

CYSE 270: Linux System for Cybersecurity

Assignment: Lab 3 – VI Editor

Goal

- Practice using the vi editor.

Notes:

- Remember the “**modes**” in the vi editor.
- You may use the “**Escape**” key to return to command mode if you get confused and need to start over.

Submission Instructions

- Take **screenshots** for each step you perform and **write down the correct command** corresponding to each step number. Submit this in a **PDF** file.

Task: vi Practice on Kali Linux (20 * 5 = 100 points)

Open the terminal in your VM, then complete the following tasks. Please take the screenshots of all the necessary commands that you execute for each step and submit the screenshots with their step number in a pdf file.

NOTE: You may write the correct vi editor commands, if screenshot is not applicable. Please see the note added to some steps below.

1. Copy the file `/usr/share/doc/zstd/copyright` to your home directory. **Screenshot**



```
lgut@kali: ~  
File Actions Edit View Help  
~(lgut@kali) ~  
-> cp -r /usr/share/doc/zstd/copyright ~/  
~(lgut@kali) ~  
-> |
```


4. Move to **line 15**, then **insert** your MIDAS ID **in the same line** with the following format:

******XXXX****** (replace XXXX with your own MIDAS name). **Screenshot + Write Command.**

Command— **i ****lguti005******



```
File Actions Edit View Help
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.4/
Upstream-Name: zstd
Source: https://github.com/facebook/zstd
Files-Excluded: build/V52000
                build/V52010
                build/V5_scripts
                programs/windres/*
                .bockversion
                .bockconfig
                .circlescl/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
           Przemyslaw Skibinski
           Martin Liska
           MSE
           Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: Starting from 1.3.1 zstd's patent claim is removed
see: https://github.com/facebook/zstd/pull/981

Files: zlibwrapper/examples/*.*
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibwrapper/gz*.c
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

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including commercial applications, and to alter it and redistribute it
-- DESERT --
```

5. Return to the **i** command mode. **Write Command**

Command— **esc**

6. Open a new line **below the current line** using correct command (please refer to slides with the list of commands used in vi editor). **Screenshot + Write Command.**

Command— **o**



```
File Actions Edit View Help
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.3/
Upstream-Name: Zstd
Source: https://github.com/facebook/zstd
Files-Excluded: build/v52008
                build/v52010
                build/v5_scripts
                programs/windres/*
                .backversion
                .backconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
           Przemyslaw Skibinski      ****lguti005****
           Martin Liska
           MSE
           Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: Starting from 1.3.1 zstd's patent claim is removed
see: https://github.com/facebook/zstd/pull/981

Files: zlibwrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibwrapper/gr*.c
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

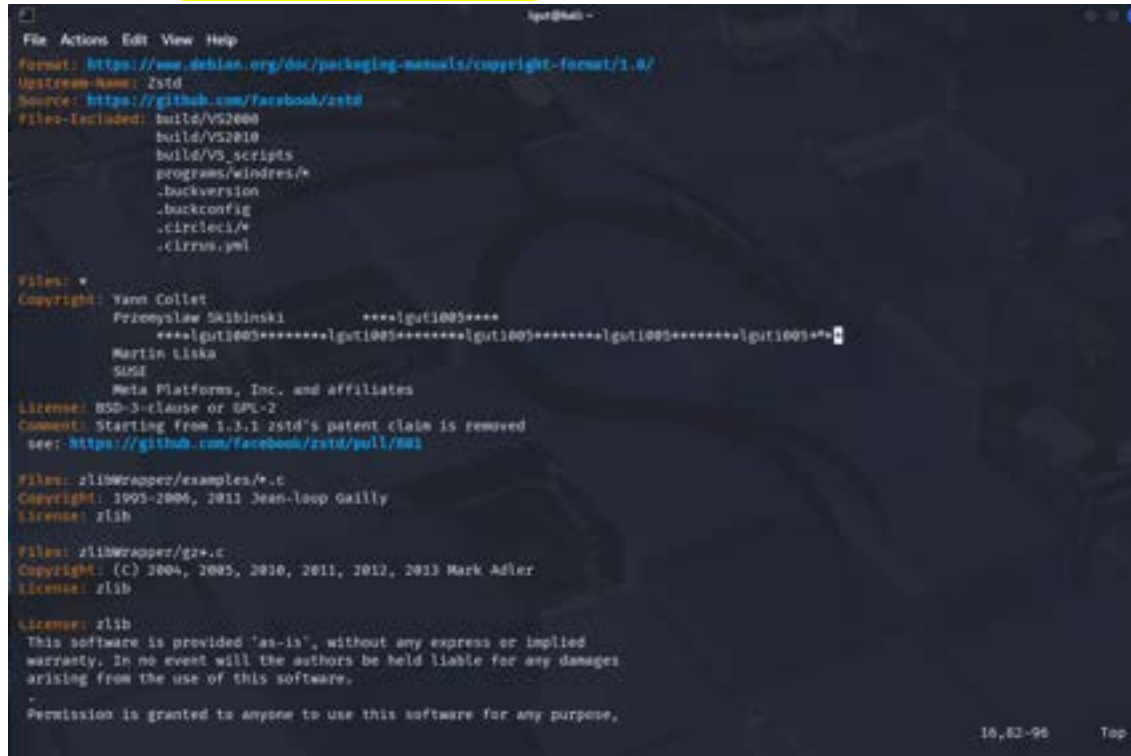
License: zlib
This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
-- INSERT --
```

7. Return to the command mode. **Write Command** Command— **esc**

8. Use command to Insert **“****XXX****”** five times. **Screenshot + Write Command**

Command— **copy line y\$** then paste **p**



```
File Actions Edit View Help
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.4/
Upstream-Name: zstd
Source: https://github.com/facebook/zstd
Files-Included: build/VS2008
                build/VS2010
                build/VS_scripts
                programs/windres/*
                .backversion
                .backronfig
                .circlci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
          Przemyslaw Skibinski      ****lgut1005****
          ****lgut1005*****lgut1005*****lgut1005*****lgut1005*****lgut1005**
          Martin Liska
          SUSE
          Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: Starting from 1.3.1 zstd's patent claim is removed
        see: https://github.com/facebook/zstd/pull/801

Files: zlibWrapper/examples/*.c
Copyright: 1993-2006, 2011 Jean-loup Gailly
License: zlib

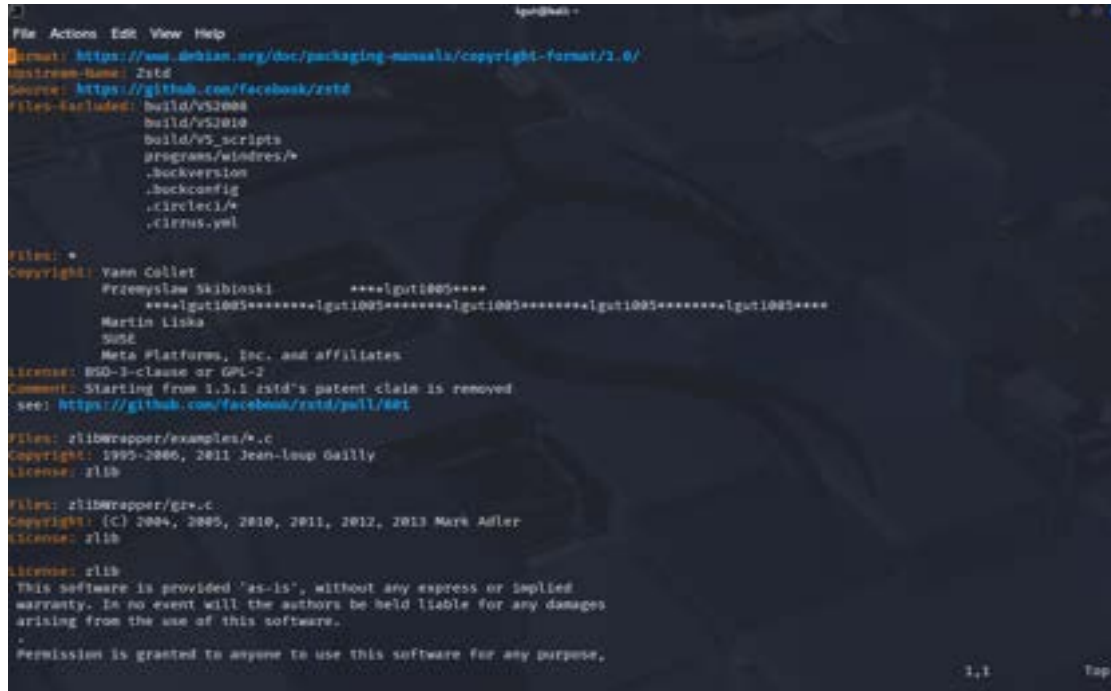
Files: zlibWrapper/gz*.c
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

License: zlib
This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
```

9. Use command to return the **top** of the file. **Screenshot + Write Command**

Command— **H**



```
File Actions Edit View Help
Terminal: https://www.debian.org/doc/packaging-manuals/copyright-format/2.0/
 upstream-name: zstd
 source: https://github.com/facebook/zstd
 files-included: build/v52008
                build/v52010
                build/v5_scripts
                program/windres/*
                .sockversion
                .sockconfig
                .circled1/*
                .circus.yml

files: *
copyright: Yann Collet
          Przemyslaw Skibinski      ****lgut1005****
          ****lgut1005*****lgut1005*****lgut1005*****lgut1005*****lgut1005****
          Martin Liska
          SUSE
          Meta Platforms, Inc. and affiliates
license: BSD-3-clause or GPL-2
comment: Starting from 1.3.1 zstd's patent claim is removed
        see: https://github.com/facebook/zstd/pull/481

files: zlibwrapper/examples/*.c
copyright: 1995-2006, 2011 Jean-loup Gailly
license: zlib

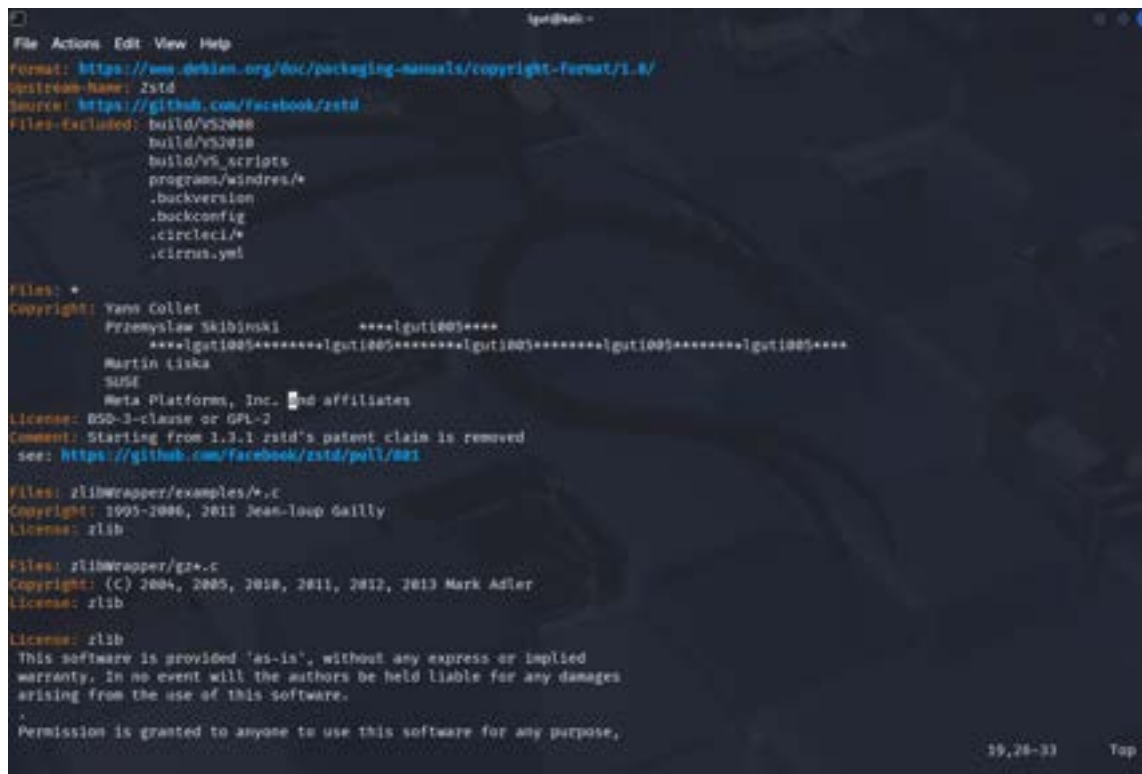
files: zlibwrapper/gz*.c
copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
license: zlib

license: zlib
This software is provided "as-is", without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
```

10. Move forward three sentences. Screenshot + Write Command

Command— 3)



```
lgut@had ~
File Actions Edit View Help
format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.8/
upstream-name: zstd
source: https://github.com/facebook/zstd
files-excluded: build/v32000
                build/v32008
                build/v3_scripts
                program/windres/*
                .backversion
                .backconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
           Przemyslaw Skibinski      ***lgut1005***
           ***lgut1005*****lgut1005*****lgut1005*****lgut1005*****lgut1005***
           Martin Liska
           SUSE
           Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: Starting from 1.3.1 zstd's patent claim is removed
        see: https://github.com/facebook/zstd/pull/881

Files: zstdwrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zstdwrapper/gz*.c
Copyright: (c) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

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19,26-33 Top
```

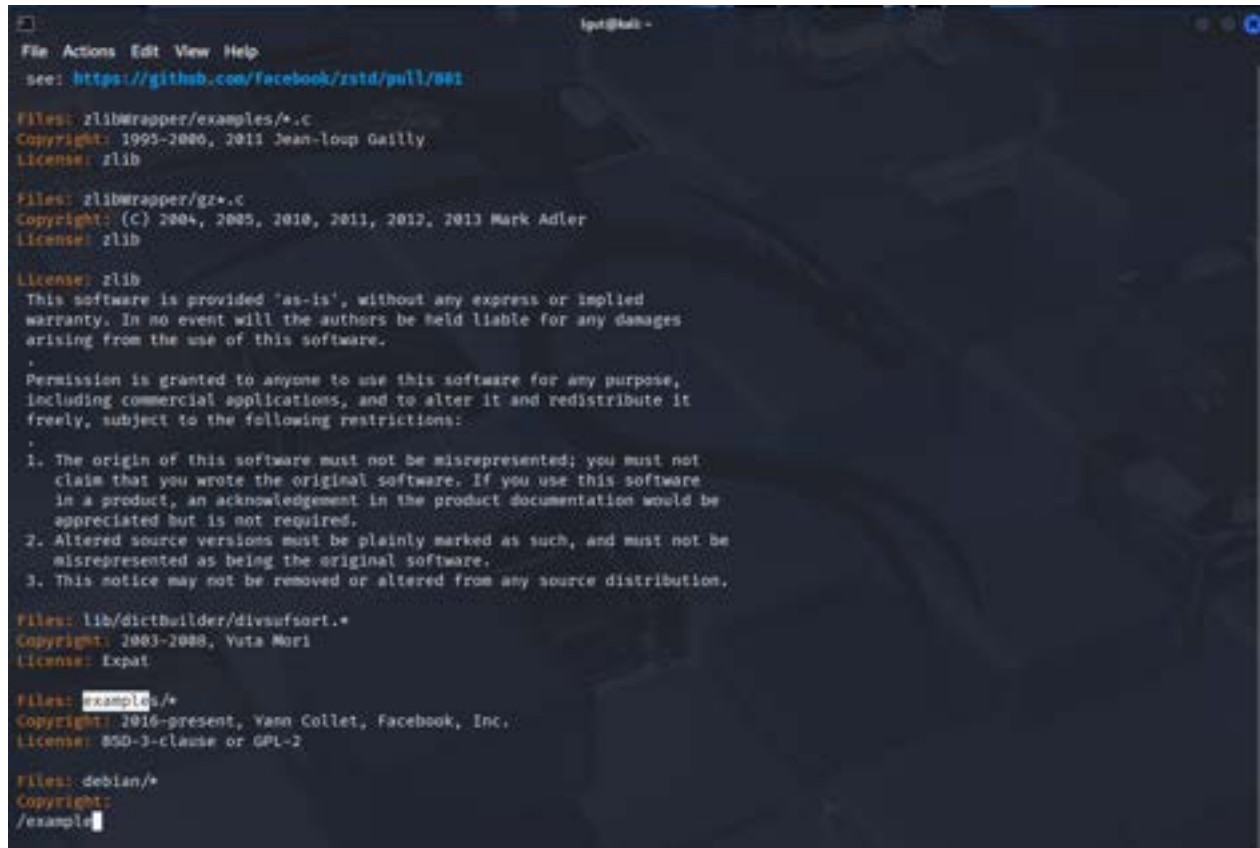
11. Move forward **four words**. **Screenshot + Write Command**
Command— **4w**



```
lput@kali -  
File Actions Edit View Help  
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/  
Upstream-Name: zstd  
Source: https://github.com/facebook/zstd  
Files-Excluded: build/vs2008  
                build/vs2010  
                build/vs_scripts  
                programs/windres/*  
                .buckversion  
                .buckconfig  
                .circleci/*  
                .cirrus.yml  
  
Files: *  
Copyright: Yann Collet  
           Przemyslaw Skibinski      ***lguti005***  
           ****lguti005*****lguti005*****lguti005*****lguti005*****lguti005***  
           Martin Liska  
           SUSE  
           Meta Platforms, Inc. and affiliates  
License:  0-3-clause or GPL-2  
Comment:  Starting from 1.3.1 zstd's patent claim is removed  
see: https://github.com/facebook/zstd/pull/801  
  
Files:  zlibwrapper/examples/*.c  
Copyright: 1995-2006, 2011 Jean-loup Gailly  
License:  zlib  
  
Files:  zlibwrapper/gre.c  
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler  
License:  zlib  
  
License:  zlib  
This software is provided 'as-is', without any express or implied  
warranty. In no event will the authors be held liable for any damages  
arising from the use of this software.  
.  
Permission is granted to anyone to use this software for any purpose,  
20/10 Top
```

12. Search for the word **example** or any word existing in the document that you are using for lab-3. **Screenshot + Write Command**

Command— **/example**



```
lgut@kali -
File Actions Edit View Help
see: https://github.com/facebook/zstd/pull/881

Files: zlibwrapper/examples/*.c
Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibwrapper/gz*.c
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

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3. This notice may not be removed or altered from any source distribution.

Files: lib/dictbuilder/divsufsort.*
Copyright: 2003-2008, Yuta Mori
License: Expat

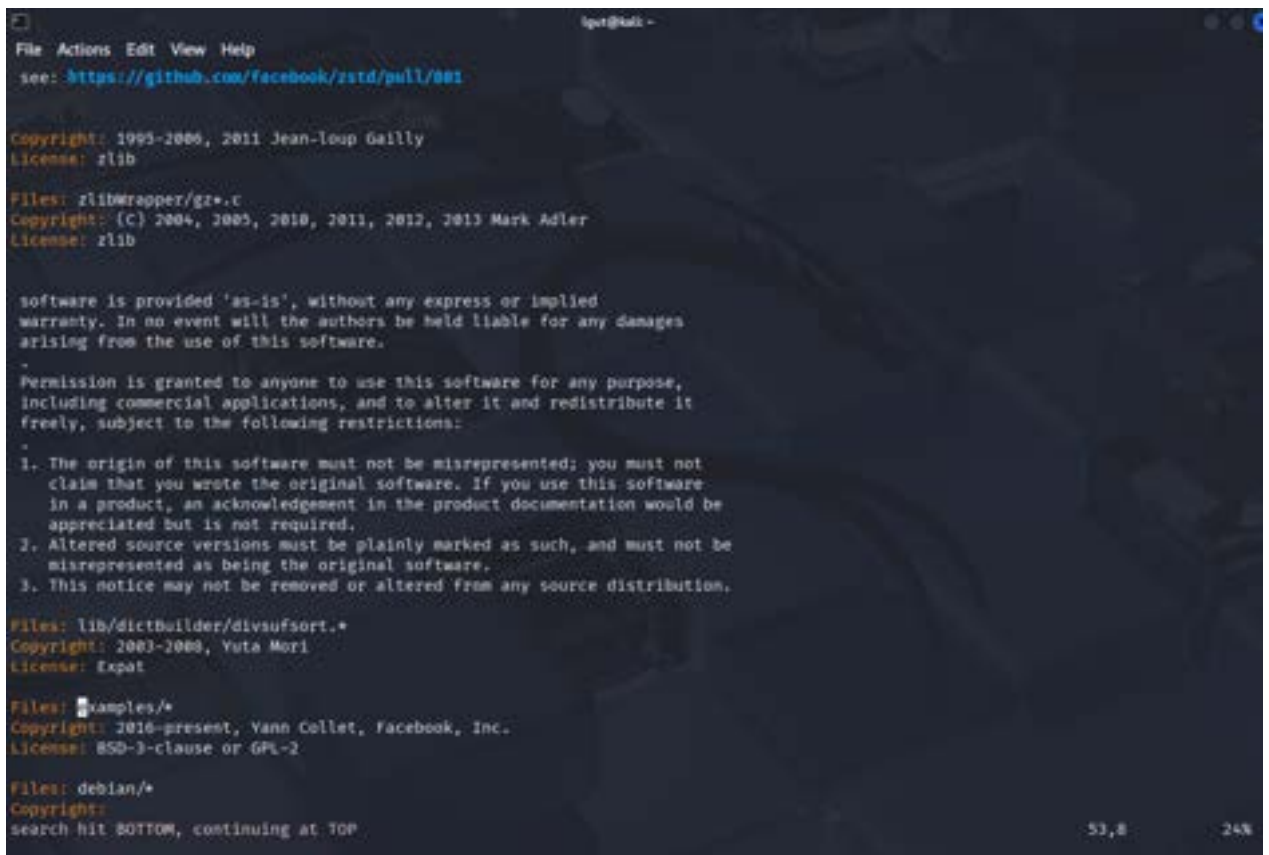
Files: example/*.
Copyright: 2016-present, Yann Collet, Facebook, Inc.
License: BSD-3-clause or GPL-2

Files: debian/*
Copyright:
/example
```

13. Continue to the next occurrence of the search term **example**. **Screenshot+**

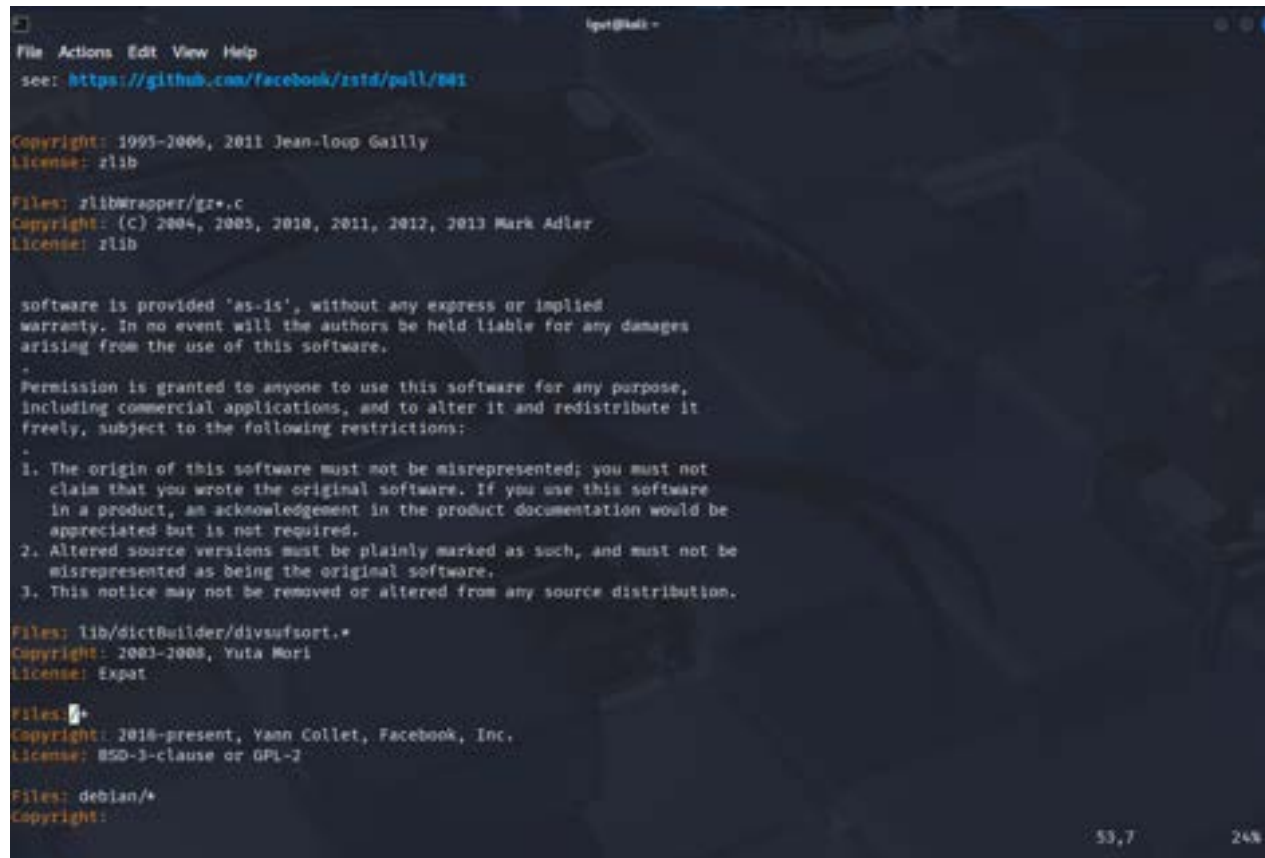
Write Command

Command— **n**



14. Delete the current word, **example. Screenshot + WriteCommand**

Command— **dw**



```
lgut@kali ~
File Actions Edit View Help
see: https://github.com/facebook/zstd/pull/881

Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibwrapper/gz*.c
Copyright: (c) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

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2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files: lib/dictBuilder/divsufsort.*
Copyright: 2003-2005, Yuta Mori
License: Expat

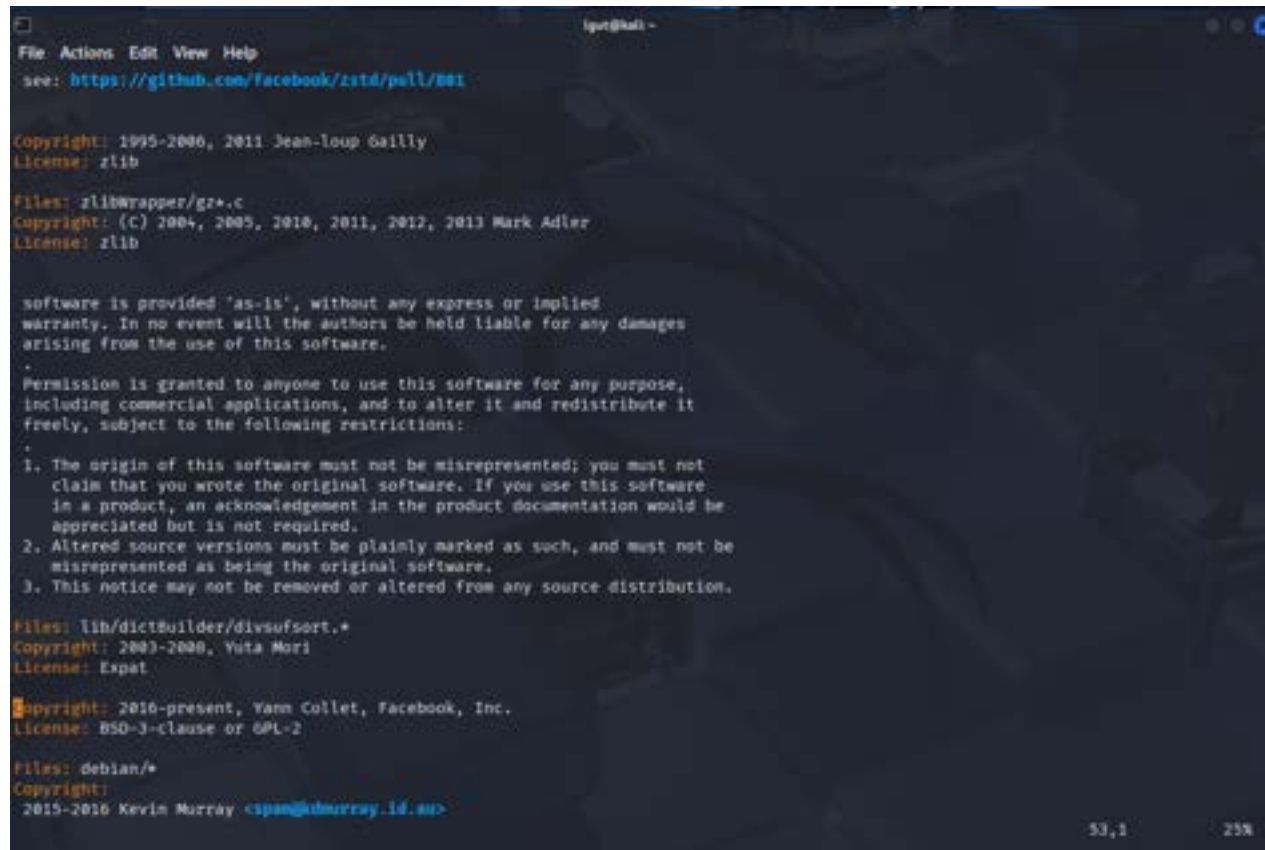
Files: *
Copyright: 2016-present, Yann Collet, Facebook, Inc.
License: BSD-3-clause or GPL-2

Files: debian/*
Copyright:
```

53,7 248

15. Delete the current line. **Screenshot + Write Command**

Command— **dd**



```
lgut@kali -
File: Actions Edit View Help
see: https://github.com/facebook/zstd/pull/881

Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibwrapper/gz*.c
Copyright: (c) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

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2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Files: lib/dictbuilder/divsufsort.*
Copyright: 2003-2008, Yuta Mori
License: Expat

Copyright: 2016-present, Yann Collet, Facebook, Inc.
License: BSD-3-clause or GPL-2

Files: debian/*
Copyright:
2015-2016 Kevin Murray <span@kmurray.id.au>
```

16. Use command to jump to the **end** of the file. **Screenshot + Write Command**
Command— **G**



```
lgut@hulu -
File Actions Edit View Help
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published by the Free Software Foundation
.
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
.
You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
.
On Debian systems, the complete text of the GNU General Public
License version 2 can be found in '/usr/share/common-licenses/GPL-2'.

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    derived from this software without specific prior written permission.
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ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
121,2  Bot
```

17. Copy **line 16** and paste the text at the end of the document. **Screenshot + Write Command**

Command— **yy then p to paste**



```
lgut@hell ~$
File Actions Edit View Help
-
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
-
You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
-
On Debian systems, the complete text of the GNU General Public
License version 2 can be found in '/usr/share/common-licenses/GPL-2'.

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ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
|====lgut1005====*====lgut1005====*====lgut1005====*====lgut1005====*====lgut1005====

122,1-8 Bot
```

18. Replace all occurrences of **http** with **HTTP** throughout the document. **Screenshot + Write Command**

Command— **:%s/http/HTTP/g**



```
lgut@kali ~
File Actions Edit View Help
Format: HTTPs://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Zstd
Source: HTTPs://github.com/facebook/zstd
Files-Excluded: build/v52000
                build/v52010
                build/v5_scripts
                programs/windres/*
                .buckversion
                .buckconfig
                .circleci/*
                .cirrus.yml

Files: *
Copyright: Yann Collet
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           ****lgut1005*****lgut1005*****lgut1005*****lgut1005*****lgut1005****
           Martin Liska
           SUSE
           Meta Platforms, Inc. and affiliates
License: BSD-3-clause or GPL-2
Comment: Starting from 1.3.1 zstd's patent claim is removed
See: HTTPs://github.com/facebook/zstd/pull/001

Copyright: 1995-2006, 2011 Jean-loup Gailly
License: zlib

Files: zlibWrapper/gz*.c
Copyright: (C) 2004, 2005, 2010, 2011, 2012, 2013 Mark Adler
License: zlib

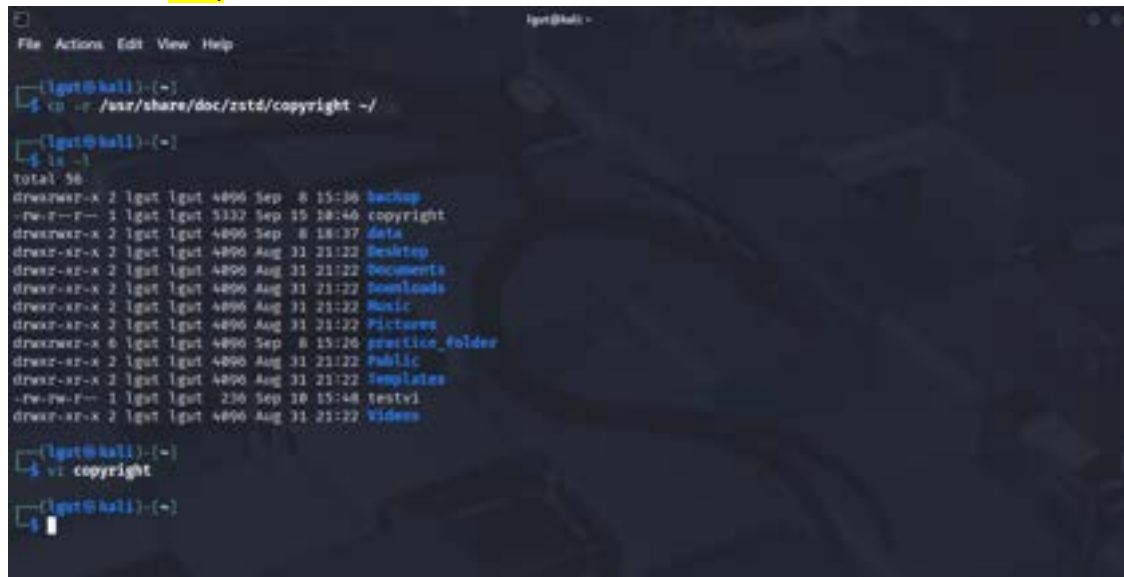
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Permission is granted to anyone to use this software for any purpose,
3 substitutions on 3 lines

22,2 Top
```

19. Save and quit the document. **Screenshot + Write Command**

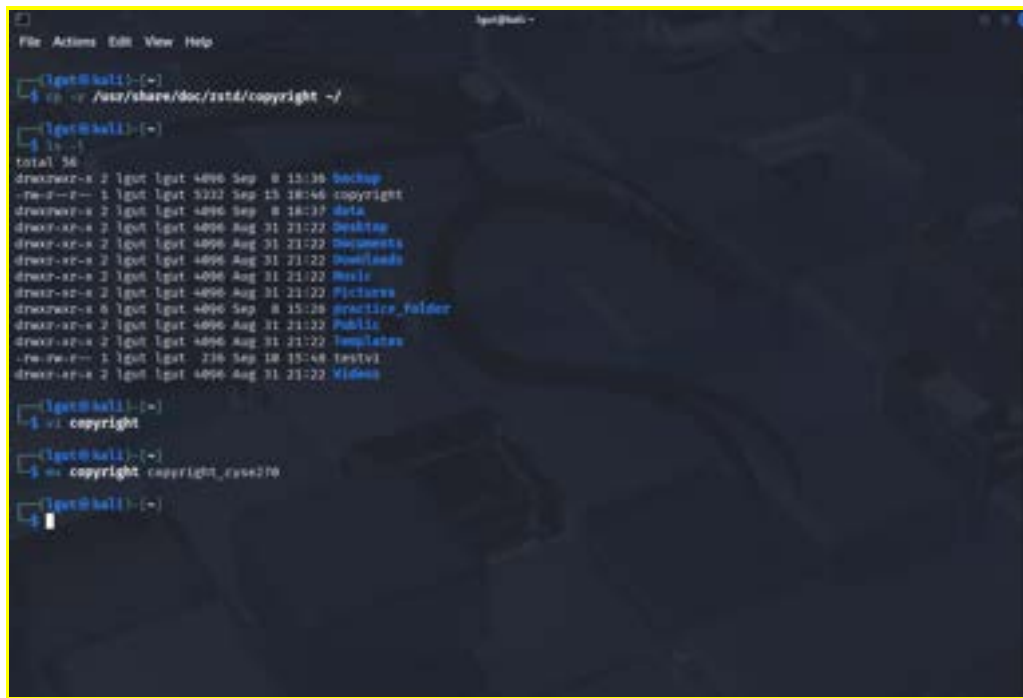
Command— **:wq**



```
lgut@kali: ~  
└─$ cd -r /usr/share/doc/zstd/copyright -/  
lgut@kali: ~  
└─$ ls -l  
total 56  
drwxrwxr-x 2 lgut lgut 4096 Sep  8 15:36 backup  
-rw-r--r-- 1 lgut lgut 5332 Sep 10 10:46 copyright  
drwxrwxr-x 2 lgut lgut 4096 Sep  8 18:37 data  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Desktop  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Documents  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Downloads  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Music  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Pictures  
drwxrwxr-x 6 lgut lgut 4096 Sep  8 15:26 practice_folder  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Public  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Templates  
-rw-rw-r-- 1 lgut lgut 236 Sep 10 15:48 testv1  
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Videos  
lgut@kali: ~  
└─$ vi copyright  
lgut@kali: ~  
└─$
```

20. Rename the file `copyright` to `copyright_cyse270`. **Screenshot + Write Command**

Command— `mv copyright copyright_cyse270`



```
lgut@kali:~$ cd /usr/share/doc/rsync/copyright -f
lgut@kali:~$ ls -l
total 56
drwxr-xr-x 2 lgut lgut 4096 Sep  8 15:36 backup
-rw-r--r-- 1 lgut lgut 5222 Sep 15 18:44 copyright
drwxr-xr-x 2 lgut lgut 4096 Sep  8 18:37 data
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Desktop
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Documents
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Downloads
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Music
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Pictures
drwxr-xr-x 6 lgut lgut 4096 Sep  8 15:28 practice_folder
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Public
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Templates
-rw-rw-r-- 1 lgut lgut 238 Sep 18 15:48 testvi
drwxr-xr-x 2 lgut lgut 4096 Aug 31 21:22 Videos

lgut@kali:~$ cd
lgut@kali:~$ mv copyright copyright_cyse270
lgut@kali:~$
```

Please note:

Make sure you **highlight and annotate** important information.