1Z0-821 $^{Q\&As}$

Oracle Solaris 11 System Administration

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QUESTION 1

View the Exhibit and review the zpool and ZFS configuration information from your system.

```
  pool: pool1
 state: ONLINE
  scan: none requested
config:

        NAME            STATE       READ WRITE CKSUM
        pool1           ONLINE        0     0     0
          mirror-0      ONLINE        0     0     0
            c4t0d0      ONLINE        -     -     -
            c4t1d0      ONLINE        -     -     -
          mirror-1      ONLINE        0     0     0
            c4t2d0      ONLINE        -     -     -
            c4t3d0      ONLINE        -     -     -

errors: No known data errors

  pool: rpool
 state: ONLINE
  scan: none requested
config:

        NAME            STATE       READ WRITE CKSUM
        rpool           ONLINE        0     0     0
          c3t0d0s0      ONLINE        0     0     0

errors: No known data errors
NAME                        USED    AVAIL   REFER   MOUNTPOINT
pool1                       138K    7.81G     32K   /pool1
pool1/prod_data              31K    7.81G     31K   /prod_data
rpool                      11.6G    4.04G   34.5K   /rpool
rpool/ROOT                 9.94G    4.04G     31K   legacy
rpool/ROOT/solaris         9.94G    4.04G   9.70G   /
rpool/dump                  630M    4.05G    611M   -
rpool/export               6.07M    4.04G     32K   /export
rpool/export/home          6.04M    4.04G     32K   /export/home
```

Identify the correct procedure for breaking the /prod_data mirror, removing c4t0d0 and c4t2d0, and making the data on c4t0d0and c4t2d0 accessible under the dev_data mount point.

A. zpool split pool1 pool2 c4t0d0 c4t2d0zpool import pool2zfs set mountpoint = /dev_data pool2/ prod_data

B. zpool detach pool1 pool2zpool attach pool2zfs set mountpoint=/dev_data pool2/prod_data

C. zpool split pool1/prod_data -n pool2/dev_datazfs set mountpoint = /dev_data pool2/prod_data

D. zpool split pool1 pool2 c4t0d0 c4t2d0zpool import pool2

Correct Answer: D

In this Solaris release, you can use the zpool split command to split a mirrored storage pool, which

detaches a disk or disks in the original mirrored pool to create another identical pool.

After the split operation, import the new pool.

QUESTION 2

Identify the two security features incorporated in the Oracle Solaris 11 Cryptographic Framework.

A. Layer 5 IP address encryptions

B. Internet protocol security

C. Diffie-Kerberos coaxial key encryption

D. Signed cryptographic plugins (providers)

E. Kernel support for signed antivirus plugins

Correct Answer: DE

The framework enables providers of cryptographic services to have their services used by many consumers in the Oracle Solaris operating system. Another name for providers is plugins. The framework allows three types of plugins:

*

User-level plugins - Shared objects that provide services by using PKCS #11 libraries, such as pkcs11_softtoken.so.1.

*

Kernel-level plugins - Kernel modules that provide implementations of cryptographic algorithms in software, such as AES.

Many of the algorithms in the framework are optimized for x86 with the SSE2 instruction set and for SPARC hardware.

*

Hardware plugins - Device drivers and their associated hardware accelerators. The Niagara chips, the ncp and n2cp device drivers, are one example. A hardware accelerator offloads expensive cryptographic functions from the operating system. The Sun Crypto Accelerator 6000 board is one example.

QUESTION 3

A datalink can best be described as_____.

A. a driver for a Network Interface Card

B. the software connecting the Internet Layer and the Physical Layer

C. a device that provides Classless Inter-Domain Routing

D. a logical object used for IP Multipathing

Correct Answer: D

The command dladm is used to configure data-link interfaces in Sun Solaris. A configured data-link is represented in the system as interface that can be used for TCP/IP. Each data- link relies on either a single network device or an link aggregation device to send and recieve packets.

Network interfaces provide the connection between the system and the network. These interfaces are configured over data links, which in turn correspond to instances of hardware devices in the system.

In the current model of the network stack, interfaces and links on the software layer build on the devices in the hardware layer. More specifically, a hardware device instance in the hardware layer has a corresponding link on the data-link layer and a configured interface on the interface layer. This one-to-one relationship among the network device, its data link, and the IP interface is illustrated in the figure that follows.

Network Stack Showing Network Devices, Links, and Interfaces:
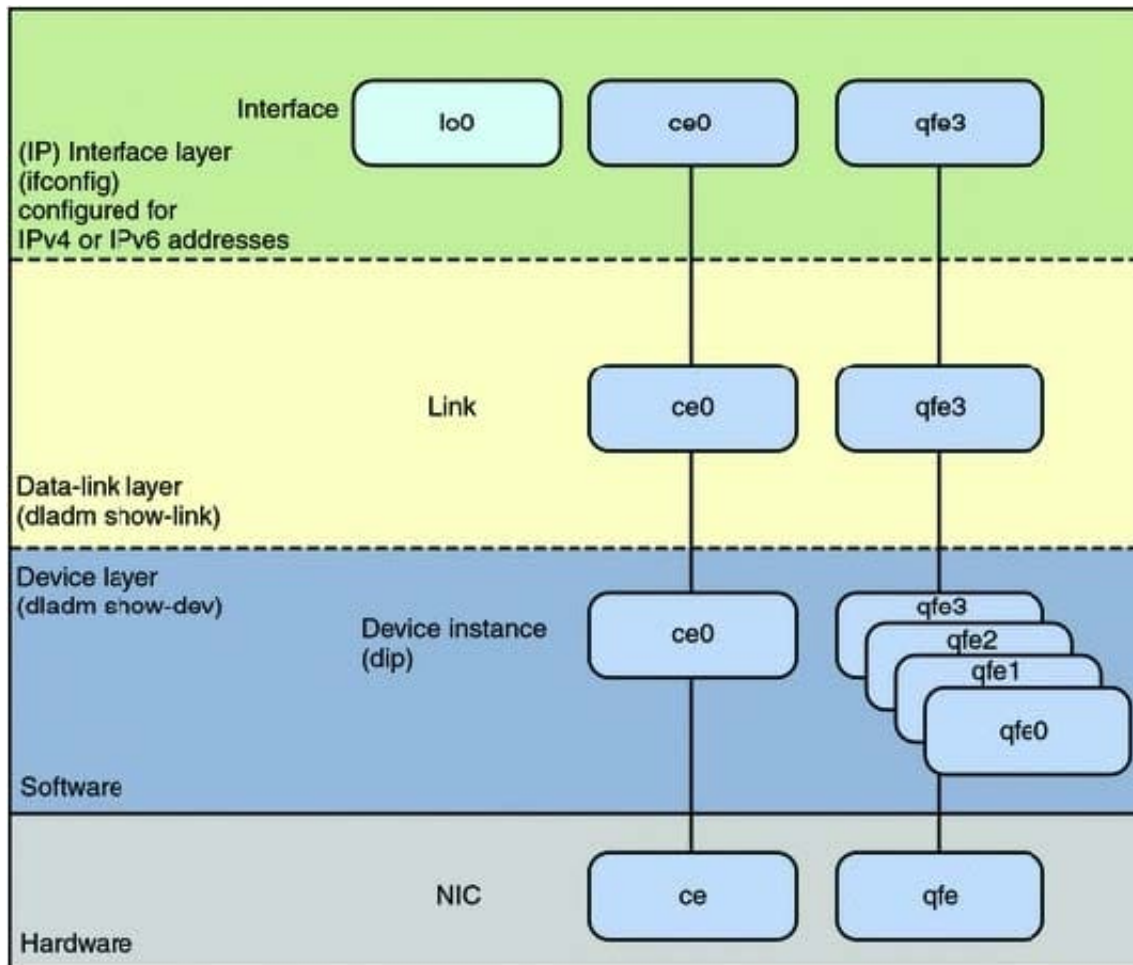
QUESTION 4

The following information is displayed for the svc:/network/ssh service:

```
fmri           svc:/network/ssh:default
name           SSH server
enabled        true
state          offline
next_state     none
state_time     December 31, 2011 07:10:08 AM EST
logfile        /var/svc/log/network-ssh:default.log
restarter      svc:/system/svc/restarter:default
contract_id    321
manifest       /etc/svc/profile/generic.xml
manifest       /lib/svc/manifest/network/ssh.xml
dependency     require_all/none svc:/system/filesystem/local (online)
dependency     optional_all/none svc:/system/filesystem/autofs (online)
dependency     require_all/none svc:/network/loopback (online)
dependency     require_all/none svc:/network/physical:default (online)
dependency     require_all/none svc:/system/cryptosvc (disabled)
dependency     require_all/none svc:/system/utmp (online)
dependency     optional_all/error svc:/network/ipfilter:default (disabled)
dependency     require_all/restart file://localhost/etc/ssh/sshd_config (online)

svc:/network/ssh:default (SSH server)
State: offline since January 31, 2012 09:12:45 AM EST
Reason: Service svc:/system/cryptosvc:default is disabled.
   See:   http://sun.com/msg/SMF-8000-GE
  Path: svc:/network/ssh:default
          svc:/system/cryptosvc:default
   See: man -M /usr/share/man -s 1M sshd
   See: /var/svc/log/network-ssh:default.log
Impact: This service is not running.
```

Which describes the minimum set of commands to be executed to bring the svc: /network/ssh: default service back online?

```
C A) svcadm refresh svc:/network/ssh:default

C B) svcadm restart svc:/network/ssh:default

C C) svcadm enable svc:/system/cryptosvc

C D) svcadm enable svc:/system/cryptosvc
      svcadm enable svc:/network/ipfilter:default
      svcadm enable svc:/network/ssh:default

C E) svcadm enable svc:/system/cryptosvc
      svcadm enable svc:/network/ipfilter:default
      svcadm refresh svc:/network/ssh:default

C F) svcadm restart svc:/system/cryptosvc
      svcadm restart svc:/network/ipfilter:default
      svcadm restart svc:/network/ssh:default

C G) svcadm enable svc:/network/ssh:default
```

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

G. Option G

Correct Answer: C

QUESTION 5

This iron is displayed on the desktop of a laptop computer, which is running Oracle Solaris 11.

Which two statements describe the Information conveyed by this Icon?

A. NWAM is disabled.

B. NWAM is automatically configuring the network.

C. The wireless network card is manually configured and operational.

D. The wireless network card is manually configured but not operational.

E. The wireless network card is automatically configured and operational.

F. The wireless network card is automatically configured but not operational.

Correct Answer: BC

B: The Network Status notification icon is only displayed on the desktop if you are using NWAM to

automatically configure your network.

C: All online (Wireless)

Indicates all manually enabled connections in the enabled network profile are online and that the required

number of connections in the enabled profile group (if such a group exists) are online. The required

number is the same as those described for the All online (Wired) status.

Note that at least one online connection is wireless.

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