

# **EJERCICIO REGEX**

En los ejercicios siguientes se ha utilizado la herramienta online <a href="https://regex101.com/">https://regex101.com/</a> para su resolución.

- --- <u>Ejercicio 1</u>.- Desarrolla la expresión regular que parsee el siguiente log:
  - 28-05-2017 20:32:17 | Tecnologías SIEM | imf | 1 | Expresiones Regulares

# ✓ RESOLUCIÓN:



# **LEVERTION REGULAR:**

- (\d{2}-\d{2}-\d{4})\s(\d{2}(:\d{2})\{2})\s|\s[\wi)]+\s(\w+)\s|\s(\w+)\s|\s(\d+)\s|(\w+)

- --- <u>Ejercicio 2</u>.- Desarrolla la expresión regular que parsee el siguiente log:
  - Fecha/28-05-2017 20:32:17 Tecnologías\_SIEM Universidad/imf 1 Expresiones\_Regulares

# ✓ RESOLUCIÓN:



### **EXPRESIÓN REGULAR:**

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- --- <u>Ejercicio 3</u>.- Desarrolla la expresión regular que parsee el siguiente log:
  - 28/05/2017 20:32:17 10.133.12.2 imf 1 - FA:70:BA:1D:07:DA Ejercicio3

#### ✓ RESOLUCION:



#### EXPRESIÓN REGULAR:

/(\d{2}[\/]\d{2}[\/]\d{4})\s(\d{2}:\d{2}:\d{2})\s(\d{1,3}(\.\d{1,3}){3})\s(\w+)\s(\d+)\s-\s-\s([A-Za-z0-9]{2}(:[A-Za-z0-9]{2})\(5))\s(\w+)/gm

--- <u>Ejercicio 4</u>.- Extraer del siguiente log los siguientes campos: timestamp,src.hostname, event.id, event.type, message, attacker.username,target.username, target.groupname:

<13>Jan 09 12:33:50 SRVDC0 AgentDevice=WindowsLog AgentLogFile=Security PluginVersion=7.2.4.86 Source=Microsoft-Windows-Security-Auditing Computer=SRVDC0.corp.teslab.ca OriginatingComputer=SRVDC0 User= Domain= EventID=4756 EventIDCode=4756 EventType=8 EventCategory=13826 RecordNumber=1244048131 TimeGenerated=1483983229 TimeWritten=1483983229 Level=0 Keywords=0 Task=0 Opcode=0 Message=A member was added to a securityenabled universal group. Subject: Security ID: CORP\bforeman Account Name: bforeman Account Domain: CORP Logon ID: 0x220f7a57 Member: Security ID: CORP\jsmith Account Name: CN=jsmith\, Dan,OU=Exchange Users, DC=corp, DC=testlab, DC=ca Group: Security ID: CORP\IT-TESTGRP Account Name: IT-TESTGRP Account Domain: CORP

AdditionalInformation: Privileges:

#### ✓ RESOLUCIÓN:

```
1 (<(\d+)>)(\w+)\s(\d{2})\s(\d{2}:\d{2}:\d{2})|(TimeGenerated=(\d+))|
                                                                                /gm
      (TimeWritten=(\d+))|(Source=(\w+)-(\w+)-(\w+)-(\w+))|(Computer=([a-zA-
      Z0-9\.]+))|(EventID=(\d+)).*?(EventType=(\d+))|(Message=(\w+))|
                                                                                       ð
      (Account\sName:\s(\w+))|(AccountName:\sCN=([a-z]+\)))|(Account\sName:
      \s(\w+))
TEST STRING
 2 SRVDC0 AgentDevice=WindowsLog AgentLogFile=Security
 3 PluginVersion=7.2.4.86
                                                             User= Domain=
                                  Originating
                                             EventCategory=13826
 6 RecordNumber=1244048131
 7 Level=0 Keywords=0 Task=0 Opcode=0
                                                member was added to a security-
 8 enabled universal group. Subject: Security ID: CORP\bforeman
 9 Account Domain: CORP Logon ID: 0x220f7a57 Member: Security ID: CORP\jsmith
           =jsmith\, Dan,OU=Exchange Users,DC=corp,DC=testlab,DC=ca Group: Security
 11 ID: CORP\IT-TESTGRP Account Name: IT-TESTGRP Account Domain: CORP
 12 AdditionalInformation: Privileges:
```

```
<13>Jan 89 12:33:58
Group d. 0-4
Group 2
                    Jan
Group 4 H-10
                   69
Group 5 11-19 12:33:50
                  Source-Microsoft-Windows-Security-Auditing
 Group 10 97-139
 Group II 104-II3 Microsoft
 Group 12 114-121 Windows
 Group 13 122-130 Security
 Group 14 131-139 Auditing
 Match 3 140-170 Computer=SRVDC0.corp.teslab.ca
 Group 15 140-170 Computer=SRVDC0.corp.teslab.ca
 Group 16 149-170 SRVDCB.corp.teslab.ca
 Match 4 182-197 Computer=SRVDC0
 Group 15 182-197 Computer=SRVDC8
 Group 16 191-197 SRVDC0
 Match 5 212-253 EventID=4756 EventIDCode=4756 EventType=8
 Group 18 220-224 4756
 Group 19 242-253 EventType=8
  Group 20 252-253 8
Match 6 298-322 TimeGenerated=1483983229
Group 6 298-322 TimeGenerated=1483983229
Group 7 312-322 1483983229
Match 7 323-345 TimeWritten=1483983229
Group 8 323-345 TimeWritten=1483983229
Group 9 335-345 1483983229
 Match 8 381-390 Message=A
 Group 21 381-398 Message=A
 Match 9
           484-506 Account Name: bforeman
 Group 23 484-506 Account Name: bforeman
  Group 24 498-506 bforeman
```

#### **LEVERTION REGULAR:**

 $\label{eq:local_continuous_con$ 

# --- Ejercicio 5.- Desarrollar la expresión regular que parsee del siguiente log de QRadar la cadena:

```
    application="NOMBRE_APLICACION"

            13:33.758 AAA0000-0 RT_FLOW - APPTRACK_SESSION_CLOSE [sampleuser@1111.1.1.1.1.11 reason="unset" source-address="192.0.2.0"
            sourceport="10" destination- address="192.0.2.255" destination-port="10" service-name="sample-service" application="sample-application" nestedapplication="None" nat-source-address="192.0.2.0" nat-source-port="10" nat-destination address="192.0.2.255" nat-destination-port="10" src-nat-rulename="None" dst-nat-rule-name
```

#### ✓ RESOLUCION:

```
!/ 1 (application="(\w+)[a-z-]+)"
                                                                                 gm 🗇
TEST STRING
 1 13:33.758 AAA0000-0 RT_FLOW - APPTRACK_SESSION_CLOSE
 2 [sampleuser@1111.1.1.1.1.11 reason="unset" source- address="192.0.2.0"
 3 sourceport="10" destination-address="192.0.2.255" destination-port="10" servicename="sample-service"
                                                   natsource-address="192.0.2.0" nat-source-
                              nested
  port="10" nat-destination address="192.0.2.255"
 4 nat-destination-port="10" src-nat-rulename="None" dst-nat-rule-name
            226-258 application="sample-application"
Match 1
Group 1
            226-257 application="sample-application
Group 2
            239-245 sample
Match 2
            265-283 application="None"
            265-282 application="None
Group 1
Group 2
            278-281
                        Non
```

#### **LEVANTE SIÓN REGULAR:**

/(application="(\w+)[a-z-]+)"/gm

--- <u>Ejercicio 6</u>.- Desarrollar la expresión regular que parsee del siguiente log de QRadar si el stream ha sido bloqueado o no (campo blocked)

```
LogStreamName: GuardDutyLogStream,Timestamp:
1537272809958, Message: {"version":
"0", "id": "095aab52-d1cd-2a72-a11a-afda5b22c1f6", "detailtype":
"GuardDuty Finding",
"source": "aws.guardduty", "account": "348426448370", "time": "2018-09-
18T12:13:17Z",
"region": "us-east-1", "resources": [], "detail": {"schemaVersion": "2.0",
"accountId":
"126223755640", "region": "us-east-1", "partition": "aws", "id": "24b2e6fc47df1e5186fc306f75130143", "arn": "arn:aws:guardduty:us-east
1:126223755640: detector/32b2e6f6421a70feee26a1bfc48e39f9/
finding/24b2e6fc47
df1e5186fc306f75130143", "type":
"Recon:EC2/PortProbeUnprotectedPort", "resource":
{"resourceType": "Instance", "instanceDetails": {"instanceId": "i-12b08fff",
"instanceType": "m3.2xlarge", "launchTime": "2014-10- 30T12:03:29Z",
"platform": null,
"productCodes": [], "iamInstanceProfile": null, "networkInterfaces": [],
"tags": [{"value":
"ahl-production-jira", "key": "Name"}], "instanceState": "running",
"availabilityZone": "us-
east- 1c", "imageId": "ami-00ab0168", "imageDescription": "null"}},
"service":
{"serviceName": "guardduty", "detectorId":
"32b2e6f6421a70feee26a1bfc48e39f9",
"action": {"actionType": "PORT_PROBE", "portProbeAction":
{"portProbeDetails":
[{"localPortDetails": {"port": 8080, "portName": "Unknown"},
"remotelpDetails":
{"country": {"countryName": "Country4"}, "city": {"cityName": ""},
"geoLocation": {"lon":
0.0, "lat": 0.0}, "organization": {"asnOrg": "testAsnOrg5", "org": "testAsnOrg5", "isp":
"testISP5", "asn": "29073"}, "ipAddressV4": "192.168.207.50"}},
{"localPortDetails":
{"port": 80, "portName": "HTTP"}, "remoteIpDetails": {"country":
{"countryName":
"Country4"}, "city": {"cityName": ""}, "geoLocation": {"lon": 0.0, "lat": 0.0},
"organization": {"asnOrg": "testAsnOrg5", "org": "testAsnOrg5", "isp":
"testISP5", "asn":
29073}, "ipAddressV4": "192.168.181.249"}}], "blocked": false}},
"resourceRole":
"TARGET", "additionalInfo": {"threatName": "Scanner", "threatListName":
"ProofPoint"}.
"eventFirstSeen": "2018-09-12T13:15:43Z", "eventLastSeen": "2018-09-
18T06:12:37Z",
"archived": false, "count": 21}, "severity": 2, "createdAt": "2018-09-
12T13:29:03.678Z",
"updatedAt": "2018- 09-18T06:24:14.845Z", "title": "Unprotected port on
EC2 instance i-
12b08fff is being probed.", "description": "EC2 instance has an
unprotected port which is
being probed by a known malicious host."}}.IngestionTime:
1537272809964.EventId:
34282329235502547611359803964175423399678929446014877696
```

# ✓ RESOLUCIÓN:

```
If ("blocked":\s(\w+))

TEST STRING

.0, "lat": 0.0), "organization": {"asnOrg": "testAsnOrg5", "org": "testAsnOrg5", "isp":
testISP5", "asn": "29073"}, "ipAddressV4": "192.168.207.50"}}, {"localPortDetails":
"port": 80, "portName": "HTTP"), "remoteIpDetails": {"country": {"countryName":
Country4"}, "city": {"cityName": ""}, "geolocation": {"lon": 0.0, "lat": 0.0},
organization": {"asnOrg": "testAsnOrg5", "org": "testAsnOrg5", "isp": "testISP5", "asn":
9073}, "ipAddressV4": "192.168.181.249"}}], "blocked": false
Group 1 1860-1876 "blocked": false
Group 2 1871-1876 false
Group 2 1871-1876 false
```

# **LEST EXPRESIÓN REGULAR:**

/("blocked":\s(\w+))/gm

- --- <u>Ejercicio 7</u>.- Desarrollar la expresión regular que parsee del siguiente log de QRadar el número de bytes de la conexión (campo bytes)
  - <158>Nov 16 2006 14:04:11: %PIX-0-000000: Teardown TCP connection 000000000 for SAMPLE:192.0.2.0/10 to inside:192.0.2.255/10 duration 0:00:01 bytes 462 TCP FINs

#### ✓ RESOLUCIÓN:

```
## I (bytes\s(\w+)\s)

TEST STRING

1 <158>Nov*16*2006*14:04:11:*%PIX-0-000000:*Teardown*TCP*connection*
2 0000000000 for SAMPLE:192.0.2.0/10*to*inside:192.0.2.255/10*duration*
3 0:00:01*bytes*462*TCP*FINs

Group 1 142-152 bytes*462*

Group 2 148-151 462
```

#### **EXPRESIÓN REGULAR:**

/(bytes\s(\w+)\s)/gm

--- <u>Ejercicio 8</u>.- Desarrollar la expresión regular que parsee del siguiente log de QRadar el host de destino de la conexión (campo DestinationHostname):

 <13>Mar 28 16:23:07 exampleHost AgentDevice=WindowsLog AgentLogFile=Microsoft-

Windows-Sysmon/Operational PluginVersion=7.2.8.145

Source=Microsoft-Windows-Sysmon

 $Computer = example Host \ Originating Computer = example Host$ 

User=SYSTEM Domain=NT

AUTHORITY EventID=3 EventIDCode=3 EventType=4 EventCategory=3 RecordNumber=425923967 TimeGenerated=1553790186

TimeWritten=1553790186

Level=Informational Keywords=0x80000000000000000 Task=SysmonTask-SYSMON\_NETWORK\_CONNECT Opcode=Info Message=Network connection detected:

RuleName: UtcTime: 2019- 03-28 16:22:46.893 ProcessGuid:

{8DCA47D3-4B62-5C96-

0000-0010BC423316} ProcessId: 6336 Image:

C:\Users\Administrator\AppData

Protocol: udp

Initiated: false SourceIsIpv6: false SourceIp: 192.168.0.100

SourceHostname:

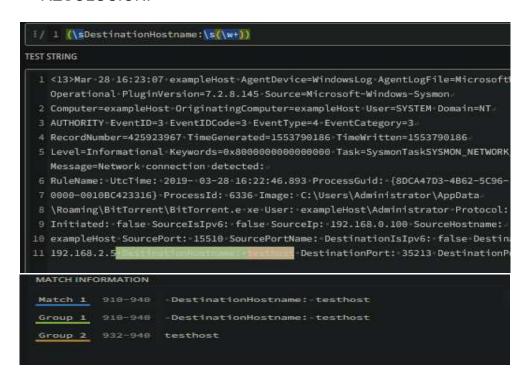
exampleHost SourcePort: 15510 SourcePortName: DestinationIsIpv6:

false DestinationIp:

192.168.2.5 DestinationHostname: testhost DestinationPort: 35213

DestinationPortName:

#### ✓ RESOLUCIÓN:



#### EXPRESIÓN REGULAR:

/(\sDestinationHostname:\s(\w+))/gm

- --- <u>Ejercicio 9</u>.- Desarrollar la expresión regular que parsee del siguiente log de QRadar la dirección IP 121.193.130.10
  - <182>Mar 15 14:30:35 192.168.10.224 "[11/Jan/2016:02:47:49 0500]" 257

192.168.0.136 lance.springwell - - OBSERVED "Malicious Sources/Malnets"

http://121.193.130.170:443/wp- ajax.php 200 TCP\_NC\_MISS GET application/x-

msdownload;%20charset=utf-8 http 121.193.130.10 443 /wp- ajax.php - - "Mozilla/4.0"

(compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 2.0.50727; .NET CLR

3.0.04506.648; .NET CLR 3.5.21022)" 47.188.76.90 12420 1639

# ✓ RESOLUCIÓN:



#### **EXPRESIÓN REGULAR:**

/(\shttp\s(\d{1,3}(\.\d{1,3}){3}))/