Report Alert Analyst Brute Force and SQL Injection

Author: Mochammad Arif Rizki

Date analyst alert : Sat Feb 25 06:50:26 WIB 2023

Summary The agent's hostname webpanel has WordPress installed

Pentest SSH Brute Force Attack

Server Hostname Agent : webpannel

• IP Agent: 192.168.31.165

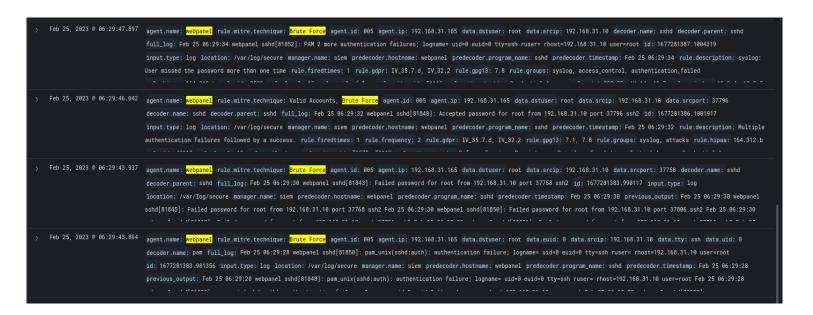
Tools use hydra for SSH Brute Force.

[arif@fedora ~]\$ hydra -l root -P passwd.txt 192.168.31.165 ssh

Threat Hunting Check Discovery:

• rule.id: 31103

id: 1677278005.965906
IP Attacker: 192.168.31.10



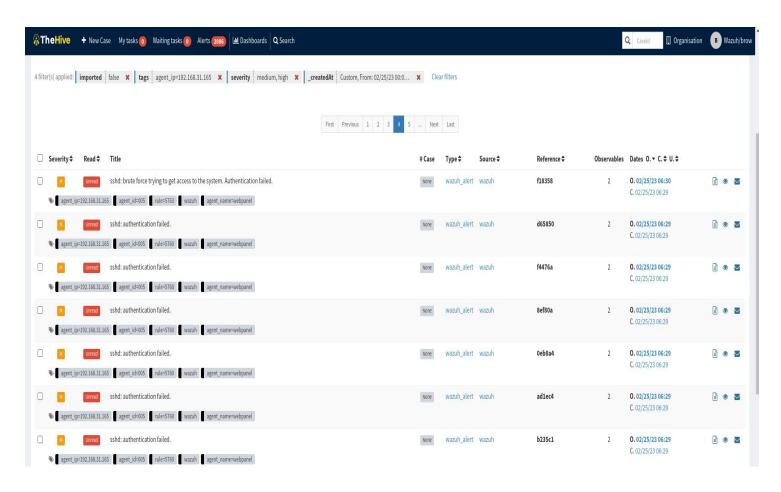
More Brute Force Alert Details

Table JSON	
Field	Value
l_index	wazuh-alerts-4.x-2023.02.24
(ii) @timestamp	Feb 25, 2023 @ 06:29:43.937
[agent.id	885
<pre>@ agent.ip</pre>	192.168.31.165
t agent.name	webpanel
🖟 data.dstuser	root
l data.srcip	192.168.31.10
1 data.srcport	37758
1 decoder.name	sshd
1 decoder.parent	sshd
full_log	Feb 25 06:29:30 webpanel sshd[81843]: Failed password for root from 192.168.31.10 port 37758 ssh2
(id	1677281383.996117
• input.type	log
• location	/var/log/secure
Manager.name	siem
	webpanel
<pre>predecoder.program_name</pre>	sshd
<pre>predecoder.timestamp</pre>	Feb 25 06:29:30
t previous_output	
	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2
	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2
	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2
t rule.description	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed.
t rule.description rule.firedtimes	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81859]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed.
<pre>[rule.description [rule.firedtimes rule.frequency</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed.
trule.description rule.firedtimes rule.frequency trule.gdpr	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2
<pre>rule.description rule.firedtimes rule.frequency t rule.groups</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures
<pre>t rule.description f rule.firedtimes f rule.frequency t rule.gdpr t rule.groups t rule.hipaa</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures
<pre>trule.description rule.firedtimes rule.frequency trule.gdpr trule.groups trule.hipaa trule.id</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81859]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763
<pre>t rule.description f rule.firedtimes f rule.frequency t rule.gdpr t rule.groups t rule.hipaa t rule.id f rule.level</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763
<pre>trule.description irule.firedtimes irule.frequency trule.gdpr trule.groups trule.hipaa trule.id irule.level orule.mail</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81859]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81885]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763 10 false
<pre>t rule.description f rule.firedtimes f rule.frequency t rule.gdpr t rule.groups t rule.hipsa t rule.id f rule.level rule.mail t rule.mitre.id</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763 10 false Till0
<pre>trule.description frule.firedtimes frule.frequency trule.gdpr trule.groups trule.hipaa trule.id frule.level frule.mitre.id trule.mitre.id</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81859]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37872 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763 10 false Till0 Credential Access
<pre>I rule.description I rule.firedtimes I rule.frequency I rule.gdpr I rule.groups I rule.hipaa I rule.id I rule.level I rule.mail I rule.mitre.id I rule.mitre.technique</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81856]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763 10 false Till0 Credential Access
<pre>trule.description frule.firedtimes frule.frequency trule.gdpr trule.gopr trule.hipaa trule.hipaa trule.id frule.level frule.mitre.id trule.mitre.tactic trule.mitre.technique trule.nist_800_53</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81856]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763 10 false Till0 Credential Access Brute Force SI.4, AU.14, AC.7
<pre>I rule.description I rule.firedtimes I rule.frequency I rule.gdpr I rule.gdpr I rule.hipsa I rule.id I rule.level I rule.mitre.id I rule.mitre.tactic I rule.mitre.technique I rule.nist_800_53 I rule.pci_dss</pre>	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2 Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37816 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37814 ssh2 Feb 25 06:29:30 webpanel sshd[81852]: Failed password for root from 192.168.31.10 port 37830 ssh2 Feb 25 06:29:30 webpanel sshd[81846]: Failed password for root from 192.168.31.10 port 37772 ssh2 sshd: brute force trying to get access to the system. Authentication failed. 1 8 IV_35.7.d, IV_32.2 syslog, sshd, authentication_failures 164.312.b 5763 10 false Till0 Credential Access Brute Force SI.4, AU.14, AC.7 11.4, 10.2.4, 10.2.5

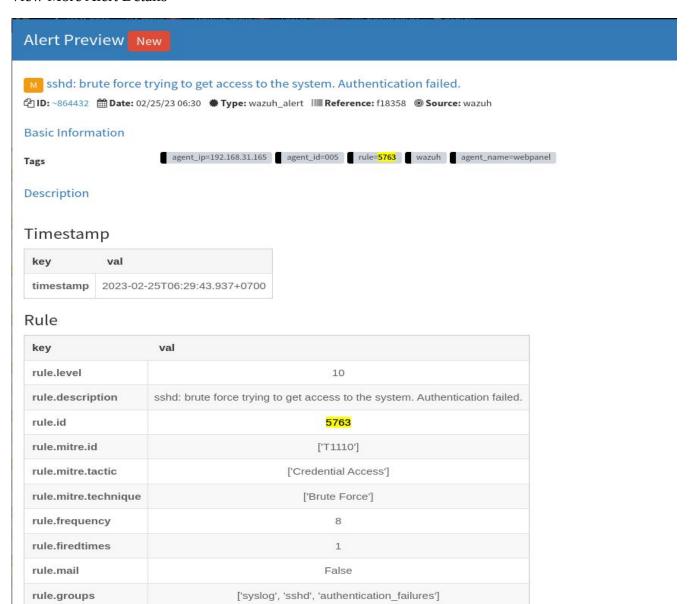
Dashboards Wazuh Traffic Brute Force with **agent webpanel**



Analyst Alert TheHive SSH Brute Force Throw from **Wazuh**



View More Alert Details



rule.gdpr	['IV_35.7.d', 'IV_32.2']	
rule.hipaa	['164.312.b']	
rule.nist_800_53	['SI.4', 'AU.14', 'AC.7']	
rule.pci_dss	[11.4', '10.2.4', '10.2.5']	
rule.tsc	['CC6.1', 'CC6.8', 'CC7.2', 'CC7.3']	

Agent

key	val
agent.id	005
agent.name	webpanel
agent.ip	192.168.31.165

Manager



ld



Previous_output

key	val
previous_output	Feb 25 06:29:30 webpanel sshd[81845]: Failed password for root from 192.168.31.10 port 37768 ssh2

Feb 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81848]: Failed password for root from 192.168.31.10 port 37796 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81851]: Failed password for root from 192.168.31.10 port 37806 ssh2 Feb 25 06:29:30 webpanel sshd[81849]: Failed password for root from 192.168.31.10 port 37772 ssh2 Feb 25 06:29:30 webpanel sshd[81849]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81849]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81849]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81849]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81849]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81849]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9 25 06:29:30 webpanel sshd[81850]: Failed password for root from 192.168.31.10 port 37804 ssh2 [9

Full_log

key	val	
full_log	Feb 25 06:29:30 webpanel sshd[81843]: Failed password for root from 192.168.31.10 port 37758 ssh2	

Predecoder

key	val
predecoder.program_name	sshd
predecoder.timestamp	Feb 25 06:29:30
predecoder.hostname	webpanel

Decoder

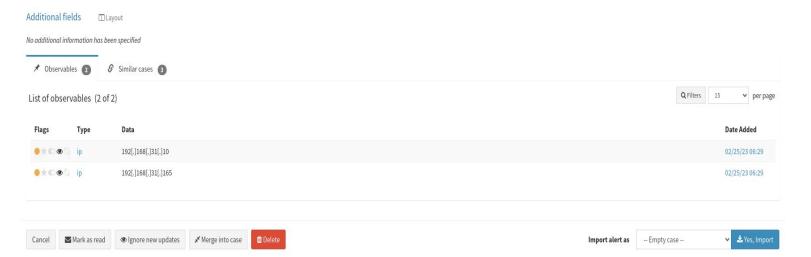
key	val
decoder.parent	sshd
decoder.name	sshd

Data

key	val
data.srcip	192.168.31.10
data.srcport	37758
data.dstuser	root

Location





Next Pentest SQL Injection

Here I set the domain agent using siptesting.local so it's easy for me to pentest

IP Agent: 192.168.31.165

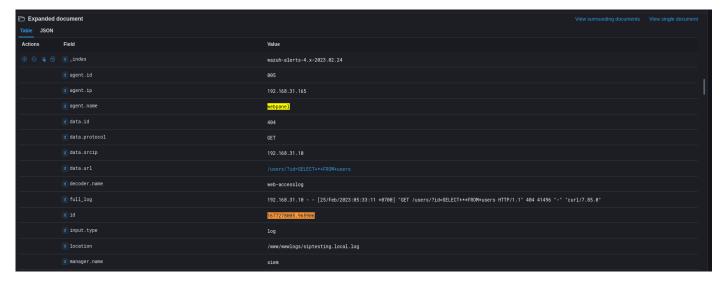
[arif@fedora ~]\$ curl -XGET "http://siptesting.local/users/?id=SELECT+*+FROM+users";

View the alerts Check discovery

rule.id: 31103

id: 1677278005.965906IP Attacker: 192.168.31.10



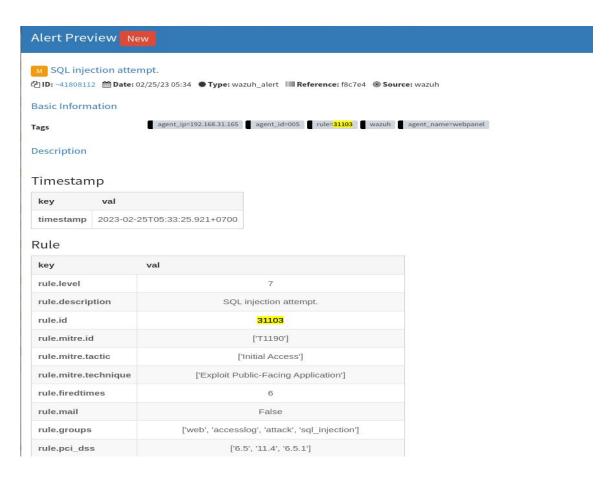




Analyst With TheHive

SQL Injection Alert Throw from Wazuh





rule.gdpr	['IV_35.7.d']
rule.nist_800_53	['SA.11', 'SI.4']
rule.tsc	['CC6.6', 'CC7.1', 'CC8.1', 'CC6.1', 'CC6.8', 'CC7.2', 'CC7.3']

Agent

key	val
agent.id	005
agent.name	webpanel
agent.ip	192.168.31.165

Manager

key	val
manager.name	siem

Id

key	val
id	1677278005.965906

Full_log

key	val	
full_log	192.168.31.10 [25/Feb/2023:05:33:11 +0700] "GET /users/?id=SELECT+*+FROM+users HTTP/1.1" 404 41496 "-" "curl/7.85.0"	

Decoder

key	val
decoder.name	web-accesslog

Data

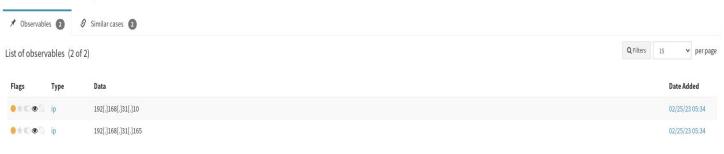


Location

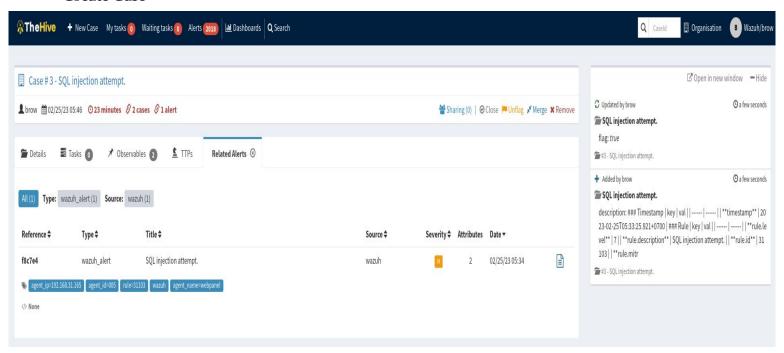


Additional fields Layout

No additional information has been specified



Create Case



MITRE ATT&CK Techniques (T1190) SQL Injection

Procedure Examples

ID	Name	Description	
G0007	APT28	APT28 has used a variety of public exploits, including CVE 2020-0688 and CVE 2020-17144, to gain execution on vulnerable Microsoft Exchange; they have also conducted SQL injection attacks against external websites	
S0032	gh0st RAT	gh0st RAT can inject malicious code into process created by the "Command_Create&Inject" function	
C0014	Operation Wocao	During Operation Wocao, threat actors injected code into a selected process, which in turn launches a command as a child process of the original	

Mitigations

ID	Mitigations	Description	
M1040	Behavior Prevention on Endpoint	Some endpoint security solutions can be configured to block some types of process injection based on common sequences of behavior that occur during the injection process. For example, on Windows 10, Attack Surface Reduction (ASR) rules may prevent Office applications from code injection	
M1026	Privileged Account Management	t Utilize Yama (ex: /proc/sys/kernel/yama/ptrace_scope) to mitigate ptrace based process injection by restricting the use of ptrace to privileged users only. Other mitigation controls involve the deployment of security kernel modules that provide advanced access control and process restrictions such as SELinux, grsecurity, and AppArmor	

Detection

ID	Data Source	Data Component	Detects
DS0022	File	File Metadata	File Metadata Monitor for contextual data about a file, which may include information such as name, the content (ex: signature, headers, or data/media), user/ower, permissions, etc.
		File Modification	Monitor for changes made to files that may inject code into processes in order to evade process-based defenses as well as possibly elevate privileges.
DS0011	Module	Module Module Load	Monitor DLL/PE file events, specifically creation of these binary files as well as the loading of DLLs into processes. Look for DLLs that are not recognized or not normally loaded into a process.
DS0009	Process	OS API Execution	Monitoring Windows API calls indicative of the various types of code injection may generate a significant amount of data and may not be directly useful for defense unless collected under specific circumstances for known bad sequences of calls, since benign use of API functions may be common and difficult to distinguish from malicious behavior. Windows API calls such as CreateRemoteThread, SuspendThread/SetThreadContext/ResumeThread, QueueUserAPC/NtQueueApcThread, and those that can be used to modify memory within another process, such as VirtualAllocEx/WriteProcessMemory, may be used for this technique. Monitoring for Linux specific calls such as the ptrace system call should not generate large amounts of data due to their specialized nature, and can be a very effective method to detect some of the common process injection methods
		Process Access	Process Access Monitor for processes being viewed that may inject code into processes in order to evade process-based defenses as well as possibly elevate privileges.
		Process Metadata	Process Metadata Monitor for process memory inconsistencies, such as checking memory ranges against a known copy of the legitimate module
		Process Modification	Monitor for changes made to processes that may inject code into processes in order to evade process-based defenses as well as possibly elevate privileges.

MITRE ATT&CK Techniques (T1110) SSH Brute Force

Procedure Examples

ID	Name	Description	
G0007	APT28	APT28 can perform brute force attacks to obtain credentials	
S0220	Chaos	Chaos conducts brute force attacks against SSH services to gain initial access.	
C0022	Operation Dream Job	During Operation Dream Job, Lazarus Group performed brute force attacks against administrator accounts	

Mitigations

	-11-15-11-11-11-11-11-11-11-11-11-11-11-		
ID	Mitigations	Description	
M1036	Account Use Policies	Set account lockout policies after a certain number of failed login attempts to prevent passwords from being guessed. Too strict a policy may create a denial of service condition and render environments ur usable, with all accounts used in the brute force being locked-out. Use conditional access policies to block logins from non-compliant devices or from outside defined organization IP ranges.	
M1032	Multi-factor Authentication	Use multi-factor authentication. Where possible, also enable multi-factor authentication on externally facing services.	
M1027	Password Policies	Refer to NIST guidelines when creating password policies.	
M1018	User Account Management	Proactively reset accounts that are known to be part of breached credentials either immediately, or after detecting bruteforce attempts.	

Detection

ID	Data Source	Data Source Data Component	Detects
DS0015	Application Log	Application Log Content	Monitor authentication logs for system and application login failures of Valid Accounts. If authentication failures are high, then there may be a brute force attempt to gain access to a system using legitimate credentials.
DS0017	Command	Command Execution	Monitor executed commands and arguments that may use brute force techniques to gain access to accounts when passwords are unknown or when password hashes are obtained.
DS0002	User Account	User Account Authentication	Monitor for many failed authentication attempts across various accounts that may result from password spraying attempts. It is difficult to detect when hashes are cracked, since this is generally done outside the scope of the target network.

To handle **SQL** and **Brute Force**, you can simply use the **Wazuh** or **TheHIve** tools. **Wazuh** config for attack responses for rules using **id 1677278005.965906**Config **TheHive WebHook** for notifications to the **SOC L1** Team **E-mail** to make it easier **IoCs** can use **IRIS** tools.

Because the title of the report is only alert analyst for **SOC L1**, here I am not explaining how to respond to the attack. This alert report is sent to **SOC L2** as Incident Responses for responses to **SQL** attacks, **Brute Force**.

Thank You Regards,

Mochammad Arif Rizki