

OLD DOMINION UNIVERSITY

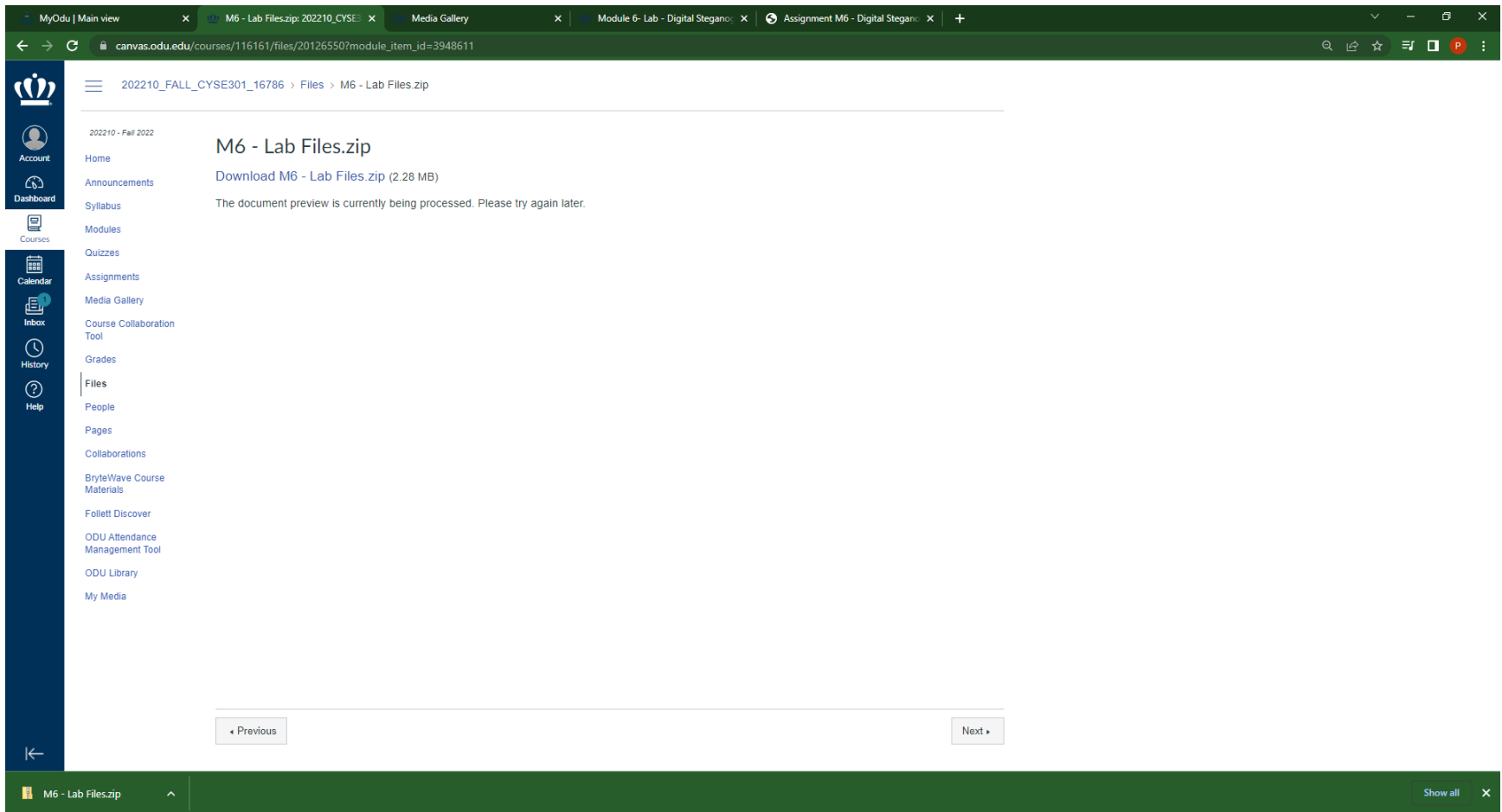
CYSE301 CYBERSECURITY TECHNIQUES AND OPERATIONS

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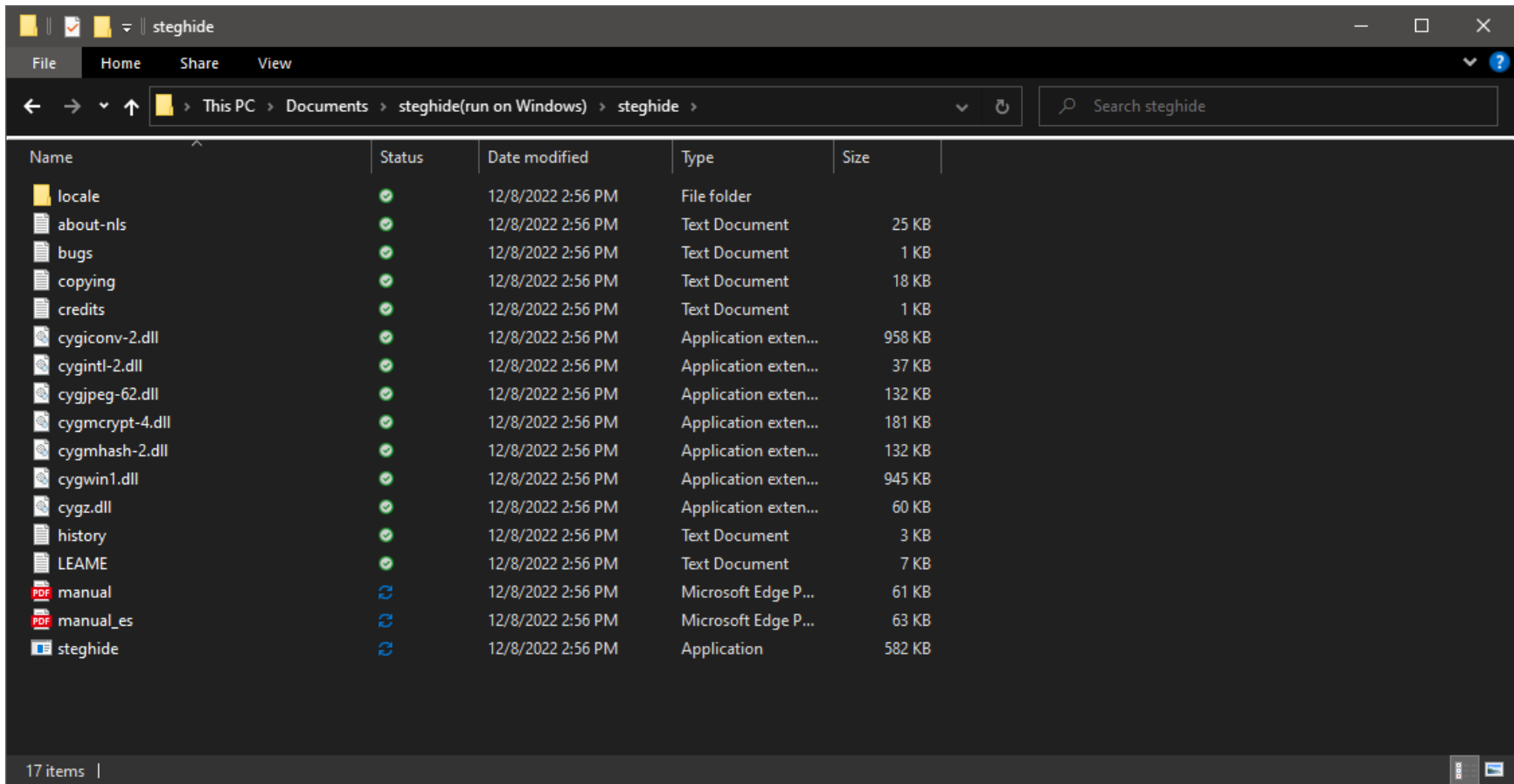
ASSIGNMENT #7 Hide your secret!

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I downloaded the lab files.



This is the steghide file unzipped on my personal windows computer.

```
C:\> Command Prompt
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pauli>cd C:\Users\pauli\OneDrive\Documents\steghide(run on Windows)\steghide

C:\Users\pauli\OneDrive\Documents\steghide(run on Windows)\steghide>steghide.exe
steghide version 0.5.1

the first argument must be one of the following:
embed, --embed          embed data
extract, --extract      extract data
info, --info            display information about a cover- or stego-file
info <filename>         display information about <filename>
encinfo, --encinfo      display a list of supported encryption algorithms
version, --version      display version information
license, --license      display steghide's license
help, --help            display this usage information

embedding options:
-ef, --embedfile        select file to be embedded
-ef <filename>          embed the file <filename>
-cf, --coverfile        select cover-file
-cf <filename>          embed into the file <filename>
-p, --passphrase        specify passphrase
-p <passphrase>         use <passphrase> to embed data
-sf, --stegofile        select stego file
-sf <filename>          write result to <filename> instead of cover-file
-e, --encryption        select encryption parameters
-e <a>[<m>]|<m>[<a>]    specify an encryption algorithm and/or mode
-e none                 do not encrypt data before embedding
```

Access steghide from the cmd prompt.



1. Create a file with name, timestamp, and expected grade.

Extract steghide							
File Home Share View Compressed Folder Tools							
< > << >> <<< >>> <<<< >>>> Search steghide							
<< Downloads > M6 - Lab Files > M6 - Lab Files > steghide(run on Windows) > steghide >							
Name	Type	Compressed size	Password ...	Size	Ratio	Date modified	
locale	File folder					1/12/2021 3:09 PM	
about-nls	Text Document	7 KB	No	25 KB	76%	4/27/2020 12:51 AM	
bugs	Text Document	1 KB	No	1 KB	42%	4/27/2020 12:51 AM	
copying	Text Document	7 KB	No	18 KB	63%	4/27/2020 12:51 AM	
credits	Text Document	1 KB	No	1 KB	50%	4/27/2020 12:51 AM	
cygiconv-2.dll	Application extension	707 KB	No	958 KB	27%	4/27/2020 12:51 AM	
cygintl-2.dll	Application extension	19 KB	No	37 KB	50%	4/27/2020 12:51 AM	
cygjpeg-62.dll	Application extension	66 KB	No	132 KB	51%	4/27/2020 12:51 AM	
cygmcrypt-4.dll	Application extension	76 KB	No	181 KB	59%	4/27/2020 12:51 AM	
cygmhash-2.dll	Application extension	64 KB	No	132 KB	52%	4/27/2020 12:51 AM	
cygwin1.dll	Application extension	443 KB	No	945 KB	54%	4/27/2020 12:51 AM	
cygz.dll	Application extension	29 KB	No	60 KB	52%	4/27/2020 12:51 AM	
history	Text Document	1 KB	No	3 KB	60%	4/27/2020 12:51 AM	
LEAME	Text Document	3 KB	No	7 KB	61%	4/27/2020 12:51 AM	
manual	Microsoft Edge PDF Docu...	51 KB	No	61 KB	17%	4/27/2020 12:51 AM	
manual_es	Microsoft Edge PDF Docu...	52 KB	No	63 KB	17%	4/27/2020 12:51 AM	
Monarch	BMP File	108 KB	No	202 KB	47%	12/8/2022 3:05 PM	
Smessage	Text Document	1 KB	No	1 KB	7%	12/8/2022 3:06 PM	
steghide	Application	208 KB	No	582 KB	65%	4/27/2020 12:51 AM	
19 items							

3 files placed together in a steghide.

C:\ Select Command Prompt

extracting options:

```
-sf, --stegofile      select stego file
-sf <filename>       extract data from <filename>
-p, --passphrase      specify passphrase
-p <passphrase>       use <passphrase> to extract data
-xf, --extractfile    select file name for extracted data
-xf <filename>       write the extracted data to <filename>
-f, --force           overwrite existing files
-q, --quiet           suppress information messages
-v, --verbose         display detailed information
```

options for the info command:

```
-p, --passphrase      specify passphrase
-p <passphrase>       use <passphrase> to get info about embedded data
```

To embed emb.txt in cvr.jpg: steghide embed -cf cvr.jpg -ef emb.txt

To extract embedded data from stg.jpg: steghide extract -sf stg.jpg

C:\Users\pauli\OneDrive\Documents\steghide(run on Windows)\steghide>steghide.exe embed -cf Monarch.bmp -ef Smessage.txt

```
C:\> Command Prompt

-sf <filename>          extract data from <filename>
-p, --passphrase        specify passphrase
  -p <passphrase>        use <passphrase> to extract data
-xf, --extractfile       select file name for extracted data
  -xf <filename>         write the extracted data to <filename>
-f, --force              overwrite existing files
-q, --quiet              suppress information messages
-v, --verbose            display detailed information

options for the info command:
-p, --passphrase        specify passphrase
  -p <passphrase>        use <passphrase> to get info about embedded data

To embed emb.txt in cvr.jpg: steghide embed -cf cvr.jpg -ef emb.txt
To extract embedded data from stg.jpg: steghide extract -sf stg.jpg

C:\Users\pauli\Downloads\M6 - Lab Files\M6 - Lab Files\steghide(run on Windows)\steghide>steghide.exe embed -cf Monarch.
bmp -ef Smessage.txt
Enter passphrase:
Re-Enter passphrase:
embedding "Smessage.txt" in "Monarch.bmp"... done

C:\Users\pauli\Downloads\M6 - Lab Files\M6 - Lab Files\steghide(run on Windows)\steghide>_
```