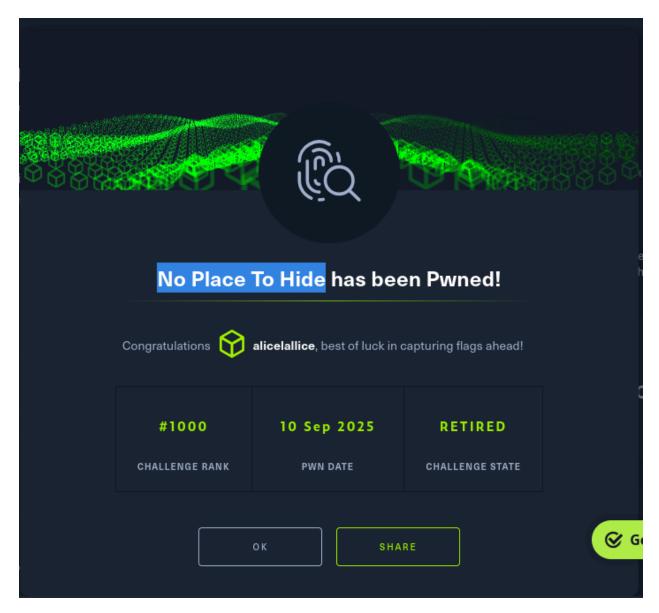
No Place To Hide





The challenge provided a **BMC cache file (** CacheOOOO.bin) which contained captured remote desktop session tiles. These tiles needed to be extracted and reassembled into the original desktop view to reveal the flag.

Tools Used

- Python 3
- Pillow (PIL) for image handling
- bmc-tools to parse bin and extract tile images
- Linux CLI utilities

Install dependencies:

```
pip install pillow
git clone https://github.com/ANSSI-FR/bmc-tools
```

Step 1: Inspecting the Data

First, we checked the type of file:

file Cache0000.bin

It showed as raw data, meaning we couldn't directly open it as an image.

Step 2: Extracting Tiles with bmc-tools

We used **bmc-tools** to process the .bin and export the graphics tiles:

python3 bmc-tools.py -s ~/Desktop/htb/Cache0000.bin -d stitched/ -o

This gave us **1162** .bmp **tile images** inside the stitched/ directory.

Step 3: Stitching the Tiles

Since the extracted tiles were small chunks of the screen, we needed to reassemble them into a larger image.

We wrote a Python script to test different **common screen widths** until the tiles aligned correctly:

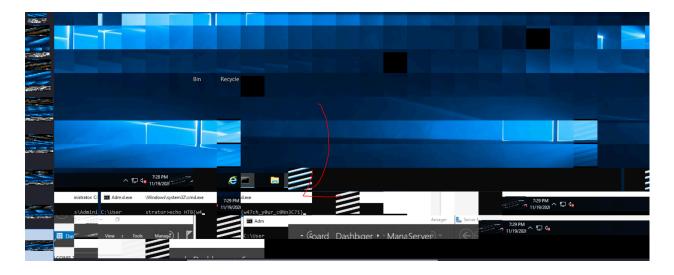
```
from PIL import Image
import glob, math
tiles = sorted(glob.glob("stitched/Cache0000.bin_*.bmp"))
n = len(tiles)
w, h = Image.open(tiles[0]).size
print(f"[+] Found {n} tiles of size {w}x{h}")
common_widths = [800,1024,1280,1366,1440,1600,1680,1920,2048,2560,2880,
3200,3440,3840]
for width in common_widths:
  cols = width // w
  if cols == 0:
    continue
  rows = math.ceil(n / cols)
  mosaic = Image.new("RGB", (cols * w, rows * h))
  for idx, tile in enumerate(tiles):
    img = Image.open(tile)
    x = (idx \% cols) * w
    y = (idx // cols) * h
    mosaic.paste(img, (x, y))
```

```
out_name = f"stitched_mosaic_{width}px.png"
mosaic.save(out_name)
print(f"[+] Saved {out_name}")
```

Step 4: Finding the Correct Alignment

After generating multiple stitched mosaics, the **1920px width** version aligned correctly, reconstructing a Windows desktop.

When zooming in, we found the flag clearly displayed.



final Flag

HTB{w47ch_y0ur_c0Nn3C71}



- .bin files from BMC can hold screen capture tiles.
- With bmc-tools, we can **extract tiles** from cache dumps.
- Stitching tiles at the **correct resolution** reconstructs the screen and may leak sensitive information.