Task: Scribbler
Operation: H.W.C.
Team: adrianb

This was a similar task to Misc200 Riverside from Boston Key Party 2015 CTF (write-up at [1]). The solution is to extract the mouse data from the .pcap file and track the mouse movements somehow. The easiest way is to create an image and display the mouse position at each step. With a simple program we can achieve this:

```
import struct
from PIL import Image
import dpkt
INIT_X, INIT_Y = 2000, 1000
def print_map(pcap, device):
   picture = Image.new("RGB", (4200, 2020), "white")
   pixels = picture.load()
   x, y = INIT_X, INIT_Y
   for ts, buf in pcap:
       device_id, = struct.unpack("b", buf[0x0B])
       if device_id != device:
           continue
       data = struct.unpack("bbbbbb", buf[-6:])
       status = data[0]
       x = x + data[2]
       y = y + data[3]
       if (status == 1):
           pixels[x, y] = (255, 0, 0, 0)
           pass
       else:
           pixels[x, y] = (255, 0, 0, 0)
       if (data[1] == 1):
           for i in range(-2, 2):
                for j in range(-2, 2):
                   pixels[x + i, y + j] = (0, 0, 0, 0)
   picture.save("track.png", "PNG")
if __name__ == "__main__":
   f = open("scribbler b0a037b8a6569915ce9e96d9b0134eeae40b2b9d.pcap", 'rb')
   pcap = dpkt.pcap.Reader(f)
   print_map(pcap, 5)
   f.close()
```

After we open the obtained file we can see the flag:

https:/g csc2016{bWzbXFYcCXsKMgWbEhhzhiiTqtFLKeVo}

ransom6qfmfghgb7.onion

Flag: csc2016{bWzbXFYcCXsKMgWbEhhzhiiTqtFLKeVo}

[1]

https://johnsupercool.github.io/posts/2015/mars/01/boston-key-party-2015-ctf-misc200-riverside/