MineMeld Value Proposition



Jesús Díaz

jdiaz@paloaltonetworks.com



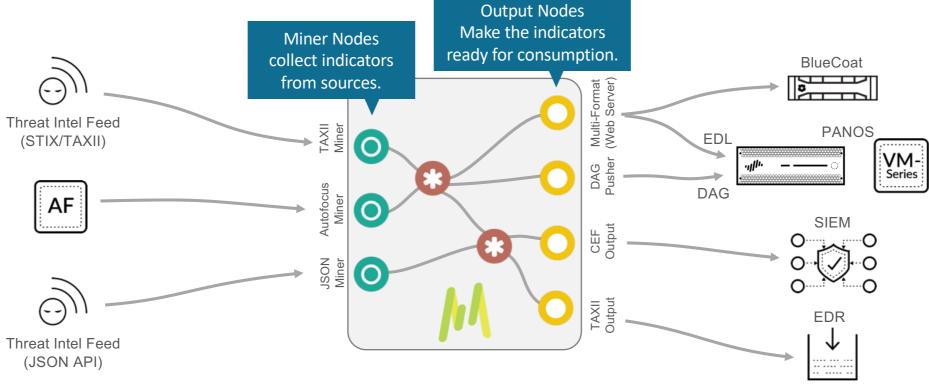


WHAT'S

MINEMELD?

What is MineMeld?

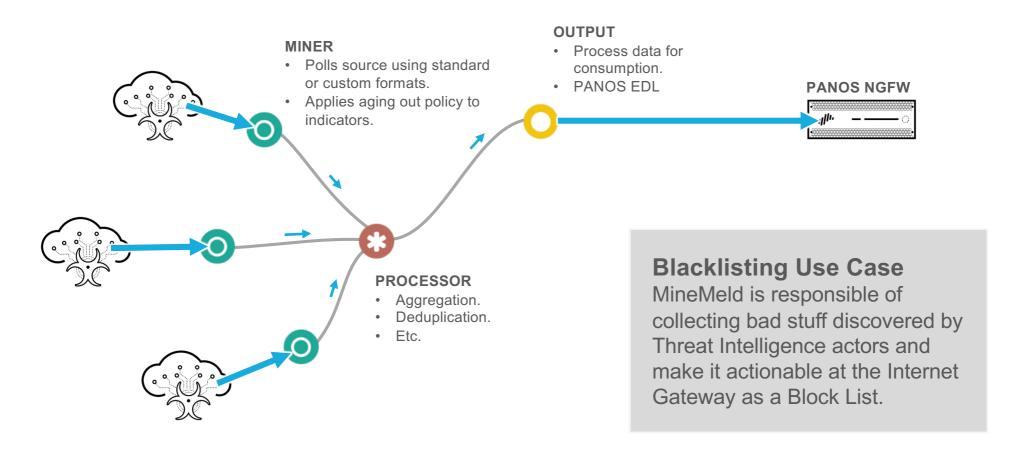




MineMeld is an extensible threat intelligence processing framework that collects, aggregates and filters indicators from a variety of sources making them available for consumption in our platform.

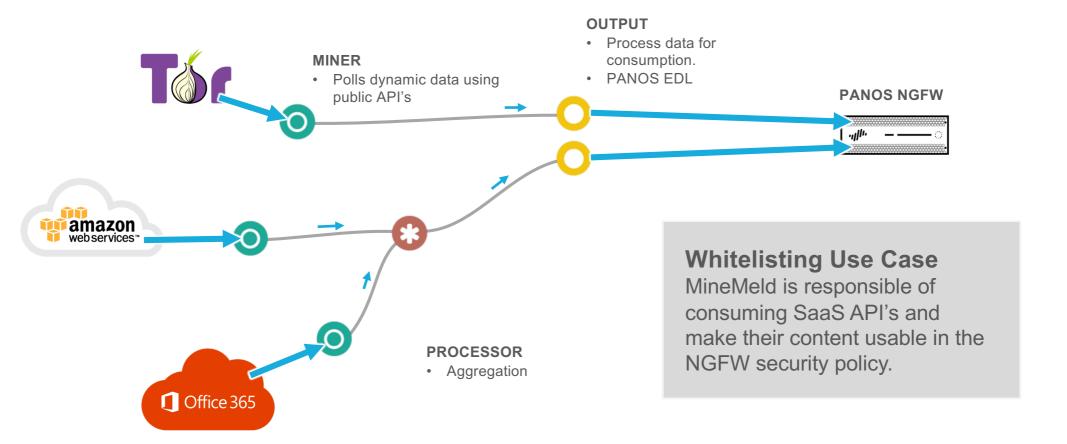


Working with Indicators of Compromise (IoC)



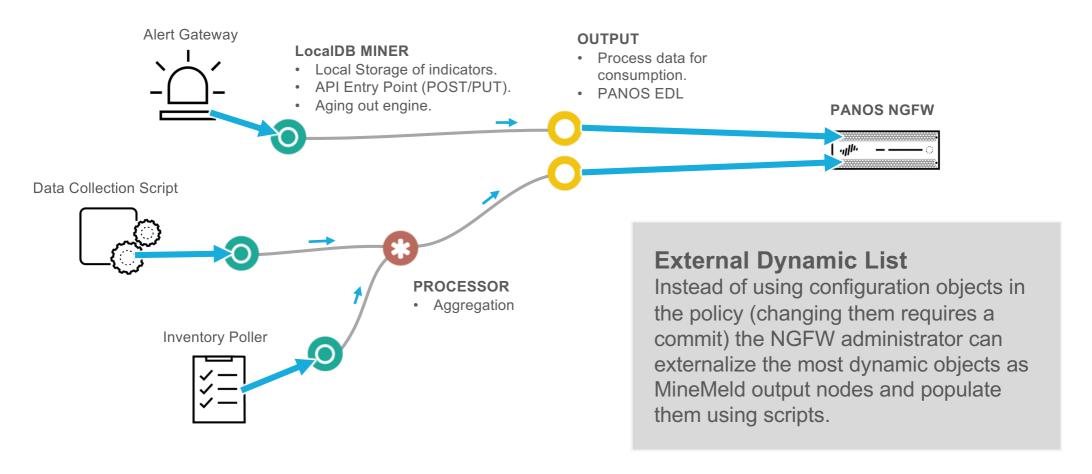


Working with Dynamic Data (IP's, Domains, URL's)



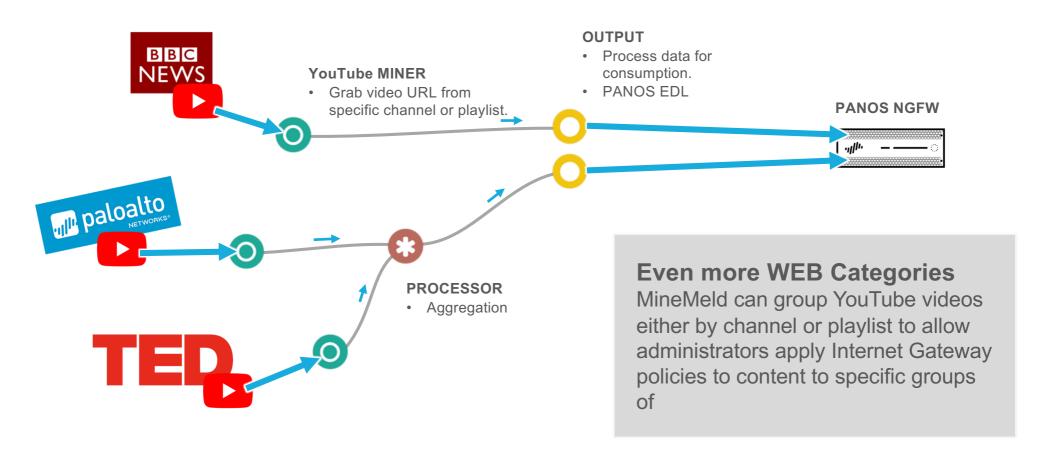


MineMeld as the "last mile" in a Incident Response Chain





Dynamic Custom URL Categories





MineMeld Facts







+400 containers hosted in AutoFocus



Miners for +170 different feeds.



More than 10 different output formats.



API to interfaces with PANOS HTTP Log Forwarding Feature



Packages ready to consume for Ubuntu, Docker, Azure and AWS



MINEMELD USE CASES

Part 1: MineMeld for end users





Actionable Third Party Threat Intelligence

MineMeld expands the value proposition of Palo Alto Networks into the the Threat Intelligence space like AutoFocus and other Palo Alto Networks platform components.

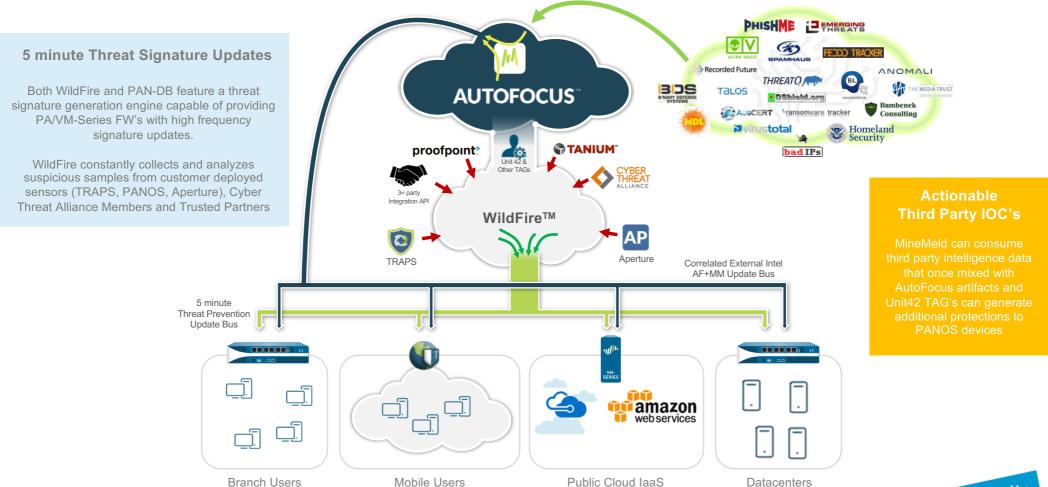
Third Party Enforcement

MineMeld can be integrated with security enforcement solutions by third parties.





Actionable Third Party Intelligence



Palo Alto Networks Platform: "Core" Threat Intelligence Ring

The Palo Alto Networks Platform

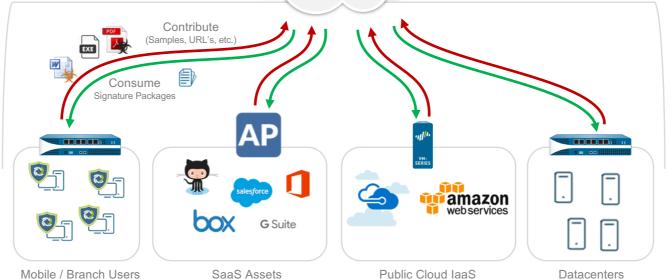
A highly integrated and automated set of components that protects enterprise users and assets no matter where they are:

Mobile Users, Branch Offices, Cloud SaaS,
Could laaS or Private Datacenters



The "Core" Threat Intel Ring

Suspicios samples (binaries, office documents, android packages, email URL's, etc.) can be "contributed" to WildFire by any platform element that act like "unknown threat sensors". These same elements can enforce protections by "consuming" automatically generated signature packages (virus patterns, malware URL's, malware file hashes, malware C2C patterns, DNS Domains, etc.)



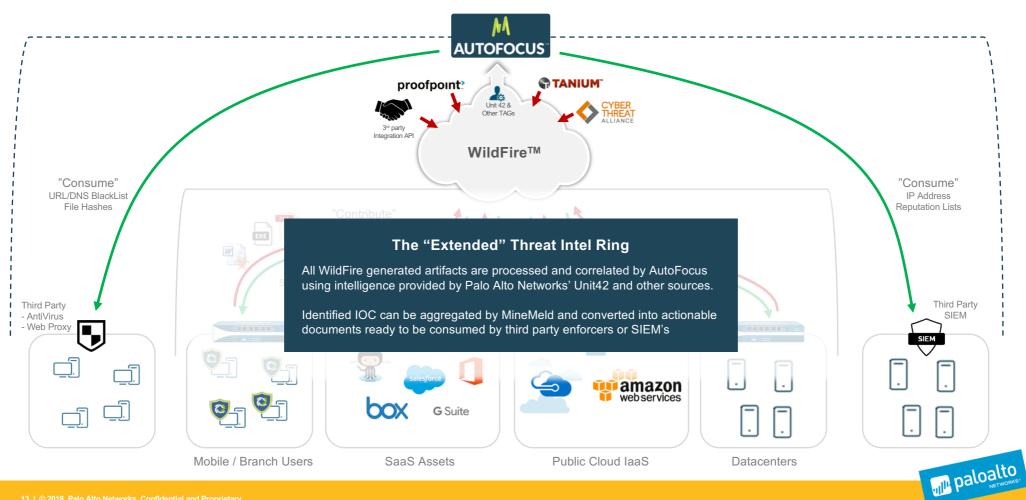


MANDATORY FOR TARGETED ATTACKS

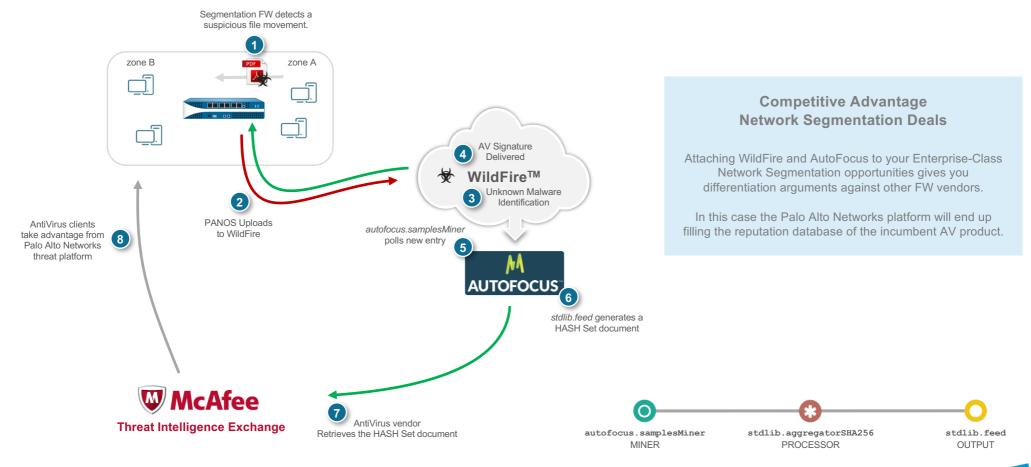
HIGH CAPACITY

AUTOMATED EFFICIENT SCALABLE

AutoFocus + MineMeld: "Extended" Threat Intelligence Ring

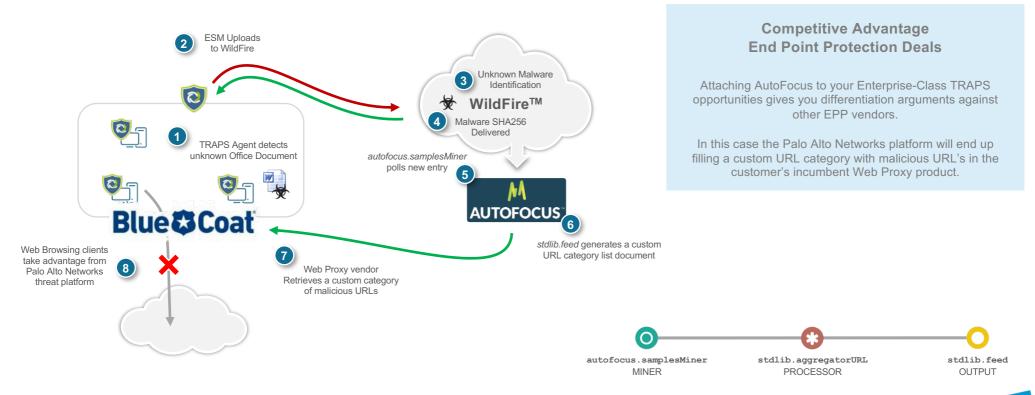


Extended Ring Use Case 1: Malware HASH sharing



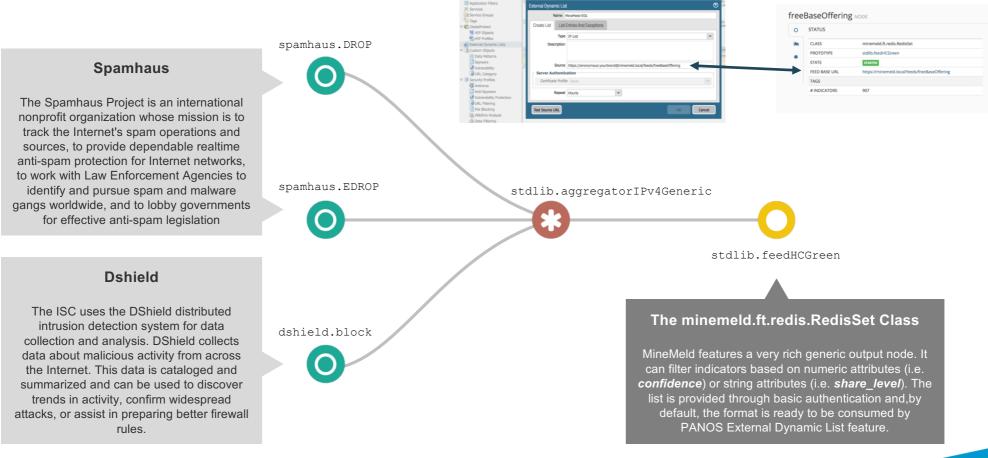


Extended Ring Use Case 2: Malware URL Enforcement

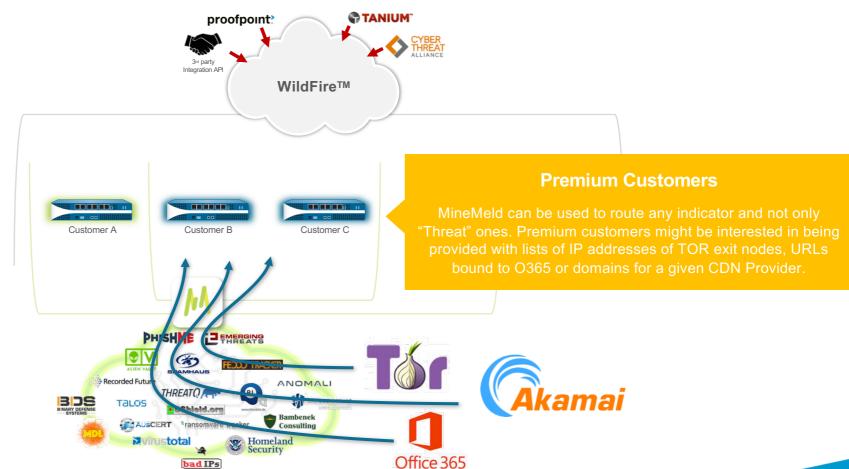




Basic value added feed example



Value added feeds for "premium customers"

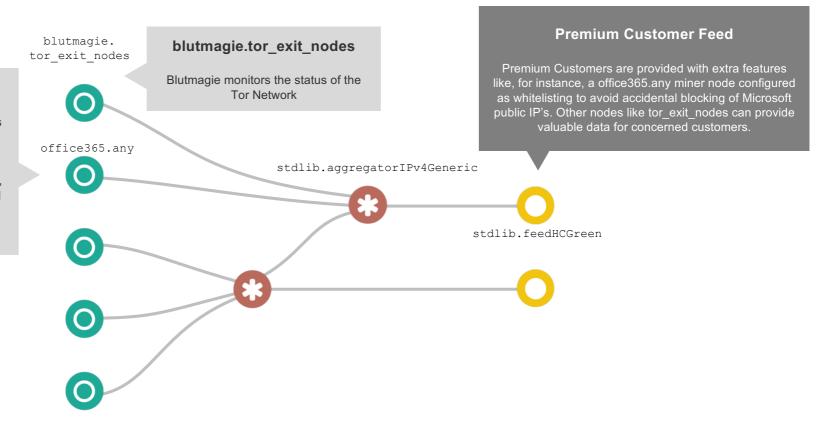




Premium feed example

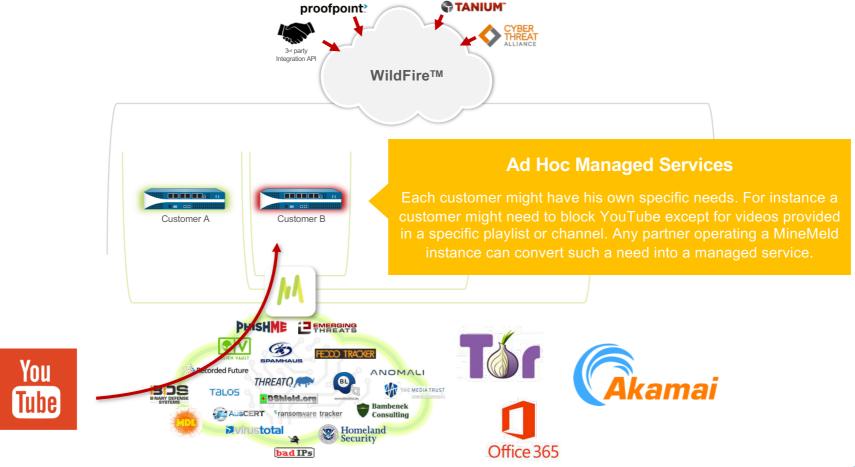
office365.any (whitelist)

This reference article lists every endpoints used by Office 365. If your organization restricts computers on your network from connecting to the Internet, this article lists the endpoints (FQDNs, Ports, URLs, IPv4, and IPv6 address ranges) that you should include in your outbound allow lists to ensure your computers can successfully use Office 365.





Ad Hoc Managed Services

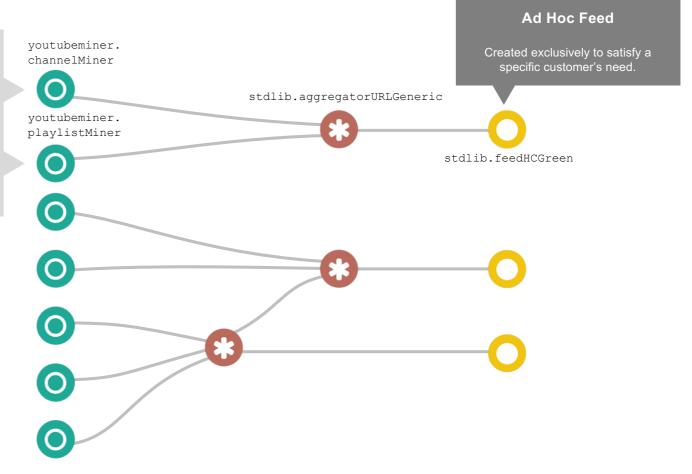




Ad Hoc Managed Service example

youtubeminer.*

YouTube nodes allow you grab list of videos either by channel-id or by playlist-id. A PANOS configuration would provide end customers with a way to block YouTube except for videos collected by these MineMeld nodes.



https://live.paloaltonetworks.com/t5/MineMeld-Articles/Filtering-YouTube-videos-to-only-approved-playlists/ta-p/164928



What if I need to mine CSV?

New prototype: dshield.block

url https://test.minemeld.com/csv confidence level to 100

fieldnames

- indicator
- countryregion
- city
- temperature

Ignore_regex pattern as "^(?!https)" (to discard all lines except the ones starting with "https")
Describe the source_name as uclm-csv-temperaturas

Customized Prototype

First New Prototype and then Clone Working Node

New -> sslabusech.ipblacklist

stdlib.feedGreenWithValue







What if I need to mine HTML?

```
New prototype: dshield.block
   confidence level to 100
 fieldnames
 fields:
                 country:
                                     regex: '(<code class="small">([^<]+)<\/code><\/td>)(<code class="small">([^<]+)<\/td>)(<code class="small">([^<]+)<\/td>)(<code class="small">([^<]+)<\/td>)(<code class="small">([^<]+)<\/td>)(<code class="small">([^<]+)<\/td>)(<code class="small">([^<]+)<\/td>)(<code class="
   class = small" > ([^<]+) < (code > )(< code class = small" > ([^<]+) < (code > )(< code class = small" > ([^<]+) < (code > )(< code class = small" > ([^<]+) < (code > )(< code class = small" > ([^<]+) < (code > < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-1) < (-
                                   transform: \4
                 region:
                                   regex: '(<code class="small">([^<]+)< /code>)(<code class="small">([^<]+)< /td>)(<code c
   class="small">([^<]+)<\/code><\/td>)(<code class="small">([^<]+)<\/code><\/td>)(
                                   transform: \6
                 city:
                                     class="small">([^<]+)<\\code><\\td>)(<code class="small">([^<]+)<\\code><\\td>)(<code><\\td>)(<code class="small">([^<]+)<\\code><\\td>)(<code cl
                                   transform: \8
                 temperature:
                                   regex: '(<code class="small">([^<]+)< /code>)(<code class="small">([^<]+)< /td>)(<code c
   class="small">([^<]+)<\/code><\/td>)(<code class="small">([^<]+)<\/code><\/td>)(
                                     transform: \10
 ignore regex: ^(?!)
indicator:
                  regex: '(<code class="small">([^<]+)<\/code><\/td>)(<code class="small">([^<]+)<\/td>)(<code class="small">([^<]+)<\/td>)(<code class="small">([^<]+
   class="small">([^<]+)<\\code><\\td>)(<code class="small">([^<]+)<\\code><\\td>)(<code><\\td>)(<code class="small">([^<]+)<\\code><\\td>)(<code cl
                 transform: \2
   Describe the source name as uclm-html-temperaturas
 url with https://test.minemeld.com/html
```

New -> dshield.block

stdlib.feedGreenWithValue





https://live.paloaltonetworks.com/t5/MineMeld-Articles/Using-MineMeld-to-extract-indicators-from-a-generic-API/ta-p/218757



What if I need to mine JSON?

New prototype: aws.AMAZON

No prefix

extractor: result

fields:

- country
- region
- city
- temperature indicator: url

url https://test.minemeld.com/json

Customized Prototype

First New Prototype and then Clone Working Node

New -> aws.AMAZON

stdlib.feedGreenWithValue





Parameters for the output feeds

https://ec2-34-254-194-33.eu-west-1.compute.amazonaws.com/feeds/testapi_json_feed

https://ec2-34-254-194-33.eu-west-1.compute.amazonaws.com/feeds/testapi_json_feed ?v=panosurl

https://ec2-34-254-194-33.eu-west-1.compute.amazonaws.com/feeds/testapi_json_feed ?v=json

https://live.paloaltonetworks.com/t5/Mir

