

Honeypots

Code can be found here: <https://github.com/c2003-tamu/413>

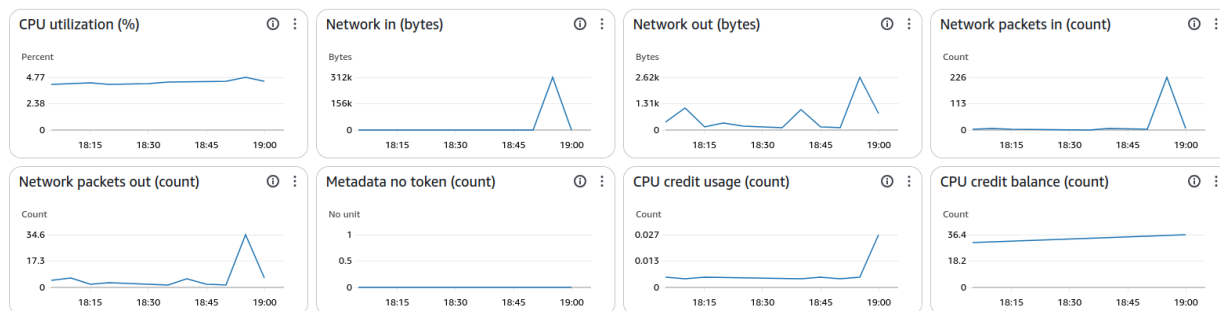
Environment Setup

- Provision EC2/other cloud instance with http and ssh traffic enabled
- SSH into instance
- Run command: `sudo apt update && sudo apt upgrade`
- Run command: `git clone https://github.com/c2003-tamu/413`
- Navigate to 413/honeypots directory
- Run command: `python3 -m venv venv`
- Run command: `source venv/bin/activate`
- Run command: `pip install -r requirements.txt`
- Run command: `sudo ~/413/honeypots/venv/bin/python bank.py`
- Bank application is now up, wait for ~1 hour

Outcome

I received a few requests from a couple of different IP addresses (seen below). It should be noted that the first 2 requests seen here were from my local machine to ensure that the application was accessible.

```
165.91.13.163 - [13/Feb/2025 17:52:42] "GET / HTTP/1.1" 404 -
165.91.13.163 - [13/Feb/2025 17:52:43] "GET /favicon.ico HTTP/1.1" 404 -
193.68.89.51 - [13/Feb/2025 18:20:41] "GET / HTTP/1.1" 404 -
164.52.24.188 - [13/Feb/2025 18:59:36] code 400, message Bad request version ("0: i !0AEE#k[d+X90X00-x13X02|x13X03|x13X01A,0X00X9fIeI"A+A/\X00X9eAS(x\00kA#A"x00gA")
164.52.24.188 - [13/Feb/2025 18:59:36] "x16X03X01X02X00X01X00X01Ux03X03"EaeI0X89nX8euX1aX01AE7X96L""X8eX93#e".B0Xx98 z$X83AXt006"0 u0:i_!0AEE#k[d+X90X00-x13X0
2X13X03X13X01A,0X00X9fIeI"A+A/\X00X9eAS(x\00kA#A"x00gA" 400 -
164.52.24.188 - [13/Feb/2025 18:59:58] "GET / HTTP/1.1" 404 -
193.68.89.10 - [13/Feb/2025 19:00:18] "GET / HTTP/1.1" 404 -
```



As can be seen above, the homepage (/ endpoint) was requested a few times by a few different IP addresses. What was really interesting was the request at 18:59:36, which appears to be trying to initiate a SSL/TLS handshake, which means that the client was trying to establish a HTTPS connection with the server. After that request, the same ip sends a plain http request that is handled correctly by the server.