Practical Queries for Identifying Malware Infrastructure

embee-research.ghost.io/shodan-censys-queries/

Matthew June 7, 2023

intel

An informal page for storing Censys/Shodan queries

An informal page for storing Censys/Shodan queries that have returned interesting results.

Including examples for -

> AsyncRAT, Solarmarker, Amadey, Quasar, Laplas, Sliver, Mythic, Qakbot + more

AsyncRAT - Common x509 Certificates

Hardcoded values in x509 certificates used for TLS communication.

```
services.tls.certificates.leaf_data.subject.common_name:"AsyncRAT Server" or services.tls.certificates.leaf_data.issuer.common_name:"AsyncRAT Server"
```
(Link)

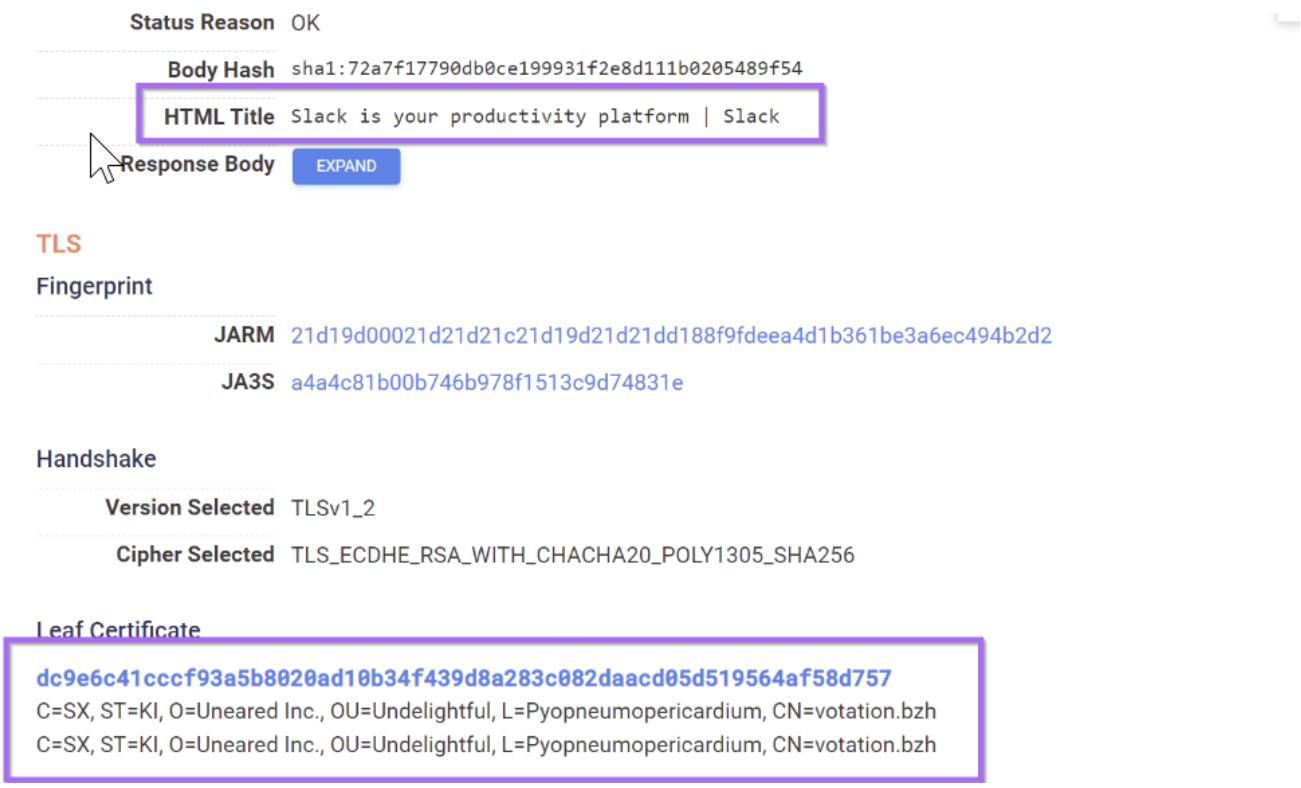
Commonalities between ssh host key and running ports. Typically only ports 22 and 80. SSH host key is the primary piece here.

```
services:(ssh.server_host_key.fingerprint_sha256 = "c655bae831ca57a857b26d76a7c98a56a65d00fdab7d234a64addf8166e3cd09" and port = 22) and services:(service_name:HTTP and port:80) and not services.port:993
```

Qakbot (Possibly Pikabot) - Masquerading as Slack

Qakbot C2's masquerading as a slack-related site. It is also possible that this is Pikabot which uses similar tactics.

```
not dns.reverse_dns.names:* and services.http.response.html_title:"Slack is your productivity platform | Slack"
```
(Link)



Cobalt Strike - Default Certificate Values

Very generic Cobalt strike indicators based on default certificate values. Likely very unsophisticated actors.

- `services.tls.certificates.leaf_data.issuer.common_name="Major Cobalt Strike"` (Link)
- `services.tls.certificates.leaf_data.issuer.organization="cobaltstrike"` (Link)
- `services.tls.certificates.leaf_data.issuer.organizational_unit="AdvancedPenTesting"` (Link)
- `services.tls.certificates.leaf_data.subject.province="Cyberspace" and services.tls.certificates.leaf_data.subject.country="Earth"` (Link)
- `ssl.cert.subject.cn:"Major Cobalt Strike"` (Link)
- `ssl.cert.issuer.cn:"Major Cobalt Strike"` (Link)

Remcos - Re-Used SSH Host Key and Usage of Hestia Control Panel

At least two of these servers are related to Remcos rat. There is a re-used ssh host key that is also related to Jupyter/Solarmarker.

```
services:(ssh.server_host_key.fingerprint_sha256 = "c655bae831ca57a857b26d76a7c98a56a65d00fdab7d234a64addf8166e3cd09" and port = 22) and  services:(http.response.html_title:hestia)
```
(Link)

Amadey Bot - Re-used Certificate Values

Re-used CN name in TLS certificates, as well as unique and re-used HTTP response body containing Russian swear words. Full Analysis Here.

- `services.tls.certificates.leaf_data.subject.common_name:"desas.digital"` (Link)
- `services.http.response.body_hash:"sha1:e084a66d16925abf43390c59d783f7a2fb49752d"`

Quasar RAT - Re-used Certificate Values

Re-used CN name used in TLS certificates. Full Analysis Here.

`services.tls.certificates.leaf_data.subject.common_name: "Quasar Server CA"` (Link)

Laplas Clipper - Re-used Certificate Values

Re-used CN name used in TLS certificates. Full Analysis here.

`services.tls.certificates.leaf_data.subject.common_name:"Laplas.app" or services.tls.certificates.leaf_data.issuer.common_name:"Laplas.app"` (Link)

Sliver C2 - Re-used Certificate Values

Re-used CN names in tls certificates. Twitter Post

`services:(tls.certificates.leaf_data.subject.common_name:multiplayer and tls.certificates.leaf_data.issuer.common_name:operators)` (Link)

Mythic C2 - Default HTML Title + Default Favicon

Default HTML Titles, favicon hash and CN name.

`(services.http.response.html_title="Mythic") or services.http.response.favicons.md5_hash="6be63470c32ef458926abb198356006c" or services.tls.certificates.leaf_data.subject.common_name="Mythic"` (Link)

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