Decoder matching with hostname 234 views

Subscribe			
-----------	--	--	--



Usama Rajput

Nov 21, 2022, 1:16:18 AM

to Wazuh mailing list

Is there a way I can match decoder with the hostname because after pre-decoding I'm practically left with nothing in the log to match with...

```
Nov 16 22:20:13 BarracudaWAF src=192.135.91.52 spt=38948 dst=10.2.10.165 dpt=443
app=TLSv1.2 request=/modules/node/node.css in=563 out=474 requestMethod=GET htt
pStatus=200 host=www.fpsc.gov.pk query=rc4kj0 referer="-" rt=1668619213606 logT
ype=TR httpVersion=HTTP/1.1 timeTaken=5 serverTime=5
**Phase 1: Completed pre-decoding.
      full event: 'Nov 16 22:20:13 BarracudaWAF src=192.135.91.52 spt=38948 dst
=10.2.10.165 dpt=443 app=TLSv1.2 request=/modules/node/node.css in=563 out=474 r
equestMethod=GET httpStatus=200 host=www.fpsc.gov.pk query=rc4kj0 referer="-" rt
=1668619213606 logType=TR httpVersion=HTTP/1.1 timeTaken=5 serverTime=5'
      timestamp: 'Nov 16 22:20:13'
      hostname: 'BarracudaWAF'
      program_name: '(null)'
      uest=/modules/node/node.css in=563 out=474 requestMethod=GET httpStatus=200 host
=www.fpsc.gov.pk query=rc4kj0 referer="-" rt=1668619213606 logType=TR httpVersi
on=HTTP/1.1 timeTaken=5 serverTime=5'
**Phase 2: Completed decoding.
      No decoder matched.
```



Jonathan Martín Valera

Nov 21, 2022, 3:14:12 AM

to Wazuh mailing list

Hi.

No, it is not possible to link the pre-decoded fields with the decoded ones, but in this case, **it is not necessary** to generate the alerts you want. Let me explain with some examples.

Imagine that we want to generate a generic alert whenever we receive a log like that and the pre-decoded hostname has the value [BarracudaWAF]. For this, it would not be necessary to create any decoder, since with the pre-decoded values we can identify the log and generate the corresponding alert. An example of such a rule would be the following:

If we test the log in the wazuh-logtest tool, we can see how it would generate alert only with that rule:

```
Nov 16 22:20:13 BarracudaWAF src=192.135.91.52 spt=38948 dst=10.2.10.165 dpt=443 app=TLSv1.2 request=/modules/node/node.css in=563

**Phase 1: Completed pre-decoding.
full event: 'Nov 16 22:20:13 BarracudaWAF src=192.135.91.52 spt=38948 dst=10.2.10.165 dpt=443 app=TLSv1.2 request=/modules/node timestamp: 'Nov 16 22:20:13' hostname: 'BarracudaWAF'

**Phase 2: Completed decoding.
No decoder matched.

**Phase 3: Completed filtering rules.
id: '100150'
level: '3'
description: 'Test rule!'
groups: '['custom_rule']'
firedtimes: '1'
mail: 'False'

**Alert to be generated.
```

Now, imagine that you want a more specific condition in order to generate the alert, for example, the hostname must be BarracudaWAF and the httpStatus field must be 200:

If we test the log again:

```
Nov 16 22:20:13 BarracudaWAF src=192.135.91.52 spt=38948 dst=10.2.10.165 dpt=443 app=TLSv1.2 request=/modules/node/node.css in=563 **Phase 1: Completed pre-decoding.
```

```
full event: 'Nov 16 22:20:13 BarracudaWAF src=192.135.91.52 spt=38948 dst=10.2.10.165 dpt=443 app=TLSv1.2 request=/modules/node
    timestamp: 'Nov 16 22:20:13'
    hostname: 'BarracudaWAF'

**Phase 2: Completed decoding.
    No decoder matched.

**Phase 3: Completed filtering (rules).
    id: '100150'
    level: '3'
    description: 'Test rule'
    groups: '['custom_rule']'
    firedtimes: '1'
    mail: 'False'

**Alert to be generated.
```

Regarding the rule, we can now make use of the created decoder name and decoded fields to make our own regex:

If we test the log again:

```
**Phase 1: Completed pre-decoding.
full event: 'Nov 16 22:20:13 BarracudaWAF src=192.135.91.52 spt=38948 dst=10.2.10.165 dpt=443 app=TLSv1.2 request=/modules/node
```

```
timestamp: 'Nov 16 22:20:13'
    hostname: 'BarracudaWAF'
**Phase 2: Completed decoding.
    name: 'test'
    app: 'TLSv1.2'
    dpt: '443'
   dst: '10.2.10.165'
   host: 'www.fpsc.gov.pk'
    httpStatus: '200'
   httpVersion: 'HTTP/1.1'
    in: '563'
    logType: 'TR'
    out: '474'
    query: 'rc4kj0'
   referer: '"-"'
    request: '/modules/node.css'
    requestMethod: 'GET'
    rt: '1668619213606'
    serverTime: '5'
    spt: '38948'
    src: '192.135.91.52'
    timeTaken: '5'
**Phase 3: Completed filtering (rules).
    id: '100150'
   level: '3'
    description: 'Test rule!'
   groups: '['custom_rule']'
   firedtimes: '1'
    mail: 'False'
**Alert to be generated.
```

As you can see, there are many ways to achieve the expected result.

I hope it has helped you. Try it and let us know.

Best regards.