



Exam : 000-233

Title : AIX 5L Installation,Backup and System Recovery

Ver : 12-16-2008

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**QUESTION 1:**

Which of the following files must be customized to run a script that further configures the system upon completion of a mkysb install?

- A. auto.u
- B. inst.data
- C. bos.autoi
- D. bosint.data

Answer: D

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**QUESTION 2:**

Which of the following commands should be run to rebuild a corrupted jfslog, loglv01?

- A. fsck -p loglv01
- B. fsck -y /dev/loglv01
- C. logform /dev/loglv01
- D. /usr/sbin/logform loglv01

Answer: C

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**QUESTION 3:**

After a successful system recovery, it is determined that the server will not support printing so the system administrator has decided to remove the bos.rte.printers fileset and all of its dependents. Which of the following is the correct method to accomplish this task?

- A. Use fastpath "smitty rmvprt"
- B. Installp -u -g bos.rte.printers
- C. Use fastpath "smitty maintain\_software"; choose "Remove Installed Software"; fill in values for bos.rte.printers
- D. Remove of the bos.rte.printers fileset is not permitted

Answer: D

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**QUESTION 4:**

After a successful recovery, the system administrator wishes to remove the fileset bos.net.tcp.server and all dependent software. After running an lspp command, it is verified that the fileset is in the BROKEN state. What is the correct method for deinstallation?

- A. Use `installp -u` command with `-g` to remove the fileset and all dependent software.
- B. Use `installp -c` command to commit fileset; use `installp` command with `-g` to remove the fileset and all dependent software.
- C. Use `installp -C` command to perform cleanup of fileset; use `install` command with `-g` to remove the fileset and all dependent software.
- D. Use `installp -a` command to apply fileset; use `installp` command with `-g` to remove the fileset and all dependent software.

Answer: A

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### **QUESTION 5:**

Which of the following procedures should occur before removing a failing disk from a volume group?

- A. Verify off the volume group
- B. Unmount any filesystems on the disk
- C. Remove all physical partitions on the disk
- D. Unmount mirrored filesystems from the disk

Answer: B

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### **QUESTION 6:**

A system has a TCPIP issue that is a known problem. The newest code from the support website has been downloaded to resolve the issue. Which of the following commands should be used to install the new code?

- A. `smitty install_commit`
- B. `installp -ugV`
- C. `installp -aX`
- D. `instfix -all`

Answer: C

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### **QUESTION 7:**

Which of the following sequence of commands extracts the third image from a tape that was created using the `backup` command?

- A. `tctl -f /dev/rmt0.1 fsf 2 ; tar -xv file3`
- B. `tctl -f /dev/rmt0.0 fsf 3 ; dd if=file3 pf=/dev/rmt0.1`
- C. `tctl -f /dev/rmt0.1 fsf 2 ; dd if=/dev/rmt0.1 of=file3`
- D. `tctl -f /dev/rmt0.0 fsf 3 ; dd if=/dev/rmt0.1 of=file3`

Answer: C

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**QUESTION 8:**

Which of the following techniques is used to extract the /usr/tmp directory from a mksysb backup?

- A. Use the tar command on the fifth image.
- B. Use the restore command on the fourth image.
- C. Use tctl -f /dev/rmt0.1 fsf 3 followed by the tar command on the fourth image.
- D. Reboot using the mksysb tape and then use the dd command to extract the file.

Answer: B

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**QUESTION 9:**

A system administrator boots a company's server in normal mode. The boot process displays a LED 553 and stops. LED 553 indicates that IPL phase one is complete. Which of the following options is the most probable cause?

- A. The JFS Log is too small.
- B. The bootlist file is corrupted.
- C. A problem occurred reading or executing /etc/rc.nfs.
- D. A space shortage occurred on /dev/hd4, /dev/hd3, or /dev/hd2.

Answer: D

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**QUESTION 10:**

During a system administrator's attempt to boot the company's server in normal mode, the boot process displays an LED 552 and stops. The LED 552 indicates that the vavton the root volume group failed. Which of the following options is the most probable cause?

- A. The bootlist is corrupted.
- B. The file system log is corrupted.
- C. The /etc/inittab file cannot be read or executed.
- D. The boot record is corrupted.

Answer: B

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**QUESTION 11:**

During a system boot, an error message appears concerning a paging space, paging00. The paging space was located on hdisk2, but the disk was removed from

the system without proper software procedures. Which of the following commands should be used as the first step in the process of recovery?

- A. mkps paging00 hdisk0
- B. chpv -v r hdisk2
- C. chps -a n paging00
- D. reducevg rootvg hdisk2

Answer: C

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### QUESTION 12:

A system administrator was able to boot a system from the AIX installation CDROM. The migration install was selected, but the process hung at 92% complete. The system administrator then rebooted the system, which subsequently hung at LED 552. Which of the following options is the most probable cause?

- A. The ODM is corrupted.
- B. There is a hardware failure.
- C. The bosboot command failed.
- D. Not enough space is available in the filesystems.

Answer: A

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### QUESTION 13:

Rootvg has just been mirrored to a second disk. Which of the following actions should be performed to boot the system off of either disk?

- A. Extendvg to include both disks in the rootvg
- B. Copy the hd5 logical volume to hdisk1
- C. Run the bosboot and bootlist commands
- D. Reset the dump device to /dev/sysdumpnull

Answer: C

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### QUESTION 14:

#### Exhibit

A system has two volume groups, rootvg and datavg. After a system reboot, the datavg volume group cannot be varied on and no filesystems in this volume group can be mounted.

Output from varyonvg datavg is:

hdisk1	00000593a328065e	PVACTIVE
hdisk2	00000593b6dbefe9	PVACTIVE
hdisk3	00000593b9d2fb06	PVMISSING

The following filesystems are located on hdisk1 and hdisk2:

```
/data
/users
/accounts
```

Which of the following commands should be used before removing hdisk3 from the system?

- A. chpv -v r hdisk3
- B. rmdev -dl hdisk3
- C. varyonvg -f datavg
- D. reducevg datavg hdisk3

Answer: D

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**QUESTION 15:**

Which of the following statements is TRUE about the reorgvg command?

- A. No logical volumes will be moved if write-verify is set to yes.
- B. No action will be performed if it cannot fulfill the allocation requirements.
- C. Physical partitions of a logical volume will be moved if the logical volume's relocatable flag is set to "no".
- D. Physical partitions will be moved as close as possible to the positions specified, if the allocation requirements cannot be fulfilled.

Answer: D

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**QUESTION 16:**

A system administrator boots its company's server in normal mode, the boot process displays an LED 552 and stops. LED 552 indicates that the varyon of the root volume group failed. All of the problem EXCEPT:

- A. A corrupted file system
- B. A corrupted JFS log device
- C. A missing or corrupted shell profile or environment files
- D. A corrupted copy of the ODM database on the boot logical volume

Answer: C

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**QUESTION 17:**

Exhibit

After an RS/6000 fails to boot in normal mode with an LED 553 displayed, you begin to debug the problem. LED 553 indicates that IPL phase one is complete. You boot the system in service mode using bootable media and select the maintenance shell, then gather the following information:

```
# df /dev/hd4
Filesystem      512-blocks    Free   %Used    Inused %Inused   Mounted on
/dev/hd4         16384             0    100%     1638    100%      /

# df /dev/hd3
Filesystem      512-blocks    Free   %Used    Inused %Inused   Mounted on
/dev/hd3        32768       14096     57%       369      10%     /tmp

# df /dev/hd2
Filesystem      512-blocks    Free   %Used    Inused %Inused   Mounted on
/dev/hd2       671744      176552     74%    13775     17%     /usr
```

```

: 01#49 1.28.2.7  src/box/etc/inittab/inittab, cadoper, hos411,
: 9430C411a 7/26 /94 16:27:45
:
: COMPONENT_NAME: CNOOPER
:
: ORIGINS: 3, 27
:
: (C) COPYRIGHT: International Business Machines Corp. 1989 - 1993
: All Rights Reserved
: Licensed Materials - Property of IBM
:
: US Government Users Restricted Rights - Use, duplication or
: disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
:
: Note - initdefault and sysinit should be the first and second entry.
:
: init:2:initdefault:
: boot:1:sysinit:/sbin/rc.boot 3 >/dev/console 2>1 # Phase 3 of system boot
: powerfail:1:powerfail:/etc/rc.powerfail 2>1 | alog -tboot > /dev/console
: #Power Failure Detection
: rc:2:wait:/etc/rc 2>1 | alog -tboot > /dev/console # Multi-User checks
: fcheck:2:wait:/usr/sbin/fcheck 2>1 | alog -tboot > /dev/console
: # run /etc/firstboot
: rcsmatr:2:respawn:/usr/sbin/rcsmatr # System Resource Controller
: rctcpip:2:wait:/etc/rc.tcpip > /dev/console 2>1 # Start TCP/IP dsname
: ccom:2:respawn:/usr/sbin/ccom
: piober:2:wait:/usr/lib/ipd/pio/etc/pioinit >/dev/null 2>1 # pb cleanup
: udsname:2:wait:/usr/bin/startsrc ->udsname

```

Given the information provided in the Exhibit, which of the following procedures will successfully resolve the problem before rebooting in normal mode?

- A. Increase the size of rootvg.
- B. Delete unnecessary files in the / (root) file system.
- C. Edit /etc/inittab and correct any erroneous entries.
- D. Run fsck on the rootvg and recreate the log device with the following command:  
/usr/sbin/logform /dev/hd8.

Answer: B

### QUESTION 18:

When line errors occur, which of the following commands should be used to cause init to re-read the /etc/inittab file if init stops respawning the getty process on a TTY?

- A. alog
- B. telinit
- C. sysinit
- D. cfgmgr

Answer: B

### QUESTION 19:

During an attempt to mount filesystems on the datavg volume group, the following error message occurs: "0506-323 Cannot get information about log device loglv00." The error is due to the fjslog used by these filesystems is located on a bad disk. Which of the following procedures should be performed to fix the error?

- A. Run fsck on all filesystems using loglv00

- B. Run the logform command against loglv00
- C. Recreate the filesystems and restore from a backup
- D. Create a new jfslog and change /etc/filesystems to point to this log

Answer: D

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**QUESTION 20:**

While applying a service update on a system using SMIT, the system administrates SMIT Command Status screen shows "Command: failed". Which of the following procedures should be performed to investigate the failure?

- A. Exit the SMIT session and re-apply the update.
- B. Select the SMIT option to Clean UP After an Interrupted Installation.
- C. Examine the installation summary report to determine the cause of the failure.
- D. Examine the console log to view the error messages generated by the failure.

Answer: C

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**QUESTION 21:**

The system administrator did a new install of AIX on a server about a week ago. The system was not rebooted after the installation. CDE is running on this system as is TCP/IP. The system administrator has started configuring the system per company directives. The power cable was inadvertently disconnected from the wall causing the sever to lose power. Upon reboot, the system appears to hang during log in from the console or from Xterminals. Which of the following is the most probable cause?

- A. It is a hardware problem caused by the power failure.
- B. There is a network problem, most probably with name resolution.
- C. Sine the system was never rebooted, devices are marked defined instead of available and need to be activated.
- D. Some filesets may be marked as broken and need to be reinstalled.

Answer: B

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**QUESTION 22:**

A graphics card has just been added but is not available. The xinit command is run, however an error occurs. Which of the following procedures should be performed to fix the error?

- A. Run the xstart command.
- B. Install the Windows software.
- C. Change the console to /dev/lft.



D. Copy the xdefaults file to the home directory.

Answer: B

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**QUESTION 23:**

Which of the following is TRUE when creating a file system that resides on the center of a disk?

- A. The logical volume is created first.
- B. The physical volume will be automatically created.
- C. The physical partition must be specified as an option.
- D. The file system will be mounted during the time of creation.

Answer: A

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**QUESTION 24:**

Which of the following statements is TRUE about mounting a file system?

- A. A file system cannot be mounted on a directory containing data.
- B. Mounting a file system on a mount point containing data will delete the data.
- C. Mounting a file system on a amount point containing data will make the data temporarily inaccessible.
- D. A systems administrator must manually create an empty directory prior to mounting an AIX JFS.

Answer: C

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**QUESTION 25:**

The latest version of a licensed product is already installed. Which of the following methods is most appropriate to load an older version of a licensed program product over the latest version?

- A. Install the older version with a Force Overwrite option
- B. An older version cannot be installed if a newer version is installed
- C. Use the Reject option on the committed newer version that is installed
- D. Using the lppdiff command, capture the names of the newer filesets for the product, then remove them using this listing as input to the installp command

Answer: A

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**QUESTION 26:**

CDE is working. However, the customized PATH environment has not been

implemented. Which of the following procedures should be performed to activate the implementation?

- A. Update the .kshrc file
- B. Edit \$HOME/.dtpfile, and uncomment the DTSOURCEPROFILE=true
- C. Copy /etc/.profile to \$HOME/.dtpfile and edit the file as needed
- D. Double click on the System Administration icon and select CDE profile

Answer: B

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**QUESTION 27:**

A parallel printer has just been connected. There are not selections in the SMIT menu to configure the printer. Which of the following procedures should be performed to complete the configuration?

- A. chdev
- B. reboot
- C. lpstat -Q
- D. smit install

Answer: D

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**QUESTION 28:**

A graphics card has been added and the system rebooted. When running the lsdev -Cc adapter, the graphics card is not listed in the output. Which of the following actions should be performed?

- A. Reboot system using the mkdev -l command.
- B. Install device support using the cfgmgr -i command.
- C. Use the SMIT console to redirect the console.
- D. Use SMIT devices and choose the correct adapter.

Answer: B

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**QUESTION 29:**

A basic TCP/IP configuration on the system has just been completed. A remote system can be pinged by IP address but not by hostname. Which of the following actions should be performed next in an effort to successfully ping using the hostname?

- A. Check routing
- B. Check inetd.conf
- C. Check /etc/resolv.conf

D. Check interface with ifconfig

Answer: C

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**QUESTION 30:**

When rejecting applied an dependent updates on an AIX 5L system, which of the following procedures is most appropriate to follow?

- A. Use the install PREVIEW option to view a list of all updates that will be rejected
- B. Use the lspp -d command to view the dependent filesets that will be rejected
- C. Select the SMIT option to Verify Software Requisites and Installations first to generate a list of all applied updates.
- D. Select the SMIT option to List the Maintenance Level of a Software Product to double check the update level that should be removed

Answer: A

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**QUESTION 31:**

A system administrator receives a new server and has booted the system for the first time. The administrator has set up the terminals and users. The user start to log on. Root is logged in on the console. When additional users start to log in, an error is displayed stating that All available login sessions are in use. Which of the following steps should be followed to resolve this problem?

- A. Permissions on /etc/security were changed in error; do a chmod 755 on /etc/security directory.
- B. Increase the number of licenses; using smit chaili cense
- C. Change the Maximum number of PROCESSES allowed per user variable; using smit chgsys.
- D. Change User can logi field from false to true: using smit chuser.

Answer: B

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**QUESTION 32:**

Which of the following statements best describes the relationship between a logical volume and a journaled file system (JFS)?

- A. Increasing the size of a logical volume also increases the size of the file system
- B. Reducing the size of a logical volume requires reducing the size of the file system first
- C. Increasing the size of a file system requires increasing the size of the logical volume first
- D. Increasing the size of a file system also increases the size of the logical volume when necessary

Answer: D

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**QUESTION 33:**

Which of the following procedures is safest perform when updating licensed program products?

- A. Load all updates in the commit state
- B. Load all updates in the applied state until tested
- C. Perform all software updates in maintenance mode
- D. Use the Force Overwrite option for filesets that are already committed.

Answer: B

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**QUESTION 34:**

A server is being set up at a client location. The system has been powered up for a clean install of the base OS. The CD is in the drive. After 5 minutes, the system is hung. There is no activity with the CD-ROM drive and nothing to select on the screen. Which of the following procedures should be performed next?

- A. Boot off diskette and change boot device to CD
- B. Change the bootlist for normal mode and reboot
- C. Reboot and press 5/F5 after keyboard is displayed on the screen
- D. Press enter to open SP menus once OK is showing in the LEDs

Answer: C

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**QUESTION 35:**

If an install of the latest NFS fixes failed, which of the following options provide debug output before running installp?

- A. export INST\_DEBUG=YES
- B. nin -to check -a debug =yes <client>
- C. type 911 at "Welcome to BOS install" menu
- D. modify bosinst.data file1 and set the BOSINST\_DEBUG =yes

Answer: A

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**QUESTION 36:**

During a system administrator's attempt to boot a server in normal mode, the boot process displays a LED C31 and stops. Which of the following actions should be performed?

- A. Create a boot image
- B. Locate paging devices
- C. Locate the system console
- D. Determine the boot type/device

Answer: C

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**QUESTION 37:**

During an AIX installation, which of the following methods preserves the system's AIX root volume group, including file systems (except /tmp), logical volumes, and select system configuration files?

- A. NIM Installation
- B. Migration installation
- C. Preservation installation
- D. Installation from the mkysb tape

Answer: B

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**QUESTION 38:**

Which of the following commands should be used to check filesets for consistency?

- A. installp -C
- B. lspp -c
- C. instfix -i
- D. lppchk -v

Answer: D

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**QUESTION 39:**

The boot .net.tcp.client fileset is broken. Which of the following procedures must be performed to fix the problem?

- A. Reinstall with the Force Overwrite option
- B. Update the fileset at a lower level
- C. Install the update in the commit state
- D. Reboot the system to fix the broken filelist

Answer: A

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**QUESTION 40:**

After installing the base operating system and the Server bundle, a system administrator decides to remove several printer definitions that the system users will not need. Which of the following procedures is the best way for a system administrator to remove the extra printer definitions?

- A. Select the SMIT option to remove software products
- B. Reinstall the desired filesets using the "Force Overwrite" option
- C. Delete the unnecessary entries from the /usr/lpp/printers directory
- D. Use the ODM edit (odem) utility to remove the definition from the system's ODM database

Answer: A

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**QUESTION 41:**

On the NIM master, the command 'lsnim' returns; 0042-011 lsnim; unable to access the /etc/nimninfo file. Which of the following tasks needs to be run?

- A. Unconfigure NIM to the master.
- B. Configure the NIM client information on the master.
- C. Configure the NIM master information on the master.
- D. Reinstall the NIM master filesets

Answer: C

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**QUESTION 42:**

Users are complaining of slow performance. The iostat command indicates hdiskxx is extremely busy. There is no activity on any other hdisks in the same volume group. Which of the following is the best action to take?

- A. Change intra policy to outer
- B. Change intra policy to center
- C. Change inter policy to maximum
- D. Increase the physical partition size

Answer: C

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**QUESTION 43:**

A system administrator notices that one of the mirrored disks, hdisk7 on datavg, has had a hardware failure. What is the best method of recovery without causing additional problems?

- A. unmirrorvg datavg hdisk7  
reducevg datavg hdisk7

replace the physical volume, run cfmgr

extendvg datavg hdisk7

mirrorvg datavg hdisk7

B. varyoffvg datavg

Rmdev -l hdisk7 -d

Replace the physical volume, run cfmgr

The system will automatically remirror when the disk is replaced

C. unmirrorvg datavg hdisk7

rmdev -l hdisk7 -d

replace the physical volume, run cfmgr

extendvg datavg hdisk7

The system will automatically remirror when the disk is replaced.

D. unmirrorvg datavg hdisk7

reducevg data hdisk7

rmdev -l hdisk7 -d

replace the physical volume, run cfmgr

extendvg datavg hdisk7

mirrorvg datavg

Answer: D

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#### **QUESTION 44:**

A customer has just received three enterprise systems that support a total of 48 LPARs. Which installation method expedite the process?

A. Network installation manager

B. Boot from installation media

C. A migration install

D. Copy the system using the HMC

Answer: A

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#### **QUESTION 45:**

Which of the following is backed up with the mksysb command when a system consists of the volume groups rootvg, vol1, and vol2?

A. All filesystems in rootvg, vol1, vol2

B. All locally mounted filesystems in the rootvg

C. All files in the rootvg and system files in vol1 and vol2

D. All local and remotely mounted filesystems

Answer: B

---

**QUESTION 46:**

Which of the following sequence of commands should be used to list the directories and files saved on a mksyst tape that has been rewound and placed in device rmt0?

- A. tet1 -f /dev/rmt0 fsf 2; restore -xqvf /dev/rmt0
- B. tet1 -f /dev/rmt0.1 fsf2; restore -Tvf /dev/rmt0.1
- C. tet1 -f /dev/rmt0.1 fsf3; restore Tqvf /dev/rmt0.1
- D. tet1 -f /dev/rmt0.1 fsf3; restore -Tvf /dev/rmt0.1

Answer: C

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**QUESTION 47:**

A system administrator needs to backup datavg which contains a database that pre-allocates files by padding them with nulls, similar to treating them as sparse files. In order to effectively backup and be able to restore the datavg files, which backup method should be used?

- A. savevg
- B. tar
- C. cpio
- D. mksysb

Answer: B

---

**QUESTION 48:**

The mksysb command completed successfully. Which of the following steps are necessary to verify the mksysb is good?

- A. Store the mksysb in a safe place because a successful completion guarantees the mksysb is good.
- B. Boot from the mksysb to verify it is bootable and list the files on the mksysb.
- C. Look at the bosboot output when the mksysb was created to verify it is good.
- D. List the files on the mksysb because listing all the files verifies there are no problems with the mksysb.

Answer: B

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**QUESTION 49:**

Certkiller .com's AIX system has a rootvg, plus a separate volume group for their application's data. Which command(s) should be used to backup the entire system?



- A. smit mksysb (select additional volume group)
- B. smit mksysb AND smit savevg
- C. mkszfile && mksysb /dev/rmt0
- D. savevg (select additional volume group)

Answer: B

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**QUESTION 50:**

Which of the following an example of a backup by absolute pathname?

- A. ls .file 1 | backup -ivf/dev/rmtr0
- B. ls file 1 file 2 | backup -ivf/dev/rmt0
- C. find /home/statistics -print | backup -ivf/dev/rmt0
- D. find ./home/statistic -print | backup -ivf/dev/rmt0

Answer: C

Explanation:

This is the only absolute pathname among your answers. Absolute means complete path beginning with /.

Not B: file1 file2. These are relative path filenames.

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**QUESTION 51:**

A graphics card has been added to the system. After rebooting, the system hangs during the login process with a blue screen indicating "CDE please wait". Which of the following procedures should be performed next?

- A. Reinstall the CDE software
- B. Check the name resolution
- C. Uncomment the last line in .dtpfile
- D. Boot in maintenance mode and perform fsck on file systems

Answer: B

Explanation:

See Redbook sg24-6183 chapter 2 on pg 22. section 2.6.1 Post

Installation problems "when the system hangs if you log in using CDE. The problem is DNS and the best procedure would be to check name resolution first, then the .profile file as in answer C.

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**QUESTION 52:**

A user reports a corrupted boot logical volume. In order to recreate the contents of the boot logical volume which of the following procedures should the user be

advised to perform?

- A. Reboot the system in normal mode.
- B. Use the bosboot command to rebuild the boot image.
- C. Restore the boot logical volume from a mksysb image.
- D. Reboot the system into maintenance mode and run fsck on the boot logical volume.

Answer: B

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**QUESTION 53:**

A system administrator boots Certkiller .com's server in normal mode, the boot process displays LED 553 and stops. LED 553 indicates that IPL phase one is complete. All of the following are probable cause of the problem EXCEPT:

- A. A missing default shell, /in/sh
- B. A problem reading or executing /etc/inittab
- C. A problem reading or executing /usr/bin/odmget
- D. A space shortage on /dev/hd4, /dev/hd3, ro /dev/hd2

Answer: C

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**QUESTION 54:**

In order to change the system runlevel and execute /etc/inittab entries based on the new runlevel, which of the following commands should be performed?

- A. telinit
- B. runinit
- C. sysinit
- D. startinit

Answer: A

---

**QUESTION 55:**

During a system administrator attempt to boot a server in normal mode, the boot process displays LED 299 and Led 201 and then stops. The LED 201 indicates that a ROS init or checkstop was detected. Which of the following options is the most probable cause?

- A. A corrupted JFS log device
- B. A corrupted boot logical volume
- C. An incorrect rc.boot entry in /etc/inittab file
- D. A problem initializing paging space

Answer: B

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**QUESTION 56:**

Which of the following actions will occur once the reorgvg command is used?

- A. The allocation policy for each logical volume will be set.
- B. The given allocation policy for each logical volume will be adhered to.
- C. Each logical volume's physical partitions will be moved to another volume group.
- D. Each logical volume's physical partitions will be moved to match its allocation policy, if there is sufficient space.

Answer: D

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**QUESTION 57:**

A system administrator is preparing to run a preservation install and would like to use and hdisk that was no longer needed in datavg. Which of the following processes should be used to make it available for configuration?

- A. chdeb -l hdiskxxx -a pv=clear; chdev -l hdiskxx -a pv=yes
- B. exportvg datavg; importvg -y rootvg hdiskxx
- C. rmdev -l hdiskxxx; mkdev -l hdiskxxx -a pv=avail
- D. reducevg datavg hdiskxxx; extendvg rootvg hdiskxxx

Answer: D

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**QUESTION 58:**

During a system administrator's attempt to boot the company's server in normal mode, the system displays a LED 551 and stops. The LED 551 indicates that the root volume group is being varied on. Which of the following options is the most probable cause?

- A. The bootlist file is corrupted.
- B. The JFS log device is corrupted.
- C. The /etc/inittab file cannot be read or executed.
- D. Incorrect permissions on /etc/environment or /etc/profile have occurred.

Answer: B

---

**QUESTION 59:**

If a restore from a NIM mksysb install hung on C54, which debug output would be best to investigate the problem?

- A. export INST\_DEBUG =yes
- B. bosboot -aID -d /dev/ipldevic
- C. nim - to check -a debug =yes <spot>
- D. type 911 at -Welcome to BOS install- menu

Answer: D

---

**QUESTION 60:**

A system administrator has just migrated a system from AIX V.4 x to Aix V5.x. The system is up and running and appears to be functioning properly. The following error message was received when running lppchk -v

bos.rte V =4 R is >4

bos.rte V>5

bos.rte not installed.....5.1.0

lspp -l | grep bos.rte shows 5.1.0 Which of the following options is the most likely solution to this problem?

- A. bos.rte is corrupted and needs to be reinstalled.
- B. The system administration needs to reboot the system.
- C. The /root part of bos.rte was installed but not the user part. Reinstall the missing software.
- D. The update CD needs to be applied with the smitty update\_all command.

Answer: B

---

**QUESTION 61:**

During an attempt to mount filesystems on the datavg volume group, the following error message occurs: "0506-323 Cannot get information about log device loglv00." The error is due to the fact that the jfslog used by these filesystems is located on a bad disk. Which of the following procedures should be performed to fix the error?

- A. Run fsck on all filesystems using loglv00
- B. Run the logform command against loglv00
- C. Recreate the filesystems and resotre form a backup
- D. Create a enw jfslog and change /etc/filesystems to point to this log

Answer: D

---

**QUESTION 62:**

A system administrator boots a server in normal mode, the boot process displays and LED 551 and stops. LED 551 indicates the root volume group is being varied on. All of the following are probable causes of the problem EXCEPT:

- A. The bosboot command failed to complete.
- B. The JFS log device is corrupted.
- C. The initttab file is corrupted.
- D. The /dev entries or /etc files are missing.

Answer: C

---

**QUESTION 63:**

In a three-disk volume group, a disk was physically removed from the system without performing any software procedures to properly remove the disk. Which of the following commands should be performed to recover from this error?

- A. extendvg
- B. cfgmgr
- C. reducevg
- D. varyoffvg

Answer: C

---

**QUESTION 64:**

After a successful system recovery, it is determined that the C compiler is not required and should be removed. Which of the following commands will remove the fileset vac.C and all of its dependents?

- A. remove -u -g vac.C
- B. installp -u -g vac.C
- C. lspp -l | grep vac.C
- D. installp -u -g -p vac.C

Answer: B

---

**QUESTION 65:**

The system administrator has created a mksysb to attempt to clone to another system. Which of the following considerations is NOT true?

- A. When using a mksysb to clone a system that has had device driver updates applied, the target system does not need to be updated with device driver Updates to match the source systems level, as the mksysb will have the needed drivers.
- B. CHRP architecture systems cloned from non-CHRP architecture systems with Updates applied may fail to boot due to incompatibilities between the updated kernel in the mksysb image and the base level devices.chrp.base.rte fileset installed during the cloning process.

C. If the source and target system kernels are different (for example, rs6k and rspc), one MUST boot from CD-ROM installation media, at the same operating system level as the mksysb being restored.

D. The RECOVER\_DEVCIES option allows the choice to recover the customized ODM attributes from the mksysb (for example, network addressing, static routes, tty settings, and multi-port adapter cards). The target devices must be in the same location as the source machine, or the install will fail and the device will not be defined.

Answer: A

---

#### **QUESTION 66:**

A file on the system has been lost, but the latest version is on a mksysb tape. The file is extracted from this mksysb tape by loading the tape. Which of the following indicates where the tape will be skipped forward?

- A. Third image, and restoring the file with the tar command
- B. Third image, and restoring the file with the dd command
- C. Fourth image, and restoring the file with the restore command
- D. Fourth image followed by the tar command

Answer: C

---

#### **QUESTION 67:**

Which of the following options will show all of the fixes installed on a system?

- A. lspp -L
- B. smitty verify\_install
- C. installp -a -V
- D. smit install\_latest

Answer: A

---

#### **QUESTION 68:**

There is the possibility that hdisk1 in the root volume group is going bad. A decision has been made to replace the disk. After saving all of the data from the disk and unmounting any filesystems on the disk, which of the following commands should be run before removing the disk from the system?

- A. chgv -a n hdisk rootvg; rmdev -l hdisk1 -d
- B. rmdev -l hdisk1 -d; reducevg -df rootvg hdisk1
- C. reducevg -df rootvg hdisk1; rmdev -l hdisk1 -d
- D. reducevg -df rootvg hdisk1; rmdev -l hdisk1

Answer: C

---

**QUESTION 69:**

Which of the following sequence of command extracts the tenth image form a tape in tape device rmt1?

- A. tet1 -f /dev/rmt1.0 fsf 9; tar -xv file 10
- B. tet1 -f /dev/rmt1.1 fsf 10; tar -xv file 10
- C. tet1 -f /dev/rmt1.1 fsf 9; dd if = /dev/rmt1.1 of=file 10
- D. tet1 -f /dev/rmt1.0 fsf 9; dd if =file10 of /dev/rmt1.0

Answer: C

---

**QUESTION 70:**

Which of the following commands should be run to verify that file system /data is not corrupted?

- A. fsck /dta
- B. fsck datavg
- C. lqueryvg datavg
- D. stat /data

Answer: A

---

**QUESTION 71:**

The following actions can be taken to remove a fileset EXCEPT.

- A. Removing a fileset update leaving the base fileset
- B. Removing a base fileset in the BROKEN state
- C. Removing a base fileset in the COMMITTED state and all fileset updates in the APPLIED stat
- D. Removing a base fileset in the COMMITTED state and all fileset updates in the COMMITTED state

Answer: A

---

**QUESTION 72:**

Which of the following is the smallest separately installable unit on an AIX system?

- A. File
- B. Fileset

- C. Bundle
- D. Licensed program product

Answer: B

---

**QUESTION 73:**

A base operating system has just been installed, successfully rebooted, and the user is now logged in as root. The user wants the server software bundle installed, but has additional software that must be installed with the bundle. Which of the following procedures should be performed to complete the installation?

- A. Add the software to /usr/sys/inst.images
- B. Update the bundle file in /usr/sys/inst.images
- C. Install the bundle filelists and run update all
- D. Add the software to the bundle file in /usr/sys/inst.data/sys\_bundles

Answer: D

---

**QUESTION 74:**

During the boot process, which of the following files should be used to control system initialization and start daemons and subsystems?

- A. /etc/inittab
- B. /etc/rc.boot
- C. /etc/services
- D. /etc/environment

Answer: A

---

**QUESTION 75:**

All of the following logical volumes are associated with a standard AIX journaled file system (JFS) EXCEPT:

- A. /dev/hd2
- B. /dev/hd4
- C. /dev/hd6
- D. /dev/hd9var

Answer: C

---

**QUESTION 76:**

Certkiller .com has a remote data center with servers connected to a local datacenter



through a high-speed network. Which of the following methods is the most convenient to use to install and upgrade the servers in the remote center using locally managed install images?

- A. NIM
- B. HAGEO/HACMP
- C. NFS
- D. ftp, rsh and rexec

Answer: A

---

**QUESTION 77:**

After updating the system, the system administrator runs the lppchk-v command. During this process, the bos.rte.libc is in a broken state. Which of the following procedures should be performed to fix this problem?

- A. Reinstall the system
- B. Use installp -r to reject the broken fileset
- C. Use installp -acgFXd to reinstall the fileset at the same level
- D. Use install -u to remove this broken fileset and reinstall it again

Answer: C

---

**QUESTION 78:**

Which of the following procedures correctly lists the prerequisite software that requires installation with an AIX licensed program product?

- A. Use the lppdiff command to list the contents
- B. Use the installp -Q command to list the contents
- C. Choose the SMIT option to Preview Install Only
- D. Choose the SMIT option to list dependents of a software product

Answer: C

---

**QUESTION 79:**

A system administrator is in the process of performing a preservation installation. However, the machine keeps booting up in diagnostic mode. Which of the following is the most probable cause?

- A. The battery on the machine is bad.
- B. The root volume group is corrupted.
- C. The low-level debugger is not enabled.
- D. There is a problem with the CD-ROM.

Answer: D

---

**QUESTION 80:**

A system administrator has just applied an update to an AIX system to correct a problem. The APAR number is IX49035 and was shipped as part of the PTF number U437542. After applying the APAR fix, the administrator wants to ensure that the fix is applied before informing the system users of the corrected problem. Which of the following commands should the system administrator run to verify that the APAR fix has been applied to the system?

- A. `lspp -f IX49035`
- B. `lspp -fB U437542`
- C. `instfix -f IX49035`
- D. `instfix -ik IX49035`

Answer: D

---

**QUESTION 81:**

A basic TCP/IP configuration on the system has just been completed. A remote system can be pinged by IP address but not by hostname. Which of the following actions should be performed next in an effort to successfully ping using the hostname?

- A. Check routing
- B. Check `inetd.conf`
- C. Check `/etc/resolv.conf`
- D. Check interface with `ifconfig`

Answer: C

---

**QUESTION 82:**

If an install of the latest NFS fixes failed, which of the following options provide debug output before running `installp`?

- A. `export INST_DEBUG=YES`
- B. `nim -t0=o check -a debug =yes <client>`
- C. type 911 at "Welcome to BOS install" menu
- D. modify `bosinst.data` file and set the `BOSINST_DEBUG =yes`

Answer: A

---

**QUESTION 83:**

All of the following are attributes that can be specified when creating a logical volume EXCEPT:

- A. Number of logical partitions
- B. Disk where logical volume will reside
- C. Size of the logical volume control block
- D. Position of the logical volume on the disk

Answer: C

---

**QUESTION 84:**

Which of the following is an optional NIM resource for a diskless client?

- A. root
- B. spot
- C. home
- D. paging

Answer: C

---

**QUESTION 85:**

New AIX systems arrive without a CDROM drive. All systems do not have the system hardware configuration. Which of the following options is the most appropriate way to install AIX on the systems?

- A. Install CDROM drives or tape drives on the systems because that is the only way to install AIX.
- B. Install one system. Take a mksysb from the first system and restore the mksysb to the remaining systems.
- C. Install one system. Mirror rootvg onto a disk from each of the remaining systems.
- D. Setup and NIM master and resources.

Answer: D

---

**QUESTION 86:**

Which of the following statements is not correct about mirroring?

- A. Mirroring, with the write-verify option turned on, can be used to increase performance.
- B. Mirroring is a better choice than disk-striping, for large sequential-access file system when one is looking for performance.

- C. Mirroring, with a parallel-scheduling policy, may improve I/O read-operation performance.
- D. Mirroring, with maximum inter-disk allocation policy, is used to enhance availability.

Answer: C

---

**QUESTION 87:**

Which of the following attributes should be specified when creating a volume group?

- A. stripe size
- B. allocation policy
- C. physical partition size
- D. number of logical partitions

Answer: C

---

**QUESTION 88:**

A system administrator has added a new graphics card to the system and rebooted. The system pauses with C31 in the three-digit displays. Which of the following causes could be the reason for the hang?

- A. All filesets for CDE have not been loaded. Boot into maintenance mode and load them through SMIT.
- B. There is a missing device driver, incorrect console configuration, or a serial device plugged into native S1 port.
- C. The new graphics adapter card is marked defined, not available. Run `smit cfgmgr` (Install/Configure Devices Added After IPL with the INPUT device /directory for software set to none). This will reconfigure all devices by walking the bus.
- D. The LED C31 means that there is a corrupted /dev/hd5. Boot into maintenance mode, `fsck /dev/hd5` and then issue the `bosboot` command.

Answer: B

---

**QUESTION 89:**

All of the following statements accurately describe process for administering file systems EXCEPT:

- A. A logical volume must exist prior to running the `crfs` command to create a file system
- B. A file system must be unmounted before it can be removed
- C. Defining a file system imposes a structure on a logical volume
- D. Removing a file system using `rmfs` automatically removes the underlying logical volume

Answer: A

---

**QUESTION 90:**

During an AIX installation, which of the following actions will occur once the Complete Overwrite option is selected?

- A. All new disks in the system will be formatted
- B. Only the contents of the root volume group destination disks will be destroyed
- C. All file systems, including /(root), /tmp, /usr, and /var, but no usr data in the root volume group, will be destroyed
- D. The contents of all disks on the system, even if they are not shown as the destination root volume group disks, will be destroyed

Answer: B

---

**QUESTION 91:**

Users are complaining of slow performance. The iostat command indicates hdiskxxx is extremely busy. There is no activity on any other hdisks in the same volume group. Which of the following is the best action to take?

- A. Change intra policy to outer
- B. Change intra policy to center
- C. Change inter policy to maximum
- D. Increase the physical partition size

Answer: C

---

**QUESTION 92:**

A software update was installed using the Apply option, however the update is no longer required. Which of the following procedures should be performed to remove the update?

- A. Use the Reject option
- B. Delete the update from the /usr/lpp directories
- C. Use the Force Overwrite option to re-install the earlier version
- D. Commit the update and then remove the updated product filesets using SMIT

Answer: A

---

**QUESTION 93:**

A system administrator has an existing NIM environment with a master and four

clients all on an Ethernet network. The administrator adds three servers to the NIM environment that are on token ring networks. What does the administrator have to do to support network booting of the new machines?

- A. `nim -o check <spot>`
- B. `nim -o lppchk <spot>`
- C. `nim -o refresh <spot>`
- D. `nim -F -o check <spot>`

Answer: D

---

**QUESTION 94:**

CDE is working. However, the customized PATH environment has not been implemented. Which of the following procedures should be performed to activate the implementation?

- A. Update the `.kshrc` file
- B. Edit `$HOME/.dtprofile`, and uncomment the `DTSOURCEPROFILE=true`
- C. Copy `/etc/.profile` `$HOME/.dtprofile` and edit the file as needed
- D. Double click on the System Administration icon and select CDE profile

Answer: B

---

**QUESTION 95:**

After creating a `mksysb`, what is the most important procedure that should be followed?

- A. List the files and verify it is bootable
- B. Make sure it is labeled and store it in a safe place.
- C. Make sure it is write-protected and labeled.
- D. Look at the output of the `mksysb` command to verify it completed successfully.

Answer: A

---

**QUESTION 96:**

A system administrator has an existing `mksysb` image, but would like to modify the `image.data` file on the `mksysb` before installing it on a system. Which of the following procedures is most appropriate to perform?

- A. Create a new `image.data` file and recreate the `mksysb` image.
- B. Use the `dd` command to replace the `image.data` file on the `mksysb` tape.
- C. Use the `tctl` command to place the new `image.data` file on the `mksysb` tape.
- D. Place the new `image.data` file on a diskette that will be read during the installation of

the mksysb.

Answer: A

Explanation:

See Redbook sg24-6183 chapter 6 section 6.1.2. on page 155. "The mkszfile command generates the image.data file. You can customize the file before using the mksysb command."

---

**QUESTION 97:**

An AIX system has a rootvg plus a separate volume group for database application. Which of the following commands are used to backup the entire system?

- A. smitty mksysb (select additional volume group)
- B. mkszfile && mksysb /dev/rmt0
- C. smitty mksysb AND smitty savevg
- D. smitty savevg (select additional volume group)

Answer: C

---

**QUESTION 98:**

A developer has asked if the file named agecheck.c was included in the latest mksysb tape made on the server, but does not recall the full pathname. Which of the following sequence of commands should be used to help answer this question?

- A. tetl -f /dev/rmt0 fsf 2; restore -xqvf /dev/rmt0 | grep agecheck.c
- B. tetl -f /dev/rmt0.1 fsf 2; restore -Tvf /dev/rmt0 | find -name agecheck.c
- C. tetl -f /dev/rmt0 fsf 3; restore -xvf /dev/rmt0 ; find / -name agecheck.c
- D. tetl -f /dev/rmt0.1 fsf 3; restore -Tqvf /dev/rmt0.1 | grep agecheck.c

Answer: D

---

**QUESTION 99:**

Before performing a mksysb system backup, which of the following procedures should a system administrator perform to avoid backing up certain user files?

- A. Add the list of files to /etc/exclude.rootvg.
- B. Modify the image.data file and add the files to be excluded from the backup.
- C. Modify the bosinst.data file and specify which files are to be excluded from the backup.
- D. Specify the files to be excluded on the command line when executing the mksysb command.

Answer: B

Explanation:

See Redbook SG24-7199 Chapter 10 section 10.1.2 on p 463 "you want to exclude some data filesystems from the system, you need to edit the /etc/exclude.rootvg file.

---

**QUESTION 100:**

A system administrator has backed up the datavg volume group using the savevg command. There are several raw logical volumes and some unmounted jfs filesystems in datavg. Which of the following statements is true about this backup?

- A. The volume group and all logical volumes will be recreated. All raw and jfs filesystems will be backed up and restored.
- B. This backup will be bootable and the volume group and all jfs logical volumes will be recreated.
- C. This backup will not be bootable and the restorevg command is used to restore only the mounted and non-raw logical volumes. It will not recreate any logical volumes that are raw or unmounted.
- D. The volume group and all logical volumes information is archived and will be recreated. The raw and unmounted filesystems will not be backed up and therefore not restored.

Answer: D