Exam Code: HP0-P19

Exam Name: HP-UX High Availability Using Serviceguard v18

Vendor: HP

Version: DEMO

Part: A

1: In a Serviceguard implementation for concurrent instances of an Oracle RAC Database, which type of shared storage management can be used on all nodes in the cluster? (Select three.)
A.Cluster File System (CFS)
B.Veritas Volume Manager (VxVM)
C.Network Attached Storage (NAS)
D.Shared Logical Volume Manager (SLVM)
E.Standard Logical Volume Manager (LVM)
F.Enterprise Logical Volume Manager (ELVM)
G.Oracle Automatic Storage Management (ASM)
Correct Answers: A D G

2: Which statements are correct regarding a Serviceguard cluster with SGeRAC and Oracle RAC? (Select two.)
A.If CFS is used then RAW devices are not allowed.
B.Each Oracle instance must have its own unique database.
C.SGeRAC cannot be configured together with Cluster File System (CFS).
D.The shared disk devices can be a SLVM raw device, CFS, or Oracle ASM raw device.
E.You can have more than one Oracle instance accessing the same database at the same time.
Correct Answers: D E

3: Which application templates are included in the Enterprise Cluster Master Toolkit (ECMT)? (Select four.)
A.NFS
B.SAP
C.SAPDB
D.HP Tomcat
E.HP Apache
F.HP CIFS/9000
G.Oracle 9i and 10g
Correct Answers: D E F G

4: Following is an excerpt from a legacy package control script:
SERVICE_NAME[0]="MON_MON"
SERVICE_CMD[0]="/etc/cmcluster/MON/MON_MON.sh monitor"
SERVICE_RESTART[0]="-r 2"
What does the "-r 2" mean? (Select two.)
A.The service MON_MON is restarted 2 seconds after failure.
B.The service MON_MON is restarted 2 times before the package fails over.
C.The monitoring script MON_MON.sh monitors its processes every 2 minutes.
D.The monitoring script MON_MON.sh restarts the clustered application 2 times before the node fails.
E.The package will fail over to the adoptive node if the monitoring script MON_MON.sh gets

restarted more than 2 times.
Correct Answers: B E

5: Which key benefits can the Distributed Systems Administration Utilities (DSAU) provide in a Serviceguard environment? (Select three.)
A.command fan-out
B.log file consolidation
C.cluster configuration
D.configuration synchronization
E.Serviceguard cluster event notification
F.Serviceguard shared storage configuration
Correct Answers: A B D

6: Which statements are true regarding Serviceguard Manager version B.01.01, a web-based SMH (HP System Management Homepage) plug-in application? (Select three.)
A.With Serviceguard Manager you can monitor, create, modify, run and halt a cluster.
B.With Serviceguard Manager you can create and modify failover and multi-node packages.
C.With Serviceguard Manager you can run a multi-node cluster which consists of both HP-UX and Linux nodes.
D.With Serviceguard Manager you can display and configure shared storage (e.g. volume groups) for failover and multi-node packages.
E.With Serviceguard Manager you can configure package dependencies, change package-switching and node-switching flags for failover packages.
Correct Answers: A B E

7: In Serviceguard, which tasks can be done during a rolling upgrade? (Select two.)
A.add a standby LAN
B.migrate to new disk storage
C.apply operating system patches
D.reconfigure cluster volume groups
E.upgrade to a new operating system revision
Correct Answers: C E

8: Which Serviceguard add-on product decreases the failover time in a 2-node cluster?
A.NFS Toolkit
B.Serviceguard Extension for SAP (SGeSAP)
C.Serviceguard Extension for RAC (SGeRAC)
D.Serviceguard Extension for Faster Failover (SGeFF)
Correct Answers: D

9: An application that is configured as a Serviceguard package in a 2-node cluster is performing badly.
A consultant inspects the application and recommends changing an application parameter. This application parameter can effect a static kernel parameter under certain conditions. The customer

has a standalone test system running the same application.
Given this situation, how should application changes be handled in regards to Serviceguard?
A.Any application change should be implemented on all cluster nodes at the same time to ensure a consistent state of the cluster.
B.Any application change should be tested outside the cluster to see if it might effect the OS and in further consequence all nodes that are running this package.
C.Any application change should only be done on the node that is running the application package. If a problem occurs the package can failover to the second node and run without a problem.
D.Any application change should only be done on the second node that is not running the application package, so the application can failover to this node to test if the changes have any negative effect.
Correct Answers: B

10: Click the Exhibit button.
Which actions can be done without interruption to pkg1? (Select two.)

```
CLUSTER       STATUS
TCR-SG-CFS    up

  NODE          STATUS       STATE
  haatc01       up           running

    Cluster_Lock_LVM:
    VOLUME_GROUP           PHYSICAL_VOLUME       STATUS
    /dev/vg01              /dev/dsk/c4t1d0       up

    Network_Parameters:
    INTERFACE    STATUS       PATH                 NAME
    PRIMARY      up           0/4/1/0/4/0          lan3
    PRIMARY      up           0/3/1/0              lan2
    STANDBY      up           0/0/3/0              lan0
    STANDBY      up           0/4/1/0/6/0          lan5
    STANDBY      up           0/4/1/0/7/0          lan6

    PACKAGE       STATUS       STATE        AUTO_RUN     NODE
    pkg1          up           running      enabled      haatc01

      Policy_Parameters:
      POLICY_NAME     CONFIGURED_VALUE
      Failover        configured_node
      Failback        manual

      Script_Parameters:
      ITEM      STATUS   MAX_RESTARTS  RESTARTS   NAME
      Service   up       15            0          pkg1-clock-monitor
      Service   up       8             0          pkg1-load-monitor
      Service   up       Unlimited     0          CFS-primary-monitor

      Node_Switching_Parameters:
      NODE_TYPE    STATUS       SWITCHING    NAME
      Primary      up           enabled      haatc01 (current)
      Alternate    up           enabled      haatc02

      Dependency_Parameters:
      DEPENDENCY_NAME          NODE_NAME      SATISFIED
      SG-CFS-MP-2              haatc01        yes
      SG-CFS-MP-2              haatc02        yes

  NODE          STATUS       STATE
  haatc02       up           running

    Cluster_Lock_LVM:
    VOLUME_GROUP           PHYSICAL_VOLUME       STATUS
    /dev/vg01              /dev/dsk/c4t1d0       up

    Network_Parameters:
    INTERFACE    STATUS       PATH                 NAME
    PRIMARY      up           0/1/2/0              lan1
    PRIMARY      up           0/0/3/0              lan0

MULTI_NODE_PACKAGES

  PACKAGE       STATUS       STATE        AUTO_RUN     SYSTEM
  SG-CFS-pkg    up           running      enabled      yes

    NODE_NAME     STATUS       SWITCHING
    haatc01       up           enabled

      Script_Parameters:
      ITEM      STATUS   MAX_RESTARTS  RESTARTS   NAME
      Service   up       0             0          SG-CFS-vxconfigd
      Service   up       5             0          SG-CFS-sgcvmd
      Service   up       5             0          SG-CFS-vxfsckd
      Service   up       0             0          SG-CFS-cmvxd
      Service   up       0             0          SG-CFS-cmvxpingd

    NODE_NAME     STATUS       SWITCHING
    haatc02       up           enabled

      Script_Parameters:
      ITEM      STATUS   MAX_RESTARTS  RESTARTS   NAME
      Service   up       0             0          SG-CFS-vxconfigd
      Service   up       5             0          SG-CFS-sgcvmd
      Service   up       5             0          SG-CFS-vxfsckd
      Service   up       0             0          SG-CFS-cmvxd
      Service   up       0             0          SG-CFS-cmvxpingd

  PACKAGE       STATUS       STATE        AUTO_RUN     SYSTEM
  SG-CFS-DG-1   up           running      enabled      no

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc01       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-pkg               yes

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc02       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-pkg               yes

  PACKAGE       STATUS       STATE        AUTO_RUN     SYSTEM
  SG-CFS-MP-1   up           running      enabled      no

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc01       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-DG-1              yes

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc02       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-DG-1              yes

  PACKAGE       STATUS       STATE        AUTO_RUN     SYSTEM
  SG-CFS-DG-2   up           running      enabled      no

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc01       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-pkg               yes

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc02       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-pkg               yes

  PACKAGE       STATUS       STATE        AUTO_RUN     SYSTEM
  SG-CFS-MP-2   up           running      enabled      no

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc01       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-DG-2              yes

    NODE_NAME     STATUS       STATE        SWITCHING
    haatc02       up           running      enabled

      Dependency_Parameters:
      DEPENDENCY_NAME          SATISFIED
      SG-CFS-DG-2              yes

UNOWNED_PACKAGES

    PACKAGE       STATUS       STATE        AUTO_RUN     NODE
    ws1           down         halted       disabled     unowned

      Policy_Parameters:
      POLICY_NAME     CONFIGURED_VALUE
      Failover        configured_node
      Failback        manual

      Script_Parameters:
      ITEM      STATUS   NODE_NAME     NAME

      Node_Switching_Parameters:
      NODE_TYPE    STATUS       SWITCHING    NAME
      Primary      up           enabled      haatc01

      Dependency_Parameters:
      DEPENDENCY_NAME          NODE_NAME      SATISFIED
      SG-CFS-MP-1              haatc01        yes
```

A.cmhaltcl -f
B.cmrunpkg -v ws1
C.cfsumount /cfspkg1
D.cmhaltnode haatc01
E.cmhaltnode haatc02
Correct Answers: B E