

HoneyPot Lab 2 – Cowrie Log Analysis (APRICOT 2020)

1. Access the running docker instance

- `cd /home/apnic/docker-cowrie`
- `sudo docker-compose exec cowrie bash`

note: you should see something like this `"root@2e2fdf7f9ele:/#"`

2. Go to the log directory

- `cd /opt/cowrie/var/log/cowrie`
- `ls -lah`

Note: by default the logs are in text and json format. Note `cowrie.log` and `cowrie.json`

3. We are going to use `jq` for viewing the json-formatted logs
`apt install jq`

4. Check the contents of `cowrie.json`
`jq . cowrie.json | less`

Note: observe the relevant fields & values to understand what is going to the honeypot

5. What are successful username/password combinations
`jq 'select(.eventid=="cowrie.login.success")' cowrie.json | less`

6. Follow a session – pick a **session id** (from the command above)
`jq 'select(.session == "insert_session_number_here")' cowrie.json | less`

Example (please select your own session number!)
`cat cowrie.json | jq 'select(.session == "f89e0dfcb40c")' | less`

Can you identify information related to:

- a. Source IP address (source of attack)
- b. Username and Password used to login 'successfully' in the honeypot
- d. Any other interesting information

7. What are the commands inputted by attackers?
`jq 'select(.eventid == "cowrie.command.input")' cowrie.json | less`

8. What are the files that have been successfully downloaded on the honeypot?

`jq 'select(.eventid == "cowrie.session.file_download")' cowrie.json | less`

9. Can we identify some indicators to search further?

Hint:

shasum:

url:

domain/ip_address hosting file:

source of attack:

10. Can we find out what the file is related to?

Hint: search the hash (shasum) on <https://www.virustotal.com>

11. When done with the exercise exit docker.

Appendix

1. jq manual <https://stedolan.github.io/jq/manual/>