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QUESTION 1

An organization must implement controls that are aligned with its financial requirements; specifically, the organization is looking to implement the following:

1.

Financial transactions that require one reviewer

2.

Audits of funds disbursements

3.

Cross-training of employees

Which of the following controls will address the organization's requirements?

A. Change management

B. Job rotation

C. Least privilege

D. Separation of duties

Correct Answer: D

QUESTION 2

A developer implement the following code snippet.

```
catch (Exception e)
{
    if(log.isDebugEnabled())
    {
        log.debug("Caught InvalidSessionException Exception --"
            + e.toString());
    }
}
```

Which of the following vulnerabilities does the code snippet resolve?

A. SQL inject

B. Buffer overflow

C. Missing session limit

D. Information leakage



Correct Answer: D

QUESTION 3

SIMULATION

As a security administrator, you are asked to harden a server running Red Hat Enterprise Server 5.5 64-bit.

This server is being used as a DNS and time server. It is not used as a database, web server, or print server. There are no wireless connections to the server, and it does not need to print.

The command window will be provided along with root access. You are connected via a secure shell with root access.

You may query help for a list of commands.

Instructions:

You need to disable and turn off unrelated services and processes.

It is possible to simulate a crash of your server session. The simulation can be reset, but the server cannot be rebooted.

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

A. See the explanation below.

B. Placeholder

C. Placeholder

D. Placeholder

Correct Answer: A



Command Prompt Window

```
[root@comptia-test ~]# ps -A

  PID TTY          TIME CMD
    1? 00:00:15 init
    2? 00:00:00 kthreadd
    3? 00:00:00 migration/0
    5? 00:00:00 watchdog/0
    6? 00:00:00 migration/1
    7? 00:00:00 ksoftirqd/1
    8? 00:00:00 watchdog/1
    9? 00:00:00 events/0
   10? 00:00:01 events/1
   15? 00:00:00 kintegrityd/0
   16? 00:00:00 kintegrityd/1
   17? 00:00:00 kblockd/0
   18? 00:00:00 kblockd/1
   19? 00:00:00 kacpid
   20? 00:00:00 kacpi_notify
   21? 00:00:00 ata/0
   22? 00:00:27 ata/1
   33? 00:00:00 crypto/0
   34? 00:00:00 crypto/1
   45? 00:00:00 scsi_ah_0
   46? 00:00:00 scsi_ah_1
   77? 00:00:00 scsi_ah_2
   84? 00:00:35 kjournald2
   95? 00:00:03 kauditd
  937? 00:00:00 kjournald
 1447? 00:00:23 auditd
 1449? 00:00:17 audispd
 1480? 00:00:00 network
 1602? 00:00:00 acpid
 1652? 00:00:00 wpa_supplicant
 1761? 00:00:00 bluetoothd
 1776? 00:00:00 bluetooth
 1802? 00:00:10 ntpd
 2071? 00:00:15 crond
 2077? 00:00:00 mysqld
 2090? 00:00:00 named
 2187? 00:00:00 atd
 3343? 00:00:18 httpd
 3758? 00:00:00 sshd
 3759 pts/0 00:00:00 bash
 3840 pts/0 00:00:00 ps
 5829? 00:00:15 sendmail
 8080? 00:00:00 lpd
 9343? 00:00:18 httpd
 9345? 00:00:00 httpd

[root@comptia-test ~]# kill -9
% Invalid input detected.
[root@comptia-test ~]# kill -9
% Invalid input detected.
[root@comptia-test ~]# kill -9 9343
[root@comptia-test ~]# kill -9 2077
[root@comptia-test ~]# kill -9 9945
% Invalid input detected.
[root@comptia-test ~]# kill -9 9345
[root@comptia-test ~]# kill -9 8080
[root@comptia-test ~]# kill -9 1776
[root@comptia-test ~]# kill -9 1761
[root@comptia-test ~]# kill -9 1652
[root@comptia-test ~]#
```

Command Prompt Window

```
    16? 00:00:00 kintegrityd/1
    17? 00:00:00 kblockd/0
    18? 00:00:00 kblockd/1
    19? 00:00:00 kacpid
    20? 00:00:00 kacpi_notify
    21? 00:00:00 ata/0
    22? 00:00:27 ata/1
    23? 00:00:00 ata_aux
    33? 00:00:00 crypto/0
    34? 00:00:00 crypto/1
    45? 00:00:00 scsi_ah_0
    46? 00:00:00 scsi_ah_1
    77? 00:00:00 scsi_ah_2
    84? 00:00:35 kjournald2
    95? 00:00:03 kauditd
   937? 00:00:00 kjournald
  1447? 00:00:23 auditd
  1449? 00:00:17 audispd
  1480? 00:00:00 network
  1602? 00:00:00 acpid
  1802? 00:00:10 ntpd
  2071? 00:00:15 crond
  2090? 00:00:00 named
  2187? 00:00:00 atd
  3343? 00:00:18 httpd
  3758? 00:00:00 sshd
  3759 pts/0 00:00:00 bash
  3840 pts/0 00:00:00 ps
  5829? 00:00:15 sendmail

[root@comptia-test ~]# kill -9 httpd
% Invalid input detected.
[root@comptia-test ~]# kill -9 9343
[root@comptia-test ~]# chkconfig --level 3 httpd off
[root@comptia-test ~]#
```

**Command Prompt Window**

```
[root@comptia-test ~]# chkconfig --list

atd                3:on
auditd             3:on
avahi-daemon       3:on
bluetooth          3:on
cpuspeed           3:on
crond              3:on
httpd              3:on
ip6tables          3:off
iptables           3:on
irda               3:off
irqbalance         3:on
lm_sensors         3:off
lpd                3:on
microcode_ctl      3:on
multipathd         3:off
mysqld             3:on
named              3:on
netconsole         3:off
netfs              3:on
netplugd           3:off
network            3:on
nfs                3:on
nfslock            3:on
nscd               3:off
ntpd               3:on
ntpddate           3:off
restorecond        3:off
rpcbind            3:on
rpcgssd            3:on
rpcidmapd          3:on
rpcsvcgssd         3:on
rsyslog            3:on
sendmail           3:on
smartd             3:off
snmpd              3:off
snmptrapd          3:off
sshd               3:on
udev-post          3:on
windbind           3:off
wpa_supplicant     3:on
ypbind             3:off

[root@comptia-test ~]# chkconfig --level3 wpa
%Invalid input detected.

[root@comptia-test ~] # chkconfig --level3 wpa_supplicant off
%Invalid input detected.

[root@comptia-test ~] # chkconfig --level 3 wpa_supplicant off
[root@comptia-test ~] # chkconfig --level 3 bluetooth
%Invalid input detected.

[root@comptia-test ~] # chkconfig --level 3 bluetooth off
%Invalid input detected.

[root@comptia-test ~] # chkconfig --level 3 httpd off
[root@comptia-test ~] # chkconfig --level 3 bluetooth off
[root@comptia-test ~] # chkconfig --level 3 lpd off
[root@comptia-test ~] #
```



QUESTION 4

An organization is developing a disaster recovery plan that requires data to be backed up and available at a moment's notice. Which of the following should the organization consider FIRST to address this requirement?

- A. Implement a change management plan to ensure systems are using the appropriate versions.
- B. Hire additional on-call staff to be deployed if an event occurs.
- C. Design an appropriate warm site for business continuity.
- D. Identify critical business processes and determine associated software and hardware requirements.

Correct Answer: D

When developing a plan, the first thing to consider is the business process and their impact on operations. A warm site does not make sense even if it were to be first, as a warm site does not replicate in a manner that provides "moments notice" fail over.

QUESTION 5

A security analyst wants to keep track of all outbound web connections from workstations. The analyst's company uses an on-premises web filtering solution that forwards the outbound traffic to a perimeter firewall. When the security analyst gets the connection events from the firewall, the source IP of the outbound web traffic is the translated IP of the web filtering solution. Considering this scenario involving source NAT. Which of the following would be the BEST option to inject in the HTTP header to include the real source IP from workstations?

- A. X-Forwarded-Proto
- B. X-Forwarded-For
- C. Cache-Control
- D. Strict-Transport-Security
- E. Content-Security-Policy

Correct Answer: B

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