

**Carl Lochstampfor**  
**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**

```
(carl-lochstampfor@kali)-[~]
└─$ cp /usr/share/doc/zstd/copyright /home/carl-lochstampfor/cyse270

(carl-lochstampfor@kali)-[~]
└─$ ls
cyse270  data  Desktop  Documents  Downloads  Music  notes.txt  Pictures

(carl-lochstampfor@kali)-[~]
└─$ cyse270

(carl-lochstampfor@kali)-[~/cyse270]
└─$ ls
copyright

(carl-lochstampfor@kali)-[~/cyse270]
└─$ vi copyright
```

2. Perform a **long list** in your **home** directory using the correct command. **Screenshot**

```
(carl-lochstampfor@kali)-[~/cyse270]
└─$ pwd
/home/carl-lochstampfor/cyse270

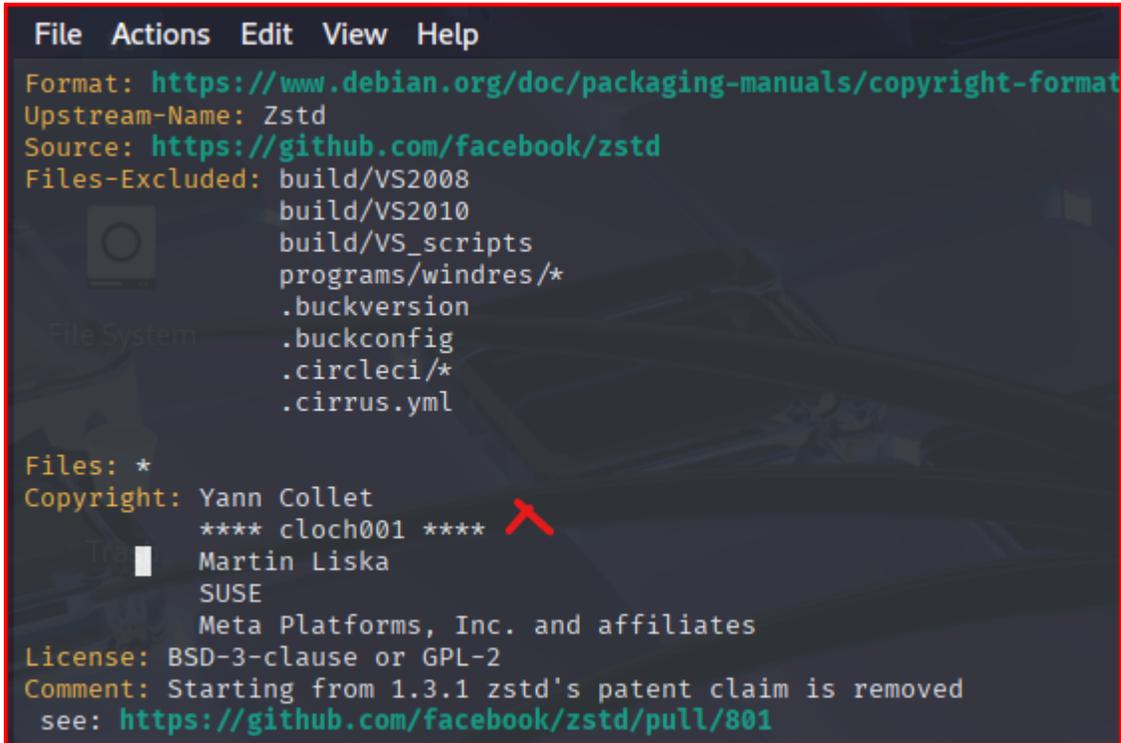
(carl-lochstampfor@kali)-[~/cyse270]
└─$ ls -l
total 8
-rw-r--r-- 1 carl-lochstampfor carl-lochstampfor 5332 Jun  6 15:12 copyright
```

3. Open the file **copyright** in a vi-editor using **vi** command. **Screenshot**

```
(carl-lochstampfor@kali)-[~/cyse270]
└─$ vi copyright
```

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 >> :15**, then **I** to insert text (deleted the prior name)



```
File Actions Edit View Help
Format: https://www.debian.org/doc/packaging-manuals/copyright-format
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
          **** cloch001 ****
          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
```

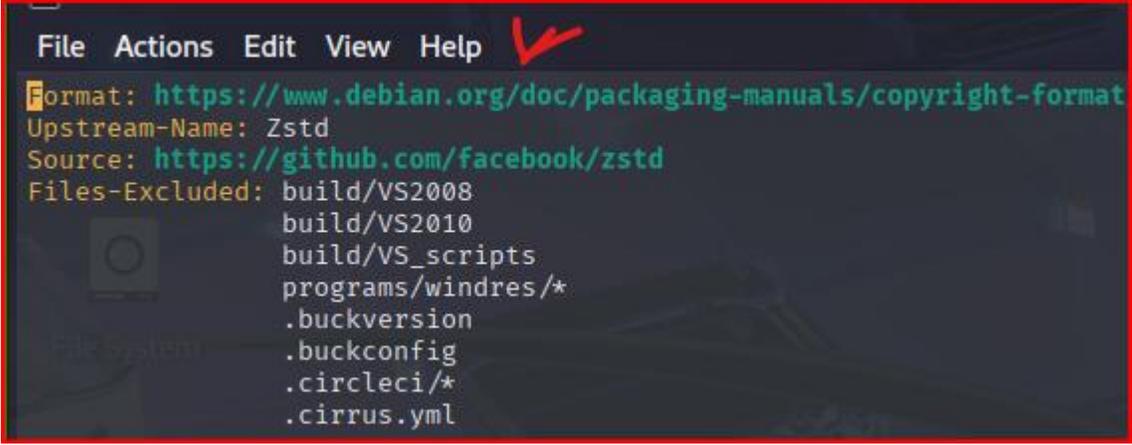
5. Return to the command mode. **Write Command**

**Command >> Escape**, then **:w** to save



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

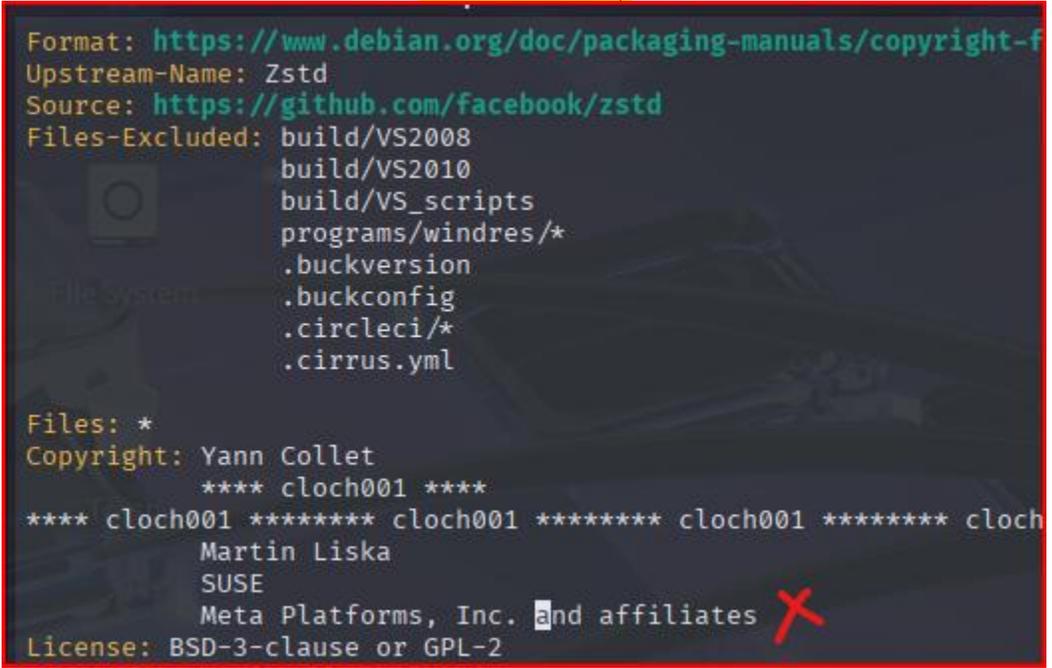
**Command >> gg** (can also use **:1**, **1G**, or **||** if you prefer)



```
File Actions Edit View Help ✓
Format: https://www.debian.org/doc/packaging-manuals/copyright-format
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
```

10. Move forward **three sentences**. **Screenshot + Write Command**

**Command >> 3)**



```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format
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
          **** cloch001 ****
          **** cloch001 **** cloch001 **** cloch001 **** cloch
          Martin Liska
          SUSE
          Meta Platforms, Inc. and affiliates ✗
License: BSD-3-clause or GPL-2
```

11. Move forward **four words**. Screenshot + Write Command

Command &gt;&gt; 4w

```
Copyright: Yann Collet
**** cloch001 ****
**** cloch001 ***** cloch001 ***** cloch001 ***** cloch001 ***** cloch001 ****
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
```

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

Command &gt;&gt; /example

```
Files: *
Copyright: Yann Collet
**** cloch001 ****
**** cloch001 ***** cloch001 ***** cloch001 *****
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: 1995-2006, 2011 Jean-loup Gailly
License: zlib
```

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

Command &gt;&gt; N

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

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

Files: debian/*
Copyright:
2015-2016 Kevin Murray <spam@kdmurray.id.au>
2022-2024 Peter Pentchev <roam@debian.org>
License: Expat
```

14. Delete the current word, **example**. Screenshot + Write Command

Command >> **dw**

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

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

Files: debian/*
Copyright:
2015-2016 Kevin Murray <span@kdmurray.id.au>
2022-2024 Peter Pentchev <roam@debian.org>
```

15. Delete the current line. Screenshot + Write Command

Command >> **dd**

```
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/*
```

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

Command >> **jj** (or **:\$, G**)

```
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.
```

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

Command >> yy, then :\$, then p

```
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DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
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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.
*** cloch001 ***** cloch001 ***** cloch001 ***** cloch001 ***** cloch001 ****
```

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

Command >> :%s/http/HTTP/g (replaced all 4 occurrences in one single command)

However, you can also use the Command >> /http to locate and manually write over each occurrence with **HTTPS**, then move onto the next word using **N** or **n**. Rinse and repeat the /http manual process (only 3 occurrences/instances of the word, 'example').

```
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/VS2012
                build/VS2013
                build/VS2015
                build/VS2017
                build/VS2019
                build/VS2022
                build/VS2025
                build/VS2028
                build/VS2031
                build/VS2034
                build/VS2037
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## 19. Save and quit the document. Screenshot + Write Command

Command >> :wq

```
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a copy of this software and associated documentation files (the
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permit persons to whom the Software is furnished to do so, subject to
the following conditions:
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The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
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THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
:wq
```

```
(carl-lochstampfor@kali)-[~/cyse270]
└─$ ls
copyright

(carl-lochstampfor@kali)-[~/cyse270]
└─$
```

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

Command >> `mv copyright copyright_cyse270`

```
(carl-lochstampfor@kali)-[~/cyse270]
└─$ mv copyright copyright_cyse270

(carl-lochstampfor@kali)-[~/cyse270]
└─$ ls
copyright_cyse270
```

### Please note:

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