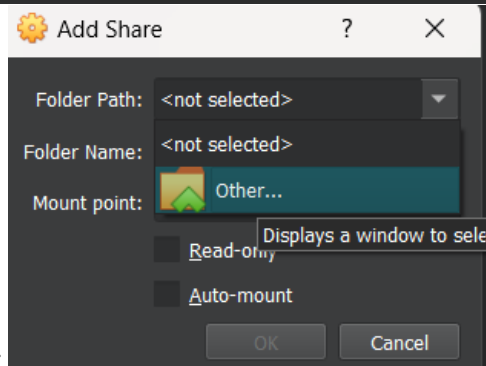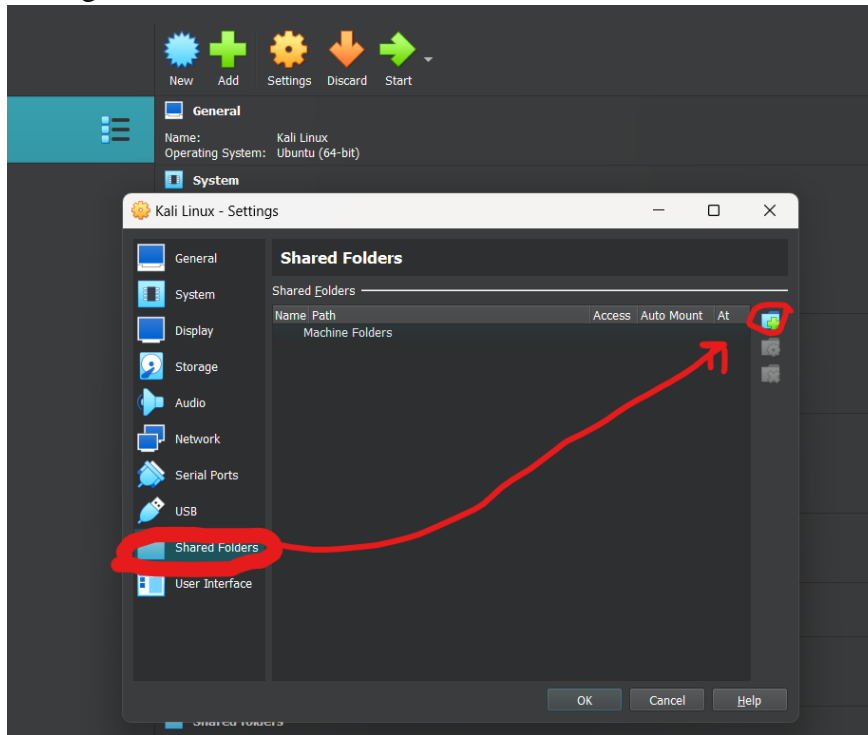Shariful Islam

ID: 2111252

21 Sep 2024

Project 02: **Image Forensic Lab**
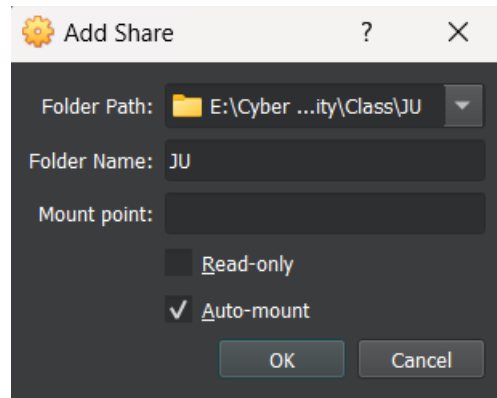
1. Setting→ Shared Folders → add shared

2. Folder Path → other

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

    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

File   Actions   Edit   View   Help

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

       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 1000000000000CC000000990038D2A62.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                             : 3264×2448
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 47 ° 36 ' 16.15 "

Longitude ● E ○ W 7 ° 24 ' 52.479 "

Get Address