

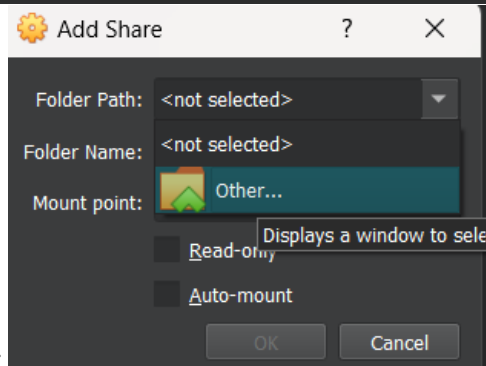
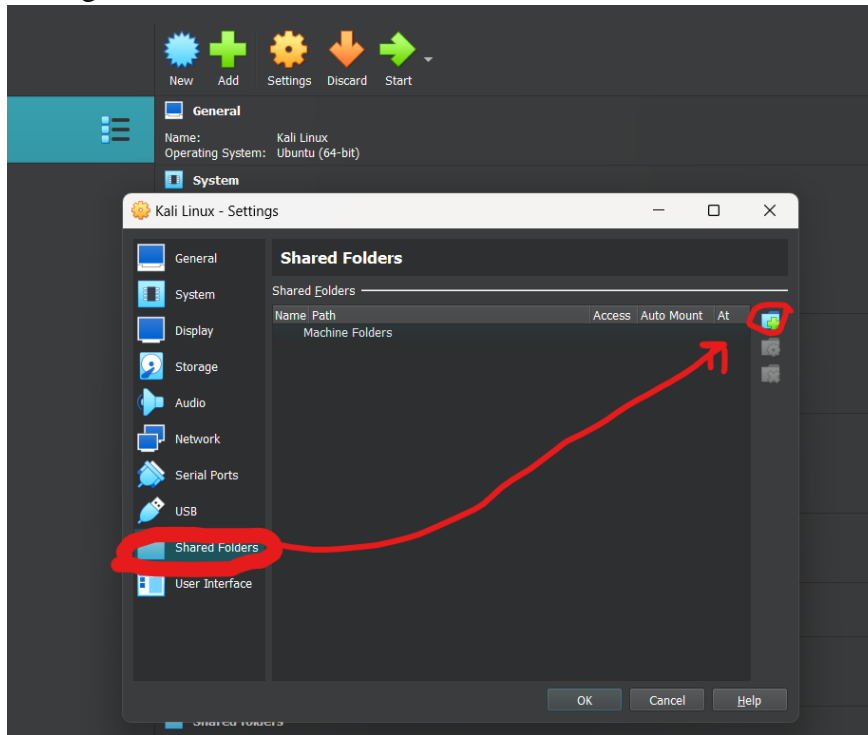
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Project 02: Image Forensic Lab

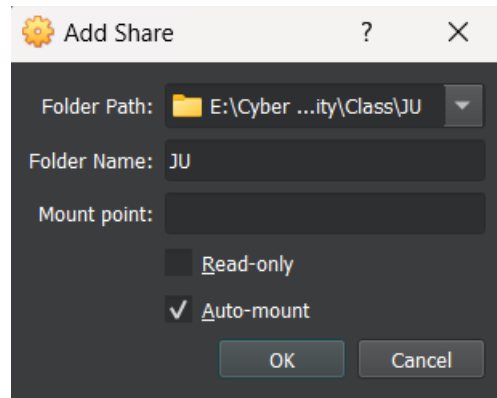
1. Setting → Shared Folders → add shared



2. Folder Path → other

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https://github.com/sharifulitju/Cyber_Security



3. Select folder:
4. Check is Add Share in Terminal :
 - a. `sudo -i` → for root folder
 - b. `cd /media/sf_JU` → sf stand for share folder → JU is folder name
 - c. check target file is available in Shared Folder

```
File Actions Edit View Help

(sharif@kali)-[~]
$ sudo -i
(root@kali)-[~]
# cd /media/sf_JU

(root@kali)-[/media/sf_JU]
# ls
ch9

(root@kali)-[/media/sf_JU]
# ls
ch9
```

- d. Type `testdisk ch9` → Process → Intel → Advanced → Boot → List → Files → Find red line and go to this line, then type C and again type C → deleted file will be copy in target (JU) folder

```
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
```

```
Disk ch9 - 134 MB / 128 MiB
```

```
Please select the partition table type, press Enter when done.
```

```
>[Intel  ] Intel/PC partition
[EFI GPT] EFI GPT partition map (Mac i386, some x86_64 ...)
[Humax  ] Humax partition table
[Mac    ] Apple partition map (legacy)
[None   ] Non partitioned media
[Sun    ] Sun Solaris partition
[XBox   ] XBox partition
[Return ] Return to disk selection
```

```
TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
```

```
Disk ch9 - 134 MB / 128 MiB
```

```
CHS 17 255 63 - sector size=512
```

```
[Analyse ] Analyse current partition structure and
>[Advanced] Filesystem Utils
[Geometry] Change disk geometry
[Options  ] Modify options
[MBR Code ] Write TestDisk MBR code to first sector
[Delete   ] Delete all data in the partition table
[Quit     ] Return to disk selection
```

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```
File Actions Edit View Help
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Disk ch9 - 134 MB / 128 MiB - CHS 17 255 63

Partition              Start      End      Size in sector
> 1 * FAT32             0 32 33    16 81 1    260096

[ Type ] > [ Boot ] [Undelete] [Image Creation] [ Quit ]
Boot sector recovery

TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
1 * FAT32             0 32 33    16 81 1    260096
Directory /
drwxr-xr-x    0    0    0 23-Jul-2013 03:21 Documentations
>drwxr-xr-x    0    0    0 23-Jul-2013 03:21 Files
drwxr-xr-x    0    0    0 23-Jul-2013 03:22 WebSites
```

```

TestDisk 7.2, Data Recovery Utility, February 2024
Christophe GRENIER <grenier@cgsecurity.org>
https://www.cgsecurity.org
 1 * FAT32                      0  32 33    16  81  1    260096
Directory /Files

>drwxr-xr-x    0    0          0 23-Jul-2013 03:20 .
drwxr-xr-x    0    0          0 23-Jul-2013 03:20 ..
-rwxr-xr-x    0    0    2341273 23-Jul-2013 03:20 revendications.odt
-rwxr-xr-x    0    0   1197056 23-Jul-2013 03:20 421_20080208011.doc
-rwxr-xr-x    0    0    142336 23-Jul-2013 03:20 Coker.doc
-rwxr-xr-x    0    0    63166 23-Jul-2013 03:20 DataSanitizationTutorial
-rwxr-xr-x    0    0    57344 23-Jul-2013 03:20 Creer_votre_association.

drwxr-xr-x    0    0          0 23-Jul-2013 03:20 .
drwxr-xr-x    0    0          0 23-Jul-2013 03:20 ..
>-rwxr-xr-x    0    0    2341273 23-Jul-2013 03:20 revendications.odt
-rwxr-xr-x    0    0   1197056 23-Jul-2013 03:20 421_20080208011.doc
-rwxr-xr-x    0    0    142336 23-Jul-2013 03:20 Coker.doc
-rwxr-xr-x    0    0    63166 23-Jul-2013 03:20 DataSanitizationTutorial
-rwxr-xr-x    0    0    57344 23-Jul-2013 03:20 Creer_votre_association

```

- e. Open target folder (JU)→a new folder “File” created → change the extension to ZIP (don’t do compress for create zip)→ then extract all the file
- f. Go to Picture location using cd and type exiftool picture_name

```

(root@kali)-[~]
# cd /media/sf_JU/Files/revendications/Pictures

(root@kali)-[/media/sf_JU/Files/revendications/Pictures]
# exiftool 10000000000000CC000000990038D2A62.jpg

```

g. Here show all details about picture:

```
GPS Latitude Ref      : North
GPS Longitude Ref     : East
GPS Altitude Ref      : Above Sea Level
GPS Time Stamp        : 07:46:50.85
GPS Img Direction Ref  : True North
GPS Img Direction      : 247.3508772
Compression           : JPEG (old-style)
Thumbnail Offset       : 902
Thumbnail Length       : 8207
Image Width           : 3264
Image Height          : 2448
Encoding Process       : Baseline DCT, Huffman coding
Bits Per Sample        : 8
Color Components       : 3
Y Cb Cr Sub Sampling  : YCbCr4:2:0 (2 2)
Aperture               : 2.4
Image Size            : 3264x2448
Megapixels             : 8.0
Scale Factor To 35 mm Equivalent: 8.2
Shutter Speed          : 1/20
Thumbnail Image        : (Binary data 8207 bytes, use -b option to
extract)
GPS Altitude           : 16.7 m Above Sea Level
GPS Latitude           : 47 deg 36' 16.15" N
GPS Longitude          : 7 deg 24' 52.48" E
Circle Of Confusion    : 0.004 mm
Field Of View          : 54.4 deg
Focal Length           : 4.3 mm (35 mm equivalent: 35.0 mm)
GPS Position           : 47 deg 36' 16.15" N, 7 deg 24' 52.48" E
Hyperfocal Distance    : 2.08 m
Light Value            : 6.2
```

h. For find picture location: goto: <https://www.gps-coordinates.net/> and type GPS Latitude and Longitude

DMS (degrees, minutes, seconds)*

Latitude ☒ N ☐ S ° ' "

Longitude ☒ E ☐ W ° ' "

[Get Address](#)

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