer: A

Reference: <https://www.tecmint.com/how-to-check-disk-space-in-linux/>

QUESTION 3

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

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

Correct Answer: A

QUESTION 4

A Linux administrator's account has the following privileges:

```
User admin may run the following commands on localhost:  
(root) NOEXEC: NOPASWD: /usr/bin/ps, usr/bin/chmod, usr/bin/yum, usr/bin/cat, usr/sbin/lvm, usr/sbin/pvs
```

The administrator tried to install the vim package and received the following output:

```
[admin@localhost ~]$ sudo yum install vim  
updates | 3.4 kB 00:00:00  
Traceback (most recent call last):  
File "/usr/bin/yum", line 29, in <module>  
yummain.user_main(sys.argv[1:], exit_code=True)  
misc.return_keyids_from_pubring(destdir):  
File "/usr/lib/python2.7/site-packages/yum/misc.py", line 599, in return_keyids_from_pubring  
for k in ctx.keylist():  
gpgme.GpgmeError: (7, 150, u'Invalid crypto engine')
```

Which of the following is the BEST solution to resolve this issue?

- A. Install the python2 package as root on the operating system
- B. Execute `sed -i "s/NOEXEC/EXEC/g" /etc/sudoers.d/admin` as root
- C. Execute `groupmod -a -G wheel admin` as root
- D. Execute `sudo chmod 755 /usr/bin/yum`

Correct Answer: B

QUESTION 5

A Linux administrator must identify a user with high disk usage. The administrator runs the `# du -s / home/*` command and gets the following output:

```
43      /home/User1  
2701    /home/User2  
133089  /home/User3  
3611    /home/User4
```

Based on the output, User3 has the largest amount of disk space used. To clean up the file space, the administrator needs to find out more information about the specific files that are using the most disk space.

Which of the following commands will accomplish this task?

- A. `df -k /home/User3/files.txt`
- B. `du -a /home/User3/*`
- C. `du -sh /home/User/`
- D. `find . -name /home/User3 -print`

Correct Answer: C

Reference: <https://unix.stackexchange.com/questions/37221/finding-files-that-use-the-most-disk-space>

QUESTION 6

An administrator is trying to access a server in a cloud via SSH but is unable to log in. The administrator determines the company's IP address has been blocklisted on the server. Which of the following should the administrator do to prevent being blocked in the future?

- A. Add the company's TLS certificate to the `authorized_keys` and `known_hosts` files.
- B. Modify the cloud provider security rules to allow all connectors from the company's IP address.
- C. Add the company's IP address from the `/etc/hosts.allow`.
- D. Turn on SELinux and enable the SSH context.

Correct Answer: C

QUESTION 7

A junior Linux administrator needs to ensure a service will start on system boot. Which of the following commands should be used to accomplish this task?

- A. `chkconfig on`
- B. `systemctl bootup`
- C. `service enable`
- D. `crontab install`

Correct Answer: A

Reference: <https://geekflare.com/how-to-auto-start-services-on-boot-in-linux/>

QUESTION 8

A systems administrator wants to verify the DNS information of a system that is in production. Which of the following will provide this information?

- A. `nmap -R 10.10.20.21 10.10.1.10`
- B. `whois -r -h 10.10.1.10 10.10.20.21`
- C. `dig -x 10.10.20.21 @10.10.1.10`
- D. `route 10.10.20.21 gw 10.10.1.10`

Correct Answer: C

QUESTION 9

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_rsa.pub`
- C. `~/ssh/known_hosts`
- D. `~/ssh/config`

Correct Answer: A

Reference: <https://www.digitalocean.com/community/tutorials/how-to-configure-ssh-key-based-authentication-on-a-linux-server>

QUESTION 10

A Linux administrator is testing a new web application on a local laptop and consistently shows the following 403 errors in the laptop's logs:

```
type=AVC msg=audit(126552035:37232):avc:denied {read} for pid=24941 com=nginx nme="/home/user1" /dev/sda1 ino=2 scontext=unconfined_u:system_r:httpd_t:s0 tcontext=system_u:object_r:httpd_sys_content:s0
```

The web server starts properly, but an error is generated in the audit log. Which of the following settings should be enabled to prevent this audit message?

- A. `httpd_can_network_connect = 1`
- B. `httpd_enable_scripting = 1`
- C. `httpd_enable_homedirs = 1`
- D. `httpd_enable_cgi = 1`

Correct Answer: A

QUESTION 11

An administrator needs to create a shared directory in which all users are able to read, write, and execute its content but none of the regular users are able to delete any content. Which of the following permissions should be applied to this shared directory?

- A. rwxrwxrwt
- B. rwxrwxrws
- C. rwxrwxrwx
- D. rwxrwxrw*

Correct Answer: A

QUESTION 12

Which of the following BEST describes build automation?

- A. Automating the creation of software and related processes
- B. Automatically categorizing servers in the infrastructure
- C. Managing and provisioning servers via automatic templates
- D. Bringing systems in line with the desired automated configuration

Correct Answer: A

Reference: https://en.wikipedia.org/wiki/Build_automation

QUESTION 13

A customer reports a Linux production server is randomly suffering degraded performance. The administrator verifies that the sysstat package is installed and enabled on the server. Which of the following would BEST determine what is causing the impact on performance?

- A. Create a cron job that runs uptime every 15 minutes to collect historical data of the load average of the system.
- B. Leave a ping running overnight from a laptop to the server to catch any latency encountered.
- C. Analyze the data in /var/log/sa using the sar command.
- D. Open a screen session and run top inside of it. Let it run over night and collect the data.

Correct Answer: C

QUESTION 14

Which of the following server roles utilize a heartbeat/polling process? (Choose two.)

- A. Proxy
- B. Certificate authority
- C. Logging
- D. File server
- E. Cluster
- F. Load balancer

Correct Answer: EF

QUESTION 15

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

Tasks:

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

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

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

Correct Answer: C