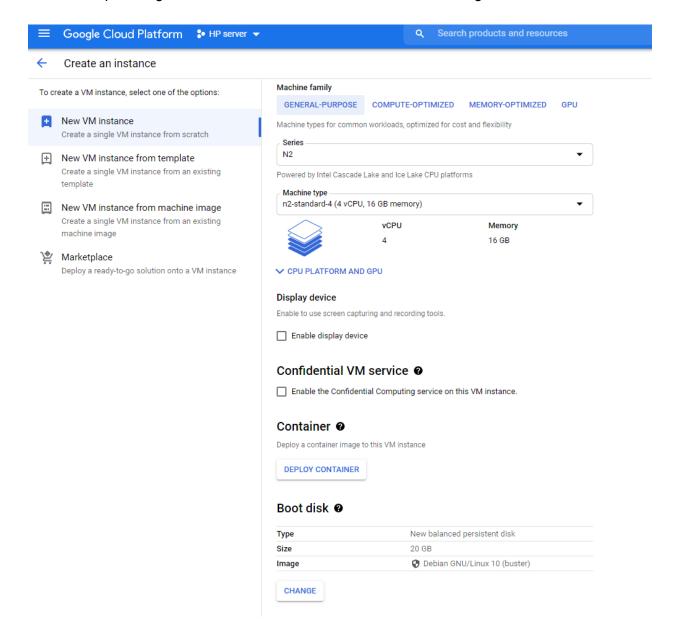
Honeypot with Google Cloud & T-pot

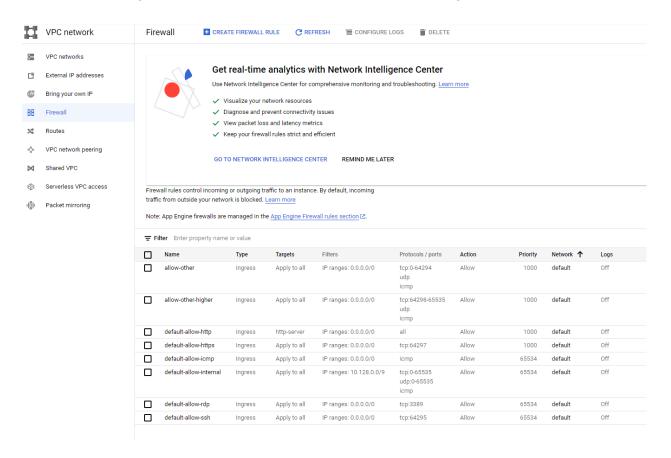
Create a VM on Google Cloud

- 1. Create a new project on Google Cloud.
- 2. Compute Engine -> VM Instances -> Create Instance -> Configure VM as below



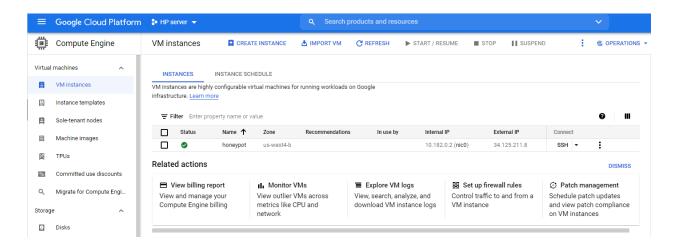
Create a vulnerable firewall

3. Press navigation menu -> VPC Network -> Firewall -> Configure firewall rules as below



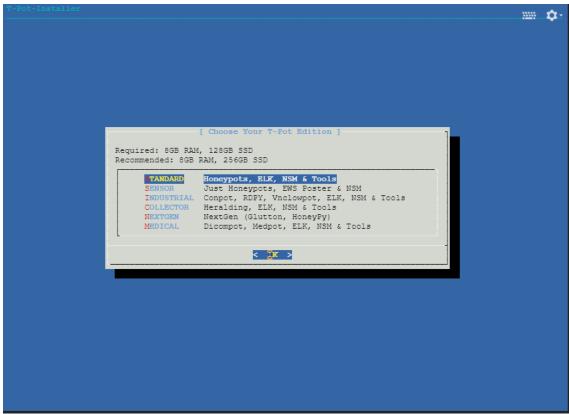
SSH to VM

4. Return to Compute Engine -> VM Instances -> Connect, SSH



Commands

- 5. sudo su #become root
- 6. apt-get update && apt-get upgrade #update and upgrade existing packages
- 7. apt-get install git -y #install git and say yes to all
- 8. git clone https://github.com/telekom-security/tpotce.git
- 9. cd tpotce #change directory to tpotce
- 10. ./install.sh --type=user #execute bash script as user



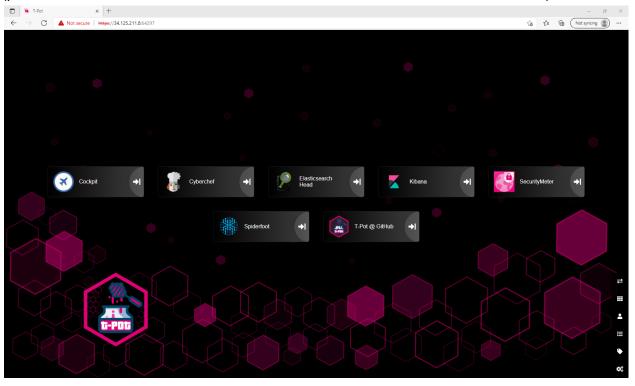
11. Select standard -> Choose username and password

Monitor

- 12. Return to Compute Engine -> VM Instances -> Copy your external ip address
- 13. Open up a browser -> Enter https://<external ip>:64297
- 14. Enter the username and password you have set for the user

Landing Page

(please note that it takes about 5 mins for Kibana and Elasticsearchhead to initialize)



Kibana after 5 mins

Attacks are happening already.

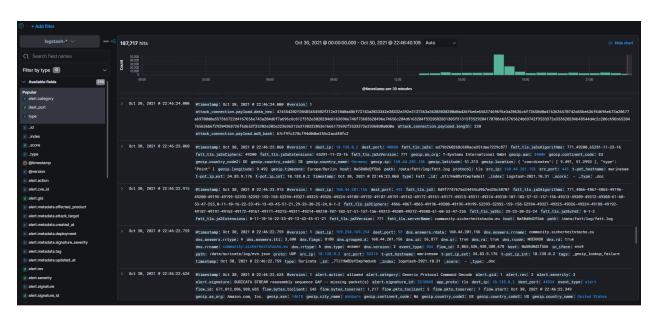


A couple hours later

Over 10,000 attacks were recorded.



Logs

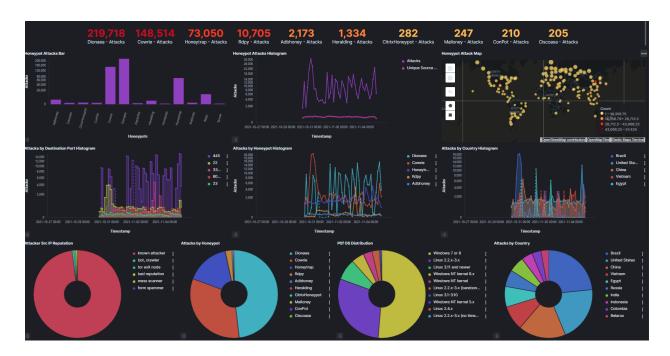


Thoughts

Considering the fact that I was attacked within the first five minutes of deployment, hackers do scan addresses for vulnerable ports on a daily basis, even minutely basis. Honeypot is a powerful tool for companies to learn what type of attacks hackers are performing these days. Some information will need to be taken with a grain of salt such as location and IP addresses.But most importantly, the logs generated from this can be used to do further analysis in preventing future attacks.

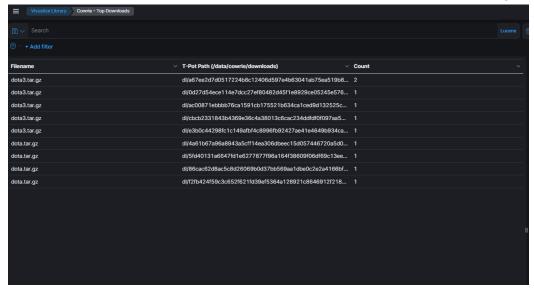
After Thoughts

I came back to see how many attacks were performed ten days later.

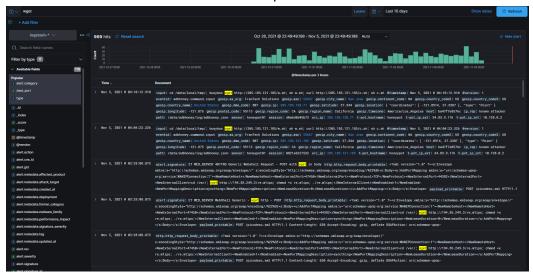


Here are some of the interesting things that I found:

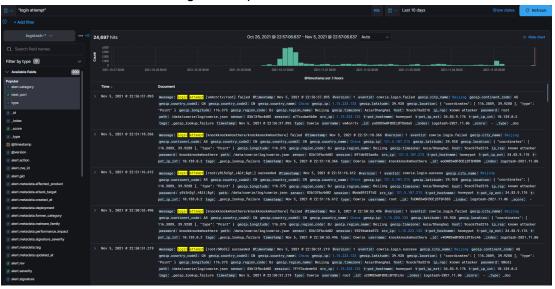
1. Someone downloaded different versions of malware named dota*.tar.gz



2. There have been over 900+ attempts to retrieve files via HTTP/HTTPS using wget



3. Over 24000+ failed login attempts



4. Username and password tagcloud along with top ten attack source/IP

