**CIT 352 Chapter 11**

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Complete all Projects by executing every step in each project. For those steps listed below, follow the specified instruction.

Project 11-1

Typos: Every occurrence of “Desktop” should be replaced with “compressed”

Step 22 Fill in the table below

|  |  |  |
| --- | --- | --- |
| **Step** | **Command** | **Compression Ratio** |
| 4 | Compress -v services | 68.20% |
| 11 | Zip -v compressed.zip compressed/\* | 46% |
| 13 | Gzip -v services | 79.3% |
| 15 | Gzip -v -9 services | 79.4% |
| 17 | Gzip -v -1 services | 76.2% |
| 19 | Xz -v -9 services | 100% |
| 21 | Bzip2 -v services | 81.29% |

Project 11-2

Step 7

* Which compression command is used with -z option (in tar)?

-zcvf

Project 11-3

﻿Step 13: Typo: [original] boot.img [corrected] test.img

* Why is the test.img file much larger than the test.dump file?

“.img” file will be the size of the disk itself and not the size of the currently used space.

Project 11-4

Follow the steps below to download, build, and install conky. (Note: The build process will fail if you’d follow the instruction in the textbook on newer releases of Fedora as the development has moved from SourceForge to GitHub. The new build environment use cmake, instead of ./configure command, to verify the existence of libraries needed for the compilation of source code and to generate Makefile)

Step 1 Install necessary packages for building conky

$ sudo dnf groupinstall "Development Tools"

$ sudo dnf install cmake libXdamage-devel imlib2-devel libcurl-devel libXinerama-devel libXft-devel libX11-devel glib2-devel ncurses-devel lua-devel

Step 2 Download conky source code as a zip archive from GitHub

* Open <https://github.com/brndnmtthws/conky> using FireFox
* Select "Download ZIP" under "Code" button

Step 3 Extract files from the zip archive

$ cd Downloads

$ unzip conky-main.zip

$ cd conky-main

Step 4 Build conky

$ mkdir build

$ cd build

$ cmake ..

$ make

*Note: If you get an error "No CMAKE\_CXX\_COMPILER could be found" type the commands below to add a compiler and redo the cmake and make commands.*

$ sudo dnf install gcc-c++

$ cmake ..

$ make

Step 5 Install conky

$ sudo make install

Step 6 Run conky

$ conky

Note: Conky may open behind your graphical terminal window. Move the terminal window off to the side if you can’t see it.

Step 7 Insert the screen capture of conky window

Graphical user interface, text

Description automatically generated

Project 11-5

Step 4

* What license does this package use?

Public Domain

Text

Description automatically generated

Project 11-6

Step 7:

* What other command could you have used to perform the same action?

remove

* What is another way to perform the same action?

apt rm -rf ncompress

**Command Reference** (List all new commands you learned in this chapter)

Ncompress

Compress -v >psfile.z

Gunzip

Xz -v -9 services

Unxz -v services.xz

Bzip2

Bunzip2

Rm -Rf

Rm -f

Cpio

Dump

Restore

Purge

Rpm

aptitude