Exam Code: 000-101

Exam Name: Virtualization Technical Support for AIX and Linux

Vendor: IBM

Version: DEMO

Part: A

1: A customer has a Power 570 system with the following configuration:
2 active CPUs
16 GB MEM
4 disk drives
The customer wants to create two AIX partitions, without implementing a VIO server.
When the customer attempts to create the partitions using the Hardware Manaement Control (HMC), there are insufficient resources to accomplish the objective.
What is the most likely reason for this?
A.More disk drives are required.
B.Additional Ethernet adapters are required.
C.PowerVM is needed to implement the partitions.
D.The split backplane features are not installed on the server.
Correct Answers: D

2: A customer has a Power 570 with 50 LPARs. An administrator is asked if it's possible to add 2 additional LPARs, each with 2 processors (desired). Using the Hardware Management Console (HMC), the administrator checks the 570's processor usage and the machine is fully allocated. All LPARs are running AIX 6.1. The administrator believes there is idle capacity to satisfy this entitlement. Which of the following methods could be used to determine if any partition continuously has excess capacity?
A.Log in to one LPAR and check the CEC usage via topas -C.
B.Log in to each LPAR and check the current usage via topas -m.
C.Log in to one LPAR and configure topas recording via smitty topas.
D.Log in to each LPAR and check the CEC historical usage via topas -m.
Correct Answers: C

3: All the physical adapters contained in an LPAR are defined in the profile as desired. What steps must be performed to enable Live Partition Mobility (LPM)?
A.Remove all physical adapters from the profile of the mobile partition.
Reboot the mobile partition.
B.Move the physical adapters to the VIO server using DLPAR.
Run the Partition Mobility validation process.
C.Remove all physical devices, along with their children, using the rmdev command.
Remove all physical adapters from the mobile partition using DLPAR.
D.Remove all physical adapters from the profile of the mobile partition.
Shut down the mobile partition.
Activate the mobile partition with the modified profile.
Correct Answers: C

4: A customer has 4 POWER6 servers managed by a Hardware Management Console (HMC). They plan to install a second HMC for redundancy. Which of the following statements correctly describes the dual HMC environment?

A.To provide the Service Agent function, both HMCs must have Service Agent enabled and a dedicated modem and phone line.
B.Authorized users must have the same username and password on both HMCs, so that every user of one HMC is automatically authorized on the other.
C.Both HMCs are automatically notified of any changes that occur in the managed systems, so results of changes made to the managed system by one HMC are visible on the other.
D.Both HMCs must be running the same software revision. Software maintenance must be performed on both HMCs at the same time, but one HMC should be disconnected from the same private network causing an interruption to HMC functions.
Correct Answers: C

5: An administrator has a Power 570 with 4 cores active, 32 GB of memory, and two VIO servers. All partitions must run at the same time. The VIO servers will utilize dedicated processors and the LPARs will utilize shared processor pools. Which of the following minimum processor and memory configurations will allow all partitions to be run concurrently?
A.VIO1 - Processor=1 Memory=2 GB
VIO2 - Processor=1 Memory=2 GB
LPAR1 - Processor=0.75 Memory=12 GB
LPAR2 - Processor=1.0 Memory=12 GB
LPAR3 - Processor=0.25 Memory=6 GB
B.VIO1 - Processor=0.1 Memory=64 MB
VIO2 - Processor=1 Memory=64 MB
LPAR1 - Processor=0.75 Memory=1 GB
LPAR2 - Processor=0.25 Memory=1 GB
LPAR3 - Processor=1.0 Memory=1 GB
C.VIO1 - Processor=1 Memory=1 GB
VIO2 - Processor=2 Memory=1 GB
LPAR1 - Processor=0.50 Memory=512 MB
LPAR2 - Processor=0.50 Memory=12 GB
LPAR3 - Processor=0.25 Memory=6 GB
D.VIO1 - Processor=1 Memory=512 MB
VIO2 - Processor=1 Memory=512 MB
LPAR1 - Processor=0.25 Memory=6 GB
LPAR2 - Processor=1.0 Memory=10 GB
LPAR3 - Processor=0.75 Memory=10 GB
Correct Answers: D

6: A customer has raised a question about a recently installed LPAR. What command would the administrator run to obtain information about the processor entitlement?
A.lscfg -vps
B.prtconf -c
C.lparstat -i
D.lsdev -C -c processor
Correct Answers: C

7: Which of the following can be used to restore a VIO server from a backup image?
A.Run installios on the HMC.
B.Restore the vg files from the VIO server
C.Restore from the NIM master running on the HMC.
D.Reboot from VIO media and select 'restore from backup'.
Correct Answers: A

8: The system administrator for a company plans to consolidate the workload of several ageing servers onto a new Power server. The administrator's intention is to virtualize all network and disk resources for each LPAR in the new system using VIOS 1.x. Which of the following is correct regarding MAC addresses and World Wide Port Names (WWPN) in a client partition?
A.Each client LPAR will have its own MAC address and WWPN.
B.Each client LPAR will have no unique MAC address or WWPN.
C.Each client LPAR will have its own MAC address, but no unique WWPN.
D.Each client LPAR will have no unique MAC address, but will have its own WWPN.
Correct Answers: C

9: Which of the following is a feature of Integrated Virtualization Manager (IVM)?
A.It has a GUI interface for upgrading system firmware.
B.It creates and manages AIX/Linux and VIOS type LPARs.
C.It can be managed by the Hardware Management Console (HMC).
D.It supports Live Partition Mobility on POWER6 systems and above
Correct Answers: D

10: An administrator is interested in implementing multiple shared processor pools on a new Power 595. How many user-customizable multiple shared processor pools are available?
A.63
B.64
C.254
D.255
Correct Answers: A

11: Which functionality would a customer use to share available CPU resources between AIX and Linux partitions on a Power system?
A.Dynamic LPAR
B.Micro Partitions
C.Entitled capacity
D.Multiple Shared Processor Pools
Correct Answers: B

12: Which of the following interfaces is required to implement Workload Partition Mobility?
A.Workload Partitions Manager for AIX
B.Hardware Management Console (HMC) GUI

C.Integrated Virtualization Manager (IVM)
D.Advanced System Management Interface (ASMI)
Correct Answers: A

13: A POWER6 server has a Hardware Management Console (HMC) running version 7.3.x of the HMC code and is configured with 2 VIO servers and 3 client partitions. When powering on the server, how does the administrator ensure that the VIO server partitions are activated before the client partitions?
A.By ensuring that default profiles only exist for the VIO servers.
B.By creating a custom group on the HMC and including the VIO server partitions before the client partitions.
C.By creating a system profile on the HMC and including the VIO server partitions before the client partitions.
D.By ensuring that the VIO server partitions have a lower partition ID than the client partitions and creating a custom group on the HMC.
Correct Answers: C

14: A customer plans to relocate a partitioned system that is currently being managed by a Hardware Management Console (HMC) and has PowerVM installed. When relocated, they plan to use Integrated Virtualization Manager (IVM). What action is required to accomplish this objective?
A.Use the HMC to create the new VIO server and client partitions then relocate the system.
B.Use ASMI to reboot the system while the system is disconnected from the HMC, then load VIO software.
C.Use ASMI to return the system to default configuration with the HMC disconnected, then load VIO software.
D.Use the HMC to create the new VIO server associate it with the Virtual Management Channel (VMC) then relocate the system.
Correct Answers: C

15: A customer has 5 older POWER5 systems and they want to consolidate them onto a POWER6 system. What information is important to analyze when deciding how to design the new machine using the System Planning Tool?
A.vmstat and iostat data from the older machines
B.The number of CPUs that were installed in the original machines
C.Data from Workload Estimator (WLE) and IBM Performance Management (PM)
D.Performance data that is collected from the new system after it has been put into production
Correct Answers: C

16: What does the "allow performance information collection" button do in the Hardware Management Console (HMC) GUI?
A.It allows compilation of inter partition reports, or cross partition performance activity.
B.It will allow IBM remote technical support to get performance information from the machine.
C.It will have no effect unless you are running Power6 and plan on performing live partition

mobility operations.
D.It will start standard performance monitoring tools when an LPAR boots up, the output will be saved to the /etc/perf directory by default.
Correct Answers: A

17: From the information below, what command would the administrator run to allocate the file backed optical device, named useful_scripts, to virtual SCSI adapter vhost0?
lsrep
Size(mb) Free(mb) Parent Pool Parent Size Parent Free
8159 8139 optical_imagevgs 34624 19264
Name File Size Optical Access
useful_scripts 20 None rw
$ lsmap -vadapter vhost0
SVSA Physloc Client Partition ID
--- --- ---
vhost0 U9111.520.65D12345-V2-C2 0x00000000
VTD NO VIRTUAL TARGET DEVICE FOUND
$ lsdev -virtual
name status description
ent2 Available Virtual I/O Ethernet Adapter (l-lan)
vhost0 Available Virtual SCSI Server Adapter
A.mkvdev -dev useful_scripts -vadapter vhost0; loadopt -vdev vtopt0
B.mkvdev -optical useful_scripts -vadapter vhost0; loadopt -vdev vtopt0
C.mkvdev -fbo -vadapter vhost0; loadopt -disk useful_scripts -vtd vtopt0
D.mkvdev -type fbo -vadapter vhost0; loadopt -fbo useful_scripts -vtd vtopt0
Correct Answers: C

18: Which of the following statements is true regarding implementing Live Partition Mobility on two existing POWER6 based systems?
A.The systems must use internal storage for boot purposes.
B.All virtualized ethernet adapters must be numbered below 10.
C.The mobile partition's network and disk access must be virtualized.
D.Each system must be controlled by a different Hardware Management Console (HMC).
Correct Answers: C

19: An administrator wants to move an Ethernet adapter from a client logical partition (LPAR1) to a running VIO server (VIOS1). Assuming the adapter was not set to required in the profile, which of the following are the supported steps the administrator must take to accomplish this task?
A.Deconfigure the adapter in LPAR1
rmdev the adapter from LPAR1
dlpar the device from LPAR1 to VIOS1

cfgmgr in VIOS1
configure the adapter in VIOS1
update profiles on HMC
B.Update profiles on HMC
rmdev the adapter from LPAR1
deconfigure the adapter in LPAR1
dlpar the device from LPAR1 to VIOS1
cfgmgr in VIOS1
configure the adapter in VIOS1
C.Rmdev the adapter from LPAR1
deconfigure the adapter in LPAR1
update profiles on HMC
dlpar the device from LPAR1 to VIOS1
cfgdev in VIOS1
configure the adapter in VIOS1
D.Deconfigure the adapter in LPAR1
rmdev the adapter from LPAR1
dlpar the device from LPAR1 to VIOS1
update profiles on HMC
cfgdev in VIOS1
configure the adapter in VIOS1
Correct Answers: D

20: A customer has a system with a number of LPARs, one of which is running a supported version of Linux. Which CLI command can an administrator use to display the CPU and memory resource allocation of the Linux partition?
A.cat /proc/usr/lparchk
B.cat /proc/ppc64/lparcfg
C./var/adm/tools/res_list
D./var/adm/tools/lparalloc
Correct Answers: B