# IT-DUMPS Q&A

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**Exam** : **HP0-093**

**Title** : HP-UX High Availability

**Version** : DEMO

**1.Use the information provided in the Cluster Configuration Diagram to answer the following question. Which commands can be used to build a cluster configuration file under /etc/cmcluster called cluster.ascii. Select TWO.**
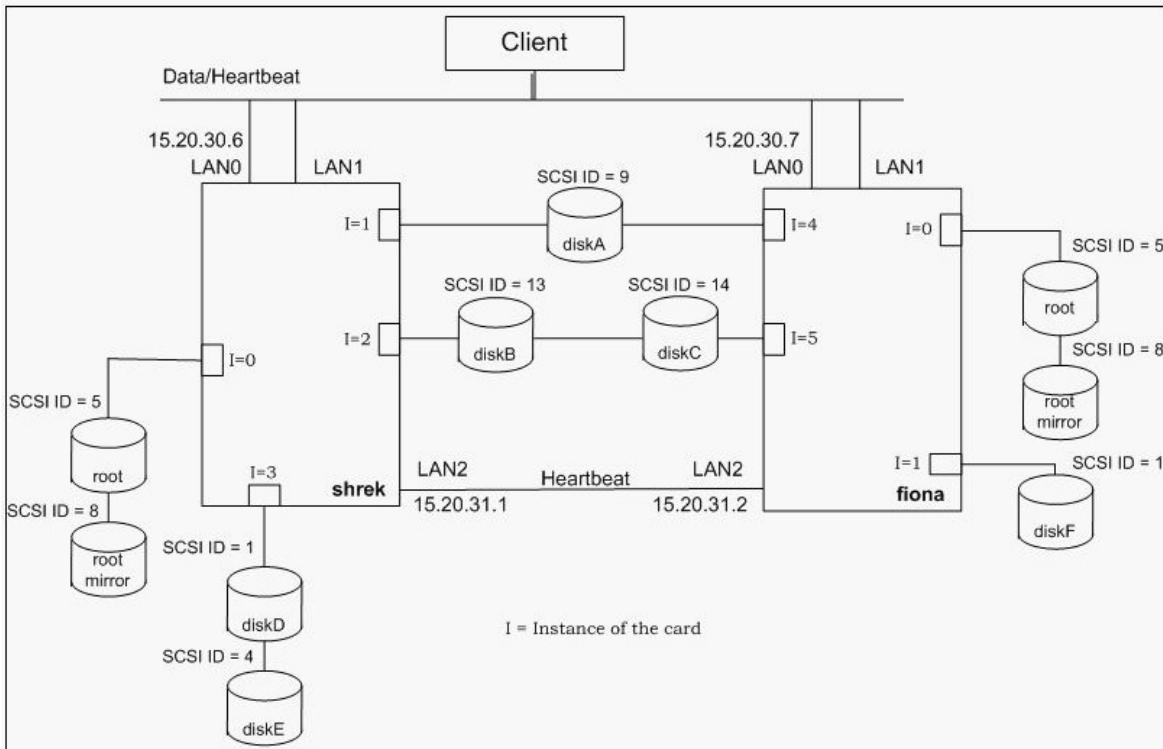


A.cmquerycl -C /etc/cmcluster/cluster.ascii -n 15.20.30.6 -n 15.20.30.7

B.cmquerycl -C /etc/cmcluster/cluster.ascii -n 15.20.30.6 -n 15.20.30.7 -v

C.cmmakecl -C /etc/cmcluster/cluster.ascii -n shrek -n fiona

D.cmmakecl -C /etc/cmcluster/cluster.ascii -n shrek -n fiona -v

E.cmquerycl -C /etc/cmcluster/cluster.ascii -n shrek -n fiona

F.cmquerycl -C /etc/cmcluster/cluster.ascii -n shrek -n fiona -v

**Correct:E F**

**2.Click the Cluster Configuration Diagram button to answer this item. Complete the following task using the information in the Cluster Configuration Diagram and the command outputs and files under the Exhibit button below. You may not need all exhibits. Fill in the indicated disk device files on the Cluster Configuration Diagram using c?t?d? format.**
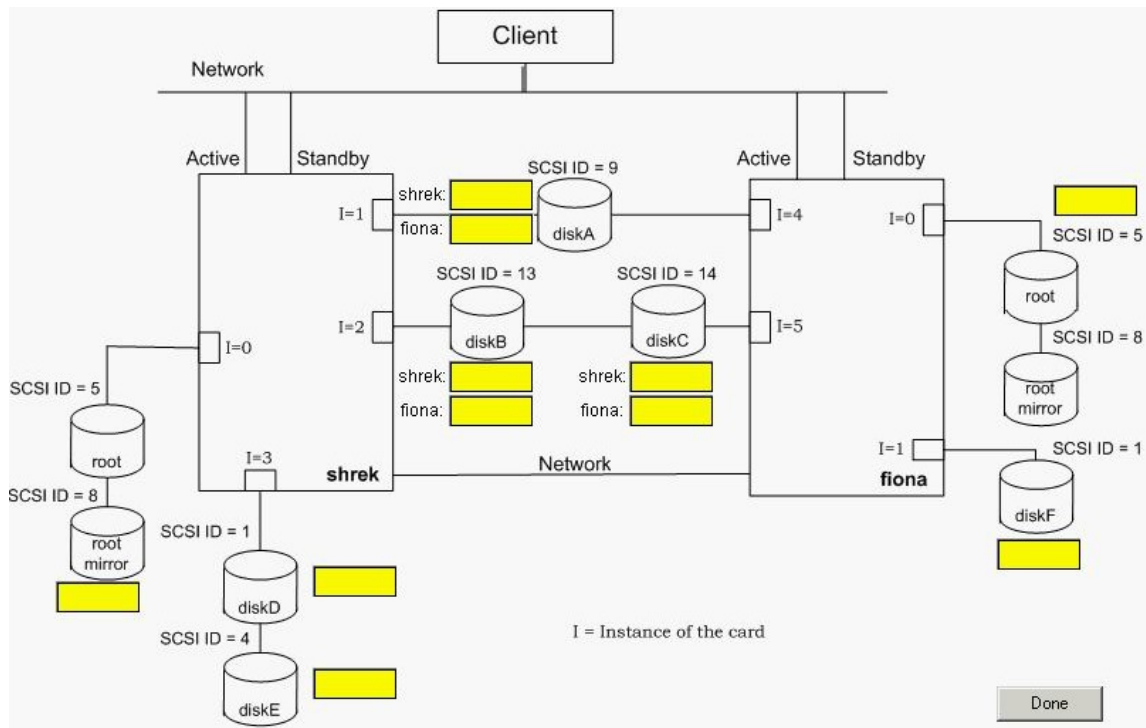
**Correct:**

**3.Click the Task button to begin. Configure a Serviceguard package by dragging and dropping the appropriate options into the empty field locations. There is more than one possible answer. The package will be called 'missionspace' and will have an IP address of 10.20.30.10 on the 10.20.30.0 network. A failure of the 10.20.30.0 network will cause the package to fail over to the adoptive node. The package will run on FIONA as the primary node and fail back from SHREK manually. A service process called space_monitor will be used to monitor the health of the package. The monitor is started by running the script /etc/cmcluster/EPCOT/spaceman and passing it the argument A failure of this process 2 times will cause the package to fail to the alternate node without affecting the node it is running on. The package mounts the logical volume /dev/vg04/moonvol at the directory /opt/moon. The filesystem type should be the Veritas file system and mounted with a delaylog option. The application is started by the command: /opt/moon/missionspace/takeoff.sh and stopped by the command: /opt/moon/missionspace/touchdown.sh.**

### /etc/cmcluster/EPCOT/space.conf

| | | |
|---|---|---|
| PACKAGE_NAME | place here | YES |
| PACKAGE_TYPE | place here | NO |
| FAILBACK_POLICY | place here | FAILOVER |
| NODE_NAME | place here | MANUAL |
| NODE_NAME | place here | AUTOMATIC |
| AUTO_RUN | place here | SYSTEM_MULTI_NODE |
| NODE_FAIL_FAST_ENABLED | place here | SHREK |
| RUN_SCRIPT | place here | FIONA |
| RUN_SCRIPT_TIMEOUT | NO TIMEOUT | 255.255.255.0 |
| | | 10.20.30.10 |
| HALT_SCRIPT | place here | 10.20.30.0 |
| SERVICE_NAME | place here | space_monitor |
| SERVICE_FAIL_FAST_ENABLED | place here | missionspace |
| SERVICE_HALT_TIMEOUT | 300 | missionspace_pkg |
| SUBNET | place here | /etc/cmcluster/EPCOT/space.cntl run |
| | | /etc/cmcluster/EPCOT/space.cntl halt |
| Done | | /etc/cmcluster/EPCOT/space.cntl |

**Correct:**
**Green choice14---->Yellow Choice1**
**Green choice3---->Yellow Choice2**
**Green choice4---->Yellow Choice3**
**Green choice7---->Yellow Choice5**
**Green choice8---->Yellow Choice4**
**Green choice1---->Yellow Choice6**
**Green choice2---->Yellow Choice7**
**Green choice18---->Yellow Choice8**
**Green choice18---->Yellow Choice9**
**Green choice12---->Yellow Choice10**
**Green choice2---->Yellow Choice11**
**Green choice11---->Yellow Choice12**

**4.Click the 'Configure a Serviceguard Task' button and use drag and drop to place the appropriate options into the excerpts from the file. Use the Exhibit button at the bottom to determine how to employ this script in the package files. The package has the following characteristics: The package will be called 'toystory' and will have an IP address of 15.31.54.64 on the 15.31.54.0 network. A failure of this network will NOT affect the package running on the node. The package will run on WOODY as the primary node and fail back from BUZZ manually. The package will mount the following veritas logical volumes with the delaylog option: /opt/vgtoys/lvo11 /opt/bin/toystory /opt/vgtoys/lvo12 /opt/bin/toystory/logs /opt/vg06/datavo1 /toydata A service**

**process called 'andy_room_mon' will be used to monitor the health of the package. The service process will have no restarts. The starting, stopping, and monitoring is run by using the script /etc/cmcluster/TOYS/andy_room.**



**Correct:**

**Green choice3---->Yellow Choice1**

**Green choice5---->Yellow Choice2**

**Green choice13---->Yellow Choice4**

**Green choice13---->Yellow Choice5**

**Green choice7---->Yellow Choice3**

**Green choice9---->Yellow Choice6**

**Green choice6---->Yellow Choice7**

**5.Click the Task button. Using drag and drop, match each cluster type to its description.**

**Correct:**

**Green choice1---->Yellow Choice1**

**Green choice2---->Yellow Choice3**

**Green choice3---->Yellow Choice2**

**6.Click the Task button. Using drag and drop, match the correct solution with each single point of failure.**



**Correct:**

**Green choice5---->Yellow Choice4**

**Green choice4---->Yellow Choice1**

**Green choice3---->Yellow Choice3**

**Green choice1---->Yellow Choice2**

**7.In the context of high availability, which phrase describes mean time to failure?**

A.the amount of time to indefinitely restart a failed service

B.the amount of time a system can provide service without failure

C.the amount of time to stop a service after a failure has been experienced

D.the amount of time to resume service after a failure has been experienced

**Correct:B**

**8.In the context of high availability, what is the affect of split-brain syndrome?**

A.different applications accessing the same disks simultaneously

B.two clusters initiate an application that accesses the same disks

C.different users of an application accessing the same disks consecutively

D.two sub-clusters initiated from a single cluster without knowledge of each other

**Correct:D**

**9.While performing a rolling Serviceguard software upgrade, which statements are true? Select TWO.**

A.You need at least two nodes running the same Serviceguard release.

B.You must change the cluster configuration as each node is updated.

C.You cannot change the cluster configuration files.

D.You may have up to three versions of Serviceguard running.

E.You cannot use the new features of the new Serviceguard release.

**Correct:C E**

**10.Click the Exhibit button. Based on the cmviewcl output, how many times can the package service oracle9i be restarted for package ora_pkg?**

```
[ system_b - /etc/cmcluster ]
# cmviewcl -v
CLUSTER                     STATUS
test_cluster        up

   NODE            STATUS        STATE
   system_a        up               running

     Network_Parameters:
     INTERFACE       STATUS        PATH                NAME
     PRIMARY         up            8/0/1/0             lan0
     PRIMARY         up            10/12/6             lan4
     STANDBY         up            8/12/2/0            lan3
     STANDBY         up            8/12/1/0            lan2

     PACKAGE         STATUS        STATE          AUTO_RUN      NODE
     ora_pkg            up             running      enabled       system_a

       Policy_Parameters:
       POLICY_NAME       CONFIGURED_VALUE
       Failover          configured_node
       Failback          manual

       Script_Parameters:
       ITEM            STATUS      MAX_RESTARTS    RESTARTS     NAME
       Service         up                     1           0     oracle9i
       Service         up            Unlimited         0     ora_lsnr
       Subnet          up                                      192.168.1.0

       Node_Switching_Parameters:
       NODE_TYPE       STATUS        SWITCHING      NAME
       Primary         up            enabled        system_a        (current)
       Alternate       up            enabled        system_b

   NODE            STATUS        STATE
   system_b        up               running

   Node_Switching_Parameters:
   NODE_TYPE       STATUS        SWITCHING      NAME
   Primary         up            enabled        system_a        (current)
   Alternate       up            enabled        system_b

NODE            STATUS        STATE
system_b        up               running

   Network_Parameters:
   INTERFACE       STATUS        PATH                NAME
   PRIMARY         up            10/4/16             lan0
   PRIMARY         up            10/12/6             lan1
   STANDBY         up            8/0/1/0             lan2
   STANDBY         up            8/0/2/0             lan3
   STANDBY         up            8/12/2/0            lan5
   STANDBY         up            8/12/1/0            lan4

[ system_b - /etc/cmcluster ]
#
```

A.0

B.1

C.2

D.3

E.unlimited

**Correct:B**

**11.A server node in an Serviceguard cluster contains three LAN interface cards; two 100baseT Ethernet NICs and one 1000baseT gigabit Ethernet NIC, with the intent of providing a high speed data LAN with redundancy. What is a consequence of this LAN configuration?**

A.The NICs for the data LAN and failover LAN must be identical.

B.The gigabit Ethernet and the 100baseT NICs cannot share the same subnet.

C.Three NICs are insufficient to provide redundancy for both the data and the heartbeat LAN.

D.The data packet size on the gigabit Ethernet is larger than the 1000baseT NIC and therefore will cause additional network latency.

**Correct:A**

**12.What is the correct way to shutdown node_a when it is part of a two node cluster? Current snapshot of the cluster: node_a - pkg1 running node_b - pkg2 running**

A.[node_a]#: cmhaltpkg pkg1 [node_b]#: cmhaltnode -f [node_b]#: cmrunpkg -n node_b pkg1 [node_a]#: shutdown -h 0

B.[node_a]#: cmhaltpkg pkg1 [node_b]#: cmrunpkg -n node_b pkg1 [node_a]#: cmhaltnode [node_a]#: shutdown -h 0

C.[node_b]#: cmhaltpkg pkg2 [node_a]#: cmhaltcl -f [node_b]#: cmrunpkg -n node_b pkg1 [node_a]#: shutdown -h 0

D.[node_b]#: cmhaltpkg pkg1 [node_a]#: cmhaltcl -f [node_ b]#: cmrunpkg -n node_b pkg1 [node_a]#: shutdown -h 0

**Correct:B**

**13.Which commands move a package called pkg to the alternate nodeB?**

A.cmhaltpkg; cmrunpkg pkg

B.cmhaltpkg; cmmvpkg -n nodeB pkg

C.cmhaltpkg; cmrunpkg pkg; cmmodpkg -e pkg

D.cmhaltpkg; cmrunpkg -n nodeB pkg; cmmodpkg -e pkg

**Correct:D**

**14.Click the Task button. Using drag and drop, order the steps that Serviceguard performs during a package halt sequence. One step will not be used.**

## Steps

| Steps | Order |
|---|---|
| Deactivate the volume group | place step 1 here |
| Unmount the file system(s) | place step 2 here |
| Stop the cmcld daemon | place step 3 here |
| Execute customer defined halt scripts | place step 4 here |
| Halt the service process or processes | place step 5 here |
| Remove the package IP | Done |

**Correct:**
**Green choice5---->Yellow Choice1**
**Green choice4---->Yellow Choice2**
**Green choice6---->Yellow Choice3**
**Green choice2---->Yellow Choice4**
**Green choice1---->Yellow Choice5**

**15.Click the Task button. Using drag and drop, order the steps to add a package to a running two-node cluster. There is more than one correct answer.**

| Steps | Steps in Order |
|---|---|
| ftp package script to other node | place step 1 here |
| edit package config and control file | place step 2 here |
| cmcheckconf | place step 3 here |
| cmviewcl | place step 4 here |
| cmmodpkg | place step 5 here |
| cmapplyconf | place step 6 here |
| cmmakepkg -p | place step 7 here |
| cmmakepkg -s | place step 8 here |

**Correct:**
**Green choice3---->Yellow Choice5**

**Green choice6---->Yellow Choice6**

**Green choice5---->Yellow Choice7**

**Green choice4---->Yellow Choice8**

**Green choice1---->Yellow Choice4**

**Green choice2---->Yellow Choice3**

**Green choice7---->Yellow Choice2**

**Green choice8---->Yellow Choice1**

**16.Which file would you edit to enable each node in the cluster to automatically start or join the cluster at boot time?**

A.cmcld

B.cmlvmd

C.cmcluster

D.cmclconfig

**Correct:C**

**17.What are the results of the cmapplyconf command?**

A.creates the cmcld file and distributes it to all nodes

B.creates the cmclconfig file and distributes it to all nodes

C.creates the cmclconfig file and distributes the ascii file and the cmclconfig file to all nodes

D.creates the cmclcuster file and distributes the ascii file and the cmclconfig file to all nodes

**Correct:B**

**18.What is the purpose of a lock disk in a cluster?**

A.prevents activation of unclustered disks

B.keeps track of who is activating each volume group

C.prevents split-brain syndrome in the cluster

D.locks non-root users from running Serviceguard commands

**Correct:C**

**19.What is the function of the lock disk in a Serviceguard cluster?**

A.ensures that Quorum occurs for a cluster formation

B.determines which node becomes the cluster coordinator

C.keeps track of which volume groups are activated on each node

D.avoids the cluster splitting into two running clusters and corrupting data

**Correct:D**

**20.Click the Cluster Diagram buttom above to view the cluster diagram graphic. Use the Exhibit button below to see four cluster ascii file excerpts. Which cluster ascii file excerpt is correct for the cluster diagram graphic shown?**
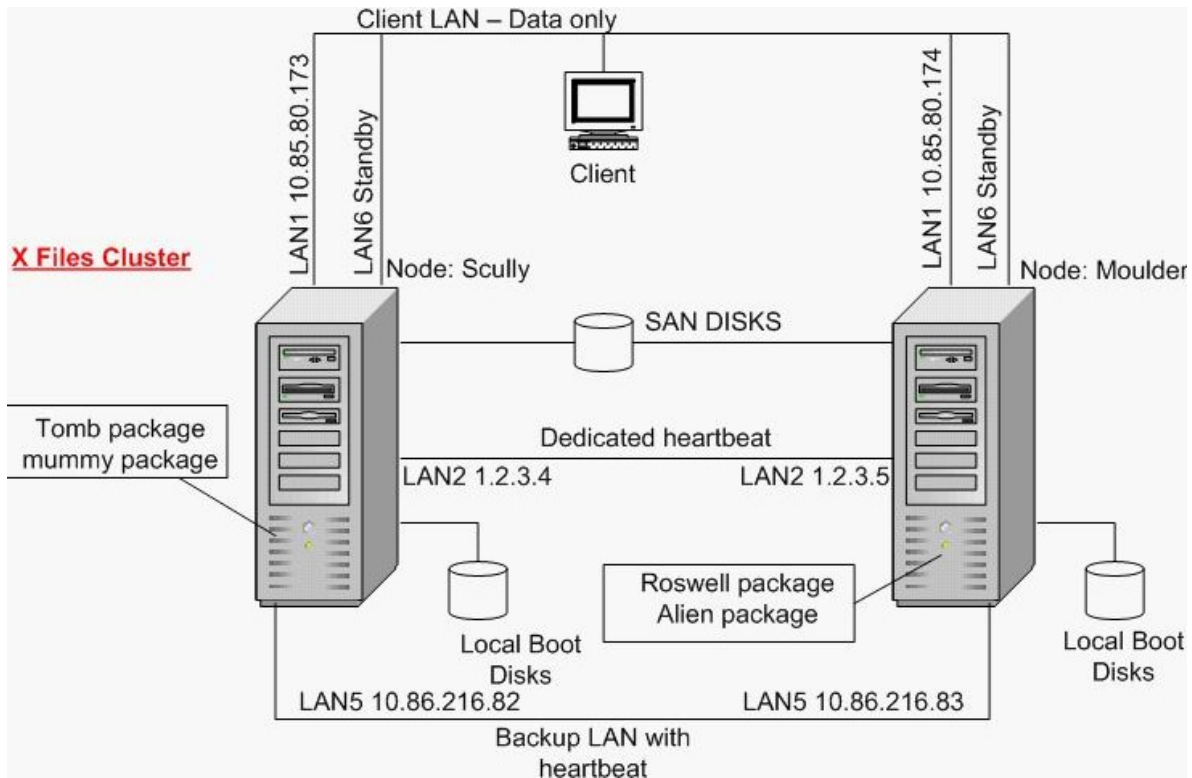
A.Excerpt 1

B.Excerpt 2

C.Excerpt 3

D.Excerpt 4

**Correct:A**