**Lab documentation essentials**

**including Word to HTML conversion**

**Make sure you got the latest Version** [**HERE**](https://github.com/Juniper/lab-doc-convert)





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**Document Control**

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**Change Authority:** Everyone

**Revision History:**

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| 1.0 | 13 Dec 2018 | Initial Version |  | First Release |
| 1.1 | 14 Dec 2018 | Updated new item |  | Added style-sheet import |
| 1.2 | 21 Dec 2018 | Improvement |  | Dynamic-Tags for collision free translation |
| 1.3 | 5 July 2019 | Improvement |  | Use pandoc Linux binaries instead of build |
| 1.4 | 14 Feb 2020 | Improvement |  | Big Unhide Button for hidden text |
| 1.5 | 19 April 2020 | Improvement |  | Container added + minor code changes + issued the first public release |
| 1.6 | 7 Sept 2020 | Improvement |  | Added inline CLI style support |
| 1.6.1 | 9 March 2022 | Improvement |  | Added latest versions of everything |
| 1.7 | 31 March 2022 | New Features |  | Changed background for Purple-Change indicator. Added output of \*\*markdown\*\* docs for engineers and git |

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[Pandoc](https://pandoc.org/) created by John MacFarlane, License: GNU GPLv2

[Sphinx documentation generator](https://www.sphinx-doc.org/) created by Georg Brandl, License: BSD License

[Read the Docs Sphinx Theme](https://pypi.python.org/pypi/sphinx_rtd_theme/) by Dave Snider, License: MIT License (MIT)

[Python-oletools](https://pypi.org/project/oletools/) by Philippe Lagadec, License: BSD License

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# WHY this Framework?

We have developed this Framework inside Juniper to document internal Labs and deployed IT-Infrastructure so **that others can EASILY re-use it** to get to the same or similar results.

**The focus is to be able to produce a documentation that is intended for someone who have never seen the lab before to run it and to build own labs themselves.**

Labs and IT-Infrastructure in general change all the time and it is hard to follow them without **having examples** (especially when they are tested). If you already produced examples, then it would be good if you are able to help others in a way that:

* Allow People to cut and paste the example of your code/CLI to directly use it. This will save their precious time by typing in stuff and limits errors.
* Tell People what is important to check when they execute one off your examples. You are the Expert when you create the Lab so you must tell others where to look at. Limit the Time others need to review your documentation. As example when you document a something from a Logfile output with like 30 lines of output and only one or few lines are relevant then highlight those important lines and don’t have people trying to find out what is important.
* Tell People upfront if there are any changes that will need to be adopted when they repeat your example. Do not assume someone knows about potential changes one has to do to adapt something for his lab. For example, if there are just a few changes of a Router Configuration to get if operational in a different location with other IP-Addresses or Interface-Names then tell others about it when you create the lab documentation.

These have been the goals in mind when we created this.

1. Make is easy for others to work with your Documents.
2. Tell important things in a way that they are obvious and easy to spot.
3. Try to limit the Time others must spend on this.
4. Tell it in a way that it causes lesser Questions from the audience to you because then People will contact you for help and that doesn’t scale.

Treat yourself as a Movie-Director. You must tell the Story in a way that you don’t lose your audience. So, create a nice documentation that you would like to see from somebody else helping you.

To archive our Mantras, we’ve come up with a Color coding schema that we use for program code, Router configuration and all kinds of CLI-isch things we need to Document. We use a manual Syntax highlighting because the Editor of a Lab documentation usually knows what the important points are the audience needs to know about. We use the following four Text-colors:

Black = Normal list output the system did in response to a command (default)

Green = CLI Input and configuration pieces to use Copy&Paste

Purple = Variable pieces of the configuration you need to adapt for your lab

Red = Something to look at or warn you about

With the following example you can easily see how power-full this is and what a great help it is to get this is to get things going and accelerate. You don’t need to be an Expert in Unix but is very easy to see that when you key in the shell-command “df -lh” (green) you will get a resulting output of various things reported (black). As you have marked the important to look at items of your output everyone can simply spot now that the important piece to look after is the mount-point “/” which has 1.7Terabyte capacity avail in our example.

# Check your diskspace before you install

# You need 300GB free minimum in /root NOT in /home

df -lh

Filesystem Size Used Avail Use% Mounted on

udev 126G 4.0K 126G 1% /dev

tmpfs 26G 1.4M 26G 1% /run

/dev/dm-1 1.8T 25G 1.7T 2% /

none 4.0K 0 4.0K 0% /sys/fs/cgroup

none 5.0M 0 5.0M 0% /run/lock

none 126G 0 126G 0% /run/shm

none 100M 0 100M 0% /run/user

/dev/sda1 465M 40M 401M 10% /boot

If there would be something in Purple color marked, then your audience would instantly know there is a potential change the have to adapt (especially when they attempt to cut&paste CLI or config-snippets). Like in the example below where you have a complicated CLI-command but in other Labs there may be a different password to be used so you have to exactly mark that piece so that others can easily spot is and modify for own labs like below when they try to reuse your example:

RAW\_TOKEN=`curl -d '{"auth":{"tenantName":"admin", "passwordCredentials":{"username":"admin", "password":"**UNhMevHCchgu**"}}}' -H "Content-type: application/json" http://192.168.10.41:5000/v2.0/tokens`

**Being able to define and pass over these divine color-markings into the final documentation is a key aspect of this Framework** and it also speeds up the creation of the documentation to need to explain less on how to use the Lab and what expected the results are.

## Best of two Worlds approach:

It took us a while to define the best way to go from editing documentation to publishing it. In the end we found this approach viable:

### Microsoft-Word

* Pro:
  + Word is an excellent WYSIWYG-Editor
  + Good for collaboration with other Peoples via comment-function
  + Almost everybody has it per default on his Corporate Notebook/PC
  + Inserting of Pictures and Files is Drag&Drop
* Contra:
  + Not good to publish your final Documents:
    - When you give away native Word documents then you assume that everyone outside of your Corporate has Word installed but this may not be the case.
    - Generating a HTML-version directly from Word will not create you a Chapter Navigation Pane at the left which is something you really want to have. Also, the approach we follow looks much nicer.
  + Sometimes issues with Word-Users on MacOS Platforms
    - They can’t extract embedded Files
    - They may have various performance issues on large documents with over 500 Pages
  + The Navigation Pane at the left is not on per default when you pass your Word-Doc to other Persons. Either you teach People how to activate this or you must embed Marcos to activate it that some Corporate virus-scanners may disable.

### Sphinx with Readthedocs-HTML-Theme

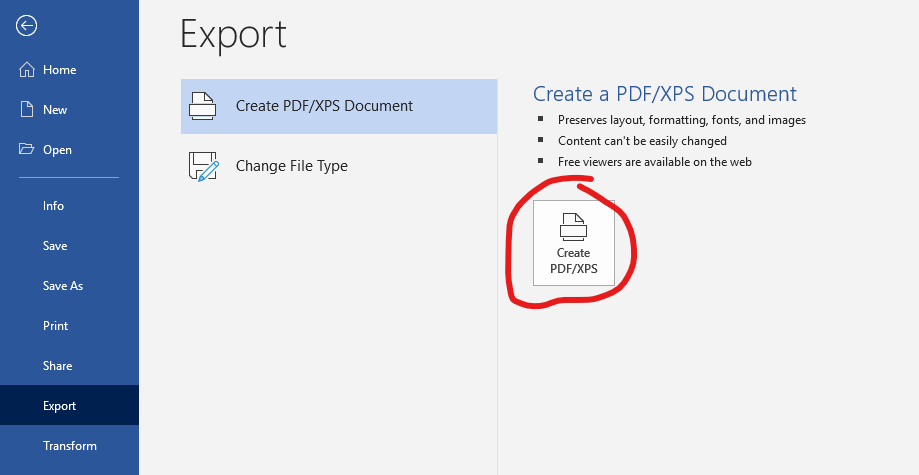
* Pro:
  + Your rendered results can be viewed by every (JavaScript enabled) Web-Browser
  + Generation of offline viewable archives possible with static pages.
  + We can use the FREE Hosting platform readthedocs.io to publish to the results online.
  + There always is a fixed Chapter-Navigation Pane at the left side!
  + Many modules from others to solve other issues
* Contra:
  + The input for Sphinx to render HTML is restructured Text which is even more complex to learn as traditional markdown-flavours.
  + Before you render the pages, you don’t see how they will look like

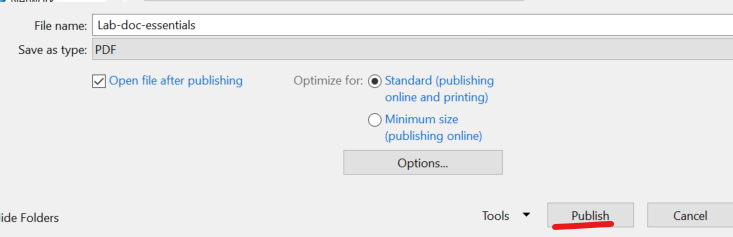
### Why not use a PDF for publishing?

A PDF is an excellent choice when you publish something that People just need to read. However, a **PDF is not good** when you try to publish embedded Program-Code or CLI-Commands that you expect People to utilize via a **cut&paste approach**. So, using a PDF to work from it is the ultimate challenge.

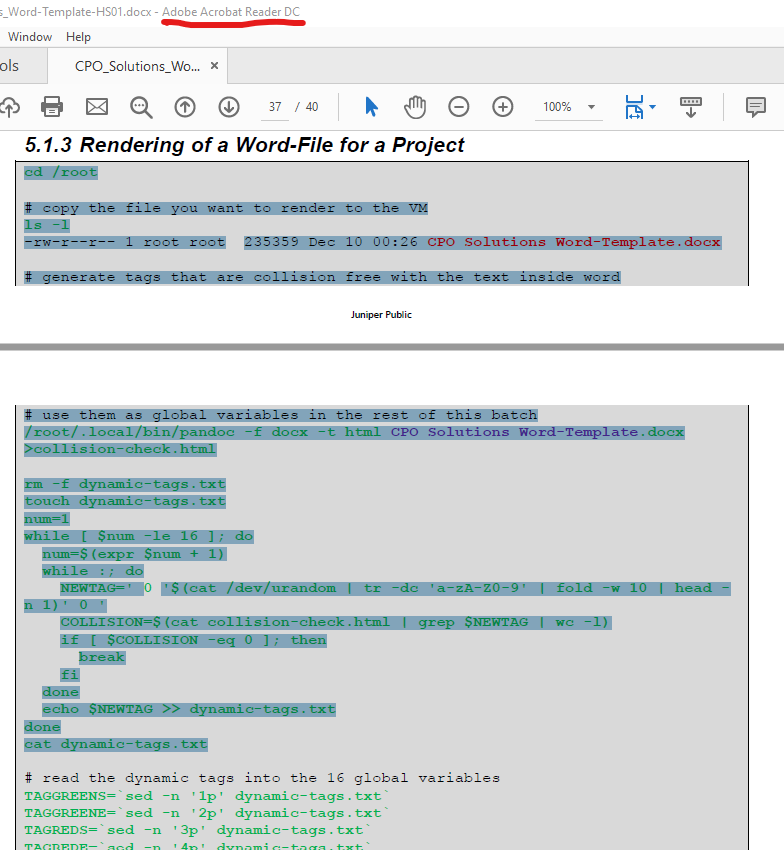
This is because internally a PDF doesn’t know what a SPACE-Character is. Everything is a character-position via coordinates to get to the next character inside of a PDF. It is left to the **local PDF Viewer** then how he treats the character positioning and filling in spaces again when you copy and paste. You don’t see the issue still? Then try it out by converting this Document and test it yourself.

First export with creating a PDF.

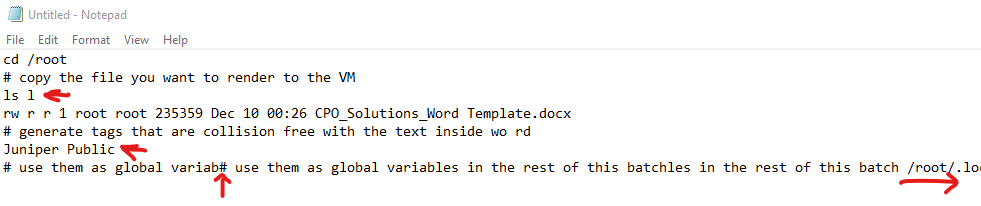




Open the PDF and scroll down to the beginning of Chapter 6.1.3 below. Then mark the first 30 Lines with CLI and Code and press Copy as below



Now open an Ascii-Editor of your choice and Paste these lines from the PDF there to see how good it is. This is what I get even out it of even using a flag-ship PDF-Reader:



You should see the following issues depending on your local Reader.

* **Indents and leading White-Spaces get lost.** If this would be Python-Code, which is very strict on how format your code, then **you produce non workable code**.
* When you cut between **pages numbers and footnotes are also embedded**. In our example you see the footnote “Juniper Public” suddenly appearing in the pasted text.
* Sometimes characters disappear or appear on a totally different line. See what happened to the “ls -l” command in Line 4.
* Blank Lines may not be recognized and get lost.
* Code gets concatenated that should be in multiple lines. See the Bash-Code of our example which is totally useless now.

People have tried in a past all kinds of different solutions (like unseen characters for the whitespaces) but unfortunately you always depend on the local PDF-Reader someone has installed to see if the results are good or as bad as above. As a result of this, we concluded that **one cannot use PDF to share Lab-Documents!**

### Why not use an easy Markdown Language?

In general, this is not a bad approach because it would be easy to generate HTML from it. However, the following items are hard to get with this approach:

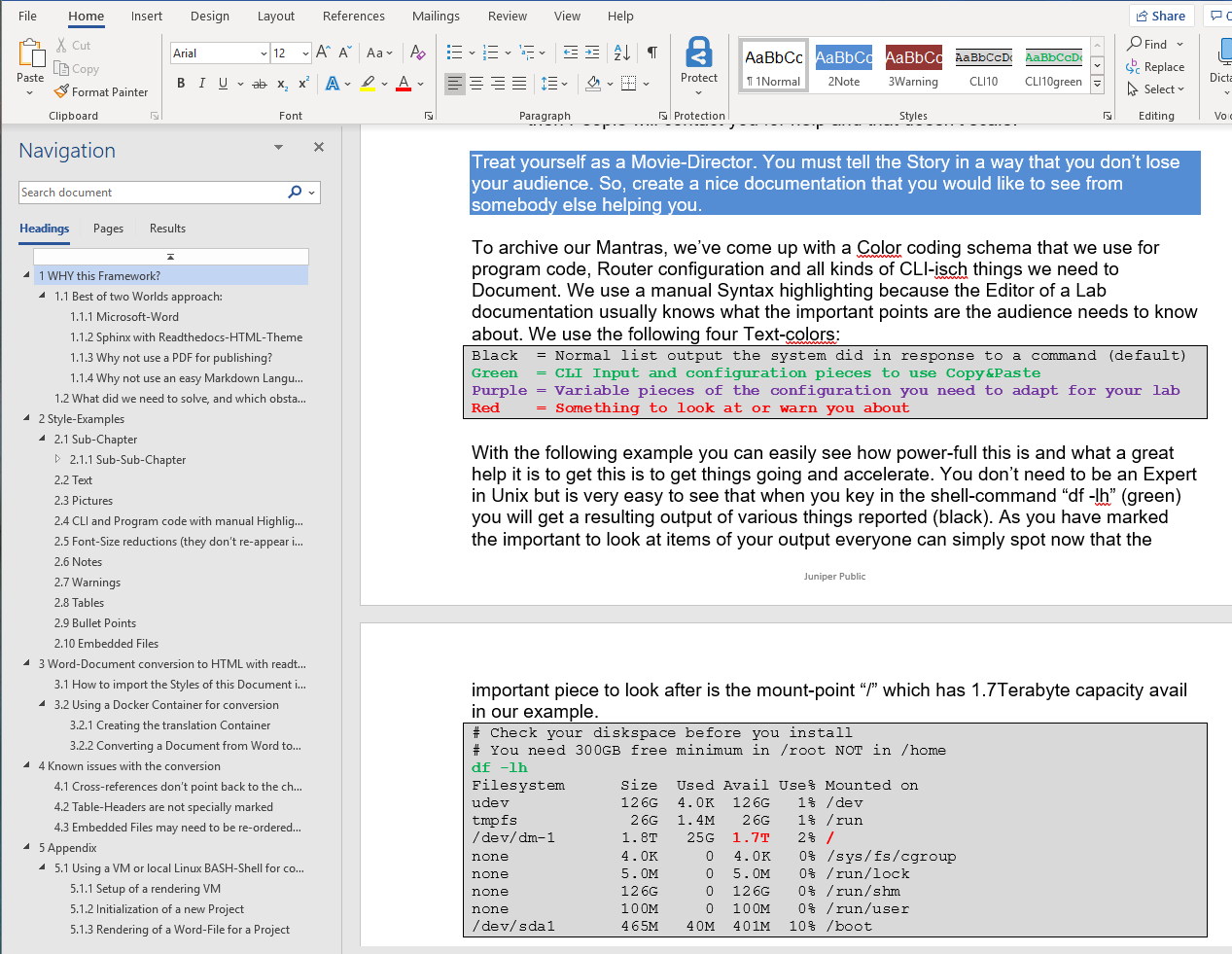
* The manual color-highlighting. You need a very good Macro-Editor for that else you get mad. Markdown is better for automatic syntax highlighting of code but not for CLI.
* Left Navigation Pane. You would have to use a generator like Python-Sphinx, which we use anyway, to get nice rendered code.
* Fast and easy to work with. Word is more intuitive WYISIWYG-Editor that also supports copy&paste of Pictures nicely. It is just faster especially for newbies.

Starting with V1.7 we also support export to markdown but it has it’s limits.

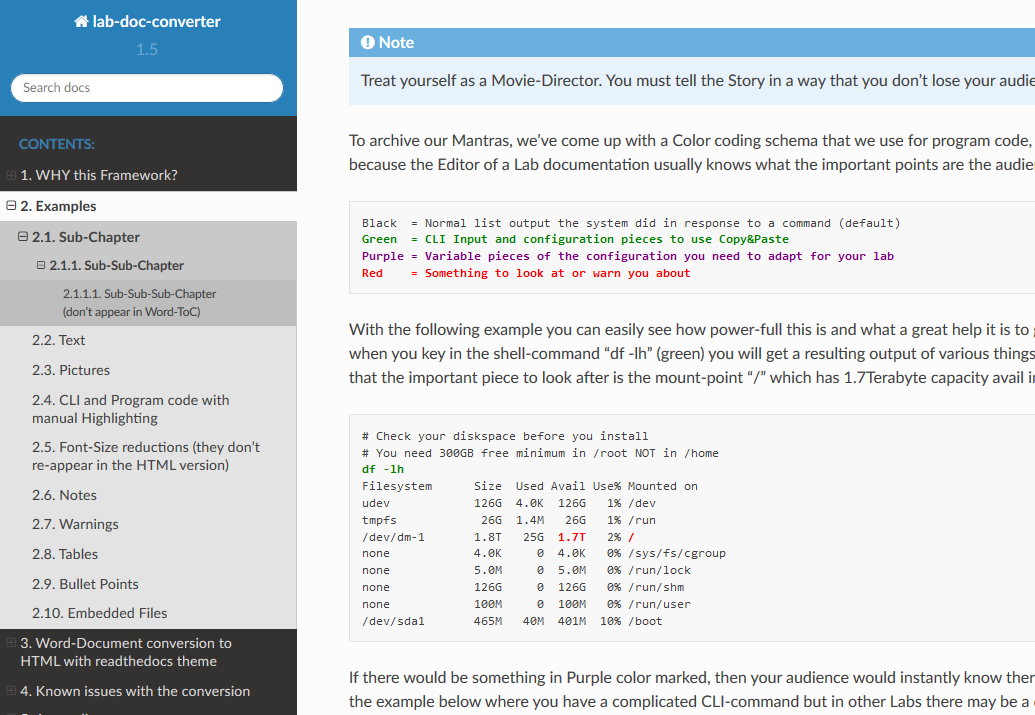
## What did we need to solve, and which obstacles have we seen?

* How to setup a proper Toolchain to convert from Word to the restructured Text that the Python-Sphinx documentation generator can use for the final HTML-Pages.
* A way to preserve the color codes we use in our documentation as it’s a powerful way to instruct People what to do. Sphinx (and Markdown) only offers automatic syntax highlighting of code.
* A way to extract optional embedded OLE-Objects as Files from Word and make them re-appear in the final HTML.

In the end what you see in Word like this:



Should be seen via your Web-Browser like this:



# Style-Examples

This chapter allows you to use a certain Style-from the Word-Template and review, after you’ve done the conversion, how it would look in the resulting HTML.

## Sub-Chapter

The quick brown fox jumps over the lazy dog

### Sub-Sub-Chapter

The quick brown fox jumps over the lazy dog

#### Sub-Sub-Sub-Chapter (don’t appear in Word-ToC)

The quick brown fox jumps over the lazy dog

## Text

This is just ordinary text first paragraph. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

## Pictures



## CLI and Program code with manual Highlighting

Please remember the Color convention that is used in the Textboxes stands for:

Black = Normal list output the system did in response to a command (default)

Green = CLI Input and configuration pieces to use Copy&Paste

Purple = Variable pieces of the configuration you need to adapt for your lab

Red = Something to look at or warn you about

Example 1 enter a CLI command and check important values

# Check your diskspace before you install

# You need 300GB free minimum in /root NOT in /home

df -lh

Filesystem Size Used Avail Use% Mounted on

udev 126G 4.0K 126G 1% /dev

tmpfs 26G 1.4M 26G 1% /run

/dev/dm-1 1.8T 25G 1.7T 2% /

none 4.0K 0 4.0K 0% /sys/fs/cgroup

none 5.0M 0 5.0M 0% /run/lock

none 126G 0 126G 0% /run/shm

none 100M 0 100M 0% /run/user

/dev/sda1 465M 40M 401M 10% /boot

Example 2 Show CLI command to send but tell that in their environment the Password needs to be changed

RAW\_TOKEN=`curl -d '{"auth":{"tenantName":"admin", "passwordCredentials":{"username":"admin", "password":"**UNhMevHCchgu**"}}}' -H "Content-type: application/json" http://192.168.10.41:5000/v2.0/tokens`

## Font-Size reductions (they don’t re-appear in the HTML version)

The Font size is reduced to 8, 6 and 4 Points from the default of 10 when you use the Styles CLI8, CLI6 and CLI4. CLI8 and CLI6 should be used to gain better readability of the word document itself for its editor because of possible line wraps that are then harder to read. Play around with applying CLI8 and CLI6 until it fits. In the final HTML output, everything will have the same size (10) BUT we use a wider screen so it will better fit.

Example of CLI8 Font size reduction

| Line | My Lab Components | Name | Disk usage

| ------ |:--------------------------------:|:-----------------------:|:-----------------------:|

| 1 | Installer VM | mylab-installer-vm | 16GB

| 2 | Project services for all our VMs | mylab-services-vm | 200GB

| 3 | Project Microservices for VMs | mylab-microservices-vm | 200GB

| 4 | Project Debugging VM | mylab-debugging-vm | 10GB

| 5 | Project Backup and Restore VM | mylab-backuprestore-vm | 500GB (really?)

| 6 | Translator VM | mylab-translator-vm | 10GB (do we need this)

| 7 | Loadbalancer VM | mylab-loadbalancer-vm | 1G

| 8 | Client Desktop VM1 | desktop1 | 5GB (expanded ??)

| 9 | Client Desktop VM2 | desktop2 | 5GB (expanded ??)

| 10 | Client Desktop VM3 | desktop3 | 5GB (expanded ??)

| 11 | Client Desktop VM4 | desktop4 | 5GB (expanded ??)

Example of CLI6 Font size reduction with the same Table

| Line | My Lab Components | Name | Disk usage

| ------ |:--------------------------------:|:-----------------------:|:-----------------------:|

| 1 | Installer VM | mylab-installer-vm | 16GB

| 2 | Project services for all our VMs | mylab-services-vm | 200GB

| 3 | Project Microservices for VMs | mylab-microservices-vm | 200GB

| 4 | Project Debugging VM | mylab-debugging-vm | 10GB

| 5 | Project Backup and Restore VM | mylab-backuprestore-vm | 500GB (really?)

| 6 | Translator VM | mylab-translator-vm | 10GB (do we need this)

| 7 | Loadbalancer VM | mylab-loadbalancer-vm | 1G

| 8 | Client Desktop VM1 | desktop1 | 5GB (expanded ??)

| 9 | Client Desktop VM2 | desktop2 | 5GB (expanded ??)

| 10 | Client Desktop VM3 | desktop3 | 5GB (expanded ??)

| 11 | Client Desktop VM4 | desktop4 | 5GB (expanded ??)

The **Style-CLI4** is special where everything is reduced to the extreme minimum size, but you notice in Word that there is content that you can zoom in if you want to read it. This approach should be use when you have large text-output (usually logfiles and configuration files) that the reader MAY BE INTRESTED in, but you don’t want the number of Pages in your document to explode because of this.

In the HTML output we will make this section HIDDEN which we demo here! It will be accessible via a Button you have to click on to expand it.

c:\tmp\doc2html\build\html>dir /S

Volume in drive C is Windows

Volume Serial Number is ECB6-F1CD

Directory of c:\tmp\doc2html\build\html

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/15/2020 11:01 AM 230 .buildinfo

04/15/2020 11:01 AM 4,611 genindex.html

04/15/2020 11:01 AM 10,971 index.html

04/15/2020 11:01 AM 303 objects.inv

04/15/2020 11:01 AM 195,553 readme.html

04/15/2020 11:01 AM 5,007 search.html

04/15/2020 11:01 AM 23,071 searchindex.js

04/15/2020 11:01 AM 1,708 UnhideButton.png

04/15/2020 11:01 AM <DIR> \_images

04/15/2020 11:01 AM <DIR> \_sources

04/15/2020 11:01 AM <DIR> \_static

8 File(s) 241,454 bytes

Directory of c:\tmp\doc2html\build\html\\_images

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/15/2020 11:00 AM 51,030 1.jpeg

04/15/2020 11:00 AM 34,277 10.png

04/15/2020 11:00 AM 10,172 11.emf

04/15/2020 11:00 AM 5,144 12.png

04/15/2020 11:00 AM 13,370 13.png

04/15/2020 11:00 AM 144,928 14.png

04/15/2020 11:00 AM 19,403 15.png

04/15/2020 11:00 AM 23,740 16.png

04/15/2020 11:00 AM 41,138 17.png

04/15/2020 11:00 AM 13,705 18.png

04/15/2020 11:00 AM 49,318 19.png

04/15/2020 11:00 AM 25,162 2.png

04/15/2020 11:00 AM 65,982 20.png

04/15/2020 11:00 AM 8,705 21.png

04/15/2020 11:00 AM 25,901 22.png

04/15/2020 11:00 AM 78,406 23.png

04/15/2020 11:00 AM 42,340 24.png

04/15/2020 11:00 AM 59,567 25.png

04/15/2020 11:00 AM 46,619 26.png

04/15/2020 11:00 AM 37,686 27.png

04/15/2020 11:00 AM 28,727 3.png

04/15/2020 11:00 AM 93,116 4.png

04/15/2020 11:00 AM 15,972 5.png

04/15/2020 11:00 AM 376,162 6.png

04/15/2020 11:00 AM 217,527 7.png

04/15/2020 11:00 AM 470,943 8.png

04/15/2020 11:00 AM 54,989 9.png

27 File(s) 2,054,029 bytes

Directory of c:\tmp\doc2html\build\html\\_sources

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/15/2020 11:00 AM 398 index.rst.txt

04/15/2020 11:01 AM 180,881 readme.rst.txt

2 File(s) 181,279 bytes

Directory of c:\tmp\doc2html\build\html\\_static

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/15/2020 11:01 AM 12,261 basic.css

04/15/2020 11:01 AM <DIR> css

04/15/2020 11:00 AM 150 custom.css

04/17/2020 06:46 AM 9,354 doctools.js

04/15/2020 11:01 AM 350 documentation\_options.js

04/17/2020 06:46 AM 286 file.png

04/15/2020 11:01 AM <DIR> fonts

04/17/2020 06:46 AM 280,364 jquery-3.4.1.js

04/17/2020 06:46 AM 88,145 jquery.js

04/15/2020 11:01 AM <DIR> js

04/15/2020 11:01 AM 10,847 language\_data.js

04/17/2020 06:46 AM 90 minus.png

04/17/2020 06:46 AM 90 plus.png

04/15/2020 11:01 AM 4,368 pygments.css

04/17/2020 06:46 AM 16,323 searchtools.js

04/15/2020 11:00 AM 54 style.css

04/17/2020 06:46 AM 35,168 underscore-1.3.1.js

04/17/2020 06:46 AM 12,140 underscore.js

15 File(s) 469,990 bytes

Directory of c:\tmp\doc2html\build\html\\_static\css

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/17/2020 06:46 AM 3,391 badge\_only.css

04/17/2020 06:46 AM 118,340 theme.css

2 File(s) 121,731 bytes

Directory of c:\tmp\doc2html\build\html\\_static\fonts

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/17/2020 06:46 AM 165,742 fontawesome-webfont.eot

04/17/2020 06:46 AM 444,379 fontawesome-webfont.svg

04/17/2020 06:46 AM 165,548 fontawesome-webfont.ttf

04/17/2020 06:46 AM 98,024 fontawesome-webfont.woff

04/17/2020 06:46 AM 77,160 fontawesome-webfont.woff2

04/17/2020 06:46 AM 109,948 Inconsolata-Bold.ttf

04/17/2020 06:46 AM 96,964 Inconsolata-Regular.ttf

04/17/2020 06:46 AM 63,184 Inconsolata.ttf

04/15/2020 11:01 AM <DIR> Lato

04/17/2020 06:46 AM 656,544 Lato-Bold.ttf

04/17/2020 06:46 AM 656,568 Lato-Regular.ttf

04/15/2020 11:01 AM <DIR> RobotoSlab

04/17/2020 06:46 AM 170,616 RobotoSlab-Bold.ttf

04/17/2020 06:46 AM 169,064 RobotoSlab-Regular.ttf

12 File(s) 2,873,741 bytes

Directory of c:\tmp\doc2html\build\html\\_static\fonts\Lato

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/17/2020 06:46 AM 256,056 lato-bold.eot

04/17/2020 06:46 AM 600,856 lato-bold.ttf

04/17/2020 06:46 AM 309,728 lato-bold.woff

04/17/2020 06:46 AM 184,912 lato-bold.woff2

04/17/2020 06:46 AM 266,158 lato-bolditalic.eot

04/17/2020 06:46 AM 622,572 lato-bolditalic.ttf

04/17/2020 06:46 AM 323,344 lato-bolditalic.woff

04/17/2020 06:46 AM 193,308 lato-bolditalic.woff2

04/17/2020 06:46 AM 268,604 lato-italic.eot

04/17/2020 06:46 AM 639,388 lato-italic.ttf

04/17/2020 06:46 AM 328,412 lato-italic.woff

04/17/2020 06:46 AM 195,704 lato-italic.woff2

04/17/2020 06:46 AM 253,461 lato-regular.eot

04/17/2020 06:46 AM 607,720 lato-regular.ttf

04/17/2020 06:46 AM 309,192 lato-regular.woff

04/17/2020 06:46 AM 182,708 lato-regular.woff2

16 File(s) 5,542,123 bytes

Directory of c:\tmp\doc2html\build\html\\_static\fonts\RobotoSlab

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/17/2020 06:46 AM 79,520 roboto-slab-v7-bold.eot

04/17/2020 06:46 AM 170,616 roboto-slab-v7-bold.ttf

04/17/2020 06:46 AM 87,624 roboto-slab-v7-bold.woff

04/17/2020 06:46 AM 67,312 roboto-slab-v7-bold.woff2

04/17/2020 06:46 AM 78,331 roboto-slab-v7-regular.eot

04/17/2020 06:46 AM 169,064 roboto-slab-v7-regular.ttf

04/17/2020 06:46 AM 86,288 roboto-slab-v7-regular.woff

04/17/2020 06:46 AM 66,444 roboto-slab-v7-regular.woff2

8 File(s) 805,199 bytes

Directory of c:\tmp\doc2html\build\html\\_static\js

04/15/2020 11:01 AM <DIR> .

04/15/2020 11:01 AM <DIR> ..

04/17/2020 06:46 AM 15,414 modernizr.min.js

04/17/2020 06:46 AM 4,414 theme.js

2 File(s) 19,828 bytes

Total Files Listed:

92 File(s) 12,309,374 bytes

26 Dir(s) 14,220,374,016 bytes free

## Notes

This is something to consider. Fdgjhdfsdfs gkjghfdskjghdfk sjhgkjfdshgkjfdshgk fdshgkjf dshgjkfd hsgkjfhds jkgf hdsjk ghfdskjghfd ksjhgfdk sjlhgk jfdshgkf dsjdfsg lkjdf slkjglkdsf fdgds dfsgdfs dsfgdsf dfsg erterwt dfdgdfhg dsfg dsfgd

## Warnings

This is something you really have to look at as it is a potential Danger! Fdgjhdfsdfs gkjghfdskjghdfk sjhgkjfdshgkjfdshgk fdshgkjf dshgjkfd hsgkjfhds jkgf hdsjk ghfdskjghfd ksjhgfdk sjlhgk jfdshgkf dsjdfsg lkjdf slkjglkdsf dfgsdf dfgdsf dfsg dfsg.

## Tables

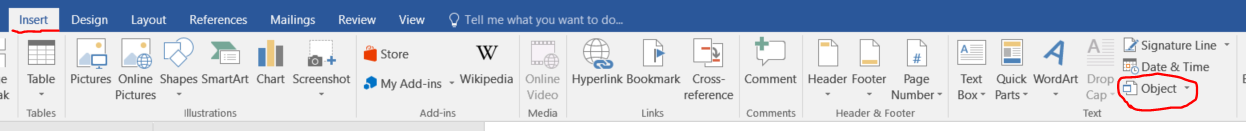
|  |  |  |
| --- | --- | --- |
| Device | Version | Notes |
| Router1 | Firmware v1.2.3 | Main Lab Router |
| Router2 | Firmware v1.2.3 | Stand-by Lab Router |
| Router3 | Firmware v1.2.3 | Stand-by Lab Router |
| Switch1 | Firmware va.b | Main Lab Switch |
| Switch2 | Firmware va.b | Stand-by Switch |
| Switch3 | Firmware va.b | Stand-by Switch |
| Server-A | Ubuntu 16.04.5 | HA Server 1 |
| Server-B | Ubuntu 16.04.5 | HA Server 2 |
| Server-C | Ubuntu 16.04.5 | HA Server 3 |
| MyClient | Win 10 | Win 10 Client |
| OtherClient | MacOS | MacOS Client |

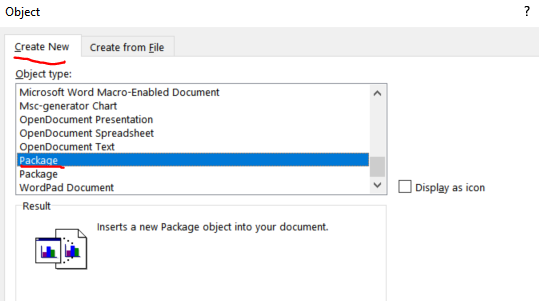
## Bullet Points

* First
* Second
* Third
  + Sdafasdf
  + Sadfsdaf
    - Sadfsda
    - Sdafsad
    - Asfda
    - Safdsda
  + Sadfasdf
* sadfasdf

## Embedded Files

Don’t use Drag&Drop to include Files into Word! They may not be extractable for the conversion. Better use the object-insertion dialogue and MAKE SURE they are included as “Package” as shown below!





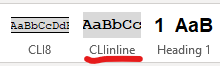
Now here is the File we have embedded. This is a zip-file containing a version of the Files used to create the Docker-Container (may not be at the latest state but works)



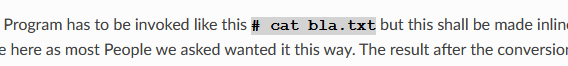
## Changes after initial release V1.5

### New Feature: Inline CLI

Starting with V1.6 of this Framework we support CLI commands embedded in regular text. We’ve added a new Style button between CLI8 and Heading1

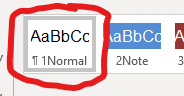


A typical example of using this new style is that you want to express that a Program has to be invoked like this # cat bla.txt but this shall be made inline of the text that you write and not as a separate box because it is better readable this way. We only support the black color code here as most People seem to be using it this way. The result after the conversion to HTML should look like the below:

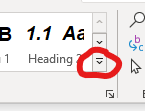


Here is the way to add this style to existing documents already following our style-guide.

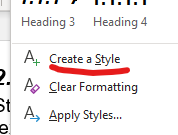
Make sure you have currently selected “1Normal”



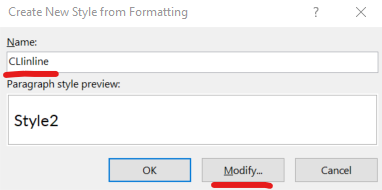
Then click on this button



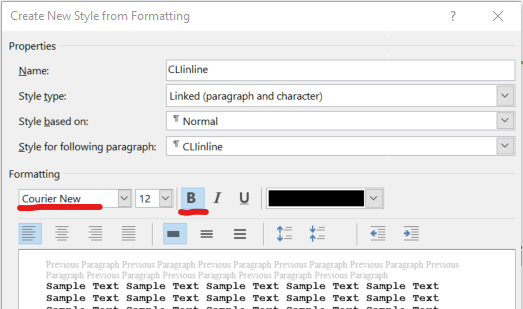
Create a Style (which is derived from 1Normal in this case)



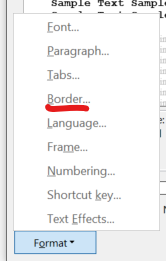
The Name of the new Style MUST be “CLIinline”. Be sure to have the same upper/lowercase name else the conversion script can’t recognize this. Instead of “OK” click on “Modify” to make the other changes.



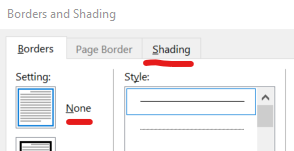
Under Formatting change the Font to “Courier New” and select Bold.



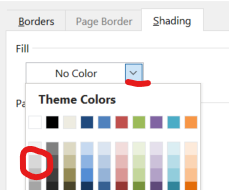
Via the lower left corner of this dialogue select “Border”



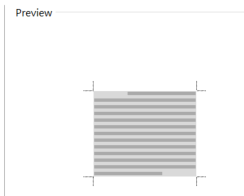
Make sure the “Setting” is “None” and then select the “Shading”-Tab.



Under “Fill” select the grey background color you like instead of “No Color”



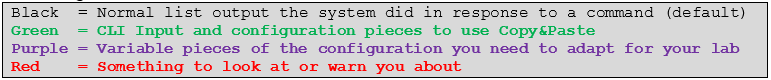
Make sure the Preview changes like this now.



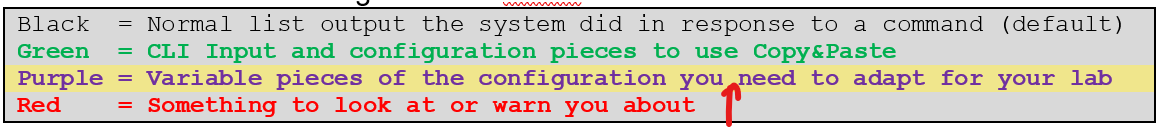
Click two times “OK” to end this dialogue. Your new Style should now be created.

### Change: Changed Background color for purple configuration-change indicator

In versions prior to V1.7 the purple color configuration change indicator had the same background color than all the others.

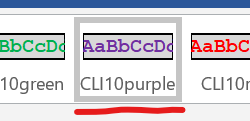


However, we’ve seen People not recognizing them well and sometimes skipping an indicated change to be made. Hence this is now a light yellow (html Khaki #F0E68C) background so that it is better to see and observe.

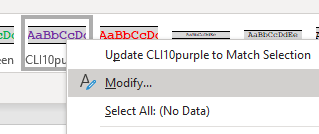


After updating the conversion container, the update automatically happens on the html-version. If you have existing Word Documents with the older style one can update them as follows:

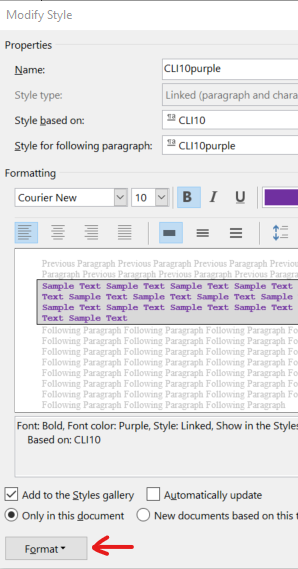
Make sure you have currently selected “CLI10purple”



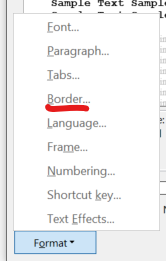
Right-Click and then click on the “Modify”-Button



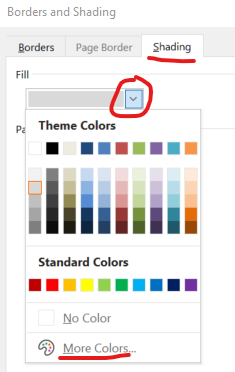
Open “Format” in the lower left corner of the dialogue box.



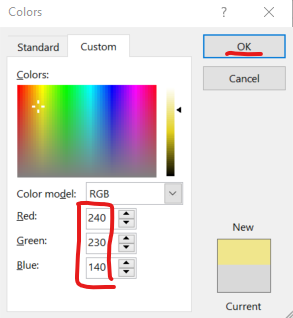
Select “Border”



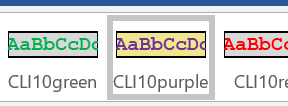
Select the “Shading”-Tab then open further colors under “Fill” and use “More colors”.



Change the colors to the custom defined values as indicated below, then exit via “OK”.

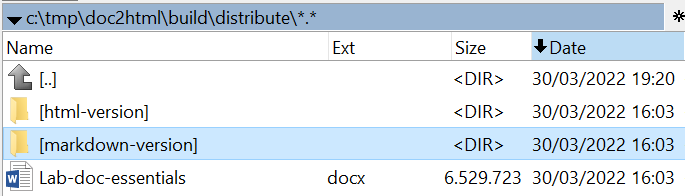


Click on “OK” as many times it needs to acknowledge the change and finish the change. The changed Style should now look like this.

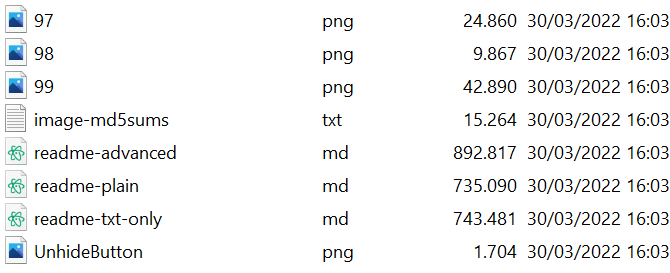


### New Feature: Documentation output as Markdown

Starting with V1.7 a new documentation output option is avail. We now support, aside from the html version, also **GitHub Flavored Markdown** stored in a new separate sub-directory.



There are up to three differed markdown versions of the same document avail for different use-cases along with the pictures itself:



The created markdown files have the following purpose:

* The File readme-advanced.md tries to come as close as possible to the html version. In this File the color style we use for code and output are made visible via heavily usage of inline html as markdown only support automated code highlighting. **This File is perfect if you want to share your final results** with others and renders like the build-in in the Atom-Editor (we tested V1.60). It is intended to act as another alternative to share your lab documentation. You only lose the left chapter navigation-pane vs. the html-version. You can easily edit the normal text-sections still after conversion but we do not recommend you touch the code-sections containing the inline-html. Do not worry. What locks a bit like chaos in markdown like the example below:

### Test the entire configuration and Setup

To test the configuration, from the Demo-Host, you can SSH to the

vSRX-Router and test if you can Ping Desktop1 (IP=10.99.99.99) and

Desktop2 VM (IP=10.88.88.88)

<div class="mybox" style="border: 1px solid #e1e4e5 ; overflow-x: auto; margin: 0px 0 16px; box-sizing: border-box; padding: 5px; background: #F7F7F7;"><div class="mycode" style="font-weight: 400; box-sizing: border-box; font-family: SFMono-Regular,Menlo,Monaco,Consolas,Liberation Mono,Courier New,Courier,monospace; font-size: 12px; line-height: 1.2; white-space: pre;"><span>

<span style="color:green"><b>ssh root@192.168.10.99 (juniper123)</b></span style="color:green">

<span style="color:green"><b>cli</b></span style="color:green">

<span style="color:green"><b>ping 10.99.99.99</b></span style="color:green">

<span>PING 10.99.99.99 (10.99.99.99): 56 data bytes</span>

<span>64 bytes from 10.99.99.99: icmp\_seq=1 ttl=64 time=258.897 ms</span>

<span>64 bytes from 10.99.99.99: icmp\_seq=2 ttl=64 time=362.136 ms</span>

<span>64 bytes from 10.99.99.99: icmp\_seq=3 ttl=64 time=320.097 ms</span>

<span style="color:green"><b>^C</b></span style="color:green">

<span style="color:green"><b></b></span style="color:green">

<span style="color:green"><b>ping 10.88.88.88</b></span style="color:green">

<span>PING 10.88.88.88 (10.88.88.88): 56 data bytes</span>

<span>64 bytes from 10.88.88.88: icmp\_seq=1 ttl=64 time=141.523 ms</span>

<span>64 bytes from 10.88.88.88: icmp\_seq=2 ttl=64 time=281.545 ms</span>

<span>64 bytes from 10.88.88.88: icmp\_seq=3 ttl=64 time=218.374 ms</span>

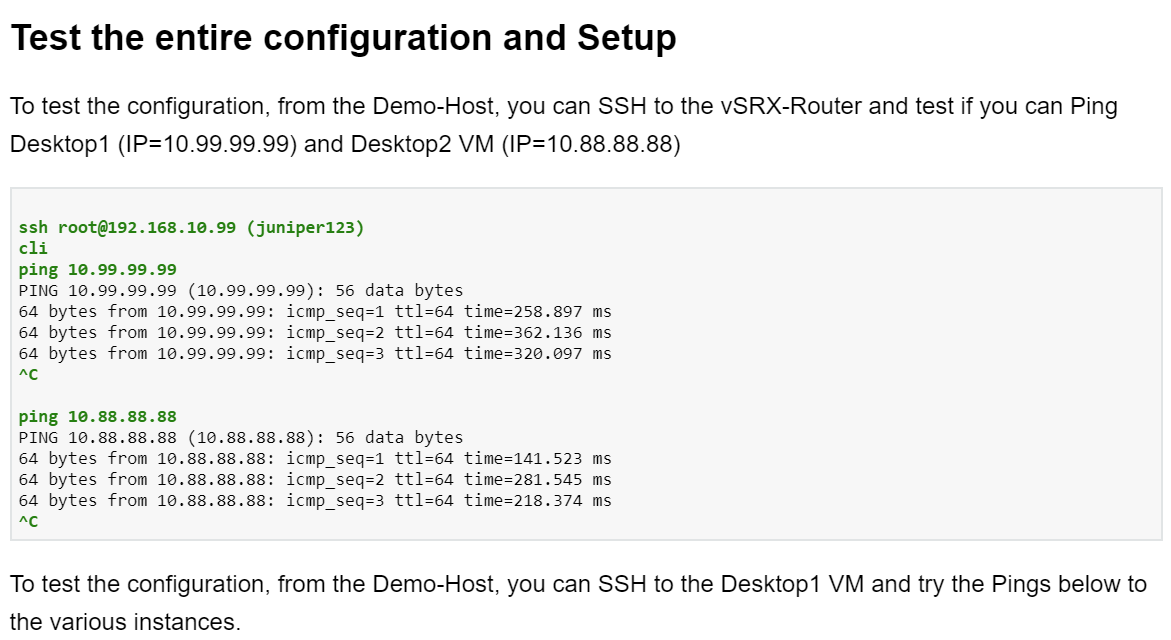
<span style="color:green"><b>^C</b></span style="color:green">

<font color="black"></span></div></div>

To test the configuration, from the Demo-Host, you can SSH to the

Desktop1 VM and try the Pings below to the various instances.

Is going to lock pretty when your markdown file is going to be rendered. Expect experience like this:



Remember to be able to use a copy&paste approach is key here and that will work in the rendered markdown version as well.

Should you attempt to use this markdown version on github.com then we have bad news for you: **Github.com filters out all our inline html color settings** when it renders your markdown for display! Use the plain markdown version please.

* The File readme-plain.md tries to remove fancy inline html to make this markdown file editable. The natural **downside is that you lose all our color styles** but one can now edit the code sections. **This File is perfect if you want others to edit it, but they do not like to use Microsoft Word.** It is also working great when you publish on github.com .
* The File readme-txt-only.md is **OPTIONAL** and only is created when you add the term md5 to the conversion cli (like the other parameters like new and old). We made it optional because creation may take some additional time over the usual conversion processes. **This File is perfect if you want to track changes between the original word-versions using a versioning system like git.** In this markdown file we have the original image references like the below converted:

![image](2.png)

However instead of removing them we replaced them with the md5 hashes instead of the filename. The above example would now look like THIS in markdown:

Image-with-MD5sum:23519d95256230c987da3f50ceaab4c7

Reason for this is that the filename changes dynamically wherever you insert or delete an image in the Word File. On every conversion those image names are created top to bottom and then can change. With replacing those filenames with the md5sum of the images those would stay the same between different versions. Should you replace an image with a new one you should then see a changed resulting md5sum between the different versions still at the same place in the markdown file. A simple diff between the same markdown file will enable you to understand such a change as well. We also store a reference file in the same folder called image-md5sums.txt is case you want to know, noticing a change how the filename was so you can check the picture then.

The original chapter numbers are lost in all markdown versions as the original reStructuredText File for Sphinx did not contain them (they are autogenerated there).

# Word-Document conversion to HTML with readthedocs theme

Our Lab Framework consists of two important Pieces:

1. A Word-Template and Styles for the Editor of the Lab documentation. This enables you to create the Documents and use the suggested Color-Schema easily that makes it so easy to follow the instructions.
2. A Converter that transforms the Word-Doc from the Editor in nice looking static HTML Pages that can be reviewed offline/online via an ordinary (Java-Script enabled) Web-Browser. The Color-Schema is preserved for the original Word. Simple Copy&Paste form HTML is guaranteed to work without losing indents vs. a PDF.

Both approaches and how to use them is explained in the following Chapters.

## How to import the Styles of this Document into your existing Doc

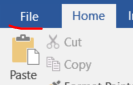
The styles (they are reduced to the bare minimum of what you see here) of this document act as template for the conversion. It is important to keep the name of the style the same in the document you want to convert but you can change the look and feel in your own word documents if you like.

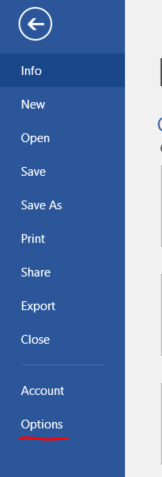
You have two methods of getting your own, existing documents updated.

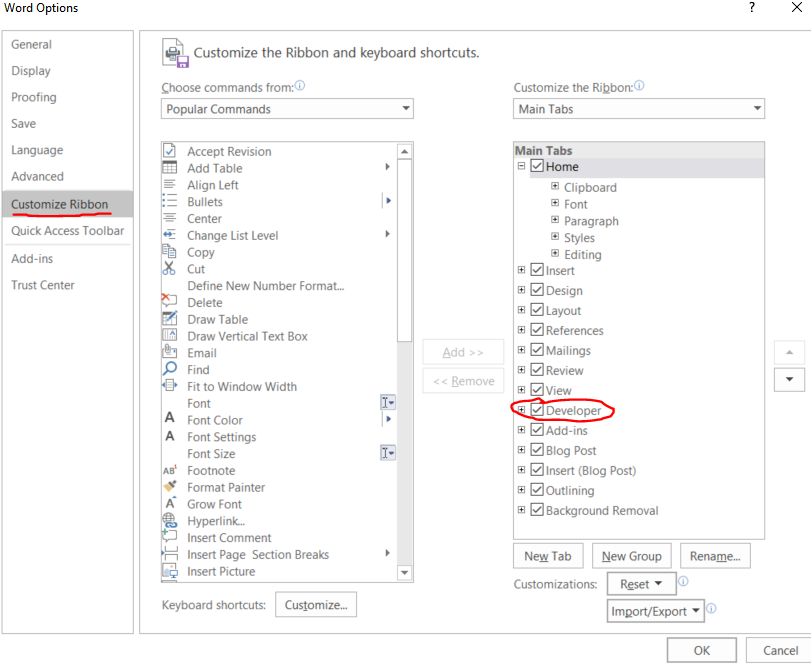
1. If they are small documents, then it is best to use the Empty-Word-Template.docx File and use that as your own Word-Doc. Then you just use copy and paste from your existing document to the template and make sure it’s getting the right styles applied.
2. On large existing documents it may pay-off to import the styles for this document and then make sure they are used as appropriate.

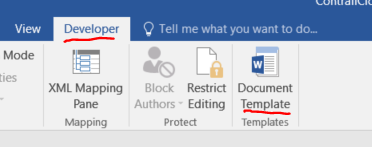
This second method has the potential back draw that maybe you use a style that’s not known in the first process where we use python-mammoth but check the output of this process and maybe adapt the style-mapping if you run into issues.

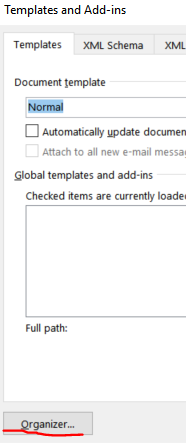
The second is a suggestion I found originally [here](https://www.extendoffice.com/documents/word/1004-word-import-styles.html).

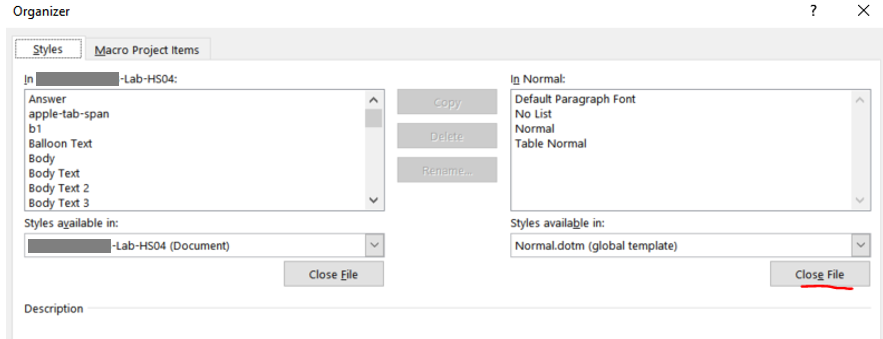


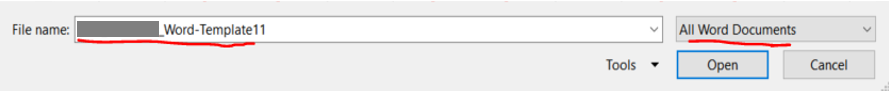


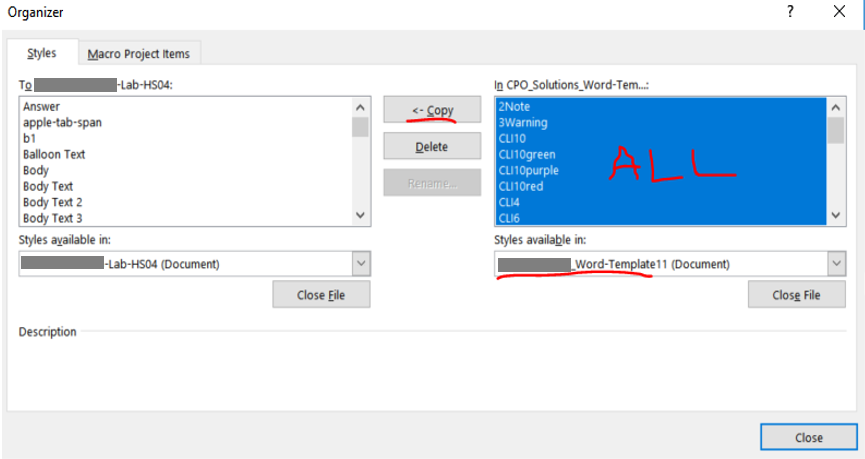




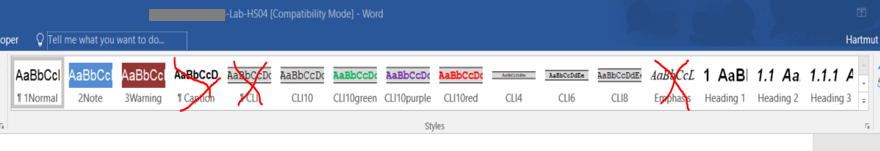








In my case also the Style-Sheet Quick access Pane automatically added the new Styles so I only need to delete the existing ones that are no longer needed/used which is a right-click on each and then “Remove from Style Gallery”.



## Using a Docker Container for conversion

This work is based on the suggestion of my colleague Marcel Wiget to use a Container instead of a VM or native Linux-Shell as the original approach was. It’s easier to use and we have tested this with Windows 10, MacOS and Ubuntu-Linux. We’ve passed Word-Docs with more than a 1.000 Pages successfully though this.

If your Docker-Platform is Windows 10 then make sure it’s been set to use Linux-Containers and not Windows Containers.

### Creating the translation Container

Do a “git clone” of the repository or [download](https://github.com/Juniper/lab-doc-convert/archive/master.zip) it as a ZIP-Archive and unpack it. Once this is done go into the sub-directory where the content is. It should be similar to the below:

c:\tmp\doc2html>dir

04/15/2020 12:36 PM <DIR> .

04/15/2020 12:36 PM <DIR> ..

04/08/2020 03:38 PM 82 .gitignore

04/15/2020 10:08 AM 13,230 convert.sh

04/09/2020 09:26 AM 720 COPYRIGHT

04/01/2020 02:59 PM 804 Dockerfile

04/01/2020 10:55 PM 77,567 Empty-Word-Template.docx

04/15/2020 12:24 PM 2,056,312 Lab-doc-essentials.docx

04/08/2020 07:59 PM 18,097 LICENSE

04/15/2020 12:36 PM <DIR> newproject

04/15/2020 12:33 PM 19,505 README.md

04/15/2020 12:36 PM <DIR> readmemdpictures

Make sure you have no other big files in this directory as “Docker build” doesn’t like this.

Then we build the Container locally as shown. The build runs about 10-15 Minutes depending on your Internet connection. When we build the Container, we try to always use the latest version of the Third-Party Software we use but it may happen that we have not tested this combination. In this case you might want to nail a certain version causing you an issue in the Dockerfile. The information which versions we have used is below in the logfile.

c:\tmp\doc2html>docker build -t juniper/doc2html .

For reference this was the logfile-output during Container creation

Sending build context to Docker daemon 10.78MB

Step 1/12 : FROM ubuntu:18.04 as build

18.04: Pulling from library/ubuntu

5bed26d33875: Pull complete

f11b29a9c730: Pull complete

930bda195c84: Pull complete

78bf9a5ad49e: Pull complete

Digest: sha256:bec5a2727be7fff3d308193cfde3491f8fba1a2ba392b7546b43a051853a341d

Status: Downloaded newer image for ubuntu:18.04

---> 4e5021d210f6

Step 2/12 : RUN export DEBIAN\_FRONTEND=noninteractive && apt-get update && apt-get install -y python3-pip wget libz-dev && pip3 install -U mammoth Sphinx sphinx\_rtd\_theme oletools

---> Running in e7fed89beb32

Get:1 http://archive.ubuntu.com/ubuntu bionic InRelease [242 kB]

Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]

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Get:18 http://archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [4247 B]

Fetched 17.7 MB in 6s (3061 kB/s)

Reading package lists...

Reading package lists...

Building dependency tree...

Reading state information...

The following additional packages will be installed:

binutils binutils-common binutils-x86-64-linux-gnu build-essential

ca-certificates cpp cpp-7 dbus dh-python dirmngr dpkg-dev fakeroot file g++

g++-7 gcc gcc-7 gcc-7-base gcc-8-base gir1.2-glib-2.0 gnupg gnupg-l10n

gnupg-utils gpg gpg-agent gpg-wks-client gpg-wks-server gpgconf gpgsm

libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl

libapparmor1 libasan4 libasn1-8-heimdal libassuan0 libatomic1 libbinutils

libc-dev-bin libc6-dev libcc1-0 libcilkrts5 libdbus-1-3 libdpkg-perl

libexpat1 libexpat1-dev libfakeroot libfile-fcntllock-perl libgcc-7-dev

libgcc1 libgdbm-compat4 libgdbm5 libgirepository-1.0-1 libglib2.0-0

libglib2.0-data libgomp1 libgssapi3-heimdal libhcrypto4-heimdal

libheimbase1-heimdal libheimntlm0-heimdal libhx509-5-heimdal libicu60

libisl19 libitm1 libkrb5-26-heimdal libksba8 libldap-2.4-2 libldap-common

liblocale-gettext-perl liblsan0 libmagic-mgc libmagic1 libmpc3 libmpdec2

libmpfr6 libmpx2 libnpth0 libperl5.26 libpsl5 libpython3-dev

libpython3-stdlib libpython3.6 libpython3.6-dev libpython3.6-minimal

libpython3.6-stdlib libquadmath0 libreadline7 libroken18-heimdal libsasl2-2

libsasl2-modules libsasl2-modules-db libsqlite3-0 libssl1.1 libstdc++-7-dev

libstdc++6 libtsan0 libubsan0 libwind0-heimdal libxml2 linux-libc-dev make

manpages manpages-dev mime-support netbase openssl patch perl

perl-modules-5.26 pinentry-curses publicsuffix python-pip-whl python3

python3-asn1crypto python3-cffi-backend python3-crypto python3-cryptography

python3-dbus python3-dev python3-distutils python3-gi python3-idna

python3-keyring python3-keyrings.alt python3-lib2to3 python3-minimal

python3-pkg-resources python3-secretstorage python3-setuptools python3-six

python3-wheel python3-xdg python3.6 python3.6-dev python3.6-minimal

readline-common shared-mime-info xdg-user-dirs xz-utils

Suggested packages:

binutils-doc cpp-doc gcc-7-locales default-dbus-session-bus

| dbus-session-bus dbus-user-session libpam-systemd pinentry-gnome3 tor

debian-keyring g++-multilib g++-7-multilib gcc-7-doc libstdc++6-7-dbg

gcc-multilib autoconf automake libtool flex bison gdb gcc-doc gcc-7-multilib

libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg libasan4-dbg

liblsan0-dbg libtsan0-dbg libubsan0-dbg libcilkrts5-dbg libmpx2-dbg

libquadmath0-dbg parcimonie xloadimage scdaemon glibc-doc git bzr gdbm-l10n

libsasl2-modules-gssapi-mit | libsasl2-modules-gssapi-heimdal

libsasl2-modules-ldap libsasl2-modules-otp libsasl2-modules-sql

libstdc++-7-doc make-doc man-browser ed diffutils-doc perl-doc

libterm-readline-gnu-perl | libterm-readline-perl-perl pinentry-doc

python3-doc python3-tk python3-venv python-crypto-doc

python-cryptography-doc python3-cryptography-vectors python-dbus-doc

python3-dbus-dbg gnome-keyring libkf5wallet-bin gir1.2-gnomekeyring-1.0

python-secretstorage-doc python-setuptools-doc python3.6-venv python3.6-doc

binfmt-support readline-doc

The following NEW packages will be installed:

binutils binutils-common binutils-x86-64-linux-gnu build-essential

ca-certificates cpp cpp-7 dbus dh-python dirmngr dpkg-dev fakeroot file g++

g++-7 gcc gcc-7 gcc-7-base gir1.2-glib-2.0 gnupg gnupg-l10n gnupg-utils gpg

gpg-agent gpg-wks-client gpg-wks-server gpgconf gpgsm libalgorithm-diff-perl

libalgorithm-diff-xs-perl libalgorithm-merge-perl libapparmor1 libasan4

libasn1-8-heimdal libassuan0 libatomic1 libbinutils libc-dev-bin libc6-dev

libcc1-0 libcilkrts5 libdbus-1-3 libdpkg-perl libexpat1 libexpat1-dev

libfakeroot libfile-fcntllock-perl libgcc-7-dev libgdbm-compat4 libgdbm5

libgirepository-1.0-1 libglib2.0-0 libglib2.0-data libgomp1

libgssapi3-heimdal libhcrypto4-heimdal libheimbase1-heimdal

libheimntlm0-heimdal libhx509-5-heimdal libicu60 libisl19 libitm1

libkrb5-26-heimdal libksba8 libldap-2.4-2 libldap-common

liblocale-gettext-perl liblsan0 libmagic-mgc libmagic1 libmpc3 libmpdec2

libmpfr6 libmpx2 libnpth0 libperl5.26 libpsl5 libpython3-dev

libpython3-stdlib libpython3.6 libpython3.6-dev libpython3.6-minimal

libpython3.6-stdlib libquadmath0 libreadline7 libroken18-heimdal libsasl2-2

libsasl2-modules libsasl2-modules-db libsqlite3-0 libssl1.1 libstdc++-7-dev

libtsan0 libubsan0 libwind0-heimdal libxml2 linux-libc-dev make manpages

manpages-dev mime-support netbase openssl patch perl perl-modules-5.26

pinentry-curses publicsuffix python-pip-whl python3 python3-asn1crypto

python3-cffi-backend python3-crypto python3-cryptography python3-dbus

python3-dev python3-distutils python3-gi python3-idna python3-keyring

python3-keyrings.alt python3-lib2to3 python3-minimal python3-pip

python3-pkg-resources python3-secretstorage python3-setuptools python3-six

python3-wheel python3-xdg python3.6 python3.6-dev python3.6-minimal

readline-common shared-mime-info wget xdg-user-dirs xz-utils zlib1g-dev

The following packages will be upgraded:

gcc-8-base libgcc1 libstdc++6

3 upgraded, 139 newly installed, 0 to remove and 9 not upgraded.

Need to get 124 MB of archives.

After this operation, 396 MB of additional disk space will be used.

Get:1 http://archive.ubuntu.com/ubuntu bionic/main amd64 liblocale-gettext-perl amd64 1.07-3build2 [16.6 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libssl1.1 amd64 1.1.1-1ubuntu2.1~18.04.5 [1300 kB]

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Get:95 http://archive.ubuntu.com/ubuntu bionic/main amd64 libkrb5-26-heimdal amd64 7.5.0+dfsg-1 [206 kB]

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Get:98 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libsasl2-modules-db amd64 2.1.27~101-g0780600+dfsg-3ubuntu2.1 [14.8 kB]

Get:99 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libsasl2-2 amd64 2.1.27~101-g0780600+dfsg-3ubuntu2.1 [49.2 kB]

Get:100 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libldap-common all 2.4.45+dfsg-1ubuntu1.4 [16.9 kB]

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Get:118 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libexpat1-dev amd64 2.2.5-3ubuntu0.2 [122 kB]

Get:119 http://archive.ubuntu.com/ubuntu bionic/main amd64 libfile-fcntllock-perl amd64 0.22-3build2 [33.2 kB]

Get:120 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6 amd64 3.6.9-1~18.04 [1414 kB]

Get:121 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-dev amd64 3.6.9-1~18.04 [44.8 MB]

Get:122 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3-dev amd64 3.6.7-1~18.04 [7328 B]

Get:123 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libsasl2-modules amd64 2.1.27~101-g0780600+dfsg-3ubuntu2.1 [48.8 kB]

Get:124 http://archive.ubuntu.com/ubuntu bionic/main amd64 manpages-dev all 4.15-1 [2217 kB]

Get:125 http://archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python-pip-whl all 9.0.1-2.3~ubuntu1.18.04.1 [1653 kB]

Get:126 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-asn1crypto all 0.24.0-1 [72.8 kB]

Get:127 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-cffi-backend amd64 1.11.5-1 [64.6 kB]

Get:128 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-crypto amd64 2.6.1-8ubuntu2 [244 kB]

Get:129 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-idna all 2.6-1 [32.5 kB]

Get:130 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-six all 1.11.0-2 [11.4 kB]

Get:131 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-cryptography amd64 2.1.4-1ubuntu1.3 [221 kB]

Get:132 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6-dev amd64 3.6.9-1~18.04 [508 kB]

Get:133 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-dev amd64 3.6.7-1~18.04 [1288 B]

Get:134 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-secretstorage all 2.3.1-2 [12.1 kB]

Get:135 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-keyring all 10.6.0-1 [26.7 kB]

Get:136 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-keyrings.alt all 3.0-1 [16.6 kB]

Get:137 http://archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python3-pip all 9.0.1-2.3~ubuntu1.18.04.1 [114 kB]

Get:138 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-pkg-resources all 39.0.1-2 [98.8 kB]

Get:139 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-setuptools all 39.0.1-2 [248 kB]

Get:140 http://archive.ubuntu.com/ubuntu bionic/universe amd64 python3-wheel all 0.30.0-0.2 [36.5 kB]

Get:141 http://archive.ubuntu.com/ubuntu bionic/main amd64 python3-xdg all 0.25-4ubuntu1 [31.4 kB]

Get:142 http://archive.ubuntu.com/ubuntu bionic/main amd64 zlib1g-dev amd64 1:1.2.11.dfsg-0ubuntu2 [176 kB]

debconf: delaying package configuration, since apt-utils is not installed

Fetched 124 MB in 44s (2810 kB/s)

Selecting previously unselected package liblocale-gettext-perl.

(Reading database ... 4046 files and directories currently installed.)

Preparing to unpack .../liblocale-gettext-perl\_1.07-3build2\_amd64.deb ...

Unpacking liblocale-gettext-perl (1.07-3build2) ...

Selecting previously unselected package libssl1.1:amd64.

Preparing to unpack .../libssl1.1\_1.1.1-1ubuntu2.1~18.04.5\_amd64.deb ...

Unpacking libssl1.1:amd64 (1.1.1-1ubuntu2.1~18.04.5) ...

Selecting previously unselected package libpython3.6-minimal:amd64.

Preparing to unpack .../libpython3.6-minimal\_3.6.9-1~18.04\_amd64.deb ...

Unpacking libpython3.6-minimal:amd64 (3.6.9-1~18.04) ...

Selecting previously unselected package libexpat1:amd64.

Preparing to unpack .../libexpat1\_2.2.5-3ubuntu0.2\_amd64.deb ...

Unpacking libexpat1:amd64 (2.2.5-3ubuntu0.2) ...

Selecting previously unselected package python3.6-minimal.

Preparing to unpack .../python3.6-minimal\_3.6.9-1~18.04\_amd64.deb ...

Unpacking python3.6-minimal (3.6.9-1~18.04) ...

Setting up libssl1.1:amd64 (1.1.1-1ubuntu2.1~18.04.5) ...

Setting up libpython3.6-minimal:amd64 (3.6.9-1~18.04) ...

Setting up libexpat1:amd64 (2.2.5-3ubuntu0.2) ...

Setting up python3.6-minimal (3.6.9-1~18.04) ...

Selecting previously unselected package python3-minimal.

(Reading database ... 4317 files and directories currently installed.)

Preparing to unpack .../0-python3-minimal\_3.6.7-1~18.04\_amd64.deb ...

Unpacking python3-minimal (3.6.7-1~18.04) ...

Selecting previously unselected package mime-support.

Preparing to unpack .../1-mime-support\_3.60ubuntu1\_all.deb ...

Unpacking mime-support (3.60ubuntu1) ...

Selecting previously unselected package libmpdec2:amd64.

Preparing to unpack .../2-libmpdec2\_2.4.2-1ubuntu1\_amd64.deb ...

Unpacking libmpdec2:amd64 (2.4.2-1ubuntu1) ...

Selecting previously unselected package readline-common.

Preparing to unpack .../3-readline-common\_7.0-3\_all.deb ...

Unpacking readline-common (7.0-3) ...

Selecting previously unselected package libreadline7:amd64.

Preparing to unpack .../4-libreadline7\_7.0-3\_amd64.deb ...

Unpacking libreadline7:amd64 (7.0-3) ...

Selecting previously unselected package libsqlite3-0:amd64.

Preparing to unpack .../5-libsqlite3-0\_3.22.0-1ubuntu0.3\_amd64.deb ...

Unpacking libsqlite3-0:amd64 (3.22.0-1ubuntu0.3) ...

Selecting previously unselected package libpython3.6-stdlib:amd64.

Preparing to unpack .../6-libpython3.6-stdlib\_3.6.9-1~18.04\_amd64.deb ...

Unpacking libpython3.6-stdlib:amd64 (3.6.9-1~18.04) ...

Selecting previously unselected package python3.6.

Preparing to unpack .../7-python3.6\_3.6.9-1~18.04\_amd64.deb ...

Unpacking python3.6 (3.6.9-1~18.04) ...

Selecting previously unselected package libpython3-stdlib:amd64.

Preparing to unpack .../8-libpython3-stdlib\_3.6.7-1~18.04\_amd64.deb ...

Unpacking libpython3-stdlib:amd64 (3.6.7-1~18.04) ...

Setting up python3-minimal (3.6.7-1~18.04) ...

Selecting previously unselected package python3.

(Reading database ... 4775 files and directories currently installed.)

Preparing to unpack .../0-python3\_3.6.7-1~18.04\_amd64.deb ...

Unpacking python3 (3.6.7-1~18.04) ...

Selecting previously unselected package perl-modules-5.26.

Preparing to unpack .../1-perl-modules-5.26\_5.26.1-6ubuntu0.3\_all.deb ...

Unpacking perl-modules-5.26 (5.26.1-6ubuntu0.3) ...

Selecting previously unselected package libgdbm5:amd64.

Preparing to unpack .../2-libgdbm5\_1.14.1-6\_amd64.deb ...

Unpacking libgdbm5:amd64 (1.14.1-6) ...

Selecting previously unselected package libgdbm-compat4:amd64.

Preparing to unpack .../3-libgdbm-compat4\_1.14.1-6\_amd64.deb ...

Unpacking libgdbm-compat4:amd64 (1.14.1-6) ...

Selecting previously unselected package libperl5.26:amd64.

Preparing to unpack .../4-libperl5.26\_5.26.1-6ubuntu0.3\_amd64.deb ...

Unpacking libperl5.26:amd64 (5.26.1-6ubuntu0.3) ...

Selecting previously unselected package perl.

Preparing to unpack .../5-perl\_5.26.1-6ubuntu0.3\_amd64.deb ...

Unpacking perl (5.26.1-6ubuntu0.3) ...

Preparing to unpack .../6-gcc-8-base\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking gcc-8-base:amd64 (8.4.0-1ubuntu1~18.04) over (8.3.0-26ubuntu1~18.04) ...

Setting up gcc-8-base:amd64 (8.4.0-1ubuntu1~18.04) ...

(Reading database ... 6718 files and directories currently installed.)

Preparing to unpack .../libstdc++6\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libstdc++6:amd64 (8.4.0-1ubuntu1~18.04) over (8.3.0-26ubuntu1~18.04) ...

Setting up libstdc++6:amd64 (8.4.0-1ubuntu1~18.04) ...

(Reading database ... 6718 files and directories currently installed.)

Preparing to unpack .../libgcc1\_1%3a8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libgcc1:amd64 (1:8.4.0-1ubuntu1~18.04) over (1:8.3.0-26ubuntu1~18.04) ...

Setting up libgcc1:amd64 (1:8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package openssl.

(Reading database ... 6718 files and directories currently installed.)

Preparing to unpack .../000-openssl\_1.1.1-1ubuntu2.1~18.04.5\_amd64.deb ...

Unpacking openssl (1.1.1-1ubuntu2.1~18.04.5) ...

Selecting previously unselected package ca-certificates.

Preparing to unpack .../001-ca-certificates\_20180409\_all.deb ...

Unpacking ca-certificates (20180409) ...

Selecting previously unselected package libapparmor1:amd64.

Preparing to unpack .../002-libapparmor1\_2.12-4ubuntu5.1\_amd64.deb ...

Unpacking libapparmor1:amd64 (2.12-4ubuntu5.1) ...

Selecting previously unselected package libdbus-1-3:amd64.

Preparing to unpack .../003-libdbus-1-3\_1.12.2-1ubuntu1.1\_amd64.deb ...

Unpacking libdbus-1-3:amd64 (1.12.2-1ubuntu1.1) ...

Selecting previously unselected package dbus.

Preparing to unpack .../004-dbus\_1.12.2-1ubuntu1.1\_amd64.deb ...

Unpacking dbus (1.12.2-1ubuntu1.1) ...

Selecting previously unselected package libmagic-mgc.

Preparing to unpack .../005-libmagic-mgc\_1%3a5.32-2ubuntu0.3\_amd64.deb ...

Unpacking libmagic-mgc (1:5.32-2ubuntu0.3) ...

Selecting previously unselected package libmagic1:amd64.

Preparing to unpack .../006-libmagic1\_1%3a5.32-2ubuntu0.3\_amd64.deb ...

Unpacking libmagic1:amd64 (1:5.32-2ubuntu0.3) ...

Selecting previously unselected package file.

Preparing to unpack .../007-file\_1%3a5.32-2ubuntu0.3\_amd64.deb ...

Unpacking file (1:5.32-2ubuntu0.3) ...

Selecting previously unselected package libglib2.0-0:amd64.

Preparing to unpack .../008-libglib2.0-0\_2.56.4-0ubuntu0.18.04.6\_amd64.deb ...

Unpacking libglib2.0-0:amd64 (2.56.4-0ubuntu0.18.04.6) ...

Selecting previously unselected package libgirepository-1.0-1:amd64.

Preparing to unpack .../009-libgirepository-1.0-1\_1.56.1-1\_amd64.deb ...

Unpacking libgirepository-1.0-1:amd64 (1.56.1-1) ...

Selecting previously unselected package gir1.2-glib-2.0:amd64.

Preparing to unpack .../010-gir1.2-glib-2.0\_1.56.1-1\_amd64.deb ...

Unpacking gir1.2-glib-2.0:amd64 (1.56.1-1) ...

Selecting previously unselected package libglib2.0-data.

Preparing to unpack .../011-libglib2.0-data\_2.56.4-0ubuntu0.18.04.6\_all.deb ...

Unpacking libglib2.0-data (2.56.4-0ubuntu0.18.04.6) ...

Selecting previously unselected package libicu60:amd64.

Preparing to unpack .../012-libicu60\_60.2-3ubuntu3.1\_amd64.deb ...

Unpacking libicu60:amd64 (60.2-3ubuntu3.1) ...

Selecting previously unselected package libxml2:amd64.

Preparing to unpack .../013-libxml2\_2.9.4+dfsg1-6.1ubuntu1.3\_amd64.deb ...

Unpacking libxml2:amd64 (2.9.4+dfsg1-6.1ubuntu1.3) ...

Selecting previously unselected package netbase.

Preparing to unpack .../014-netbase\_5.4\_all.deb ...

Unpacking netbase (5.4) ...

Selecting previously unselected package python3-dbus.

Preparing to unpack .../015-python3-dbus\_1.2.6-1\_amd64.deb ...

Unpacking python3-dbus (1.2.6-1) ...

Selecting previously unselected package python3-gi.

Preparing to unpack .../016-python3-gi\_3.26.1-2ubuntu1\_amd64.deb ...

Unpacking python3-gi (3.26.1-2ubuntu1) ...

Selecting previously unselected package shared-mime-info.

Preparing to unpack .../017-shared-mime-info\_1.9-2\_amd64.deb ...

Unpacking shared-mime-info (1.9-2) ...

Selecting previously unselected package xdg-user-dirs.

Preparing to unpack .../018-xdg-user-dirs\_0.17-1ubuntu1\_amd64.deb ...

Unpacking xdg-user-dirs (0.17-1ubuntu1) ...

Selecting previously unselected package xz-utils.

Preparing to unpack .../019-xz-utils\_5.2.2-1.3\_amd64.deb ...

Unpacking xz-utils (5.2.2-1.3) ...

Selecting previously unselected package libpsl5:amd64.

Preparing to unpack .../020-libpsl5\_0.19.1-5build1\_amd64.deb ...

Unpacking libpsl5:amd64 (0.19.1-5build1) ...

Selecting previously unselected package manpages.

Preparing to unpack .../021-manpages\_4.15-1\_all.deb ...

Unpacking manpages (4.15-1) ...

Selecting previously unselected package publicsuffix.

Preparing to unpack .../022-publicsuffix\_20180223.1310-1\_all.deb ...

Unpacking publicsuffix (20180223.1310-1) ...

Selecting previously unselected package wget.

Preparing to unpack .../023-wget\_1.19.4-1ubuntu2.2\_amd64.deb ...

Unpacking wget (1.19.4-1ubuntu2.2) ...

Selecting previously unselected package binutils-common:amd64.

Preparing to unpack .../024-binutils-common\_2.30-21ubuntu1~18.04.2\_amd64.deb ...

Unpacking binutils-common:amd64 (2.30-21ubuntu1~18.04.2) ...

Selecting previously unselected package libbinutils:amd64.

Preparing to unpack .../025-libbinutils\_2.30-21ubuntu1~18.04.2\_amd64.deb ...

Unpacking libbinutils:amd64 (2.30-21ubuntu1~18.04.2) ...

Selecting previously unselected package binutils-x86-64-linux-gnu.

Preparing to unpack .../026-binutils-x86-64-linux-gnu\_2.30-21ubuntu1~18.04.2\_amd64.deb ...

Unpacking binutils-x86-64-linux-gnu (2.30-21ubuntu1~18.04.2) ...

Selecting previously unselected package binutils.

Preparing to unpack .../027-binutils\_2.30-21ubuntu1~18.04.2\_amd64.deb ...

Unpacking binutils (2.30-21ubuntu1~18.04.2) ...

Selecting previously unselected package libc-dev-bin.

Preparing to unpack .../028-libc-dev-bin\_2.27-3ubuntu1\_amd64.deb ...

Unpacking libc-dev-bin (2.27-3ubuntu1) ...

Selecting previously unselected package linux-libc-dev:amd64.

Preparing to unpack .../029-linux-libc-dev\_4.15.0-91.92\_amd64.deb ...

Unpacking linux-libc-dev:amd64 (4.15.0-91.92) ...

Selecting previously unselected package libc6-dev:amd64.

Preparing to unpack .../030-libc6-dev\_2.27-3ubuntu1\_amd64.deb ...

Unpacking libc6-dev:amd64 (2.27-3ubuntu1) ...

Selecting previously unselected package gcc-7-base:amd64.

Preparing to unpack .../031-gcc-7-base\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package libisl19:amd64.

Preparing to unpack .../032-libisl19\_0.19-1\_amd64.deb ...

Unpacking libisl19:amd64 (0.19-1) ...

Selecting previously unselected package libmpfr6:amd64.

Preparing to unpack .../033-libmpfr6\_4.0.1-1\_amd64.deb ...

Unpacking libmpfr6:amd64 (4.0.1-1) ...

Selecting previously unselected package libmpc3:amd64.

Preparing to unpack .../034-libmpc3\_1.1.0-1\_amd64.deb ...

Unpacking libmpc3:amd64 (1.1.0-1) ...

Selecting previously unselected package cpp-7.

Preparing to unpack .../035-cpp-7\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking cpp-7 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package cpp.

Preparing to unpack .../036-cpp\_4%3a7.4.0-1ubuntu2.3\_amd64.deb ...

Unpacking cpp (4:7.4.0-1ubuntu2.3) ...

Selecting previously unselected package libcc1-0:amd64.

Preparing to unpack .../037-libcc1-0\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libcc1-0:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libgomp1:amd64.

Preparing to unpack .../038-libgomp1\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libgomp1:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libitm1:amd64.

Preparing to unpack .../039-libitm1\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libitm1:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libatomic1:amd64.

Preparing to unpack .../040-libatomic1\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libatomic1:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libasan4:amd64.

Preparing to unpack .../041-libasan4\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libasan4:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package liblsan0:amd64.

Preparing to unpack .../042-liblsan0\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking liblsan0:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libtsan0:amd64.

Preparing to unpack .../043-libtsan0\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libtsan0:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libubsan0:amd64.

Preparing to unpack .../044-libubsan0\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libubsan0:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package libcilkrts5:amd64.

Preparing to unpack .../045-libcilkrts5\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libcilkrts5:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package libmpx2:amd64.

Preparing to unpack .../046-libmpx2\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libmpx2:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libquadmath0:amd64.

Preparing to unpack .../047-libquadmath0\_8.4.0-1ubuntu1~18.04\_amd64.deb ...

Unpacking libquadmath0:amd64 (8.4.0-1ubuntu1~18.04) ...

Selecting previously unselected package libgcc-7-dev:amd64.

Preparing to unpack .../048-libgcc-7-dev\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package gcc-7.

Preparing to unpack .../049-gcc-7\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking gcc-7 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package gcc.

Preparing to unpack .../050-gcc\_4%3a7.4.0-1ubuntu2.3\_amd64.deb ...

Unpacking gcc (4:7.4.0-1ubuntu2.3) ...

Selecting previously unselected package libstdc++-7-dev:amd64.

Preparing to unpack .../051-libstdc++-7-dev\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libstdc++-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package g++-7.

Preparing to unpack .../052-g++-7\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking g++-7 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package g++.

Preparing to unpack .../053-g++\_4%3a7.4.0-1ubuntu2.3\_amd64.deb ...

Unpacking g++ (4:7.4.0-1ubuntu2.3) ...

Selecting previously unselected package make.

Preparing to unpack .../054-make\_4.1-9.1ubuntu1\_amd64.deb ...

Unpacking make (4.1-9.1ubuntu1) ...

Selecting previously unselected package libdpkg-perl.

Preparing to unpack .../055-libdpkg-perl\_1.19.0.5ubuntu2.3\_all.deb ...

Unpacking libdpkg-perl (1.19.0.5ubuntu2.3) ...

Selecting previously unselected package patch.

Preparing to unpack .../056-patch\_2.7.6-2ubuntu1.1\_amd64.deb ...

Unpacking patch (2.7.6-2ubuntu1.1) ...

Selecting previously unselected package dpkg-dev.

Preparing to unpack .../057-dpkg-dev\_1.19.0.5ubuntu2.3\_all.deb ...

Unpacking dpkg-dev (1.19.0.5ubuntu2.3) ...

Selecting previously unselected package build-essential.

Preparing to unpack .../058-build-essential\_12.4ubuntu1\_amd64.deb ...

Unpacking build-essential (12.4ubuntu1) ...

Selecting previously unselected package python3-lib2to3.

Preparing to unpack .../059-python3-lib2to3\_3.6.9-1~18.04\_all.deb ...

Unpacking python3-lib2to3 (3.6.9-1~18.04) ...

Selecting previously unselected package python3-distutils.

Preparing to unpack .../060-python3-distutils\_3.6.9-1~18.04\_all.deb ...

Unpacking python3-distutils (3.6.9-1~18.04) ...

Selecting previously unselected package dh-python.

Preparing to unpack .../061-dh-python\_3.20180325ubuntu2\_all.deb ...

Unpacking dh-python (3.20180325ubuntu2) ...

Selecting previously unselected package libassuan0:amd64.

Preparing to unpack .../062-libassuan0\_2.5.1-2\_amd64.deb ...

Unpacking libassuan0:amd64 (2.5.1-2) ...

Selecting previously unselected package gpgconf.

Preparing to unpack .../063-gpgconf\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gpgconf (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package libksba8:amd64.

Preparing to unpack .../064-libksba8\_1.3.5-2\_amd64.deb ...

Unpacking libksba8:amd64 (1.3.5-2) ...

Selecting previously unselected package libroken18-heimdal:amd64.

Preparing to unpack .../065-libroken18-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libroken18-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libasn1-8-heimdal:amd64.

Preparing to unpack .../066-libasn1-8-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libasn1-8-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libheimbase1-heimdal:amd64.

Preparing to unpack .../067-libheimbase1-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libheimbase1-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libhcrypto4-heimdal:amd64.

Preparing to unpack .../068-libhcrypto4-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libhcrypto4-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libwind0-heimdal:amd64.

Preparing to unpack .../069-libwind0-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libwind0-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libhx509-5-heimdal:amd64.

Preparing to unpack .../070-libhx509-5-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libhx509-5-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libkrb5-26-heimdal:amd64.

Preparing to unpack .../071-libkrb5-26-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libkrb5-26-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libheimntlm0-heimdal:amd64.

Preparing to unpack .../072-libheimntlm0-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libheimntlm0-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libgssapi3-heimdal:amd64.

Preparing to unpack .../073-libgssapi3-heimdal\_7.5.0+dfsg-1\_amd64.deb ...

Unpacking libgssapi3-heimdal:amd64 (7.5.0+dfsg-1) ...

Selecting previously unselected package libsasl2-modules-db:amd64.

Preparing to unpack .../074-libsasl2-modules-db\_2.1.27~101-g0780600+dfsg-3ubuntu2.1\_amd64.deb ...

Unpacking libsasl2-modules-db:amd64 (2.1.27~101-g0780600+dfsg-3ubuntu2.1) ...

Selecting previously unselected package libsasl2-2:amd64.

Preparing to unpack .../075-libsasl2-2\_2.1.27~101-g0780600+dfsg-3ubuntu2.1\_amd64.deb ...

Unpacking libsasl2-2:amd64 (2.1.27~101-g0780600+dfsg-3ubuntu2.1) ...

Selecting previously unselected package libldap-common.

Preparing to unpack .../076-libldap-common\_2.4.45+dfsg-1ubuntu1.4\_all.deb ...

Unpacking libldap-common (2.4.45+dfsg-1ubuntu1.4) ...

Selecting previously unselected package libldap-2.4-2:amd64.

Preparing to unpack .../077-libldap-2.4-2\_2.4.45+dfsg-1ubuntu1.4\_amd64.deb ...

Unpacking libldap-2.4-2:amd64 (2.4.45+dfsg-1ubuntu1.4) ...

Selecting previously unselected package libnpth0:amd64.

Preparing to unpack .../078-libnpth0\_1.5-3\_amd64.deb ...

Unpacking libnpth0:amd64 (1.5-3) ...

Selecting previously unselected package dirmngr.

Preparing to unpack .../079-dirmngr\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking dirmngr (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package libfakeroot:amd64.

Preparing to unpack .../080-libfakeroot\_1.22-2ubuntu1\_amd64.deb ...

Unpacking libfakeroot:amd64 (1.22-2ubuntu1) ...

Selecting previously unselected package fakeroot.

Preparing to unpack .../081-fakeroot\_1.22-2ubuntu1\_amd64.deb ...

Unpacking fakeroot (1.22-2ubuntu1) ...

Selecting previously unselected package gnupg-l10n.

Preparing to unpack .../082-gnupg-l10n\_2.2.4-1ubuntu1.2\_all.deb ...

Unpacking gnupg-l10n (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package gnupg-utils.

Preparing to unpack .../083-gnupg-utils\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gnupg-utils (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package gpg.

Preparing to unpack .../084-gpg\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gpg (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package pinentry-curses.

Preparing to unpack .../085-pinentry-curses\_1.1.0-1\_amd64.deb ...

Unpacking pinentry-curses (1.1.0-1) ...

Selecting previously unselected package gpg-agent.

Preparing to unpack .../086-gpg-agent\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gpg-agent (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package gpg-wks-client.

Preparing to unpack .../087-gpg-wks-client\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gpg-wks-client (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package gpg-wks-server.

Preparing to unpack .../088-gpg-wks-server\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gpg-wks-server (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package gpgsm.

Preparing to unpack .../089-gpgsm\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gpgsm (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package gnupg.

Preparing to unpack .../090-gnupg\_2.2.4-1ubuntu1.2\_amd64.deb ...

Unpacking gnupg (2.2.4-1ubuntu1.2) ...

Selecting previously unselected package libalgorithm-diff-perl.

Preparing to unpack .../091-libalgorithm-diff-perl\_1.19.03-1\_all.deb ...

Unpacking libalgorithm-diff-perl (1.19.03-1) ...

Selecting previously unselected package libalgorithm-diff-xs-perl.

Preparing to unpack .../092-libalgorithm-diff-xs-perl\_0.04-5\_amd64.deb ...

Unpacking libalgorithm-diff-xs-perl (0.04-5) ...

Selecting previously unselected package libalgorithm-merge-perl.

Preparing to unpack .../093-libalgorithm-merge-perl\_0.08-3\_all.deb ...

Unpacking libalgorithm-merge-perl (0.08-3) ...

Selecting previously unselected package libexpat1-dev:amd64.

Preparing to unpack .../094-libexpat1-dev\_2.2.5-3ubuntu0.2\_amd64.deb ...

Unpacking libexpat1-dev:amd64 (2.2.5-3ubuntu0.2) ...

Selecting previously unselected package libfile-fcntllock-perl.

Preparing to unpack .../095-libfile-fcntllock-perl\_0.22-3build2\_amd64.deb ...

Unpacking libfile-fcntllock-perl (0.22-3build2) ...

Selecting previously unselected package libpython3.6:amd64.

Preparing to unpack .../096-libpython3.6\_3.6.9-1~18.04\_amd64.deb ...

Unpacking libpython3.6:amd64 (3.6.9-1~18.04) ...

Selecting previously unselected package libpython3.6-dev:amd64.

Preparing to unpack .../097-libpython3.6-dev\_3.6.9-1~18.04\_amd64.deb ...

Unpacking libpython3.6-dev:amd64 (3.6.9-1~18.04) ...

Selecting previously unselected package libpython3-dev:amd64.

Preparing to unpack .../098-libpython3-dev\_3.6.7-1~18.04\_amd64.deb ...

Unpacking libpython3-dev:amd64 (3.6.7-1~18.04) ...

Selecting previously unselected package libsasl2-modules:amd64.

Preparing to unpack .../099-libsasl2-modules\_2.1.27~101-g0780600+dfsg-3ubuntu2.1\_amd64.deb ...

Unpacking libsasl2-modules:amd64 (2.1.27~101-g0780600+dfsg-3ubuntu2.1) ...

Selecting previously unselected package manpages-dev.

Preparing to unpack .../100-manpages-dev\_4.15-1\_all.deb ...

Unpacking manpages-dev (4.15-1) ...

Selecting previously unselected package python-pip-whl.

Preparing to unpack .../101-python-pip-whl\_9.0.1-2.3~ubuntu1.18.04.1\_all.deb ...

Unpacking python-pip-whl (9.0.1-2.3~ubuntu1.18.04.1) ...

Selecting previously unselected package python3-asn1crypto.

Preparing to unpack .../102-python3-asn1crypto\_0.24.0-1\_all.deb ...

Unpacking python3-asn1crypto (0.24.0-1) ...

Selecting previously unselected package python3-cffi-backend.

Preparing to unpack .../103-python3-cffi-backend\_1.11.5-1\_amd64.deb ...

Unpacking python3-cffi-backend (1.11.5-1) ...

Selecting previously unselected package python3-crypto.

Preparing to unpack .../104-python3-crypto\_2.6.1-8ubuntu2\_amd64.deb ...

Unpacking python3-crypto (2.6.1-8ubuntu2) ...

Selecting previously unselected package python3-idna.

Preparing to unpack .../105-python3-idna\_2.6-1\_all.deb ...

Unpacking python3-idna (2.6-1) ...

Selecting previously unselected package python3-six.

Preparing to unpack .../106-python3-six\_1.11.0-2\_all.deb ...

Unpacking python3-six (1.11.0-2) ...

Selecting previously unselected package python3-cryptography.

Preparing to unpack .../107-python3-cryptography\_2.1.4-1ubuntu1.3\_amd64.deb ...

Unpacking python3-cryptography (2.1.4-1ubuntu1.3) ...

Selecting previously unselected package python3.6-dev.

Preparing to unpack .../108-python3.6-dev\_3.6.9-1~18.04\_amd64.deb ...

Unpacking python3.6-dev (3.6.9-1~18.04) ...

Selecting previously unselected package python3-dev.

Preparing to unpack .../109-python3-dev\_3.6.7-1~18.04\_amd64.deb ...

Unpacking python3-dev (3.6.7-1~18.04) ...

Selecting previously unselected package python3-secretstorage.

Preparing to unpack .../110-python3-secretstorage\_2.3.1-2\_all.deb ...

Unpacking python3-secretstorage (2.3.1-2) ...

Selecting previously unselected package python3-keyring.

Preparing to unpack .../111-python3-keyring\_10.6.0-1\_all.deb ...

Unpacking python3-keyring (10.6.0-1) ...

Selecting previously unselected package python3-keyrings.alt.

Preparing to unpack .../112-python3-keyrings.alt\_3.0-1\_all.deb ...

Unpacking python3-keyrings.alt (3.0-1) ...

Selecting previously unselected package python3-pip.

Preparing to unpack .../113-python3-pip\_9.0.1-2.3~ubuntu1.18.04.1\_all.deb ...

Unpacking python3-pip (9.0.1-2.3~ubuntu1.18.04.1) ...

Selecting previously unselected package python3-pkg-resources.

Preparing to unpack .../114-python3-pkg-resources\_39.0.1-2\_all.deb ...

Unpacking python3-pkg-resources (39.0.1-2) ...

Selecting previously unselected package python3-setuptools.

Preparing to unpack .../115-python3-setuptools\_39.0.1-2\_all.deb ...

Unpacking python3-setuptools (39.0.1-2) ...

Selecting previously unselected package python3-wheel.

Preparing to unpack .../116-python3-wheel\_0.30.0-0.2\_all.deb ...

Unpacking python3-wheel (0.30.0-0.2) ...

Selecting previously unselected package python3-xdg.

Preparing to unpack .../117-python3-xdg\_0.25-4ubuntu1\_all.deb ...

Unpacking python3-xdg (0.25-4ubuntu1) ...

Selecting previously unselected package zlib1g-dev:amd64.

Preparing to unpack .../118-zlib1g-dev\_1%3a1.2.11.dfsg-0ubuntu2\_amd64.deb ...

Unpacking zlib1g-dev:amd64 (1:1.2.11.dfsg-0ubuntu2) ...

Setting up libquadmath0:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up libnpth0:amd64 (1.5-3) ...

Setting up libgomp1:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up libatomic1:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up readline-common (7.0-3) ...

Setting up manpages (4.15-1) ...

Setting up libicu60:amd64 (60.2-3ubuntu3.1) ...

Setting up libcc1-0:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up make (4.1-9.1ubuntu1) ...

Setting up mime-support (3.60ubuntu1) ...

Setting up libldap-common (2.4.45+dfsg-1ubuntu1.4) ...

Setting up libreadline7:amd64 (7.0-3) ...

Setting up libpsl5:amd64 (0.19.1-5build1) ...

Setting up libtsan0:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up libglib2.0-0:amd64 (2.56.4-0ubuntu0.18.04.6) ...

No schema files found: doing nothing.

Setting up libsasl2-modules-db:amd64 (2.1.27~101-g0780600+dfsg-3ubuntu2.1) ...

Setting up linux-libc-dev:amd64 (4.15.0-91.92) ...

Setting up libmpfr6:amd64 (4.0.1-1) ...

Setting up libsasl2-2:amd64 (2.1.27~101-g0780600+dfsg-3ubuntu2.1) ...

Setting up libroken18-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up libksba8:amd64 (1.3.5-2) ...

Setting up perl-modules-5.26 (5.26.1-6ubuntu0.3) ...

Setting up libgdbm5:amd64 (1.14.1-6) ...

Setting up libgirepository-1.0-1:amd64 (1.56.1-1) ...

Setting up libxml2:amd64 (2.9.4+dfsg1-6.1ubuntu1.3) ...

Setting up libmagic-mgc (1:5.32-2ubuntu0.3) ...

Setting up gnupg-l10n (2.2.4-1ubuntu1.2) ...

Setting up libmagic1:amd64 (1:5.32-2ubuntu0.3) ...

Setting up liblsan0:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up binutils-common:amd64 (2.30-21ubuntu1~18.04.2) ...

Setting up libmpx2:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up gir1.2-glib-2.0:amd64 (1.56.1-1) ...

Setting up patch (2.7.6-2ubuntu1.1) ...

Setting up libglib2.0-data (2.56.4-0ubuntu0.18.04.6) ...

Setting up publicsuffix (20180223.1310-1) ...

Setting up libapparmor1:amd64 (2.12-4ubuntu5.1) ...

Setting up xz-utils (5.2.2-1.3) ...

update-alternatives: using /usr/bin/xz to provide /usr/bin/lzma (lzma) in auto mode

update-alternatives: warning: skip creation of /usr/share/man/man1/lzma.1.gz because associated file /usr/share/man/man1/xz.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/unlzma.1.gz because associated file /usr/share/man/man1/unxz.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzcat.1.gz because associated file /usr/share/man/man1/xzcat.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzmore.1.gz because associated file /usr/share/man/man1/xzmore.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzless.1.gz because associated file /usr/share/man/man1/xzless.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzdiff.1.gz because associated file /usr/share/man/man1/xzdiff.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzcmp.1.gz because associated file /usr/share/man/man1/xzcmp.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzgrep.1.gz because associated file /usr/share/man/man1/xzgrep.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzegrep.1.gz because associated file /usr/share/man/man1/xzegrep.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzfgrep.1.gz because associated file /usr/share/man/man1/xzfgrep.1.gz (of link group lzma) doesn't exist

Setting up libheimbase1-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up libfakeroot:amd64 (1.22-2ubuntu1) ...

Setting up openssl (1.1.1-1ubuntu2.1~18.04.5) ...

Setting up wget (1.19.4-1ubuntu2.2) ...

Setting up libsqlite3-0:amd64 (3.22.0-1ubuntu0.3) ...

Setting up liblocale-gettext-perl (1.07-3build2) ...

Setting up shared-mime-info (1.9-2) ...

Setting up libmpc3:amd64 (1.1.0-1) ...

Setting up libc-dev-bin (2.27-3ubuntu1) ...

Setting up libgdbm-compat4:amd64 (1.14.1-6) ...

Setting up libsasl2-modules:amd64 (2.1.27~101-g0780600+dfsg-3ubuntu2.1) ...

Setting up ca-certificates (20180409) ...

Updating certificates in /etc/ssl/certs...

133 added, 0 removed; done.

Setting up manpages-dev (4.15-1) ...

Setting up libc6-dev:amd64 (2.27-3ubuntu1) ...

Setting up libassuan0:amd64 (2.5.1-2) ...

Setting up xdg-user-dirs (0.17-1ubuntu1) ...

Setting up libitm1:amd64 (8.4.0-1ubuntu1~18.04) ...

Setting up libmpdec2:amd64 (2.4.2-1ubuntu1) ...

Setting up libdbus-1-3:amd64 (1.12.2-1ubuntu1.1) ...

Setting up netbase (5.4) ...

Setting up zlib1g-dev:amd64 (1:1.2.11.dfsg-0ubuntu2) ...

Setting up libisl19:amd64 (0.19-1) ...

Setting up python-pip-whl (9.0.1-2.3~ubuntu1.18.04.1) ...

Setting up libpython3.6-stdlib:amd64 (3.6.9-1~18.04) ...

Setting up python3.6 (3.6.9-1~18.04) ...

Setting up libwind0-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up libasan4:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libbinutils:amd64 (2.30-21ubuntu1~18.04.2) ...

Setting up libcilkrts5:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libasn1-8-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up libubsan0:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up gpgconf (2.2.4-1ubuntu1.2) ...

Setting up libhcrypto4-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up file (1:5.32-2ubuntu0.3) ...

Setting up fakeroot (1.22-2ubuntu1) ...

update-alternatives: using /usr/bin/fakeroot-sysv to provide /usr/bin/fakeroot (fakeroot) in auto mode

update-alternatives: warning: skip creation of /usr/share/man/man1/fakeroot.1.gz because associated file /usr/share/man/man1/fakeroot-sysv.1.gz (of link group fakeroot) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/faked.1.gz because associated file /usr/share/man/man1/faked-sysv.1.gz (of link group fakeroot) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/es/man1/fakeroot.1.gz because associated file /usr/share/man/es/man1/fakeroot-sysv.1.gz (of link group fakeroot) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/es/man1/faked.1.gz because associated file /usr/share/man/es/man1/faked-sysv.1.gz (of link group fakeroot) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/fr/man1/fakeroot.1.gz because associated file /usr/share/man/fr/man1/fakeroot-sysv.1.gz (of link group fakeroot) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/fr/man1/faked.1.gz because associated file /usr/share/man/fr/man1/faked-sysv.1.gz (of link group fakeroot) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/sv/man1/fakeroot.1.gz because associated file /usr/share/man/sv/man1/fakeroot-sysv.1.gz (of link group fakeroot) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/sv/man1/faked.1.gz because associated file /usr/share/man/sv/man1/faked-sysv.1.gz (of link group fakeroot) doesn't exist

Setting up libhx509-5-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up cpp-7 (7.5.0-3ubuntu1~18.04) ...

Setting up libstdc++-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libperl5.26:amd64 (5.26.1-6ubuntu0.3) ...

Setting up gpgsm (2.2.4-1ubuntu1.2) ...

Setting up gnupg-utils (2.2.4-1ubuntu1.2) ...

Setting up libexpat1-dev:amd64 (2.2.5-3ubuntu0.2) ...

Setting up pinentry-curses (1.1.0-1) ...

Setting up libkrb5-26-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up dbus (1.12.2-1ubuntu1.1) ...

Setting up libheimntlm0-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up gpg (2.2.4-1ubuntu1.2) ...

Setting up libpython3.6:amd64 (3.6.9-1~18.04) ...

Setting up binutils-x86-64-linux-gnu (2.30-21ubuntu1~18.04.2) ...

Setting up libpython3-stdlib:amd64 (3.6.7-1~18.04) ...

Setting up cpp (4:7.4.0-1ubuntu2.3) ...

Setting up python3 (3.6.7-1~18.04) ...

Setting up python3-cffi-backend (1.11.5-1) ...

Setting up python3-crypto (2.6.1-8ubuntu2) ...

Setting up python3-idna (2.6-1) ...

Setting up python3-xdg (0.25-4ubuntu1) ...

Setting up python3-six (1.11.0-2) ...

Setting up gpg-agent (2.2.4-1ubuntu1.2) ...

Setting up python3-wheel (0.30.0-0.2) ...

Setting up gpg-wks-server (2.2.4-1ubuntu1.2) ...

Setting up python3-pkg-resources (39.0.1-2) ...

Setting up python3-gi (3.26.1-2ubuntu1) ...

Setting up libpython3.6-dev:amd64 (3.6.9-1~18.04) ...

Setting up perl (5.26.1-6ubuntu0.3) ...

Setting up python3-asn1crypto (0.24.0-1) ...

Setting up libfile-fcntllock-perl (0.22-3build2) ...

Setting up libalgorithm-diff-perl (1.19.03-1) ...

Setting up binutils (2.30-21ubuntu1~18.04.2) ...

Setting up libgssapi3-heimdal:amd64 (7.5.0+dfsg-1) ...

Setting up python3.6-dev (3.6.9-1~18.04) ...

Setting up python3-lib2to3 (3.6.9-1~18.04) ...

Setting up python3-distutils (3.6.9-1~18.04) ...

Setting up libpython3-dev:amd64 (3.6.7-1~18.04) ...

Setting up python3-cryptography (2.1.4-1ubuntu1.3) ...

Setting up python3-dbus (1.2.6-1) ...

Setting up gcc-7 (7.5.0-3ubuntu1~18.04) ...

Setting up g++-7 (7.5.0-3ubuntu1~18.04) ...

Setting up python3-keyrings.alt (3.0-1) ...

Setting up libdpkg-perl (1.19.0.5ubuntu2.3) ...

Setting up gcc (4:7.4.0-1ubuntu2.3) ...

Setting up libalgorithm-merge-perl (0.08-3) ...

Setting up dpkg-dev (1.19.0.5ubuntu2.3) ...

Setting up libalgorithm-diff-xs-perl (0.04-5) ...

Setting up libldap-2.4-2:amd64 (2.4.45+dfsg-1ubuntu1.4) ...

Setting up python3-pip (9.0.1-2.3~ubuntu1.18.04.1) ...

Setting up g++ (4:7.4.0-1ubuntu2.3) ...

update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode

update-alternatives: warning: skip creation of /usr/share/man/man1/c++.1.gz because associated file /usr/share/man/man1/g++.1.gz (of link group c++) doesn't exist

Setting up python3-setuptools (39.0.1-2) ...

Setting up python3-secretstorage (2.3.1-2) ...

Setting up dirmngr (2.2.4-1ubuntu1.2) ...

Setting up dh-python (3.20180325ubuntu2) ...

Setting up python3-keyring (10.6.0-1) ...

Setting up build-essential (12.4ubuntu1) ...

Setting up python3-dev (3.6.7-1~18.04) ...

Setting up gpg-wks-client (2.2.4-1ubuntu1.2) ...

Setting up gnupg (2.2.4-1ubuntu1.2) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Processing triggers for ca-certificates (20180409) ...

Updating certificates in /etc/ssl/certs...

0 added, 0 removed; done.

Running hooks in /etc/ca-certificates/update.d...

done.

Collecting mammoth

Downloading https://files.pythonhosted.org/packages/92/53/bbd500ee249c8043f206c3242babd238d688e25148c2ebe77885b188c4a1/mammoth-1.4.10-py2.py3-none-any.whl (46kB)

Collecting Sphinx

Downloading https://files.pythonhosted.org/packages/16/c1/1c8016475cb612a64ce613c6b61c16224fe6dcfd9527792016ce611c231c/Sphinx-2.4.4-py3-none-any.whl (2.7MB)

Collecting sphinx\_rtd\_theme

Downloading https://files.pythonhosted.org/packages/60/b4/4df37087a1d36755e3a3bfd2a30263f358d2dea21938240fa02313d45f51/sphinx\_rtd\_theme-0.4.3-py2.py3-none-any.whl (6.4MB)

Collecting oletools

Downloading https://files.pythonhosted.org/packages/a4/56/1fdf589a15d9cc666666205d0ae4fbb6c55ca57362aa824eb5d5c4dd3753/oletools-0.55.1.zip (3.1MB)

Collecting cobble<0.2,>=0.1.3 (from mammoth)

Downloading https://files.pythonhosted.org/packages/d2/13/306dbd6d10f7bc13de0bdc313b2bbf1a031abc0beb36033ea850a3782656/cobble-0.1.3.tar.gz

Collecting sphinxcontrib-serializinghtml (from Sphinx)

Downloading https://files.pythonhosted.org/packages/9a/ca/bfad79b79b3821d0c6361c431f0ef4aec16ee248338b2c2013008b34d345/sphinxcontrib\_serializinghtml-1.1.4-py2.py3-none-any.whl (89kB)

Collecting Jinja2>=2.3 (from Sphinx)

Downloading https://files.pythonhosted.org/packages/27/24/4f35961e5c669e96f6559760042a55b9bcfcdb82b9bdb3c8753dbe042e35/Jinja2-2.11.1-py2.py3-none-any.whl (126kB)

Collecting docutils>=0.12 (from Sphinx)

Downloading https://files.pythonhosted.org/packages/81/44/8a15e45ffa96e6cf82956dd8d7af9e666357e16b0d93b253903475ee947f/docutils-0.16-py2.py3-none-any.whl (548kB)

Collecting sphinxcontrib-qthelp (from Sphinx)

Downloading https://files.pythonhosted.org/packages/2b/14/05f9206cf4e9cfca1afb5fd224c7cd434dcc3a433d6d9e4e0264d29c6cdb/sphinxcontrib\_qthelp-1.0.3-py2.py3-none-any.whl (90kB)

Collecting setuptools (from Sphinx)

Downloading https://files.pythonhosted.org/packages/a0/df/635cdb901ee4a8a42ec68e480c49f85f4c59e8816effbf57d9e6ee8b3588/setuptools-46.1.3-py3-none-any.whl (582kB)

Collecting requests>=2.5.0 (from Sphinx)

Downloading https://files.pythonhosted.org/packages/1a/70/1935c770cb3be6e3a8b78ced23d7e0f3b187f5cbfab4749523ed65d7c9b1/requests-2.23.0-py2.py3-none-any.whl (58kB)

Collecting imagesize (from Sphinx)

Downloading https://files.pythonhosted.org/packages/31/b2/b5522a0c8d11e4aff83f8342f3f0dea68c2fb25aa44403e420587f0ce204/imagesize-1.2.0-py2.py3-none-any.whl

Collecting sphinxcontrib-htmlhelp (from Sphinx)

Downloading https://files.pythonhosted.org/packages/36/62/8222554b29b3acde8420128d6d3999c5904d40922ef4b6ccb370e2be7421/sphinxcontrib\_htmlhelp-1.0.3-py2.py3-none-any.whl (96kB)

Collecting sphinxcontrib-applehelp (from Sphinx)

Downloading https://files.pythonhosted.org/packages/dc/47/86022665a9433d89a66f5911b558ddff69861766807ba685de2e324bd6ed/sphinxcontrib\_applehelp-1.0.2-py2.py3-none-any.whl (121kB)

Collecting sphinxcontrib-jsmath (from Sphinx)

Downloading https://files.pythonhosted.org/packages/c2/42/4c8646762ee83602e3fb3fbe774c2fac12f317deb0b5dbeeedd2d3ba4b77/sphinxcontrib\_jsmath-1.0.1-py2.py3-none-any.whl

Collecting Pygments>=2.0 (from Sphinx)

Downloading https://files.pythonhosted.org/packages/2d/68/106af3ae51daf807e9cdcba6a90e518954eb8b70341cee52995540a53ead/Pygments-2.6.1-py3-none-any.whl (914kB)

Collecting alabaster<0.8,>=0.7 (from Sphinx)

Downloading https://files.pythonhosted.org/packages/10/ad/00b090d23a222943eb0eda509720a404f531a439e803f6538f35136cae9e/alabaster-0.7.12-py2.py3-none-any.whl

Collecting babel!=2.0,>=1.3 (from Sphinx)

Downloading https://files.pythonhosted.org/packages/15/a1/522dccd23e5d2e47aed4b6a16795b8213e3272c7506e625f2425ad025a19/Babel-2.8.0-py2.py3-none-any.whl (8.6MB)

Collecting sphinxcontrib-devhelp (from Sphinx)

Downloading https://files.pythonhosted.org/packages/c5/09/5de5ed43a521387f18bdf5f5af31d099605c992fd25372b2b9b825ce48ee/sphinxcontrib\_devhelp-1.0.2-py2.py3-none-any.whl (84kB)

Collecting packaging (from Sphinx)

Downloading https://files.pythonhosted.org/packages/62/0a/34641d2bf5c917c96db0ded85ae4da25b6cd922d6b794648d4e7e07c88e5/packaging-20.3-py2.py3-none-any.whl

Collecting snowballstemmer>=1.1 (from Sphinx)

Downloading https://files.pythonhosted.org/packages/7d/4b/cdf1113a0e88b641893b814e9c36f69a6fda28cd88b62c7f0d858cde3166/snowballstemmer-2.0.0-py2.py3-none-any.whl (97kB)

Collecting colorclass (from oletools)

Downloading https://files.pythonhosted.org/packages/37/ea/ae8dbb956939d4392e6a7fdef87fda273854da1128edae016c4104240be8/colorclass-2.2.0.tar.gz

Collecting easygui (from oletools)

Downloading https://files.pythonhosted.org/packages/89/b5/fd22bb3eb36085aeb7781670bbc59cf8b641b1774f77578ec06368865aa3/easygui-0.98.1-py2.py3-none-any.whl (90kB)

Collecting msoffcrypto-tool (from oletools)

Downloading https://files.pythonhosted.org/packages/c5/68/58628967bc5328b22706c74081df4564e853ee68f4dafd6d77e329ae56e8/msoffcrypto-tool-4.10.1.tar.gz (209kB)

Collecting olefile>=0.46 (from oletools)

Downloading https://files.pythonhosted.org/packages/34/81/e1ac43c6b45b4c5f8d9352396a14144bba52c8fec72a80f425f6a4d653ad/olefile-0.46.zip (112kB)

Collecting pcodedmp>=1.2.5 (from oletools)

Downloading https://files.pythonhosted.org/packages/ba/72/b380fb5c89d89c3afafac8cf02a71a45f4f4a4f35531ca949a34683962d1/pcodedmp-1.2.6-py2.py3-none-any.whl

Collecting pyparsing>=2.1.0 (from oletools)

Downloading https://files.pythonhosted.org/packages/5d/bc/1e58593167fade7b544bfe9502a26dc860940a79ab306e651e7f13be68c2/pyparsing-2.4.6-py2.py3-none-any.whl (67kB)

Collecting MarkupSafe>=0.23 (from Jinja2>=2.3->Sphinx)

Downloading https://files.pythonhosted.org/packages/b2/5f/23e0023be6bb885d00ffbefad2942bc51a620328ee910f64abe5a8d18dd1/MarkupSafe-1.1.1-cp36-cp36m-manylinux1\_x86\_64.whl

Collecting certifi>=2017.4.17 (from requests>=2.5.0->Sphinx)

Downloading https://files.pythonhosted.org/packages/b9/63/df50cac98ea0d5b006c55a399c3bf1db9da7b5a24de7890bc9cfd5dd9e99/certifi-2019.11.28-py2.py3-none-any.whl (156kB)

Collecting idna<3,>=2.5 (from requests>=2.5.0->Sphinx)

Downloading https://files.pythonhosted.org/packages/89/e3/afebe61c546d18fb1709a61bee788254b40e736cff7271c7de5de2dc4128/idna-2.9-py2.py3-none-any.whl (58kB)

Collecting chardet<4,>=3.0.2 (from requests>=2.5.0->Sphinx)

Downloading https://files.pythonhosted.org/packages/bc/a9/01ffebfb562e4274b6487b4bb1ddec7ca55ec7510b22e4c51f14098443b8/chardet-3.0.4-py2.py3-none-any.whl (133kB)

Collecting urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 (from requests>=2.5.0->Sphinx)

Downloading https://files.pythonhosted.org/packages/e8/74/6e4f91745020f967d09332bb2b8b9b10090957334692eb88ea4afe91b77f/urllib3-1.25.8-py2.py3-none-any.whl (125kB)

Collecting pytz>=2015.7 (from babel!=2.0,>=1.3->Sphinx)

Downloading https://files.pythonhosted.org/packages/e7/f9/f0b53f88060247251bf481fa6ea62cd0d25bf1b11a87888e53ce5b7c8ad2/pytz-2019.3-py2.py3-none-any.whl (509kB)

Collecting six (from packaging->Sphinx)

Downloading https://files.pythonhosted.org/packages/65/eb/1f97cb97bfc2390a276969c6fae16075da282f5058082d4cb10c6c5c1dba/six-1.14.0-py2.py3-none-any.whl

Collecting cryptography>=2.3 (from msoffcrypto-tool->oletools)

Downloading https://files.pythonhosted.org/packages/45/73/d18a8884de8bffdcda475728008b5b13be7fbef40a2acc81a0d5d524175d/cryptography-2.8-cp34-abi3-manylinux1\_x86\_64.whl (2.3MB)

Collecting cffi!=1.11.3,>=1.8 (from cryptography>=2.3->msoffcrypto-tool->oletools)

Downloading https://files.pythonhosted.org/packages/f1/c7/72abda280893609e1ddfff90f8064568bd8bcb2c1770a9d5bb5edb2d1fea/cffi-1.14.0-cp36-cp36m-manylinux1\_x86\_64.whl (399kB)

Collecting pycparser (from cffi!=1.11.3,>=1.8->cryptography>=2.3->msoffcrypto-tool->oletools)

Downloading https://files.pythonhosted.org/packages/ae/e7/d9c3a176ca4b02024debf82342dab36efadfc5776f9c8db077e8f6e71821/pycparser-2.20-py2.py3-none-any.whl (112kB)

Building wheels for collected packages: oletools, cobble, colorclass, msoffcrypto-tool, olefile

Running setup.py bdist\_wheel for oletools: started

Running setup.py bdist\_wheel for oletools: finished with status 'done'

Stored in directory: /root/.cache/pip/wheels/b9/b4/02/3739c9fd46d9d5751d7ec6218aa85496c6e0c7e7824ea51cd1

Running setup.py bdist\_wheel for cobble: started

Running setup.py bdist\_wheel for cobble: finished with status 'done'

Stored in directory: /root/.cache/pip/wheels/52/aa/7f/a4270dbbb0773257b85b0d99cf688107906cdbf9b121278207

Running setup.py bdist\_wheel for colorclass: started

Running setup.py bdist\_wheel for colorclass: finished with status 'done'

Stored in directory: /root/.cache/pip/wheels/d1/86/9d/16127127306a92d7fd30267890a5634026c045391979c4c317

Running setup.py bdist\_wheel for msoffcrypto-tool: started

Running setup.py bdist\_wheel for msoffcrypto-tool: finished with status 'done'

Stored in directory: /root/.cache/pip/wheels/8b/65/5d/55b82cefb79d7118e1ad74090bfb8a10f0df7c464b6ced2834

Running setup.py bdist\_wheel for olefile: started

Running setup.py bdist\_wheel for olefile: finished with status 'done'

Stored in directory: /root/.cache/pip/wheels/4b/f4/11/bc4166107c27f07fd7bba707ffcb439619197638a1ac986df3

Successfully built oletools cobble colorclass msoffcrypto-tool olefile

Installing collected packages: cobble, mammoth, sphinxcontrib-serializinghtml, MarkupSafe, Jinja2, docutils, sphinxcontrib-qthelp, setuptools, certifi, idna, chardet, urllib3, requests, imagesize, sphinxcontrib-htmlhelp, sphinxcontrib-applehelp, sphinxcontrib-jsmath, Pygments, alabaster, pytz, babel, sphinxcontrib-devhelp, pyparsing, six, packaging, snowballstemmer, Sphinx, sphinx-rtd-theme, colorclass, easygui, pycparser, cffi, cryptography, olefile, msoffcrypto-tool, pcodedmp, oletools

Found existing installation: setuptools 39.0.1

Not uninstalling setuptools at /usr/lib/python3/dist-packages, outside environment /usr

Found existing installation: idna 2.6

Not uninstalling idna at /usr/lib/python3/dist-packages, outside environment /usr

Found existing installation: six 1.11.0

Not uninstalling six at /usr/lib/python3/dist-packages, outside environment /usr

Found existing installation: cryptography 2.1.4

Not uninstalling cryptography at /usr/lib/python3/dist-packages, outside environment /usr

Successfully installed Jinja2-2.11.1 MarkupSafe-1.1.1 Pygments-2.6.1 Sphinx-2.4.4 alabaster-0.7.12 babel-2.8.0 certifi-2019.11.28 cffi-1.14.0 chardet-3.0.4 cobble-0.1.3 colorclass-2.2.0 cryptography-2.8 docutils-0.16 easygui-0.98.1 idna-2.9 imagesize-1.2.0 mammoth-1.4.10 msoffcrypto-tool-4.10.1 olefile-0.46 oletools-0.55.1 packaging-20.3 pcodedmp-1.2.6 pycparser-2.20 pyparsing-2.4.6 pytz-2019.3 requests-2.23.0 setuptools-46.1.3 six-1.14.0 snowballstemmer-2.0.0 sphinx-rtd-theme-0.4.3 sphinxcontrib-applehelp-1.0.2 sphinxcontrib-devhelp-1.0.2 sphinxcontrib-htmlhelp-1.0.3 sphinxcontrib-jsmath-1.0.1 sphinxcontrib-qthelp-1.0.3 sphinxcontrib-serializinghtml-1.1.4 urllib3-1.25.8

Removing intermediate container e7fed89beb32

---> c07a08bae1bd

Step 3/12 : RUN sed -i 's/options.get("ignore\_empty\_paragraphs", True)/options.get("ignore\_empty\_paragraphs", False)/g' /usr/local/lib/python3.6/dist-packages/mammoth/options.py

---> Running in 6cb2b192c5ca

Removing intermediate container 6cb2b192c5ca

---> 7bc096b89881

Step 4/12 : RUN wget https://github.com/jgm/pandoc/releases/download/2.9.2.1/pandoc-2.9.2.1-linux-amd64.tar.gz

---> Running in ebd71f0ae5f5

--2020-04-02 07:48:21-- https://github.com/jgm/pandoc/releases/download/2.9.2.1/pandoc-2.9.2.1-linux-amd64.tar.gz

Resolving github.com (github.com)... 140.82.118.4

Connecting to github.com (github.com)|140.82.118.4|:443... connected.

HTTP request sent, awaiting response... 302 Found

Location: https://github-production-release-asset-2e65be.s3.amazonaws.com/571770/0fe79a00-6d4c-11ea-86be-8387f65f4810?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20200402%2Fus-east-1%2Fs3%2Faws4\_request&X-Amz-Date=20200402T074821Z&X-Amz-Expires=300&X-Amz-Signature=fe4b7a28b840179baa739adeb079861e28cd1c66ab604eed4b22e45538c0a54c&X-Amz-SignedHeaders=host&actor\_id=0&response-content-disposition=attachment%3B%20filename%3Dpandoc-2.9.2.1-linux-amd64.tar.gz&response-content-type=application%2Foctet-stream [following]

--2020-04-02 07:48:22-- https://github-production-release-asset-2e65be.s3.amazonaws.com/571770/0fe79a00-6d4c-11ea-86be-8387f65f4810?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIAIWNJYAX4CSVEH53A%2F20200402%2Fus-east-1%2Fs3%2Faws4\_request&X-Amz-Date=20200402T074821Z&X-Amz-Expires=300&X-Amz-Signature=fe4b7a28b840179baa739adeb079861e28cd1c66ab604eed4b22e45538c0a54c&X-Amz-SignedHeaders=host&actor\_id=0&response-content-disposition=attachment%3B%20filename%3Dpandoc-2.9.2.1-linux-amd64.tar.gz&response-content-type=application%2Foctet-stream

Resolving github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)... 52.217.45.92, 52.216.168.227

Connecting to github-production-release-asset-2e65be.s3.amazonaws.com (github-production-release-asset-2e65be.s3.amazonaws.com)|52.217.45.92|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 23777856 (23M) [application/octet-stream]

Saving to: 'pandoc-2.9.2.1-linux-amd64.tar.gz'

0K .......... .......... .......... .......... .......... 0% 283K 82s

50K .......... .......... .......... .......... .......... 0% 12.2M 42s

.

.

.

23100K .......... .......... .......... .......... .......... 99% 6.82M 0s

23150K .......... .......... .......... .......... .......... 99% 9.44M 0s

23200K .......... .......... 100% 65.8M=2.7s

2020-04-02 07:48:25 (8.41 MB/s) - 'pandoc-2.9.2.1-linux-amd64.tar.gz' saved [23777856/23777856]

Removing intermediate container ebd71f0ae5f5

---> ea6c9f9fd94e

Step 5/12 : RUN tar xzf pandoc-2.9.2.1-linux-amd64.tar.gz --strip-components 1 -C /usr/local/

---> Running in 31f1695954a2

Removing intermediate container 31f1695954a2

---> 4fd272d3f650

Step 6/12 : FROM ubuntu:18.04

---> 4e5021d210f6

Step 7/12 : RUN export DEBIAN\_FRONTEND=noninteractive && apt-get update && apt-get install -y python3 make zip

---> Running in 2c22c20dc01e

Get:1 http://archive.ubuntu.com/ubuntu bionic InRelease [242 kB]

Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]

Get:3 http://archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]

Get:4 http://archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]

Get:5 http://archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [11.3 MB]

Get:6 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [870 kB]

Get:7 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [37.0 kB]

Get:8 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [7904 B]

Get:9 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [835 kB]

Get:10 http://archive.ubuntu.com/ubuntu bionic/restricted amd64 Packages [13.5 kB]

Get:11 http://archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [186 kB]

Get:12 http://archive.ubuntu.com/ubuntu bionic/main amd64 Packages [1344 kB]

Get:13 http://archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [12.2 kB]

Get:14 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [1161 kB]

Get:15 http://archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1367 kB]

Get:16 http://archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [50.4 kB]

Get:17 http://archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [4247 B]

Get:18 http://archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [2496 B]

Fetched 17.7 MB in 6s (2956 kB/s)

Reading package lists...

Reading package lists...

Building dependency tree...

Reading state information...

The following additional packages will be installed:

file libexpat1 libmagic-mgc libmagic1 libmpdec2 libpython3-stdlib

libpython3.6-minimal libpython3.6-stdlib libreadline7 libsqlite3-0 libssl1.1

mime-support python3-minimal python3.6 python3.6-minimal readline-common

unzip xz-utils

Suggested packages:

make-doc python3-doc python3-tk python3-venv python3.6-venv python3.6-doc

binutils binfmt-support readline-doc

The following NEW packages will be installed:

file libexpat1 libmagic-mgc libmagic1 libmpdec2 libpython3-stdlib

libpython3.6-minimal libpython3.6-stdlib libreadline7 libsqlite3-0 libssl1.1

make mime-support python3 python3-minimal python3.6 python3.6-minimal

readline-common unzip xz-utils zip

0 upgraded, 21 newly installed, 0 to remove and 12 not upgraded.

Need to get 7150 kB of archives.

After this operation, 35.6 MB of additional disk space will be used.

Get:1 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libssl1.1 amd64 1.1.1-1ubuntu2.1~18.04.5 [1300 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-minimal amd64 3.6.9-1~18.04 [533 kB]

Get:3 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libexpat1 amd64 2.2.5-3ubuntu0.2 [80.5 kB]

Get:4 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6-minimal amd64 3.6.9-1~18.04 [1610 kB]

Get:5 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-minimal amd64 3.6.7-1~18.04 [23.7 kB]

Get:6 http://archive.ubuntu.com/ubuntu bionic/main amd64 mime-support all 3.60ubuntu1 [30.1 kB]

Get:7 http://archive.ubuntu.com/ubuntu bionic/main amd64 libmpdec2 amd64 2.4.2-1ubuntu1 [84.1 kB]

Get:8 http://archive.ubuntu.com/ubuntu bionic/main amd64 readline-common all 7.0-3 [52.9 kB]

Get:9 http://archive.ubuntu.com/ubuntu bionic/main amd64 libreadline7 amd64 7.0-3 [124 kB]

Get:10 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libsqlite3-0 amd64 3.22.0-1ubuntu0.3 [498 kB]

Get:11 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-stdlib amd64 3.6.9-1~18.04 [1709 kB]

Get:12 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6 amd64 3.6.9-1~18.04 [203 kB]

Get:13 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3-stdlib amd64 3.6.7-1~18.04 [7240 B]

Get:14 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3 amd64 3.6.7-1~18.04 [47.2 kB]

Get:15 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libmagic-mgc amd64 1:5.32-2ubuntu0.3 [184 kB]

Get:16 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libmagic1 amd64 1:5.32-2ubuntu0.3 [68.7 kB]

Get:17 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 file amd64 1:5.32-2ubuntu0.3 [22.1 kB]

Get:18 http://archive.ubuntu.com/ubuntu bionic/main amd64 xz-utils amd64 5.2.2-1.3 [83.8 kB]

Get:19 http://archive.ubuntu.com/ubuntu bionic/main amd64 make amd64 4.1-9.1ubuntu1 [154 kB]

Get:20 http://archive.ubuntu.com/ubuntu bionic/main amd64 unzip amd64 6.0-21ubuntu1 [167 kB]

Get:21 http://archive.ubuntu.com/ubuntu bionic/main amd64 zip amd64 3.0-11build1 [167 kB]

debconf: delaying package configuration, since apt-utils is not installed

Fetched 7150 kB in 3s (2733 kB/s)

Selecting previously unselected package libssl1.1:amd64.

(Reading database ... 4046 files and directories currently installed.)

Preparing to unpack .../libssl1.1\_1.1.1-1ubuntu2.1~18.04.5\_amd64.deb ...

Unpacking libssl1.1:amd64 (1.1.1-1ubuntu2.1~18.04.5) ...

Selecting previously unselected package libpython3.6-minimal:amd64.

Preparing to unpack .../libpython3.6-minimal\_3.6.9-1~18.04\_amd64.deb ...

Unpacking libpython3.6-minimal:amd64 (3.6.9-1~18.04) ...

Selecting previously unselected package libexpat1:amd64.

Preparing to unpack .../libexpat1\_2.2.5-3ubuntu0.2\_amd64.deb ...

Unpacking libexpat1:amd64 (2.2.5-3ubuntu0.2) ...

Selecting previously unselected package python3.6-minimal.

Preparing to unpack .../python3.6-minimal\_3.6.9-1~18.04\_amd64.deb ...

Unpacking python3.6-minimal (3.6.9-1~18.04) ...

Setting up libssl1.1:amd64 (1.1.1-1ubuntu2.1~18.04.5) ...

Setting up libpython3.6-minimal:amd64 (3.6.9-1~18.04) ...

Setting up libexpat1:amd64 (2.2.5-3ubuntu0.2) ...

Setting up python3.6-minimal (3.6.9-1~18.04) ...

Selecting previously unselected package python3-minimal.

(Reading database ... 4303 files and directories currently installed.)

Preparing to unpack .../0-python3-minimal\_3.6.7-1~18.04\_amd64.deb ...

Unpacking python3-minimal (3.6.7-1~18.04) ...

Selecting previously unselected package mime-support.

Preparing to unpack .../1-mime-support\_3.60ubuntu1\_all.deb ...

Unpacking mime-support (3.60ubuntu1) ...

Selecting previously unselected package libmpdec2:amd64.

Preparing to unpack .../2-libmpdec2\_2.4.2-1ubuntu1\_amd64.deb ...

Unpacking libmpdec2:amd64 (2.4.2-1ubuntu1) ...

Selecting previously unselected package readline-common.

Preparing to unpack .../3-readline-common\_7.0-3\_all.deb ...

Unpacking readline-common (7.0-3) ...

Selecting previously unselected package libreadline7:amd64.

Preparing to unpack .../4-libreadline7\_7.0-3\_amd64.deb ...

Unpacking libreadline7:amd64 (7.0-3) ...

Selecting previously unselected package libsqlite3-0:amd64.

Preparing to unpack .../5-libsqlite3-0\_3.22.0-1ubuntu0.3\_amd64.deb ...

Unpacking libsqlite3-0:amd64 (3.22.0-1ubuntu0.3) ...

Selecting previously unselected package libpython3.6-stdlib:amd64.

Preparing to unpack .../6-libpython3.6-stdlib\_3.6.9-1~18.04\_amd64.deb ...

Unpacking libpython3.6-stdlib:amd64 (3.6.9-1~18.04) ...

Selecting previously unselected package python3.6.

Preparing to unpack .../7-python3.6\_3.6.9-1~18.04\_amd64.deb ...

Unpacking python3.6 (3.6.9-1~18.04) ...

Selecting previously unselected package libpython3-stdlib:amd64.

Preparing to unpack .../8-libpython3-stdlib\_3.6.7-1~18.04\_amd64.deb ...

Unpacking libpython3-stdlib:amd64 (3.6.7-1~18.04) ...

Setting up python3-minimal (3.6.7-1~18.04) ...

Selecting previously unselected package python3.

(Reading database ... 4761 files and directories currently installed.)

Preparing to unpack .../0-python3\_3.6.7-1~18.04\_amd64.deb ...

Unpacking python3 (3.6.7-1~18.04) ...

Selecting previously unselected package libmagic-mgc.

Preparing to unpack .../1-libmagic-mgc\_1%3a5.32-2ubuntu0.3\_amd64.deb ...

Unpacking libmagic-mgc (1:5.32-2ubuntu0.3) ...

Selecting previously unselected package libmagic1:amd64.

Preparing to unpack .../2-libmagic1\_1%3a5.32-2ubuntu0.3\_amd64.deb ...

Unpacking libmagic1:amd64 (1:5.32-2ubuntu0.3) ...

Selecting previously unselected package file.

Preparing to unpack .../3-file\_1%3a5.32-2ubuntu0.3\_amd64.deb ...

Unpacking file (1:5.32-2ubuntu0.3) ...

Selecting previously unselected package xz-utils.

Preparing to unpack .../4-xz-utils\_5.2.2-1.3\_amd64.deb ...

Unpacking xz-utils (5.2.2-1.3) ...

Selecting previously unselected package make.

Preparing to unpack .../5-make\_4.1-9.1ubuntu1\_amd64.deb ...

Unpacking make (4.1-9.1ubuntu1) ...

Selecting previously unselected package unzip.

Preparing to unpack .../6-unzip\_6.0-21ubuntu1\_amd64.deb ...

Unpacking unzip (6.0-21ubuntu1) ...

Selecting previously unselected package zip.

Preparing to unpack .../7-zip\_3.0-11build1\_amd64.deb ...

Unpacking zip (3.0-11build1) ...

Setting up readline-common (7.0-3) ...

Setting up make (4.1-9.1ubuntu1) ...

Setting up mime-support (3.60ubuntu1) ...

Setting up libreadline7:amd64 (7.0-3) ...

Setting up unzip (6.0-21ubuntu1) ...

Setting up zip (3.0-11build1) ...

Setting up libmagic-mgc (1:5.32-2ubuntu0.3) ...

Setting up libmagic1:amd64 (1:5.32-2ubuntu0.3) ...

Setting up xz-utils (5.2.2-1.3) ...

update-alternatives: using /usr/bin/xz to provide /usr/bin/lzma (lzma) in auto mode

update-alternatives: warning: skip creation of /usr/share/man/man1/lzma.1.gz because associated file /usr/share/man/man1/xz.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/unlzma.1.gz because associated file /usr/share/man/man1/unxz.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzcat.1.gz because associated file /usr/share/man/man1/xzcat.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzmore.1.gz because associated file /usr/share/man/man1/xzmore.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzless.1.gz because associated file /usr/share/man/man1/xzless.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzdiff.1.gz because associated file /usr/share/man/man1/xzdiff.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzcmp.1.gz because associated file /usr/share/man/man1/xzcmp.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzgrep.1.gz because associated file /usr/share/man/man1/xzgrep.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzegrep.1.gz because associated file /usr/share/man/man1/xzegrep.1.gz (of link group lzma) doesn't exist

update-alternatives: warning: skip creation of /usr/share/man/man1/lzfgrep.1.gz because associated file /usr/share/man/man1/xzfgrep.1.gz (of link group lzma) doesn't exist

Setting up libsqlite3-0:amd64 (3.22.0-1ubuntu0.3) ...

Setting up libmpdec2:amd64 (2.4.2-1ubuntu1) ...

Setting up libpython3.6-stdlib:amd64 (3.6.9-1~18.04) ...

Setting up python3.6 (3.6.9-1~18.04) ...

Setting up file (1:5.32-2ubuntu0.3) ...

Setting up libpython3-stdlib:amd64 (3.6.7-1~18.04) ...

Setting up python3 (3.6.7-1~18.04) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Removing intermediate container 2c22c20dc01e

---> 6fd52721f626

Step 8/12 : COPY --from=build /usr/local /usr/local

---> e0eb44882eff

Step 9/12 : COPY convert.sh /

---> 3ff2ef2bfe64

Step 10/12 : VOLUME /u

---> Running in 1cf81ddb075c

Removing intermediate container 1cf81ddb075c

---> 8a7728925b52

Step 11/12 : WORKDIR /u

---> Running in b1630e07cbb2

Removing intermediate container b1630e07cbb2

---> 78d85127fac3

Step 12/12 : ENTRYPOINT ["/bin/bash", "/convert.sh"]

---> Running in a7ec0e55d309

Removing intermediate container a7ec0e55d309

---> 770cabc27675

Successfully built 770cabc27675

Successfully tagged juniper/doc2html:latest

SECURITY WARNING: You are building a Docker image from Windows against a non-Windows Docker host. All files and directories added to build context will have '-rwxr-xr-x' permissions. It is recommended to double check and reset permissions for sensitive files and directories.

At the end of the Container creation you should see the following images

c:\tmp\doc2html>docker image ls

REPOSITORY TAG IMAGE ID CREATED SIZE

juniper/doc2html latest 770cabc27675 2 minutes ago 322MB

<none> <none> 4fd272d3f650 2 minutes ago 724MB

ubuntu 18.04 4e5021d210f6 12 days ago 64.2MB

### Converting a Document from Word to HTML

When you run the document translation via “docker run” you have three argument options to use to instruct the converter:

* You use the **argument “new”**: This will delete, if they exist, the subdirectories “source” and “build” so be warned. Then it calls Sphinx to **generate a new Project** with some minor input you have to give. This will create the local Makefile for Sphinx and generate all necessary Files needed in the Project. We will modify these files as need for the converter to add some modules and so on. When all this is done it seeks for the latest Word-Doc in your directory and attempts to translate it.
* You use **no additional argument**: This assumes that there is an existing Project with sub-directories “source” and “build” and Sphinx-Makefile from a previous run with the “new”-Argument set. So, we will use the existing Project data and attempt to translate the latest Word-Doc in that directory into HTML. Simply use this approach on any changes you did to get a new conversion done.
* You use the **argument “old”**: This is similar like having used no additional argument so, you need an existing Project. This also **suppresses the Dynamic Tag generation** in the beginning using the previous values. This is useful to speed up the translation on large Documents (>300 Pages) but can cause a collision of one of the 16 Tags we use with the Text inside the Document. So, you have been warned! **This option may have unwanted side-effects!**
* You use the **argument “md5”**: If you want to create an additional markdown file which has all image references stripped to use it for easy version tracking.

The below is an example using the Windows 10 native CMD-Shell. On all other Platforms with a more Unix like Shell use instead:

docker run -ti --rm -v **${PWD}:/u** juniper/doc2html **new**

Here we run the Container for the first time after it’s built so we must add the new command for the first translation to build a new Project.

c:\tmp\doc2html>docker run -ti --rm -v %cd%:/u juniper/doc2html new

Your container args are: new

Please answer the first question about "Separate source and build directories" with YES

Welcome to the Sphinx 2.4.4 quickstart utility.

Please enter values for the following settings (just press Enter to

accept a default value, if one is given in brackets).

Selected root path: .

You have two options for placing the build directory for Sphinx output.

Either, you use a directory "\_build" within the root path, or you separate

"source" and "build" directories within the root path.

> Separate source and build directories (y/n) [n]: y

The project name will occur in several places in the built documentation.

> Project name: myProject

> Author name(s): HS

> Project release []: 1.0

If the documents are to be written in a language other than English,

you can select a language here by its language code. Sphinx will then

translate text that it generates into that language.

For a list of supported codes, see

https://www.sphinx-doc.org/en/master/usage/configuration.html#confval-language.

> Project language [en]:

Creating file ./source/conf.py.

Creating file ./source/index.rst.

Creating file ./Makefile.

Creating file ./make.bat.

Finished: An initial directory structure has been created.

You should now populate your master file ./source/index.rst and create other documentation

source files. Use the Makefile to build the docs, like so:

make builder

where "builder" is one of the supported builders, e.g. html, latex or linkcheck.

generate tags that are collision free with the text inside word ...

\_0\_MtuheJ2jc8\_0\_

\_0\_KdrGRftWzg\_0\_

\_0\_PAOHw06JcK\_0\_

\_0\_SuNHTCSPh2\_0\_

\_0\_OhC4CFKS38\_0\_

\_0\_IMX0UXGuJD\_0\_

\_0\_WsNLUysWwX\_0\_

\_0\_cPWrqVnu8P\_0\_

\_0\_sE1yYu0QsX\_0\_

\_0\_lHAecFG6AG\_0\_

\_0\_4aUslEGnBx\_0\_

\_0\_Lxa1dlDpZm\_0\_

\_0\_ZQ6OkfhJV9\_0\_

\_0\_FhyezLNBlk\_0\_

\_0\_keQn5oLVJl\_0\_

\_0\_uMJSdVfABo\_0\_

read the dynamic tags into the 16 global variables ...

create your own dynamic translation map using the variables ...

p[style-name='header'] => p:fresh

p[style-name='Body Text'] => p:fresh

p[style-name='No Spacing'] => pre.sourcecode:separator('\n')

p[style-name='CLI10'] => pre.sourcecode:separator('\n')

p[style-name='CLI8'] => pre.sourcecode:separator('\n') > \_0\_WsNLUysWwX\_0\_

p[style-name='CLI6'] => pre.sourcecode:separator('\n') > \_0\_sE1yYu0QsX\_0\_

p[style-name='CLI4'] => pre.sourcecode:separator('\n') > \_0\_4aUslEGnBx\_0\_

p[style-name='2Note'] => \_0\_keQn5oLVJl\_0\_

p[style-name='3Warning'] => \_0\_ZQ6OkfhJV9\_0\_

p[style-name='CLI10green'] => pre.sourcecode:separator('\n') > \_0\_MtuheJ2jc8\_0\_

p[style-name='CLI10red'] => pre.sourcecode:separator('\n') > \_0\_PAOHw06JcK\_0\_

p[style-name='CLI10purple'] => pre.sourcecode:separator('\n') > \_0\_OhC4CFKS38\_0\_

r[style-name='CLI10green Char'] => \_0\_MtuheJ2jc8\_0\_

r[style-name='CLI10red Char'] => \_0\_PAOHw06JcK\_0\_

r[style-name='CLI10purple Char'] => \_0\_OhC4CFKS38\_0\_

removing old images from source folder ...

running mammoth ...

Image of type image/x-emf is unlikely to display in web browsers

An unrecognised element was ignored: {urn:schemas-microsoft-com:office:office}OLEObject

Unrecognised paragraph style: toc 1 (Style ID: Verzeichnis1)

Unrecognised paragraph style: toc 2 (Style ID: Verzeichnis2)

Unrecognised paragraph style: toc 3 (Style ID: Verzeichnis3)

save the color termination points via relabel them else the pandoc conversion will throw them away ...

1/6 Processes

2/6 Processes

3/6 Processes

4/6 Processes

5/6 Processes

6/6 Processes

Pre-Process to disable syntax highlight, insert notes and warnings

1/3 Processes

2/3 Processes

3/3 Processes

Patch the beginning of a font4-Block to make the entire section hidden ...

1/3 Processes

2/3 Processes

3/3 Processes

Encoding for stdout is only ANSI\_X3.4-1968, will auto-encode text with utf8 before output

centralmsvm-certs.tgz

.

.

.

building our static html pages ...

Running Sphinx v2.4.4

making output directory... done

building [mo]: targets for 0 po files that are out of date

building [html]: targets for 2 source files that are out of date

updating environment: [new config] 2 added, 0 changed, 0 removed

reading sources... [100%] readme

looking for now-outdated files... none found

pickling environment... done

checking consistency... done

preparing documents... done

writing output... [100%] readme

generating indices... genindexdone

writing additional pages... search/usr/local/lib/python3.6/dist-packages/sphinx\_rtd\_theme/search.html:21: RemovedInSphinx30Warning: To modify script\_files in the theme is deprecated. Please insert a <script> tag directly in your theme instead.

{% endblock %}

done

copying images... [100%] 20.png

copying static files... ... done

copying extra files... done

dumping search index in English (code: en)... done

dumping object inventory... done

build succeeded.

The HTML pages are in build/html.

convert CLI-labels to color codes in html

1/6 Processes

2/6 Processes

3/6 Processes

4/6 Processes

5/6 Processes

6/6 Processes

just revoke the small font labels for now as the used readthedoc theme is small enough

1/6 Processes

2/6 Processes

3/6 Processes

4/6 Processes

5/6 Processes

6/6 Processes

also remove the labels in the stored \*.rst files ...

1/12 Processes

2/12 Processes

3/12 Processes

4/12 Processes

5/12 Processes

6/12 Processes

7/12 Processes

8/12 Processes

9/12 Processes

10/12 Processes

11/12 Processes

11/12 Processes

prepare distribution package with word and html-files in a Lab-doc-essentials.zip ...

File detected:centralmsvm-certs.tgz

cp source/centralmsvm-certs.tgz build/distribute/readthedocs-html-version

adding: Lab-doc-essentials.docx (deflated 6%)

adding: readthedocs-html-version/ (stored 0%)

adding: readthedocs-html-version/UnhideButton.png (stored 0%)

adding: readthedocs-html-version/\_images/ (stored 0%)

adding: readthedocs-html-version/\_images/1.jpeg (deflated 59%)

adding: readthedocs-html-version/\_images/10.png (deflated 1%)

adding: readthedocs-html-version/\_images/11.png (deflated 1%)

.

.

.

adding: readthedocs-html-version/index.html (deflated 73%)

adding: readthedocs-html-version/objects.inv (deflated 1%)

adding: readthedocs-html-version/readme.html (deflated 76%)

adding: readthedocs-html-version/search.html (deflated 68%)

adding: readthedocs-html-version/searchindex.js (deflated 54%)

static html pages in build/html:

UnhideButton.png \_images \_sources \_static genindex.html index.html objects.inv readme.html search.html searchindex.js

Your distribution zip file:Lab-doc-essentials.zip

As this is a new Project we have auto-generated the reStructuredText welcome and index-Page for you.

If you want to edit that to expand or change what is displayed edit the File: source/index.rst

c:\tmp\doc2html>dir

.

04/02/2020 09:58 AM <DIR> .

04/02/2020 09:58 AM <DIR> ..

04/02/2020 09:58 AM <DIR> build

04/02/2020 01:01 AM 12,104 convert.sh

04/01/2020 02:59 PM 804 Dockerfile

04/01/2020 10:55 PM 77,567 Empty-Word-Template.docx

04/01/2020 11:43 PM 1,459,410 Lab-doc-essentials.docx

04/02/2020 09:58 AM 9,218,828 Lab-doc-essentials.zip

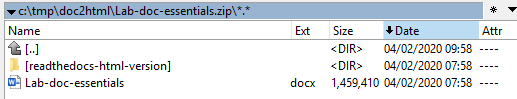
04/02/2020 09:58 AM 799 make.bat

04/02/2020 09:58 AM 638 Makefile

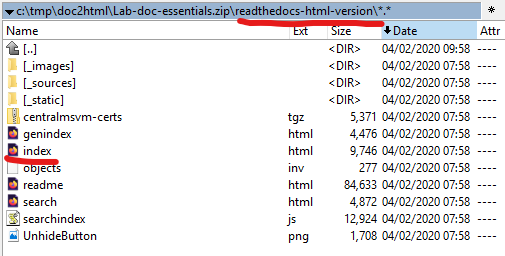
04/02/2020 09:42 AM <DIR> newproject

04/02/2020 09:58 AM <DIR> source

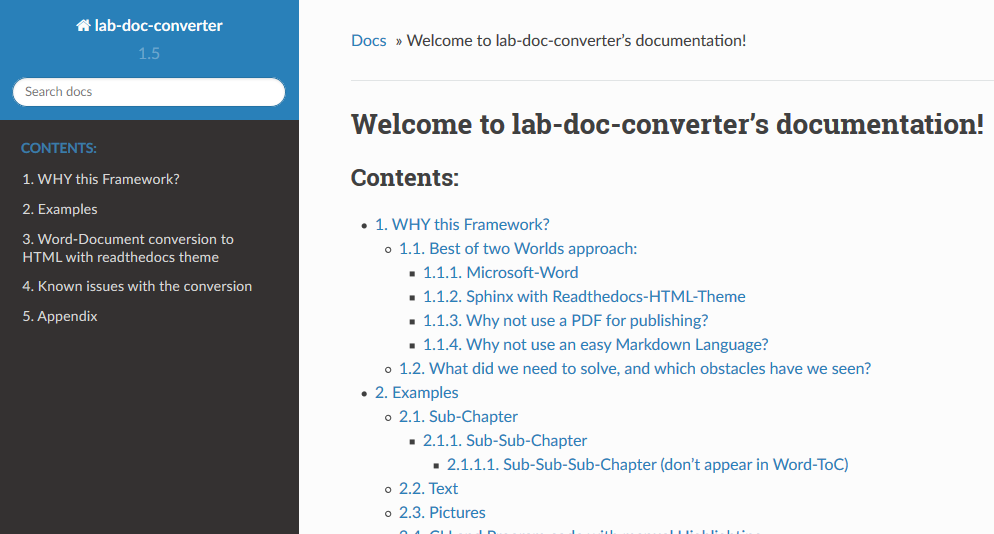
The conversion process has automatically created a ZIP-File that contains the original Word-File plus the new HTML version. You can change that behaviour in the File “convert.sh” if you don’t like it. Below you see the initial archive-structure.



If you change into the “readthedocs-html-version” folder you will see rendered HTML-Version with the index.hml-File as starting Page.



You can now put that folder onto your Webserver for online review or unpack it locally to review it offline on your PC or Notebook. The first Page should look similar to this:



# Known issues with the conversion

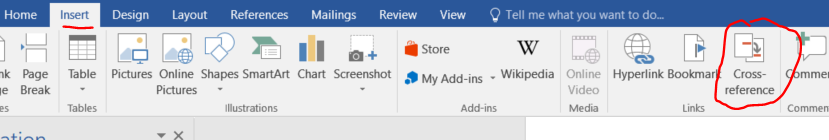
This is a list of all know issue related to the suggested Word to HTML document conversion.

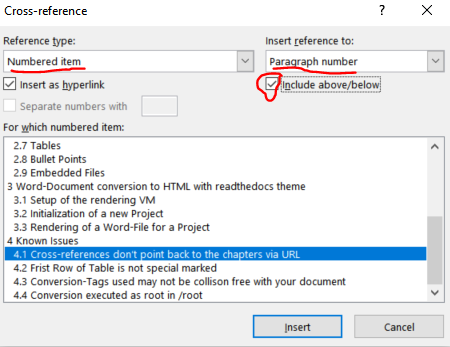
## Cross-references don’t point back to the chapters via URL

When the document is converted from word to HTML you currently lose the cross-references inside a word document towards the HTML version. You can’t simply click on them to get automatically to the chapter they point to in the HTML version. We have seen that not even Word itself is capable of treating this correctly when you directly export from it to HTML.

Today the workaround is to activate chapter numbers for the ToC in the left Pane and when you create the cross-reference in Word like the below to always use “chapter x.x” with **referencing the Number of the chapter** so people can then use the ToC Pane manually if they want to jump to a certain chapter. This is not elegant but works.

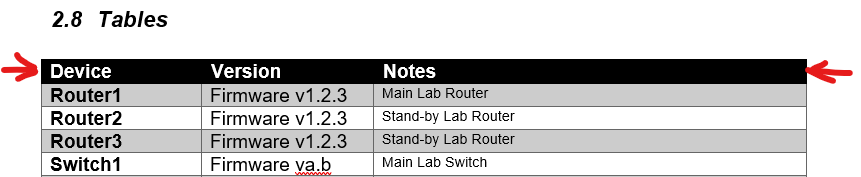
The below is how you should create your cross-references in Word.





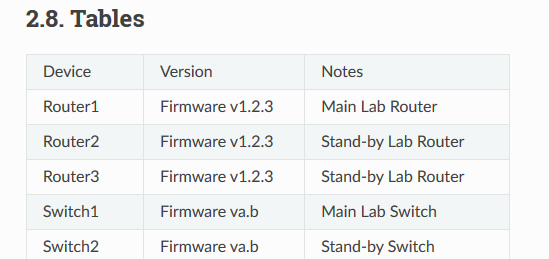
## Table-Headers are not specially marked

What looks great in Word when the first row is specially highlighted like here:



This looks at bit boring after the conversion because each line is treated the same.

Sometimes it helps use a bold font on the first row but that’s about it for now.



## Embedded Files may need to be re-ordered for conversion

If you have NO embedded Files in your Word Document or just a single one, you don’t need the review/consider this section as it’s not applicable to your case.

When we extract embedded OPTIONAL OLE-Objects from the Word-Doc they may not appear in the order of the original appearance in the Word-Doc. You may see a report of them like in the example below:

#

# Extract Embedded Files and craft an URL for download

#

cp **Lab-doc-essentials**.docx AAA.docx

oleobj AAA.docx | tee tmp.txt | grep 'Filename = "' > apporder.txt

sed -i 's/"//g' apporder.txt

sed -i 's/Filename = //g' apporder.txt

cat apporder.txt

sample-code.tar

Lab\_Plan.pdf

my-own-installer.tgz

home-grown-certificates.tgz

Cabling-Plan.xlsx

dbdump.sql.gz

OtherLab-Cabling-Plan.xlsx

Report-example.pdf

#

# STOP here in the process and review if the order in which your Files

# apprear is really the right in which they are in the Word file

# Change the file apporder.txt accordingly if this is not the case before you continue.

# I you have no embedded Files in you document you can ingnore this.

#

In this case we needed to re-order the files as this was not the order in which they appear in the Word-Files and then we could continue the process.

cat <<EOF >apporder.txt

my-own-installer.tgz

Lab\_Plan.pdf

Cabling-Plan.xlsx

OtherLab-Cabling-Plan.xlsx

sample-code.tar

Report-example.pdf

home-grown-certificates.tgz

dbdump.sql.gz

EOF

The Container Converter always shows the order of these elements that have been used at the end of each conversion. You can modify the file “build/apporder.txt” if that wasn’t correct and re-run the converter again to correct this. Again, this is only an issue if you decide to use embedded Objects anyway which is not a must.

# Best Practices when creating lab-documents

Here we describe some best practices you should consider when you create Documentation. Sure, you can have your own style but if you follow them it will limit the amount of time others need to spend with reproducing what you have created. The Practices we suggest to use will also enable People to easily automate the Lab with tools like Ansible because they are mostly CLI based.

## First Document Page

The first Page of your Document needs to have all information essential to know about it. This is not only the Title of the Document and other information like copyright notices. We found it very beneficial if you make absolute sure that the following information is noted there as well:

* A **static URL** that points to the newest version of the Document. Don’t have People riddling around where you might have placed the latest / updated of the Document they are looking at. When you create a Document / Lab create ONE URL and embed that in all related Documents. Newer change the static URL after this!!! All new versions of the Document must be accessible from day one on via this URL. We recommend using URL shorter services like bit.ly or else that are used in your Corporate. That way it is easier to remember and you may change the final storage-location over time. If possible, create a QR-Code of that URL and embed it as well.
* Note down a **version of your Document**. Use the same version when you render the HTML version to keep it in sync.
* Mention and always change the **last edit Date**. This will allow People to instantly spot how old it is what they are looking and if they should look for a newer Version.

## Tell People what you assume when they start the Lab

Please always tell People what you assume as starting point similar the below where in the first line, as a comment, you get some information about the platform where you executed the other CLI commands on. This will allow them to know and deal with changes like being of a different Linux Platform or else. Then you see we use the ‘id’ account to check that we are logged in a ‘root’ on the system. As we highlighted the ‘uid=root’ it instantly tells that we expect this to see. Next in the example we use a certain directory so we are setting the absolute path with the ‘cd’ command. The other two lines are specific to the Linux-version and are to make sure that the system is updated with the latest security fixes so it tells that updating the system is fine.

# Ubuntu 16.04-VM with 4GB RAM, 2CPU, 50GB disk

id

uid=0(root) gid=0(root) groups=0(root)

cd /root

apt-get update

apt-get upgrade -y

## Create Blocks of Cut & Paste config

If possible try to move as much lines together in a single block for users to cut and paste them to have your audience to need to do less action. The example from above can be optimized like this:

# Ubuntu 16.04-VM with 4GB RAM, 2CPU, 50GB disk

id

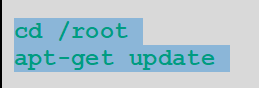
uid=0(root) gid=0(root) groups=0(root)

cd /root

apt-get update

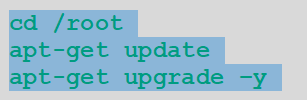
apt-get upgrade –y

After the ‘id’ command you need to check the result so with the blank line between the output from this command and the next you indicate the only ‘id’ needs to be executed and only if the result is the same you execute the next CLI’s. They are now grouped together with our optimisation. So that then indicates that you can use BOTH TOGETHER in a single cut and paste:



without any worries. So that will limit the amount of copy & paste operations one has to do and the more you can pool together the better it is and speeds up lab execution times.

When you do this kind of command pooling, test that it can really be executed that way. The example below is WORNG and NOT EXECUTABLE



Reason is that the ‘apt-get update’ command during execution swallows the next line in your buffer so the command ‘apt-get upgrade -y’ newer gets executed.

## Edits and changes in Files

Try to limit the amount of times where People have to use an Editor to change content in Files to change or edit something. There is always a chance this goes wrong because of human error. Also, on some systems there may be no editor or only ones the user are not familiar with.

### Usage of the ‘sed’-command

Try to use the ‘sed’-command for instance to seek and change content in a File. Even if you don’t know how that operates you will find valid examples quickly in the Internet via a search-engine of your choice. The below is a good example. With the first ‘cat’-command we review how the file may look like usually. Then we use the ‘sed’ command to search for the first three octets of the IP-Address and exchange them to other three octets while indicating at the same time with the purple-color that these octets might be needed to be changed to adapt to a local lab situation. After the change we use the ‘cat’ command again to review our changes indicating which changes are important to look after.

cat /etc/network/interfaces

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address 192.168.2.10

netmask 255.255.255.0

gateway 192.168.2.1

dns-nameservers 8.8.8.8 8.8.4.4

sed -i 's/192.168.2./**172.16.8.**/g' /etc/network/interfaces

cat /etc/network/interfaces

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address 172.16.8.10

netmask 255.255.255.0

gateway 172.16.8.1

dns-nameservers 8.8.8.8 8.8.4.4

The first ‘cat’-command may be optional on big files. The on the second you may combine that with a ‘| grep’ to filter out only for important changes like this assuming the rest went well:

cat /etc/network/interfaces | grep '**172.16.8.**'

address 172.16.8.10

gateway 172.16.8.1

### Create small Files via the ‘cat’-command

If there is a small File just create/overwrite it using the ‘cat’-command like the below via just copy and paste.

cat <<EOF >**myfile.txt**

Every line of code

That we want to have

in this file

EOF

So for the example above we would just use this:

cat <<EOF >/etc/network/interfaces

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address **172.16.8.10**

netmask 255.255.255.0

gateway **172.16.8.1**

dns-nameservers 8.8.8.8 8.8.4.4

EOF

While this method is simple and powerful it has known limits like:

* It usually works fine via SSH-connections but you may lose some lines via serial console input depending on the buffer of your device.
* If you have the **dollar sign ‘$’ in your text** you must escape that properly (changing it to ‘\$’) else your (assumed) BASH-Shell will interpret that and then you get something totally different. We don’t recommend that. Either you tell People to use an editor in this case or you use the next method instead.

### Create small binary Files using the ‘base64’-command

When you want the People to create small binary Files (or files with a dollar ‘$’ sign in it) you can use gzip to compress the File and then use the ‘base64’ to get it into asci-form. The result can then be used via the ‘cat’-command above reversing the Process.

If you are the Editor of the lab documentation use this example process to create the file. We use the changed file from above to demonstrate this to you:

# this is optional just to show how the end-result shall look like

cat /etc/network/interfaces

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address 172.16.8.10

netmask 255.255.255.0

gateway 172.16.8.1

dns-nameservers 8.8.8.8 8.8.4.4

gzip /etc/network/interfaces

base64 /etc/network/interfaces.gz

H4sICHN6m14AA2ludGVyZmFjZXMATYthDsIwCEb/cwouIFmXTXcdbFGbudYU1Hh7uzmnEPJ9yXvw

3TJeM8QTe6kFYxKrmW9H9iMAz1zs0qzGXD+OGlv0gOtwCEVU0R1acnsayDUbq/rEOmLb9/S9Hz2z

yZNff58bCkl3iSdRKQ8pigMtu2RHHbwBRUSA+r4AAAA=

Now when you create your documentation the People will see this then on what they have to do. You embed the output from the last command into the ‘cat’-command method and then you call base64 and gunzip to get the binary uncompressed file back.

cat <<EOF >**/etc/network/interfaces**.b64

H4sICHN6m14AA2ludGVyZmFjZXMATYthDsIwCEb/cwouIFmXTXcdbFGbudYU1Hh7uzmnEPJ9yXvw

3TJeM8QTe6kFYxKrmW9H9iMAz1zs0qzGXD+OGlv0gOtwCEVU0R1acnsayDUbq/rEOmLb9/S9Hz2z

yZNff58bCkl3iSdRKQ8pigMtu2RHHbwBRUSA+r4AAAA=

EOF

base64 -d **/etc/network/interfaces**.b64 >**/etc/network/interfaces**.gz

gunzip **/etc/network/interfaces**.gz

cat **/etc/network/interfaces**

.

.

.

## Creation of new Services, Containers or VM’s

When People using your Lab-Documentation have to create new services, Docker Containers or Virtual-Machines the **start your chapter with assuming** that ‘somehow’ **these already exist** in your environment for some reason. So to be sure that they can be created, **attempt to remove them at the beginning**. Do never assume that the People using your instructions know how remove these properly. It is also in your own interest as Editor that you document the way how to get back to a clean environment because if later changes happen you know also what to do as a roll-back first.

When we try to remove stuff that doesn’t exist yet make sure that error messages that may appear are ignored properly by not display stderr in this case. On BASH-CLI we suggest to append ‘2>/dev/null’ to your commands.

Here is an example valid for KVM based Virtual-Machine generation

virsh destroy **myvm** 2>/dev/null

virsh undefine **myvm** 2>/dev/null

# remaining instructions to build and start your VM

.

.

.

Here is an example valid for native Docker Container generation

docker rm –f mydocker 2>/dev/null

# remaining instructions to build and start your Container

.

.

.

# Appendix

## Using a VM or local Linux BASH-Shell for conversion

Use this chapter and its subsections if you want to understand how the whole process works and what you have to do in each step. This was used when we created the Framework.

**IGNORE this chapter if you are not interested in the details** how this was created and simply use the Container version in chapter 3.2 above

### Setup of a rendering VM

# Ubuntu 16.04-VM with 4GB RAM, 2CPU, 50GB disk

id

uid=0(root) gid=0(root) groups=0(root)

cd /root

apt-get update

apt-get upgrade -y

# get the python version of mammoth and not node-js

apt-get install -y python-pip

pip install -U mammoth

# PATCH mammoth as the current version 1.4.7 removes blank lines per default

# unlucky there is no cmd-line option to change this so we patch instead of writing a wrapper

sed -i 's/options.get("ignore\_empty\_paragraphs", True)/options.get("ignore\_empty\_paragraphs", False)/g' /usr/local/lib/python2.7/dist-packages/mammoth/options.py

# check first if there may be a newer tag/build for you to use

# https://github.com/jgm/pandoc/tags

wget https://github.com/jgm/pandoc/releases/download/**2.7.3**/pandoc-**2.7.3**-linux.tar.gz

tar xvzf pandoc-**2.7.3**-linux.tar.gz --strip-components 1 -C /usr/local/pandoc -v

apt-get install -y git python3-sphinx apache2

pip install sphinx\_rtd\_theme

# needed to extract embedded objects

pip install -U oletools

apt install -y zip

#

# Create Big Unhide Button (use your own if you don’t like this one)

#

cat <<EOF >UnhideButton.uue

iVBORw0KGgoAAAANSUhEUgAAAUQAAAA1CAMAAAAOPWIkAAAAAXNSR0IArs4c6QAAAARnQU1BAACx

jwv8YQUAAAByUExURQAAAI+Pj4qKj4eLj4mMj4mNj4eLj4mNkIqNkImNkIqOkImOkImNkImNkABw

wAlyvRF0uhp1tx+ByDx9qz2Sz0R/qFeh1W6u24CLk4K54ImNkJPC5KPL6LHT7LzZ7sfg8dHl9Nrq

9uPv+Oz0+vX5/f///yfECYAAAAAOdFJOUwAQMEBQcICPn6+/z9/vT+y4YwAAAAlwSFlzAAAXEQAA

FxEByibzPwAABalJREFUeF7tW4ty2zgQU5Jr3KS121N8dhxbfkr//4sHLHZlMRPXktybZuaI6Uh8

gliIpMQmKTIyPhEevjx9m2YMw/enx3v3D7ibTN8yRmHiFhb3370kYzimD+bh3TfPZ4zB1EyceC5j

HJ7g4YOnM8YCC/qLJV5f/p5lDMPPF7Pu7bEonizxj1dkDIFcxHrWq/mnF2cMwQ/zDq8Wu795acYw

yLxs4k2QednEmyDzxppYNU3lSWBxqteeBJZN03jyHdKKbXMoPQkcEkbwHzz5nyDVPxoy75KJCDcG

+dCTVMQeTc5+9DRxgdzW08AYE9GqCy/tgxEmfjSAzPv/mDivm6UngU9o4p9azkNMhKrPbWKKviam

GL8ndrT+AmDMJl5GR+svgC3nz5t4aE6zqm6a44qFFLGErpO1ipDL7alp9psYbnNEg93c0gZUlBWb

LDxnYa2MJ0xc7Oqm3m27jMeKyx461gu0qnedTYDoaBVZvScvEkeWlBC93OJCRMNUP9DRCn2MdIck

xTQHbVXobfcuZN4QExv8IzbIQYTL2ivHkBcI2IFcCVlEbY4ZmFMhy3BjsPDLwRHX3sAZPXeEb9Bx

VPaUuoiS1sSdNYDdMo9SUVTZq4/omOjU1J9qxTjUBBPXKjU/OQxvCWTeIBMbzAhMsxoxQESzn8+W

UAIj3EQoYRkFKYf2aMH2AirwBioRFpsjh74rlZEQI+Idyl60Ek2Q4xsLYyJDHcflbE5e0TnU04Dg

oYBNnBkCfEJqtECqP9WKKqIiAQakXPKjyLp2IfMGmcjnyvGwoCHCHiFU4zNFJuK52RxRB+SsBXLW

j0AFH3WJu8QiAMxeqwc/RoRg6yVG5KwOuQWJjJ6hsbAFeFzr3JtgEpIF029H/mTzEFL9qVa01MdG

dD00Na7wm5kEMm+QiSZCwUKE1SvYNmT77lMHRGC7J6hQJ4gpArIr4tYnpnihO/Zc9IJuqwNjxYsR

uZ4zkHetmLL68gQZrlzQPo1izECqP9WKlvbo8CGrp4VG6MqXwnvIvN9pImpMijqc90fFTiAd9zAR

jaVUvCgz24yRBgd6mQjHWjCPSdtOW6QumphqxdXaxI5ImIltHC1kXg8T/WV73USNFVHiErClQiAd

9zBRXQHjbQ2yYuYCmz4mgiPABWhTOU5FSF000XoI0IprtGmBZb09x9FC5l0yEXIUmz1ePszrJmo7

jygj14VV6B4mYrJoIOPlbmk5Y2xzhh4mYofzlCAbbF/zMQOp/lQrWtq9lXYZMu+SiZx+4o0j7nUT

VRNRwvvOUVAIeSK3a2uJeqsmGLHMzl+ZPUzEArSvEQek1yDSeg5mIdWfag1+vqYscRky75KJ3JPr

aj4rN0wwkusm6ktEe4nF6hLOPoQ8BaQr+I0XhoERW7zxIizxypQSG2UPE6lao9mVHxIleO01odEC

qf5Ua8uPUOWtsR0GL+dkVzWm6ybyPbCR7VSBhjiZlOuTPQODKiIgXblbzGc8ipARw9Z4ZfNjF4w0

BU9yXtWYTT1MpBCeqFaH82cYFmVMgk3ZzrdUf6q15cdI9brEscU/g/wV3oHMu2ji+ejg/0GDca6Y

GMZjAlBFnAI6SwXpuLcmRjPcyAhPPUfGOLHwKNHHxOjOGczFzDc9JvdZXDR8Z2KiFVdWAe1Mwolp

lImYUpwdB8wEQw8TZytoOa4pm7nZmgTHbTsRPzQRJwIelueIWYxYfzj71mIsK4Z32PRbzsByD99P

Oxw00NGC5iGIC9qI43m+MzHR2uGf79CpVq8RyzmjD2ReNvEmyLz8w/tb0P7w/qslXrw4Ywj0ayTP

RfFoiezicPx4eTXrJkVxbwngNWMY3Le3v4r4tbCMsfjK35S9y7+yfQumdzSxeMgujseUi9mgN3TG

cDxrHhruH5/zn7IMxfR50vljoIyMjIyMjIyMjIyM346i+BdX+0E6FBVr3AAAAABJRU5ErkJggg==

EOF

base64 -d UnhideButton.uue >./UnhideButton.png

### Initialization of a new Project

cd /root

rm -Rf build/\*

rm -Rf source/\*

rm -Rf Makefile

sphinx-quickstart

Welcome to the Sphinx 1.8.2 quickstart utility.

Please enter values for the following settings (just press Enter to

accept a default value, if one is given in brackets).

Selected root path: .

You have two options for placing the build directory for Sphinx output.

Either, you use a directory "\_build" within the root path, or you separate

"source" and "build" directories within the root path.

> Separate source and build directories (y/n) [n]: y

Inside the root directory, two more directories will be created; "\_templates"

for custom HTML templates and "\_static" for custom stylesheets and other static

files. You can enter another prefix (such as ".") to replace the underscore.

> Name prefix for templates and static dir [\_]:

The project name will occur in several places in the built documentation.

> Project name: Documentation Framework

> Author name(s): hschroeder

> Project release []:

If the documents are to be written in a language other than English,

you can select a language here by its language code. Sphinx will then

translate text that it generates into that language.

For a list of supported codes, see

http://sphinx-doc.org/config.html#confval-language.

> Project language [en]:

The file name suffix for source files. Commonly, this is either ".txt"

or ".rst". Only files with this suffix are considered documents.

> Source file suffix [.rst]:

One document is special in that it is considered the top node of the

"contents tree", that is, it is the root of the hierarchical structure

of the documents. Normally, this is "index", but if your "index"

document is a custom template, you can also set this to another filename.

> Name of your master document (without suffix) [index]:

Indicate which of the following Sphinx extensions should be enabled:

> autodoc: automatically insert docstrings from modules (y/n) [n]:

> doctest: automatically test code snippets in doctest blocks (y/n) [n]:

> intersphinx: link between Sphinx documentation of different projects (y/n) [n]:

> todo: write "todo" entries that can be shown or hidden on build (y/n) [n]:

> coverage: checks for documentation coverage (y/n) [n]:

> imgmath: include math, rendered as PNG or SVG images (y/n) [n]:

> mathjax: include math, rendered in the browser by MathJax (y/n) [n]:

> ifconfig: conditional inclusion of content based on config values (y/n) [n]:

> viewcode: include links to the source code of documented Python objects (y/n) [n]:

> githubpages: create .nojekyll file to publish the document on GitHub pages (y/n) [n]:

A Makefile and a Windows command file can be generated for you so that you

only have to run e.g. `make html' instead of invoking sphinx-build

directly.

> Create Makefile? (y/n) [y]:

> Create Windows command file? (y/n) [y]:

Creating file ./source/conf.py.

Creating file ./source/index.rst.

Creating file ./Makefile.

Finished: An initial directory structure has been created.

You should now populate your master file ./source/index.rst and create other documentation

source files. Use the Makefile to build the docs, like so:

make builder

where "builder" is one of the supported builders, e.g. html, latex or linkcheck.

# change layout to readthedocs-theme and boost display width

sed -i 's/alabaster/sphinx\_rtd\_theme/g' source/conf.py

cat <<EOF >source/\_static/style.css

.wy-nav-content {

max-width: **1600px** !important;

}

EOF

cat <<EOF >source/\_templates/layout.html

{% extends "!layout.html" %}

{% block extrahead %}

<link href="{{ pathto("\_static/style.css", True) }}" rel="stylesheet" type="text/css">

{% endblock %}

EOF

#

# enable the hidden code-block feature

#

cat <<EOF >source/\_static/custom.css

.toggle .header {

display: block;

clear: both;

}

.toggle .header:after {

display: none;

}

.toggle .header.open:after {

display: none;

}

EOF

cat <<EOF >source/\_templates/page.html

{% extends "!page.html" %}

{% block footer %}

<script type="text/javascript">

$(document).ready(function() {

$(".toggle > \*").hide();

$(".toggle .header").show();

$(".toggle .header").click(function() {

$(this).parent().children().not(".header").toggle(400);

$(this).parent().children(".header").toggleClass("open");

})

});

</script>

{% endblock %}

EOF

**echo '' >> source/conf.py**

**echo 'def setup(app):' >> source/conf.py**

**echo " app.add\_css\_file('custom.css')" >> source/conf.py**

#

# This is our very own greetings Page

#

cat <<EOF >source/index.rst

.. **Lab-Document**

Welcome to **myProject**'s documentation!

=====================================

.. note:: We are aware that due to the document conversion this comes only close to 98% of the original Word-Document.

In any doubt or if you see strange things please review the original Word-Document as reference! OK?

.. toctree::

:maxdepth: 4

:numbered:

:caption: Contents:

readme

EOF

# render the initial project and check webserver

make html ; rm -fR /var/www/html/\*; cp -R build/html/\* /var/www/html

### Rendering of a Word-File for a Project

cd /root

# copy the file you want to render to the VM

ls -l

-rw-r--r-- 1 root root 235359 Dec 10 00:26 Lab-doc-essentials.docx

# generate tags that are collision free with the text inside word

# use them as global variables in the rest of this batch

/root/.local/bin/pandoc -f docx -t html **Lab-doc-essentials**.docx >collision-check.html

rm -f dynamic-tags.txt

touch dynamic-tags.txt

num=1

while [ $num -le 17 ]; do

num=$(expr $num + 1)

while :; do

NEWTAG='\_0\_'$(cat /dev/urandom | tr -dc 'a-zA-Z0-9' | fold -w 10 | head -n 1)'\_0\_'

COLLISION=$(cat collision-check.html | grep $NEWTAG | wc -l)

if [ $COLLISION -eq 0 ]; then

break

fi

done

echo $NEWTAG >> dynamic-tags.txt

done

cat dynamic-tags.txt

# read the dynamic tags into the 16 global variables

TAGGREENS=`sed -n '1p' dynamic-tags.txt`

TAGGREENE=`sed -n '2p' dynamic-tags.txt`

TAGREDS=`sed -n '3p' dynamic-tags.txt`

TAGREDE=`sed -n '4p' dynamic-tags.txt`

TAGPURPLES=`sed -n '5p' dynamic-tags.txt`

TAGPURPLEE=`sed -n '6p' dynamic-tags.txt`

TAGFONT8S=`sed -n '7p' dynamic-tags.txt`

TAGFONT8E=`sed -n '8p' dynamic-tags.txt`

TAGFONT6S=`sed -n '9p' dynamic-tags.txt`

TAGFONT6E=`sed -n '10p' dynamic-tags.txt`

TAGFONT4S=`sed -n '11p' dynamic-tags.txt`

TAGFONT4E=`sed -n '12p' dynamic-tags.txt`

TAGWARNS=`sed -n '13p' dynamic-tags.txt`

TAGWARNE=`sed -n '14p' dynamic-tags.txt`

TAGNOTES=`sed -n '15p' dynamic-tags.txt`

TAGNOTEE=`sed -n '16p' dynamic-tags.txt`

TAGHIDDEN=`sed -n '17p' build/dynamic-tags.txt`

# create your own dynamic translation map using the variables

cat <<EOF >mymap.txt

p[style-name='header'] => p:fresh

p[style-name='Body Text'] => p:fresh

p[style-name='No Spacing'] => pre.sourcecode:separator('\n')

p[style-name='CLI10'] => pre.sourcecode:separator('\n')

EOF

echo "p[style-name='CLI8'] => pre.sourcecode:separator('\n') > "$TAGFONT8S >> mymap.txt

echo "p[style-name='CLI6'] => pre.sourcecode:separator('\n') > "$TAGFONT6S >> mymap.txt

echo "p[style-name='CLI4'] => pre.sourcecode:separator('\n') > "$TAGFONT4S >> mymap.txt

echo "p[style-name='2Note'] => "$TAGNOTES >> mymap.txt

echo "p[style-name='3Warning'] => "$TAGWARNS >> mymap.txt

echo "p[style-name='CLI10green'] => pre.sourcecode:separator('\n') > "$TAGGREENS >> mymap.txt

echo "p[style-name='CLI10red'] => pre.sourcecode:separator('\n') > "$TAGREDS >> mymap.txt

echo "p[style-name='CLI10purple'] => pre.sourcecode:separator('\n') > "$TAGPURPLES >> mymap.txt

echo "r[style-name='CLI10green Char'] => "$TAGGREENS >> mymap.txt

echo "r[style-name='CLI10red Char'] => "$TAGREDS >> mymap.txt

echo "r[style-name='CLI10purple Char'] => "$TAGPURPLES >> mymap.txt

cat mymap.txt

# just make sure we have no old images

rm source/\*.x-emf

rm source/\*.png

mammoth --output-format html --style-map mymap.txt --output-dir /root/source **Lab-doc-essentials**.docx

mv /root/source/**Lab-doc-essentials**.html /root/source/index.html

cp -R source/\* /var/www/html

# save the color termination points via relabel them

# else the pandoc conversion will throw them away

sed -i 's/<\/'$TAGREDS'>/<'$TAGREDE'>/g' source/index.html

sed -i 's/<\/'$TAGGREENS'>/<'$TAGGREENE'>/g' source/index.html

sed -i 's/<\/'$TAGPURPLES'>/<'$TAGPURPLEE'>/g' source/index.html

sed -i 's/<\/'$TAGFONT8S'>/<'$TAGFONT8E'>/g' source/index.html

sed -i 's/<\/'$TAGFONT6S'>/<'$TAGFONT6E'>/g' source/index.html

sed -i 's/<\/'$TAGFONT4S'>/<'$TAGFONT4E'>/g' source/index.html

/root/.local/bin/pandoc -f html -t rst --columns=1000 source/index.html >source/readme.rst

# Pre-Process to disable syntax highlight, insert notes and warnings

sed -i 's/.. code:: sourcecode/.. code-block:: none/g' source/readme.rst

sed -i 's/<'$TAGNOTES'>/.. note:: /g' source/readme.rst

sed -i 's/<'$TAGWARNS'>/.. warning:: /g' source/readme.rst

# Patch the beginning of a font4-Block to make the entire section hidden

cat <<EOF >replace\_smallfont.py

f = open("source/readme.rst",'r') # open file with read permissions

filedata = f.read() # read contents

f.close() # closes file

EOF

echo 'filedata = filedata.replace(".. code-block:: none\n\n <'$TAGFONT4S'>", ".. container:: toggle\n\n .. container:: header\n\n '$TAGHIDDEN'\n\n .. code-block:: none\n\n <'$TAGFONT4S'>")' >>build/replace\_smallfont.py

cat <<EOF >>replace\_smallfont.py

f = open("readme.rst",'w') # open the same (or another) file with write permissions

f.write(filedata) # update it replacing the previous strings

f.close() # closes the file

EOF

python replace\_smallfont.py

sed -i 's/<'$TAGFONT4S'>/ /g' build/readme.rst

sed -i 's/<'$TAGFONT4E'>//g' readme.rst

mv readme.rst source/readme.rst

#

# Extract Embedded Files and craft an URL for download

#

cp **Lab-doc-essentials**.docx AAA.docx

oleobj AAA.docx | tee tmp.txt | grep 'Filename = "' > apporder.txt

sed -i 's/"//g' apporder.txt

sed -i 's/Filename = //g' apporder.txt

cat apporder.txt

#

# STOP here in the process and review if the order in which your Files

# apprear is really the right in which they are in the Word file

# Change the file apporder.txt accordingly if this is not the case before you continue.

# I you have no embedded Files in you document you can ingnore this.

#

while IFS= read -r line

do

echo "File detected:"$line

runme="mv AAA.docx\_"$line" source/"$line

eval $runme

echo $runme

done < <(cat apporder.txt)

# these are the EMF-Pictures from the embedded objects we need to replace

ls -1 -tr source/\*.x-emf | sed 's/\// /g' | awk '{ print $2 }' > filelist.txt

cat filelist.txt

# Map Pictures to Files and insert URL

num=0

while IFS= read -r line

do

num=$(expr $num + 1)

app="sed -n '"$num"p' apporder.txt"

echo "Build script:"$app

myapp=`eval $app`

echo "App to use:"$myapp

myfile=`echo $line|awk '{print $1}'`

loc=`cat source/readme.rst | grep -in ${myfile} | head -n 1 | sed 's/|/ /g' | awk '{ print $2 }'`

echo "Attach after which image:"$loc

runme="cat source/readme.rst | grep -in '|"$loc"|' | head -n 1 | sed 's/:/ /g' | awk '{ print \$1 }'"

echo $runme

toline=`eval $runme`

echo "Image line in rst is:"$toline

runme="sed -e '"$toline"i\*\*DOWNLOAD\*\*\n\`"$myapp" <"$myapp">\\\`\_\_\n\n' -i source/readme.rst"

echo $runme

eval $runme

echo "done"

done < <(cat filelist.txt)

# Create sphinx-rendered webpage

cp UnhideButton.png ./source

make html

# copy rendered page to local apache server

cp UnhideButton.png ./build/html; rm -fR /var/www/html/\*; cp -R build/html/\* /var/www/html

# transfer embedded files to apache dir

while IFS= read -r line

do

echo "File detected:"$line

runme="cp source/"$line" /var/www/html"

eval $runme

echo $runme

done < <(cat apporder.txt)

# convert CLI-labels to color codes in html

**sed -i 's/&lt;'$TAGGREENS'&gt;/<font color="green"><b>/g' /var/www/html/readme.html**

**sed -i 's/&lt;'$TAGGREENE'&gt;/<\/font color="green"><\/b>/g' /var/www/html/readme.html**

**sed -i 's/&lt;'$TAGREDS'&gt;/<font color="red"><b>/g' /var/www/html/readme.html**

**sed -i 's/&lt;'$TAGREDE'&gt;/<\/font color="red"><\/b>/g' /var/www/html/readme.html**

**sed -i 's/&lt;'$TAGPURPLES'&gt;/<font color="purple"><b>/g' /var/www/html/readme.html**

**sed -i 's/&lt;'$TAGPURPLEE'&gt;/<\/font color="purple"><\/b>/g' /var/www/html/readme.html**

# just revoke the small font labels for now as the used readthedoc theme is small enough

sed -i 's/&lt;'$TAGFONT8S'&gt;//g' /var/www/html/readme.html

sed -i 's/&lt;'$TAGFONT8E'&gt;//g' /var/www/html/readme.html

sed -i 's/&lt;'$TAGFONT6S'&gt;//g' /var/www/html/readme.html

sed -i 's/&lt;'$TAGFONT6E'&gt;//g' /var/www/html/readme.html

sed -i 's/&lt;'$TAGFONT4S'&gt;//g' /var/www/html/readme.html

sed -i 's/&lt;'$TAGFONT4E'&gt;//g' /var/www/html/readme.html

sed -i 's/'$TAGHIDDEN'/<img src="UnhideButton.png">/g' build/html/readme.html

# also remove the labels in the stored \*.rst files

sed -i 's/<'$TAGGREENS'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGGREENE'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGREDS'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGREDE'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGPURPLES'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGPURPLEE'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGFONT8S'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGFONT8E'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGFONT6S'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGFONT6E'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGFONT4S'>//g' /var/www/html/\_sources/readme.rst.txt

sed -i 's/<'$TAGFONT4E'>//g' /var/www/html/\_sources/readme.rst.txt

# prepare distribution package with word and html-files in a \*.zip

mkdir -p /root/distribute

rm -fR /root/distribute/\*

mkdir -p /root/distribute/readthedocs-html-version

cp **Lab-doc-essentials**.docx /root/distribute

cp -R /var/www/html/\* /root/distribute/readthedocs-html-version

rm -f **Lab-doc-essentials**.zip

while IFS= read -r line

do

echo "File detected:"$line

runme="cp source/"$line" distribute/readthedocs-html-version"

eval $runme

echo $runme

done < <(cat apporder.txt)

cd distribute; zip -r ../**Lab-doc-essentials**.zip \* ; cd ..

ls -l

-rw-r--r-- 1 root root 235359 Dec 10 00:26 Lab-doc-essentials.docx

-rw-r--r-- 1 root root 6955893 Dec 10 00:29 Lab-doc-essentials.zip