



Security Use-Case User Account Compromise



1200+ customers in 45+ countries

Gartner recognized in NPMD & NDR



SIEMENS



SEGA®



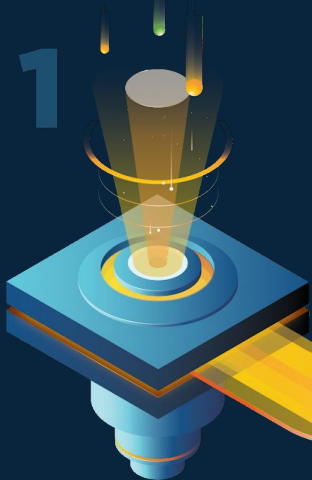
Gartner
peerinsights™

4.9 / 5

Gather

Flowmon collects network application telemetry data from a variety of sources including your existing network devices and our own sensors.

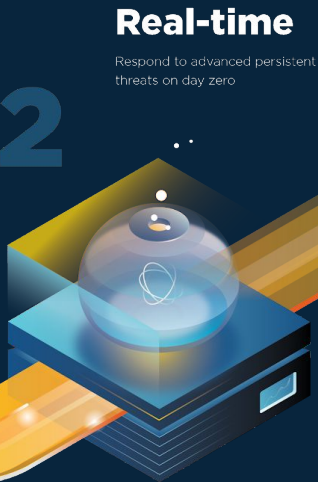
1



Analyze

The data is then processed using machine learning, heuristics and advanced algorithms.

2



Real-time

Respond to advanced persistent threats on day zero

Understand

Relevant information is extracted and visualized on the dashboard.

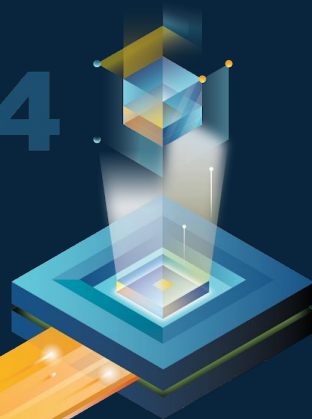
3



Act

The user sees the big picture. The most important and relevant information is clear and noise-free.

4



16x

Up to 16x faster time to resolution reported

Con>Last 24 hours (generic time span)

All i>Last 24 hours (generic time span)

Structure of Overall Traffic Last 24 hours (generic time span)

Structure of Overall Traffic Last 24 hours (generic time span)



Connected flow sources:
1 of 1

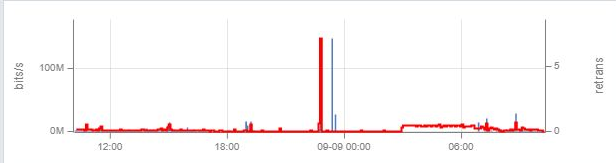
2020-09-08 10:00 - 2020-09-09 10:00

Excellent

[Hide details](#)

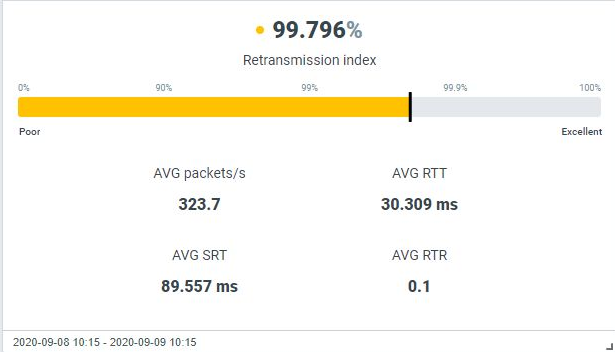
ERP ● 99.812%
Intranet ● 97.773%

2020-09-08 10:15 - 2020-09-09 10:15

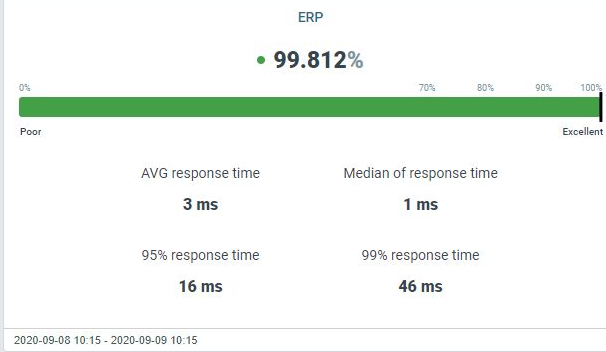


Source	Maximal bits/s	Bits per second	Bytes	AVG RTR
1 127.0.0.1 (localhost)	148.0 M	2.0 M	20.29 GiB	0.1
Total	148.0 M	2.0 M	20.29 G...	0.1

2020-09-08 10:15 - 2020-09-09 10:15



Application performance overview Last 24 hours (generic time span)



Security status Last 24 hours (generic time span)

Critical priority events: 5

Security issues

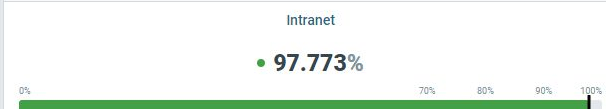
[Hide details](#)

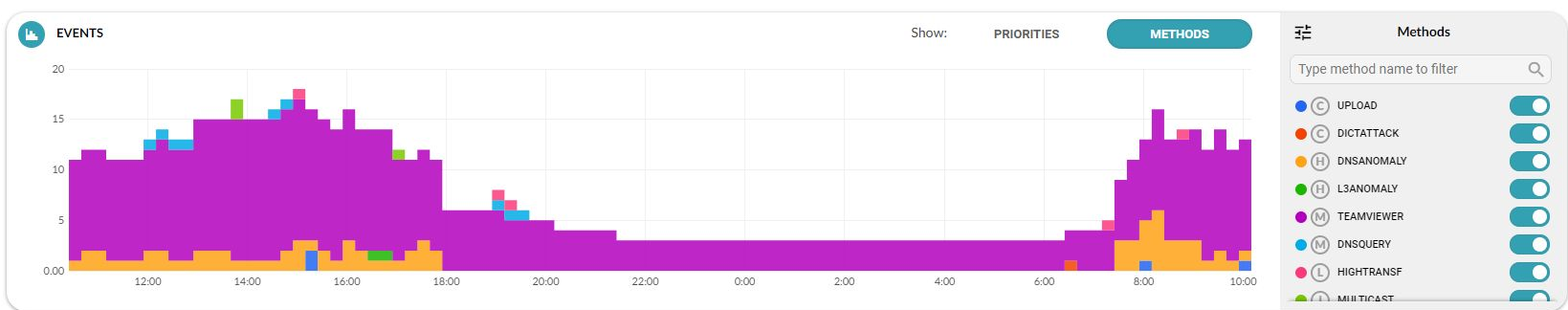
- Critical: 5
- High: 36
- Medium: 31
- Low: 4
- Info: 3

Event overview by type Last 24 hours (generic time span)

Event type	Name	Number of events	
1 U	UPLOAD	Detection of uploading data	4
2 G	DICTATTACK	Detection of dictionary attacks on various protocols.	1
3 H	DNSANOMALY	Detection of anomalies traffic	35
4 H	L3ANOMALY	Detection of anomalies on the third layer of OSI model.	1
5 M	TEAMVIEWER	Detection of TeamViewer	28
6 M	DNSQUERY	Detection of too many DNS queries	3
7 L	HIGHTRANSF	Detection of high data transfers in network	4
8 I	MULTICAST	Detection of IPv4 and IPv6 multicast traffic	3
	Others		0
	Total		79

Application performance overview Last 24 hours (generic time span)





EVENTS BY PRIORITY 2020-09-08 10:25 - 2020-09-09 10:10 Overall events count: 79

> UPLOAD

▼ DICTATTACK 1 ↑

1 events of the type DICTATTACK from 1 source IP addresses detected

SOURCE IP ADDRESS	SOURCE IP FILTERS	EVENTS COUNT
▼ <input checked="" type="checkbox"/> 192.168.0.33 (unknown)		1

Detected 1 events of the type DICTATTACK from 192.168.0.33

ID	DETECTION TIME	LAST UPDATE	DETAIL	TARGETS	DATA FEED	COMMENTS
#151715 <input checked="" type="checkbox"/>	2020-09-09 06:25:52	2020-09-09 06:30:52	Samba dictionary attack, attempts: 195, port(s): 445, attack duration: 22 s 902 ms, average time between attempts: 117 ms.	<input checked="" type="checkbox"/> 192.168.0.252	▼ Default	<input checked="" type="checkbox"/>

Showing 1 - 1 of 1

Showing 1 - 1 of 1

> DNSANOMALY

- Analysis
- Events
- Reports
- Settings
- Logs
- About

Date: Custom | From: 2020-09-08 10:10 | To: 2020-09-09 10:10 | Perspective: Security issues | Data feed: -- Unspecified -- | Source IP:

ANALYSIS **EVENT #151715**

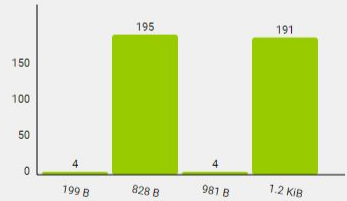
Type: Dictionary attacks (DICTATTACK)
Subtype: SambaProtocol
 Reports the password-guessing attacks (dictionary or brute-force based) on a Samba server. This may indicate an attacker's activity to get unauthorized access to a service or a misconfigured device that is continuously trying to authenticate to a service unsuccessfully.

Detail: Samba dictionary attack, attempts: 195, port(s): 445, attack duration: 22 s 902 ms, average time between attempts: 117 ms.

Detection time: 2020-09-09 06:25:52	Event source: 192.168.0.33 (unknown)	Probability: 100 %
Last update: 2020-09-09 06:30:52	Captured source hostname: N/A	False positive: No
First flow: 2020-09-09 06:24:51	MAC address: 1c:75:08:04:7a:5f	Detected by instance: Default
	User identity: N/A	Data feed: Default

TARGETS (1) COMMENTS (0) CATEGORIES (0) ATTRIBUTES **EVENT EVIDENCE** RELATED IDS EVENTS (1) TRAFFIC RECORDS

Flow count in relation to Transferred [Save as a text file](#) [Query the Monitoring Center](#)



2020-09-09 06:20:00 - 2020-09-09 06:30:00

Filter flows: Show all flows | = | **APPLY**

SOURCE IP	DESTINATION IP	TIMESTAMP	DURATION	PROTOCOL	SOURCE PORT	DESTINATION PORT	TRANSFERRED	PACKETS	FLAGS	TOS	SOURCE MAC	DESTINATION MAC	APP TAG	DATA FEED IP	TCP WINDOW SIZE
192.168.0.33 (unknown)	192.168.0.252 (unknown)	2020-09-09 06:24:51.114	0.123	TCP	64024	445	981	5	...APRS.	Best Effort & Default	1c:75:08:04:7a:5f	00:11:32:6c:b3:69	N/A	127.0.0.1	64240
192.168.0.252 (unknown)	192.168.0.33 (unknown)	2020-09-09 06:24:51.115	0.121	TCP	445	64024	828	6	...APS.	Routine (LD, NT, NR)	00:11:32:6c:b3:69	1c:75:08:04:7a:5f	N/A	127.0.0.1	N/A
192.168.0.33	192.168.0.252	2020-09-09	0	TCP	64024	445	199	1	...AP..	Best Effort &	1c:75:08:04:7a:5f	00:11:32:6c:b3:69	cifs	127.0.0.1	N/A

- Analysis
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Date: Custom | From: 2020-09-08 10:10 | To: 2020-09-09 10:10 | Perspective: Security issues | Data feed: -- Unspecified -- | Source IP:

ANALYSIS **EVENT #151715**

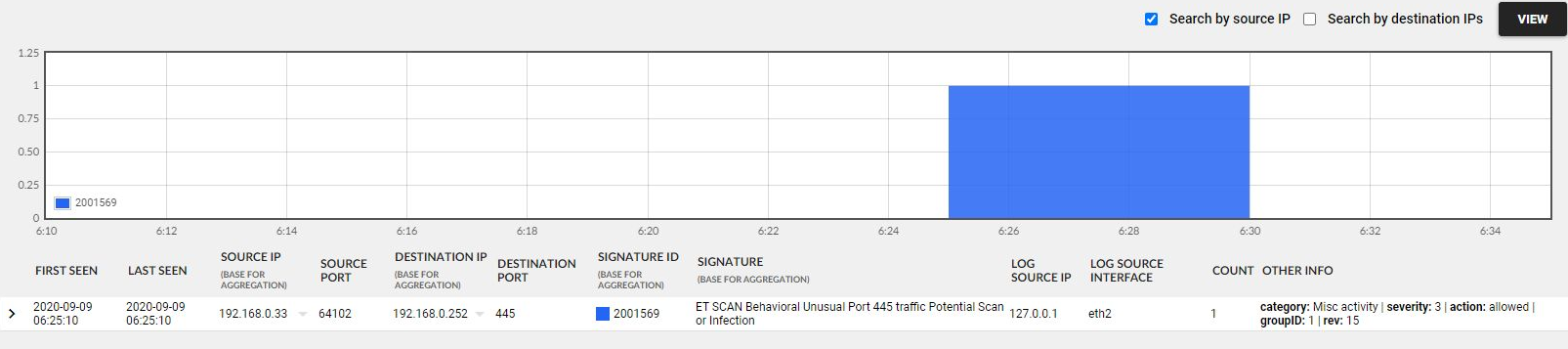
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TARGETS (1) COMMENTS (0) CATEGORIES (0) ATTRIBUTES EVENT EVIDENCE **RELATED IDS EVENTS (1)** TRAFFIC RECORDS



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Date: From: To: Perspective: Data feed: Source IP:

ANALYSIS EVENT #151715

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First flow: 2020-09-09 06:24:51	MAC address: 1c:75:08:04:7a:5f	Detected by instance: Default
	User identity: N/A	Data feed: Default

TARGETS (1) COMMENTS (0) CATEGORIES (0) ATTRIBUTES EVENT EVIDENCE RELATED IDS EVENTS (1) TRAFFIC RECORDS

FPI SERVER	ID	STATE	START TIME	STOP	FILES	ACTION
localhost	5f58595087896	Analyzed	2020-09-09 06:19:51	2020-09-09 06:35:52	FPI_5f58595087896_192.168.2.4_eth2_history.pcap, FPI_5f58595087896_192.168.2.4_eth2_0002_20200909_063000.pcap, FPI_5f58595087896_192.168.2.4_eth2_0001_20200909_062554.pcap, FPI_5f58595087896_192.168.2.4_eth2_0003_20200909_063500.pcap	DOWNLOAD FILES

- New PCAP
- Recordings
- Settings

Recordings

Group All

From 2000-01-01 00:00

To 2020-09-09 10:18

Traffic recording ID

State All

Segment Custom

Show by source All

Filtering rule

1 2 3 4 5 6 ... 118 2 Go

<input type="checkbox"/>	STATE	TRAFFIC RECORDING ID	GROUP	START TIME	END TIME	ANALYSIS RESULT	ACTION	TOOLS
<input type="checkbox"/>	● Recorded	5f58699555c62	FPI	2020-09-09 07:29:26	2020-09-09 07:45:17	-		EDIT ANALYSIS DETAIL DOWNLOAD DELETE
<input type="checkbox"/>	● Recorded	5f5868a54336a	FPI	2020-09-09 07:25:42	2020-09-09 07:41:17	-		EDIT ANALYSIS DETAIL DOWNLOAD DELETE
<input type="checkbox"/>	● Analyzed	5f58595087896	FPI	2020-09-09 06:19:51	2020-09-09 06:35:52	✔ 0 / ▲ 0 / ● 78		EDIT ANALYSIS DETAIL DOWNLOAD DELETE
<input type="checkbox"/>	● Recorded	5f57a6a58b3bb	FPI	2020-09-08 17:37:44	2020-09-08 17:53:33	-		EDIT ANALYSIS DETAIL DOWNLOAD DELETE
<input type="checkbox"/>	● Recorded	5f57a5b393e70	FPI	2020-09-08 17:33:50	2020-09-08 17:49:31	-		EDIT ANALYSIS DETAIL DOWNLOAD DELETE
<input type="checkbox"/>	● Recorded	5f57a12c11ac5	FPI	2020-09-08 17:14:33	2020-09-08 17:30:12	-		EDIT ANALYSIS DETAIL DOWNLOAD DELETE
<input type="checkbox"/>	● Recorded	5f57973b5e451	FPI	2020-09-08 16:30:58	2020-09-08 16:47:47	-		EDIT ANALYSIS DETAIL DOWNLOAD DELETE
<input type="checkbox"/>	● Recorded	5f57904753982	FPI	2020-09-08 16:02:16	2020-09-08 16:18:07	-		EDIT ANALYSIS DETAIL DOWNLOAD DELETE

Live Demo



Analysis detail

Source probe 192.168.2.4 - eth2 Show the following protocols in the analysis report (1)

SMB x

EVENTS

STATISTICS

Tree options

Displayed root events

PROPAGATE SEVERITY

COLLAPSE ALL

EXPAND ALL

 Information: 0
 Warning: 0
 Error: 78

- ✔ SMB: SMB request detected (TCP@192.168.0.33:64159-192.168.0.252:445)
- ✔ SMB: SMB2 negotiation
- ✔ SMB: SMB2 negotiation successful
- ✔ SMB: Session with sign in
- ✔ SMB: Server challenge sign in
- ✔ SMB: Client credentials for sign in
- ✘ SMB: SMB2 session setup error response
- ✔ SMB: SMB request detected (TCP@192.168.0.33:64205-192.168.0.252:445)
- ✔ SMB: SMB2 negotiation
- ✔ SMB: SMB2 negotiation successful
- ✔ SMB: Session with sign in
- ✔ SMB: Server challenge sign in
- ✔ SMB: Client credentials for sign in
- ✘ SMB: SMB2 session setup error response
- ✔ SMB: SMB2 request detected (TCP@192.168.0.33:64160-192.168.0.252:445)
- ✔ SMB: SMB2 negotiation
- ✔ SMB: SMB2 negotiation successful
- ✔ SMB: Session with sign in
- ✔ SMB: Server challenge sign in
- ✔ SMB: Client credentials for sign in
- ✘ SMB: SMB2 session setup error response
- ✔ SMB: SMB2 request detected (TCP@192.168.0.33:64161-192.168.0.252:445)

SMB2 session setup error response



Verify network connectivity. Check compatibility of client and server SMB protocol version. Check server log for error messages. You can try to restart the server.

Description	192.168.0.252 and 192.168.0.33 did not set up session - The attempted logon is invalid. This is either due to a bad username or authentication information (STATUS_LOGON_FAILURE, 0xC000006D).
Protocol	SMB
Severity	error ✘
Flow	TCP@192.168.0.252:445-192.168.0.33:64243
TCP flow errors	No errors detected
Frame time	09.09.2020 06:28:15
Frame number	935
IP version	4
IP source	192.168.0.252
IP destination	192.168.0.33
IP proto	6
TCP source port	445
TCP destination port	64243
TCP stream	77
smb2.pid	0x0000feff
nt_status_decoded	The attempted logon is invalid. This is either due to a bad username or authentication information (STATUS_LOGON_FAILURE, 0xC000006D)
smb2.flags	0x00000001
smb2.sesid	0x000000001d1fde8