# Topic 102: (12) Linux Installation and Package Management

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**Question: 24**

102.2 Install a boot manager

After modifying GNU GRUB's configuration file, which command must be run for the changes to take

effect?

A. kill -HUP $(pidof grub)

B. grub-install

C . gr ub

D. No action is required

**Answer: D**

**Question: 25**

102.4 Use Debian package management

Which of the following commands is used to update the list of available packages when using dpkg

based package management?

A. apt-get update

B. apt-get upgrade

C. apt-cache update

D. apt-get refresh

E. apt-cache upgrade

**Answer: A**

**Question: 26**

102.4 Use Debian package management

Which of the following commands lists the dependencies of a given dpkg package?

A. apt-cache depends-onpackage

B. apt-cache dependencies package

C. apt-cache depends package

D. apt-cache requires package

**Answer: C**

**Question: 27**

102.2 Install a boot manager

Which of the following options is used in a GRUB Legacy configuration file to define the amount of

time that the GRUB menu will be shown to the user?

A. hide menu

B. splash

C. timeout

D. showmenu

**Answer: C**

**Question: 28**

102.1 Design hard disk layout

What can the Logical Volume Manager (LVM) be used for? (Choose THREE correct answers.)

A. To create RAID 9 arrays.

B. To dynamically change the size of logical volumes.

C. To encrypt logical volumes.

D. To create snapshots.

E. To dynamically create or delete logical volumes.

**Answer: B,D,E**

**Question: 29**

102.3 Manage shared libraries

Which of the following commands updates the linker cache of shared libraries?

A. mkcache

B. soconfig

C. mkldconfig

D. lddconfig

E. ldconfig

**Answer: E**

**Question: 30**

102.5 Use RPM and YUM package management

Which of the following commands lists all currently installed packages when using RPM package

management?

A. yum --query --a l l

B. yum --list --installed

C. rpm --query --a l l

D. rpm --list -installed

**Answer: C**

**Question: 31**

102.5 Use RPM and YUM package management

Which of the following commands can be used to download the RPM package kernel without

installing it?

A. yum download --no-install kernel

B. yumdownloader kernel

C. rpm --download --package kernel

D. rpmdownload kernel

**Answer: B**

**Question: 32**

102.5 Use RPM and YUM package management

When using rpm --verify to check files created during the installation of RPM packages, which of the

following information is taken into consideration? (Choose THREE correct answers.)

A. Timestamps

B. MD5 checksums

C . Inodes

D. File sizes

E. GnuPG signatures

**Answer: A,B,D**

**Question: 33**

102.1 Design hard disk layout

Which of the following is correct when talking about mount points?

A. Every existing directory can be used as a mount point.

B. Only empty directories can be used as a mount point.

C. Directories need to have the SetUID flag set to be used as a mount point.

D. Files within a directory are deleted when the directory is used as a mount point.

**Answer: A**

**Question: 34**

102.6 Linux as a virtualization guest

Which function key is used to start Safe Mode in Windows NT?

A. F10

B . F8

C . F6

D. Windows NT does not support Safe Mode

**Answer: D**

**Question: 35**

102.3 Manage shared libraries

Which of the following environment variables overrides or extends the list of directories holding

shared libraries?

A. LD\_LOAD\_PATH

B. LD\_LIB\_PATH

C. LD\_LIBRARY\_PATH

D. LD\_SHARE\_PATH

E. LD\_RUN\_PATH

**Answer: C**

**Question: 36**

102.1 Design hard disk layout

Which world-writable directory should be placed on a separate partition in order to prevent users

from being able to fill up the / filesystem? (Specify the full path to the directory.)

**Answer: /tmp, tmp,/var/tmp, /tmp/, /var/tmp/**

**Question: 37**

102.5 Use RPM and YUM package management

Which RPM command will output the name of the package which supplied the file /etc/exports?

A. rpm -F /etc/exports

B. rpm -qf /etc/exports

C. rpm -Kl /etc/exports

D. rpm -qp /etc/exports

E. rpm -qi/etc/exports

**Answer: B**

**Question: 38**

102.5 Use RPM and YUM package management

In which directory must definition files be placed to add additional repositories to yum?

**Answer: /etc/yum.repos.d, /etc/yum.repos.d/, yum.repos.d, yum.repos.d/**

**Question: 39**

102.2 Install a boot manager

What is the name of the main configuration file for GNU GRUB? (Specify the file name only without

any path.)

**Answer: menu.lst, grub.conf, grub.cfg**

**Question: 40**

102.4 Use Debian package management

When removing a package, which of the following dpkg options will completely remove the files

including configuration files?

A. --clean

B. --delete

C. --purge

D. -remove

**Answer: C**

**Question: 41**

102.4 Use Debian package management

Which file should be edited to select the network locations from which Debian installation package

files are loaded?

A. /etc/dpkg/dpkg.cfg

B. /etc/apt/apt.conf

C. /etc/apt/apt.conf.d

D. /etc/apt/sources.list

E. /etc/dpkg/dselect.cfg

**Answer: D**

**Question: 42**

102.5 Use RPM and YUM package management

Which option to the yum command will update the entire system? (Specify ONLY the option name

without any additional parameters.)

**Answer: update, upgrade**

**Question: 43**

102.1 Design hard disk layout

Which command will disable swapping on a device? (Specify ONLY the command without any path or

parameters.)

**Answer: swapoff, /sbin/swapoff**

**Question: 44**

102.4 Use Debian package management

Which Debian package management tool asks the configuration questions for a specific already installed package just as if the package were being installed for the first time? (Specify ONLY the

command without any path or parameters.)

**Answer: dpkg-reconfigure**

**Question: 45**

102.2 Install a boot manager

Which of the following commands overwrites the bootloader located on /dev/sda without

overwriting the partition table or any data following it?

A. dd if=/dev/zero of=/dev/sda bs=512

B. dd if=/dev/zero of=/dev/sda bs=512 count=1

C. dd if=/dev/zero of=/dev/sda bs=440 count=1

D. dd if=/dev/zero of=/dev/sda bs=440

**Answer: C**

**Question: 46**

102.4 Use Debian package management

Which of the following commands can be used to perform a full text search on all available packages

on a Debian system?

A . a pt

B. apt-cache

C. apt-get

D. apt-search

E . dpkg

**Answer: B**

**Question: 47**

102.3 Manage shared libraries

To what environment variable will you assign or append a value if you need to tell the dynamic linker

to look in a build directory for some of a program's shared libraries?

A. LD\_LOAD\_PATH

B. LD\_LIB\_PATH

C. LD\_LIBRARY\_PATH

D. LD\_SHARE\_PATH

E. LD\_RUN\_PATH

**Answer: C**

**Question: 48**

102.1 Design hard disk layout

To prevent users from being able to fill up the / partition, the \_\_\_\_\_\_\_\_\_\_\_\_ directory should be on a separate partition if possible because it is world writeable.

**Answer: /tmp, tmp**

**Question: 50**

102.4 Use Debian package management

The dpkg-\_\_\_\_ command will ask configuration questions for a specified package, just as if the package were being installed for the first time.

**Answer: reconfigure**

**Question: 51**

102.4 Use Debian package management

Which of the following apt-get commands will install the newest versions of all currently installed

packages without removing any packages or installing new packages that are not already installed?

A. auto-update

B. upgrade

C. dist-upgrade

D. install

E. update

**Answer: B**

**Question: 52**

102.4 Use Debian package management

What is the difference between the --remove and the --purge action with the dpkg command?

A. --remove removes the program, --purge also removes the config files

B. --remove only removes the program, --purge only removes the config files

C. --remove removes a package, --purge also removes all packages dependent on it

D. --remove removes only the package file itself, --purge removes all files related to the package

**Answer: A**

**Question: 53**

102.5 Use RPM and YUM package management

You want to preview where the package file, apache-xml.i386.rpm, will install its files before

installing it. What command do you issue?

A. rpm -qp apache-xml.i386.rpm

B. rpm -qv apache-xml.i386.rpm

C. rpm -ql apache-xml.i386.rpm

D. rpm -qpl apache-xml.i386.rpm

**Answer: D**

**Question: 54**

102.1 Design hard disk layout

Typically, which top level system directory is used for files and data that change regularly while the

system is running and are to be kept between reboots? (Specify only the top level directory)

**Answer: /var, /var/, var, var/**

**Question: 168**

102.2 Install a boot manager

What does the command grub-install /dev/sda do?

A. GRUB creates partitions on the device/dev/sdato be used with Linux.

B. GRUB sets the default BIOS boot device to/dev/sda.

C. GRUB installs all required files and configures the boot loader on device/dev/sda.

D. GRUB recompiles the Linux Kernel and installs it on the Master Boot Record of device/dev/sda.

**Answer: C**

**Question: 168**

102.2 Install a boot manager

What does the command grub-install /dev/sda do?

A. GRUB creates partitions on the device/dev/sdato be used with Linux.

B. GRUB sets the default BIOS boot device to/dev/sda.

C. GRUB installs all required files and configures the boot loader on device/dev/sda.

D. GRUB recompiles the Linux Kernel and installs it on the Master Boot Record of device/dev/sda.

**Answer: C**

**Question: 169**

102.2 Install a boot manager

Which of the following statements describes a difference between GNU GRUB Legacy and GRUB 2?

A. GRUB 2 no longer requires a configuration file.

B. Partition numbers start at 0 in GRUB Legacy and1in GRUB 2.

C. grub-mkconfigonly works with GRUB Legacy if the--version 1option is used.

D. The configuration filemenu.lst(andgrub.conf) have been replaced withgrub.config.

**Answer: B**

**Question: 170**

102.5 Use RPM and YUM package management

Which of the following commands updates the already installed RPM package rpm name?

A. rpm --update rpmname

B. rpm - U rpmname

C. rpm - q rpmname

D. rpm --force rpmname

E . rpm - u rpmname

**Answer: B**

**Question: 171**

102.1 Design hard disk layout

Which of the following partition types is used for Linux swap spaces when partitioning hard disk

drives ?

A. 82

B. 83

C. 8e

D. fd

E. 7

**Answer: A**

**Question: 172**

102.5 Use RPM and YUM package management

Which of the following commands prints a list of available package updates when using RPM-based

package management?

A. dpkg list

B. yum list

C. dpkg check-update

D. yum check-update

E. yum list-update

**Answer: D**

**Question: 173**

102.1 Design hard disk layout

When planning a partition scheme, which of the following directories could be considered for

separate partitions? (Choose three.)

A. /etc

B. /home

C. /var

D. /lib

E. /opt

**Answer: B,C**

**Question: 174**

102.1 Design hard disk layout

How can the list of files that would be installed by the RPM package file apache-xml.rpm be

previewed?

A. rpm -qp apache-xml.rpm

B. rpm -qv apache-xml.rpm

C. rpm -ql apache-xml.rpm

D. rpm -qpl apache-xml.rpm

**Answer: D**

**Question: 175**

102.4 Use Debian package management

Which command will uninstall a package but leave its configuration files in case the package is re-

installed?

A. dpk g - s pkgname

B. dpk g - L pkgname

C. dpk g - P pkgname

D. dpkg -r pkgname

**Answer: D**

**Question: 176**

102.4 Use Debian package management

Which command is used to query information about the available packages on a Debian system?

A. apt-cache

B. apt-get

C. apt-search

D. dpkg

E. dpkg-search

**Answer: A**

**Question: 177**

102.3 Manage shared libraries

Which command shows all shared libraries required by a binary executable or another shared

library? (Specify ONLY the command without any path or parameters.)

**Answer: ldd**

**Question: 178**

102.4 Use Debian package management

Which of the following apt-get commands will install the newest versions of all currently installed

packages?

A. auto-update

B. full-upgrade

C. dist-upgrade

D. install

E. update

**Answer: C**

**Question: 217**

102.4 Use Debian package management

A Debian package creates several files during its installation. Which of the following commands

searches for packages owning the file /etc/debian\_version?

A. apt-get search /etc/debian\_version

B. apt -r /etc/debian\_version

C. find /etc/debian\_version -dpkg

D. dpkg -S /etc/debian\_version

E. apt-file /etc/debian\_version

**Answer: C**

**Question: 218**

102.1 Design hard disk layout

What is contained on the EFI System Partition?

A. The Linux root file system

B. The first stage boot loader

C. The default swap space file

D. The Linux default shell binaries

E. The user home directories

**Answer: B**

**Question: 219**

102.3 Manage shared libraries

Which of the following directories on a 64 bit Linux system typically contain shared libraries? (Choose

two.)

A. ~/.lib64/

B. /usr/lib64/

C. /var/lib64/

D. /lib64/

E. /opt/lib64/

**Answer: A,D**

**Question: 220**

102.2 Install a boot manager

Which of the following files exist in a standard GRUB 2 installation? (Choose two.)

A. /boot/grub/stages/stage0

B. /boot/grub/i386-pc/1vm.mod

C. /boot/grub/fstab

D. /boot/grub/grub.cfg

E. /boot/grub/linux/vmlinuz

**Answer: B,D**

**Question: 221**

102.5 Use RPM and YUM package management

Which of the following commands installs all packages with a name ending with the string foo?

A. zypper get "\*foo"

B. zypper update "foo?"

C. zypper force "foo\*"

D. zypper install "\*foo"

E. zypper add ".\*foo"

**Answer: D**

**Question: 222**

102.6 Linux as a virtualization guest

Which of the following properties of a Linux system should be changed when a virtual machine is

cloned? (Choose two.)

A. The partitioning scheme

B. The file system

C. The D-Bus Machine ID

D. The permissions of /root/

E. The SSH host keys

**Answer: D,E**

**Question: 223**

102.2 Install a boot manager

Which of the following commands installs GRUB 2 into the master boot record on the third hard disk?

A. grub2 install /dev/sdc

B. grub-mkrescue /dev/sdc

C. grub-mbrinstall /dev/sdc

D. grub-setup /dev/sdc

E. grub-install /dev/sdc

**Answer: E**