Exam Report: 6.4.4 Practic	ce Questions	
Date: 4/17/2020 11:22:29 Time Spent: 8:20		Candidate: Garsteck, Matthew Login: mGarsteck
Overall Performance		
Your Score: 11%		
		Passing Score: 80%
View results by: Object	ctive Analysis Individu	nal Responses
Individual Responses		
▼ Question 1:	<u>Incorrect</u>	
Which of the following	, situations is most likely to c	ause a dependency problem?
Several applic	cations using the /usr/lib/bigl	ib library.
Upgrading the	e library /usr/lib/biglib from	version 1.4 to version 1.6.
→ ○ Installing two	different packages that both	include /usr/lib/graphlib.
Upgrading the	e kernel from 2.4.6 to 2.4.12.	
Explanation		
Installing two different versions.	packages that include the sai	me library introduces the possibility of conflicting
	cause conflicts. Upgrading tl	not a problem. Several applications using the same he kernel and staying within the same minor revision
References		
Linux Pro - 6.4 Shared I [e_lib_lp5.exam.xml Q_	Libraries _SHAREDLIB_LP5_01]	
▼ Question 2:	<u>Incorrect</u>	
Which if the following	directories typically hold the	dynamic libraries on your system? (Select TWO).
/usr/lib/		
/lib/ld.so/		
/etc/ld.so.conf	f/	
/usr/local/lib/		
Explanation	unically stored in /yen/lib/ on	d /ucr/local/lib/ Dynamic libraries are not integrated
Dynamic moraries are ty	ypicany stored in /usr/iib/ an	d /usr/local/lib/. Dynamic libraries are not integrated

into the code of the application.

/lib/ld.so is a program (not a directory) that finds and loads the shared libraries needed by a program. /etc/ld.so.conf contains a colon-, space-, tab-, newline-, or comma-delimited list of directories in which to search for libraries.

References

Linux Pro - 6.4 Shared Libraries [e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_02]

Question 3: Incorrect

Match the term on the left with its characteristic on the right. (Each term can be used more than once.)

Has a .so or .so.version extension.

Static Library Dynamic Library

Increases the size of the application.



Has a .a filename extension.

Dynamic Library Static Library

Is typically stored in /usr/lib/ and /usr/local/lib/.



Can degrade program load time if the library is already in use by another program.



Explanation

Dynamic libraries are not integrated into the code of the application. Dynamic libraries:

- Have a .so or .so.version extension (.so stands for shared object).
- Are typically stored in /usr/lib/ and /usr/local/lib/.
- Can degrade program load time if the library isn't already in use by another program.
- Are similar to Dynamic Link Libraries (DLLs) in

Windows.

Static libraries are integrated into the code of the application when the code is compiled. Static Libraries:

- Have a .afilename extension.
- Are used when dynamic libraries are not available.
- Increase the size of the application.

References

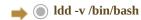
Linux Pro - 6.4 Shared Libraries [e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_03]



Correct

Which of the following commands displays all of the shared library information for the /bin/bashexecutable?

Idd /bin/bash



ldconfig -N /bin/bash

Idconfig -p /bin/bash

Explanation

ldd -v /bin/bash displays all of the shared library information for the /bin/bash executable. The **ldd** command displays which libraries are used by another library. Be aware of the following **ldd** options:

- -v displays all information.
- --version displays the version number of **ldd**.
- -u displays unused direct dependencies.

Idconfig reloads the library cache every time you add or remove libraries and updates the symbolic links. Be aware of the following **ldconfig** options:

- -N updates symbolic links, but does not update the cache.
- -p displays the current library cache, including all the library directories and their respective libraries.

References

Linux Pro - 6.4 Shared Libraries

[e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_04]

▼ Question 5:

Incorrect

Which environment variable specifies additional directories to search for library files not listed in /etc/ld.so.conf?

LD_LIBRARY_PATH

Explanation

Use the LD_LIBRARY_PATH environment variable to specify additional directories to search for library files not listed in /etc/ld.so.conf.

References

Linux Pro - 6.4 Shared Libraries

[e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_05]

Question 6:

Incorrect

What would you enter at the command prompt to display the shared library information for executables?

ldd

Explanation

The **ldd** command displays which libraries are used by another library. Be aware of the following **ldd** options:

- -v displays all information.
- --version displays the version number of ldd.
- -u displays unused direct dependencies.

References

Linux Pro - 6.4 Shared Libraries

[e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_06]

Question 7:

Incorrect

Which of the following commands reloads the libraries for the /bin/bash executable, but does not update the cache?

Idconfig X /bin/bash

Idconfig -N /bin/bash

Idd /bin/bash

ldd -v /bin/bash

Explanation

The **Idconfig** reloads the library cache every time you add or remove libraries and to update the symbolic links. Be aware of the following **ldconfig** options:

- -N updates symbolic links, but does not update the cache.
- -X updates the cache, but does not update symbolic links.

The **ldd** command displays which libraries are used by another library. Be aware of the following **ldd** options:

- -v displays all information.
- --version displays the version number of **ldd**.
- -u displays unused direct dependencies.

References

Linux Pro - 6.4 Shared Libraries

[e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_07]

▼ Question 8:

Incorrect

What would you enter at the command prompt without options to reload the library cache every time libraries are added or removed and update the symbolic links?

ldconfig

Explanation

The **Idconfig** command reloads the library cache every time libraries are added or removed and updates the symbolic links. This creates the necessary links and caches to the most recent shared libraries found in the directories specified on the command line, in the file /etc/ld.so.conf, and in the trusted directories (/lib and /usr/lib). Be aware of the following options:

- -v summarizes the directories and files it is registering as it reloads the cache.
- -N updates symbolic links, but does not update the cache.
- -**n** updates the links contained in the directories specified on the command line.
- -X updates the cache, but does not update symbolic links.
- -f changes the configuration file from the /etc/ld.so.conf default.
- -C changes the cache location for the /etc/ld.so.cachedefault.
- -r treats a new directory as if were the root directory. This is helpful when you are recovering a badly corrupted system or installing a new OS.
- -p displays the current library cache, including all the library directories and their respective libraries.

References

Linux Pro - 6.4 Shared Libraries [e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_08]

▼ Question 9:

Incorrect

Which of the following commands should you use to change the location of the default file used to search for libraries?

Idconfig -f

ldconfig r

ldconfig -p

ldconfig -n

Explanation

Use the **ldconfig** -f command to change the configuration file from the /etc/ld.so.conf default. /etc/ld.so.conf contains a colon-, space-, tab-, newline-, or comma-delimited list of directories in which to search for libraries.

Be aware of the other **ldconfig** options:

- -v summarizes the directories and files it is registering as it reloads the cache.
- -N updates symbolic links, but does not update the cache.
- -n updates the links contained in the directories specified on the command line.
- -X updates the cache, but does not update symbolic links.
- -C changes the cache location for the /etc/ld.so.cache default.
- -r treats a new directory as if were the root directory. This is helpful when you are recovering a badly corrupted system or installing a new OS.
- -p displays the current library cache, including all the library directories and their respective libraries.

References

Linux Pro - 6.4 Shared Libraries [e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_09]

▼ Question 10: **Incorrect**

What is the full path and file name for the file that contains a colon-, space-, tab-, newline-, or commadelimited list of directories in which to search for libraries?

/etc/ld.so.conf

Explanation

/etc/ld.so.conf contains a colon-, space-, tab-, newline-, or comma-delimited list of directories in which to search for libraries. Some lines in the file begin with the **include** directive, which lists files that are to be included as if they were part of the part of the main file.

Use the **ldconfig -f** command to change the configuration file from the default of /etc/ld.so.conf.

References

Linux Pro - 6.4 Shared Libraries [e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_10]

▼ Question 11:

Incorrect

Which of the following methods should you use to configure dynamic libraries on a Linux system? (Select TWO).

- Edit all files with the .a filename extension.
- Modify /etc/ld.so.conf to add the path of the libraries.
- Use the LD_LIBRARY_PATH environment variable to specify additional directories to search for library files.
 - Modify /etc/ld.so.cache to add the path of the libraries.

Explanation

Use the following methods for configuring dynamic libraries on a Linux system:

- Modify /etc/ld.so.conf to add the path of the libraries.
- Use the LD_LIBRARY_PATH environment variable to specify additional directories to search for library files.

/etc/ld.so.cache is a cached list of libraries found in the directories specified in /etc/ld.so.conf. The system uses this cached list instead of loading /etc/ld.so.conf every time a program runs. Static libraries have an .a file name extension and are used when shared libraries are not available.

References

Linux Pro - 6.4 Shared Libraries [e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_11]

▼ Question 12:

<u>Incorrect</u>

A system administrator is configuring a package manager to access packages from a local repository and take advantage of a local repository's transfer speed.

Which of the following commands can be used to pull packages from an online repository? (Select THREE).

	\sim		
_		rsvi	n
	13// 1	10,71	

curl

RDP

export

mv

Explanation

You can populate a local repository by pulling packages from an online repository using the rsync, wget , or curl utilities.

cp will copy files locally accessible.

mv will move or rename files.

export is a command built into the bash shell. It is used to make a variable available to a child process.

RDP is the Remote Desktop Protocol commonly used to remote access a Windows desktop.

References

Linux Pro - 6.4 Shared Libraries [e_lib_lp5.exam.xml Q_SHAREDLIB_LP5_WGET_CURL_RSYNC]