

Maltego “Have I Been Pwned?”

Christian Heinrich

DEFCON China [Beta] (2018)

“Demo Labs” and “Recon Village”



Latest Slides

<https://www.slideshare.net/cmlh/maltego-have-i-been-pwned>

<https://speakerdeck.com/cmlh/maltego-have-i-been-pwned>

<https://github.com/cmlh/Maltego-haveibeenpwned/tree/master/Presentation>

Don't forget to look at each Slide Note.



\$ whoami

<https://www.linkedin.com/in/ChristianHeinrich>

Developer of Local and Remote Maltego Transforms for:

- @Facebook
- @Instagram
- @Gravatar
- @RecordedFuture
- @TAIA Global REDACT™
- @VirusTotal
- @FullContact

Python Modules from @CanariProject and @Paterva

<https://github.com/search?q=user%3Acmlh+Maltego>

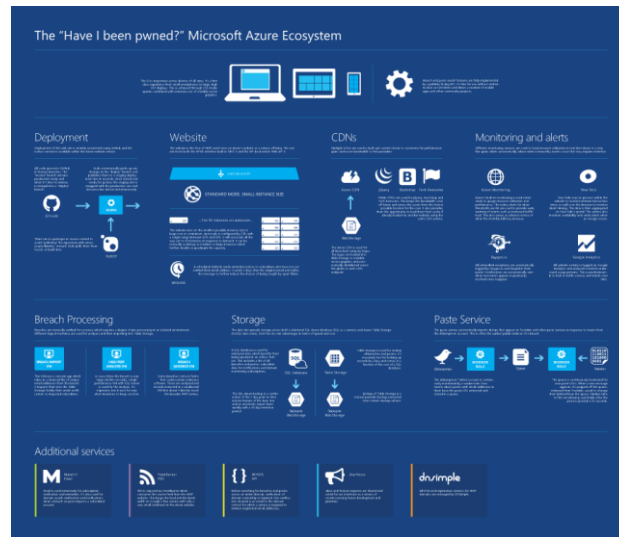


Agenda

1. Integration of the API [v1 and v2], including *"Pwned Passwords"*
2. Configuration of Maltego:
 - Import configuration file
 - *"Transform Hub"*
3. Case Studies
 - Penetration Tester
 - Incident Responder



“Have I Been Pwned?”



<https://haveibeenpwned.com/ecosystem.pdf>

@haveibeenpwned – API v1

Integrated Single API **v1** Endpoint.

Supports **all** API v1 HTTP Status Codes i.e. 200, 400 and 404.

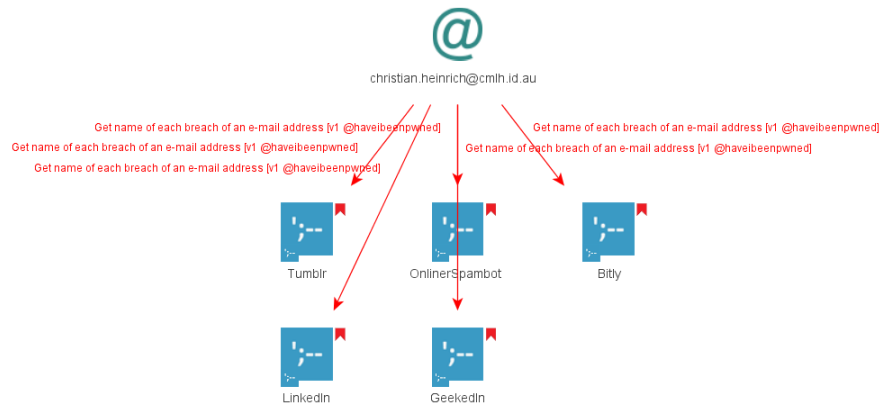


<https://haveibeenpwned.com/API/v1>

HTTP Status Codes

200	Ok — everything worked and there's a string array of pwned sites for the account
400	Bad request — the account does not comply with an acceptable format (i.e. it's an empty string)
404	Not found — the account could not be found and has therefore not been pwned

@haveibeenpwned – API v1



@haveibeenpwned – API v2

Integrated API **v2** Endpoints:

1. Getting all breaches for an account
2. Getting all pastes for an account
3. Getting all breached sites in the system
4. Getting a single breached site



<https://haveibeenpwned.com/API/v2>

@haveibeenpwned – API v2 – Rate Limit

Supports **all** APIv2 HTTP Status Codes i.e. 200, 400, 403, 404 and 429.

Rate Limit

- *All breaches for an account* i.e. e-mail address and alias.
- *All pastes for an e-mail address*



<https://haveibeenpwned.com/API/v2#RateLimiting>

HTTP Status Codes

200	Ok — everything worked and there's a string array of pwned sites for the account
400	Bad request — the account does not comply with an acceptable format (i.e. it's an empty string)
403	Forbidden — no user agent has been specified in the request
404	Not found — the account could not be found and has therefore not been pwned
429	Too many requests — the rate limit has been exceeded

<https://github.com/cmlh/Maltego-haveibeenpwned/wiki#rate-limit>

“Pwned Passwords” – API v1

Integrated Single API **v1** Endpoint.

Supports **all** API v1 HTTP Status Codes i.e. 200 and 404.



<https://github.com/cmlh/Maltego-haveibeenpwned/wiki#api-v1-1>

HTTP Status Codes

200
repository

Ok — the password was found in the Pwned Passwords

404
Passwords repository

Not found — the password was not found in the Pwned

“Pwned Passwords” – API v2

Integrated API **v2** Endpoints:

- ~~Searching by Password~~
- Searching by Range

Supports **all** API v1 HTTP Status Codes i.e. 200 and 404.

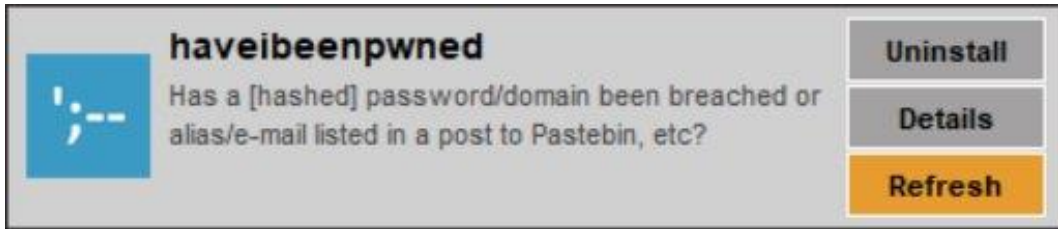


<https://haveibeenpwned.com/API/v2#SearchingPwnedPasswordsByPassword>

HTTP Status Codes

200	Ok — the password was found in the Pwned Passwords repository
404	Not found — the password was not found in the Pwned Passwords repository

Installation



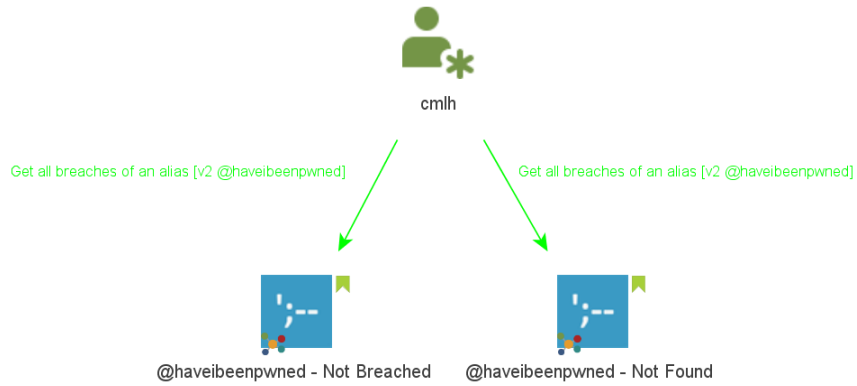
<https://github.com/cmlh/Maltego-haveibeenpwned/wiki>

@haveibeenpwned – Maltego Input Entities

1. *“Account”*
 1. `maltego.EmailAddress`
 2. `maltego.Alias`
2. *“Site”*
 1. `maltego.Domain`
 2. `Maltego.Phrase`

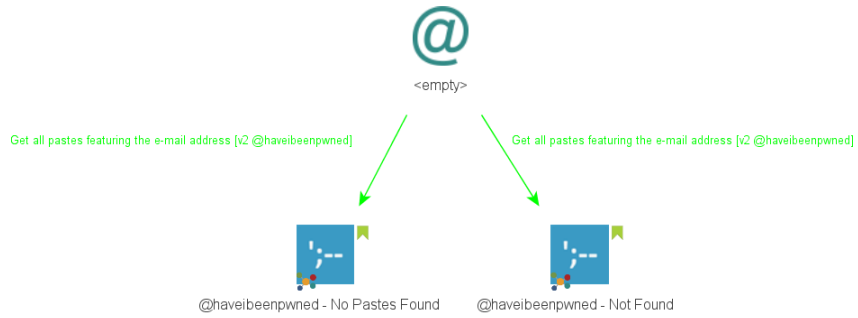


@haveibeenpwned – maltego .Alias Entity



Green Bookmark

@haveibeenpwned - Paste



Green Bookmark

@haveibeenpwned - Paste



christian.heinrich@cmlh.id.au

Get all pastes featuring the e-mail address [v2 @haveibeenpwned]

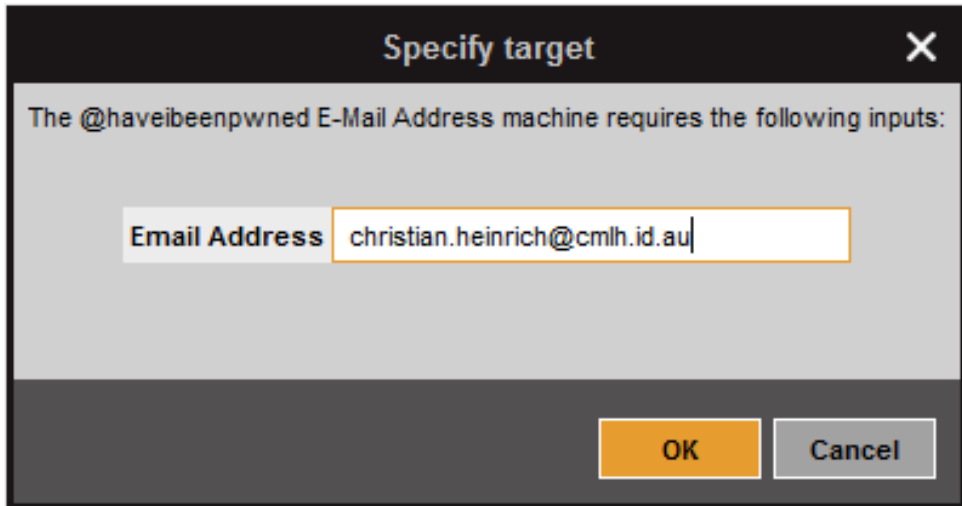


QuickLeak - QtPly6aE



Yellow Link

@haveibeenpwned – Maltego Machines



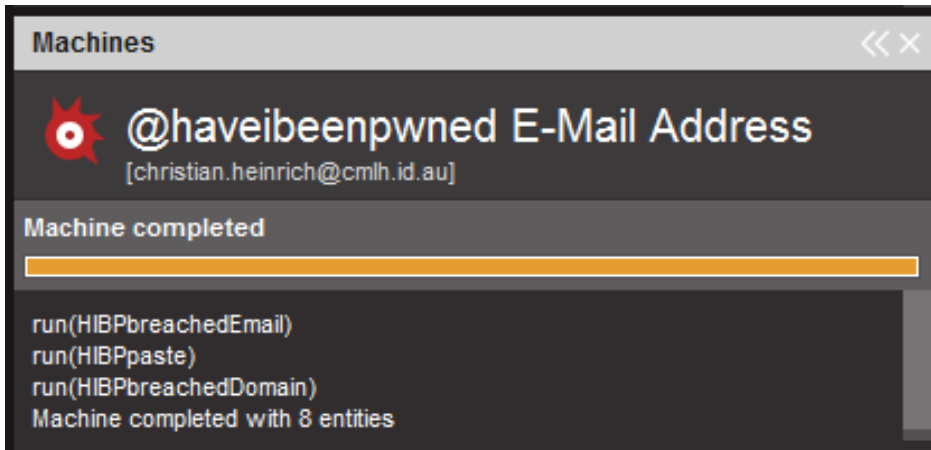
Specify target [X]

The @haveibeenpwned E-Mail Address machine requires the following inputs:

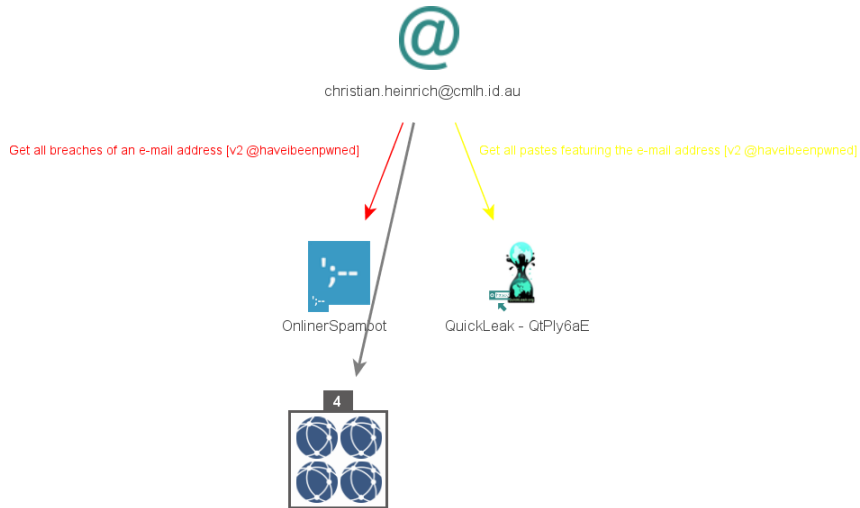
Email Address christian.heinrich@cmlh.id.au

OK Cancel

@haveibeenpwned – Maltego Machines



@haveibeenpwned – Maltego Machines

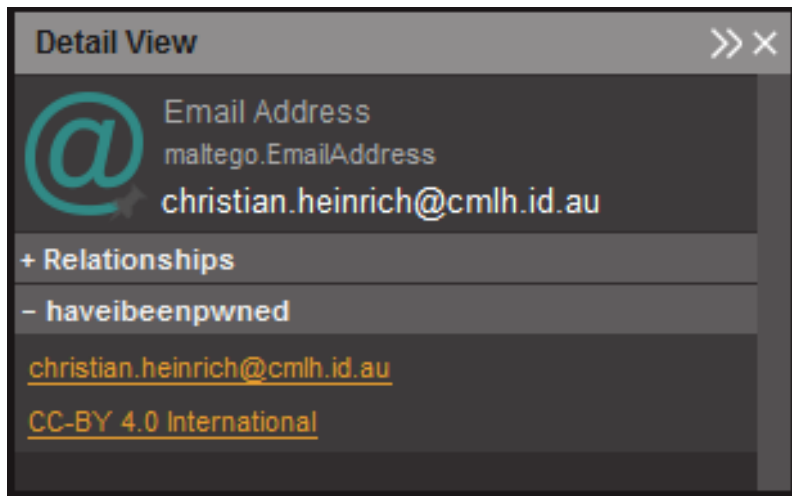


Collections

[illegible]

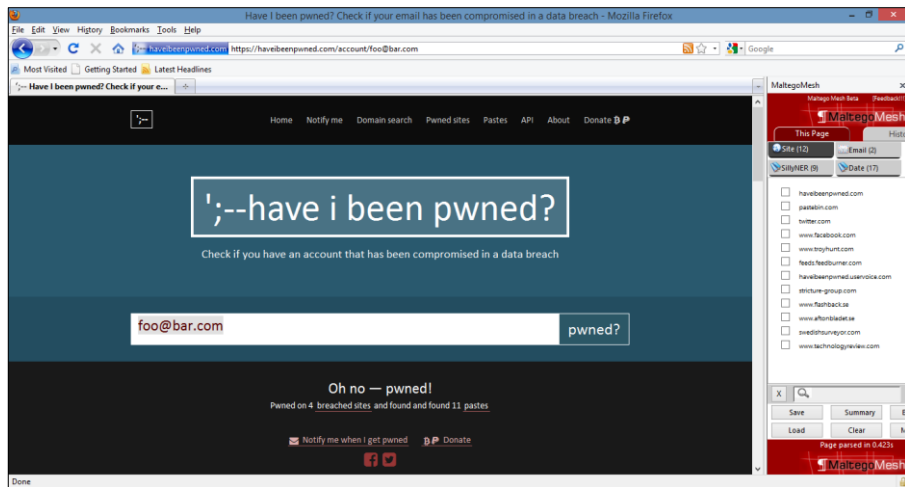
Domains and Breach Names Link colour changed to red

@haveibeenpwned – <DisplayInformation>



<https://haveibeenpwned.com/account/christian.heinrich@cmlh.id.au>

@haveibeenpwned – <DisplayInformation>



foo@bar.com from <https://haveibeenpwned.com/API/v2#BreachesForAccount>

<https://haveibeenpwned.com/account/foo@bar.com>

“Pwned Passwords” API v2 – Input Entities

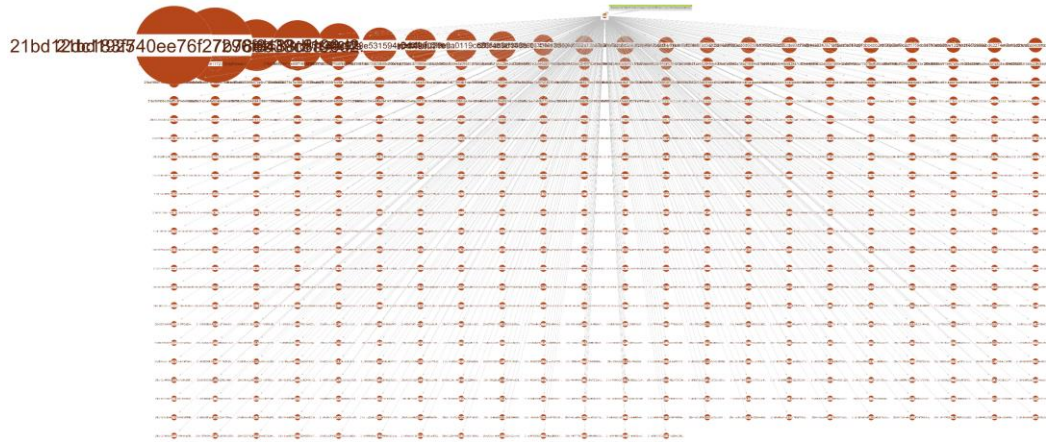
1. `haveibeenpwned.Password`

- *Inherits from* `maltego.Phrase`

2. `maltego.Hash`



“Pwned Passwords” API v2 – Range



Weighting

Thanks

@troyhunt of @haveibeenpwned

@SudhanshuC of the forked Maltego local transforms

~~@RoelofTemmingh~~, @AndrewMohawk and @paulRchds of @Paterva
@NoobieDog, @glennzw and @charlvdwalt of @SensePost
@dcuthbert



<http://maltego.blogspot.com.au/2017/12/time-to-say-goodbye.html>

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Follow me on Twitter at [@cmlh](https://twitter.com/cmlh)

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