



DIGIHUNT

Network Threat Detector

DIGINTRUDE

Introduction

A Network Threat Detection & Analysis is a system that monitors **network traffic** for suspicious activity and issues alerts when such activity is discovered. It is a software application that scans a network or a system for harmful activity or policy breaching. Any malicious venture or violation is normally reported either to an administrator or collected centrally using a security information and event management (SIEM) system. A SIEM system integrates outputs from multiple sources and uses alarm filtering techniques to differentiate malicious activity from false alarms. Although Network Threat Detection & Analysis systems monitor networks for potentially malicious activity, they are also disposed to false alarms. Hence, organizations need to fine-tune their Network Threat Detection & Analysis when they first install them. It means properly setting up the threat detection systems to recognize what normal traffic on the network looks like as compared to malicious activity.

Overview

Digihunt is one of its kind Network Threat Detection and Analysis tool solution provides complete comprehensive visibility to your network traffic and malicious incidents occur on the network and normally stay undetected by perimeter devices. This solution gives an in-depth analytics view for all types of Inbound and Outbound traffic after identifying the intrusions successfully. On a successfully configured tapped network Digihunt signature needs to be fine-tuned by the IT team to reduced false-positives alerts.

Hardware Requirements

Architecture

Digihunt only supports x86-64 architecture (standard Intel/AMD 64-bit processors). Sorry, we do not support ARM or other processors!

Elastic Stack

If you are going to enable the Elastic Stack, please note that the MINIMUM requirements are 4 CPU cores and 12GB RAM. These requirements increase as you monitor more traffic and consume more logs.

We recommend placing all Elastic storage on SSD or fast spinning disk in a RAID10 configuration.

Standalone Deployments

In a standalone deployment, the master server components and the sensor components all run on a single box, your hardware requirements will reflect that. This deployment type is recommended for evaluation purposes, POC (proof-of-concept) and small to medium size single sensor deployment. Although you can deploy Digihunt in this manner, it is recommended that you separate the backend components and sensor components.

- **CPU:** Used to parse incoming events, index incoming events, search metadata, capture logs, analyze packets, and run the frontend components. As data and event consumption increases, a greater amount of CPU will be required.
- **RAM:** Used for Logstash, Elasticsearch, disk cache for Lucene, Suricata. The amount of available RAM will directly impact search speeds and reliability, as well as the ability to process and capture traffic.
- **Disk:** Used for storage of indexed metadata. A larger amount of storage allows for a longer retention period. It is typically recommended to retain no more than 30 days of hot ES indices.

Virtualization

We recommend dedicated physical hardware (especially if you are monitoring lots of traffic) to avoid competing for resources. Sensors can be virtualized, but you'll have to ensure that they are allocated sufficient resources.

CPU

Suricata is very CPU intensive. The more traffic you are monitoring, the more CPU cores you'll need. A very rough ballpark estimate would 100Mbps per Suricata instance. So, if you have a fully saturated 1 Gbps link and are running Suricata, then you'll want at least 10 Suricata instances which means you'll need at least 5 CPU cores for Suricata with additional CPU cores for other services.

RAM

RAM usage is highly dependent on several variables:

- The services that you enable
- The kinds of traffic you're monitoring (example: you may be monitoring a 1Gbps link but it's only using 200Mbps most of the time)
- The amount of packet loss that is "acceptable" to your organization

For best performance, over provision RAM so that you can fully disable swap.

Storage

Sensors that have full packet capture enabled need LOTS of storage. For example, suppose you are monitoring a link that averages 50Mbps, here are some quick calculations: 50Mb/s = 6.25 MB/s = 375 MB/minute = 22,500 MB/hour = 540,000 MB/day. So, you're going to need about 540GB for one day's worth of pcaps (multiply this by the number of days you want to keep on disk for investigative/forensic purpose). The more disk space you have, the more PCAP retention you'll have for doing investigations after the fact. The disk is cheap, get all you can!

NIC

You'll need at least two wired network interfaces: one for management (preferably connected to a dedicated management network) and then one or more of sniffing (connected to tap or span).

Use Cases

IP Packets

Security analysts can easily identify IP packet traffic like

- a. the types of network traffic flowing over it,
- b. who are flow talker & connectivity statistics
- c. chart between devices connected to our network.

Anomaly Detection

Anomaly-based network intrusion detection plays a vital role in protecting networks against malicious activities. In recent years, data mining techniques have gained importance in addressing security issues in the network. Digihunt Intrusion Detection and Analysis System aim to identify intrusions with a low false alarm rate and a high detection rate.

Network behavior is the major parameter on which the anomaly detection systems rely upon. If the network behavior is within the predefined behavior, then the network transaction is accepted or else it triggers the alert in the anomaly detection systems. Acceptable network performance can be either predetermined or learned through specifications or conditions defined by the network administrator.

Signature Recognition

Network-level threats can be detected and category according to the different threat categories based on 29000 + signature by emerging threat.

Alert System and Reports

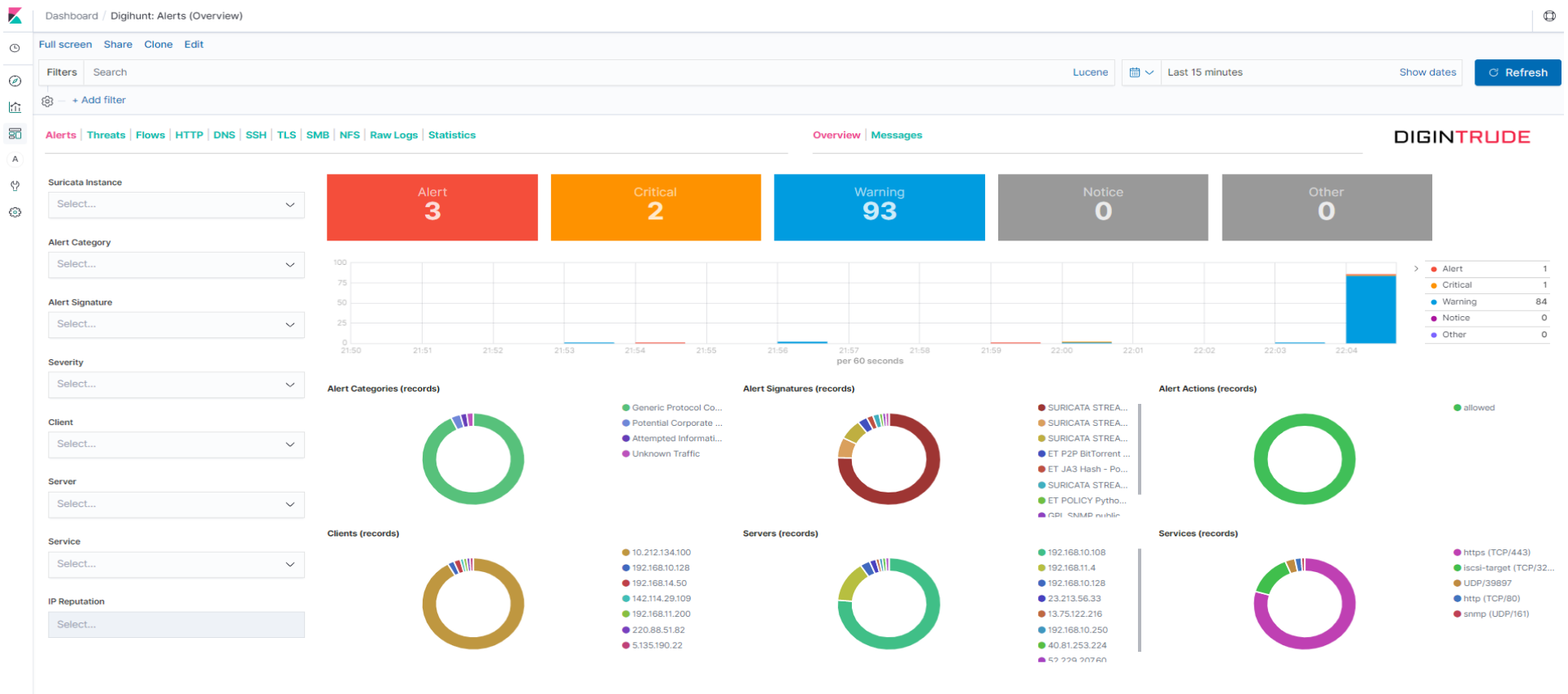
It has an alerting system to notify security analyst with various detection methods defined by the analyst to observe malicious traffic and take action according to corporate best practices, Standards & Controls. (Remove email-based notification & notify analyst regularly)

Dashboards

The following dashboards are provided.

Suspicious Incidents - Overview

Complete visibility to the tapped network incidents been categorized on Priority of e.g. Alert, Critical, Warning, Notice, and Others. This Dashboard visualizes incident history as well as real-time analysis view of aggregated incidences detected by Digihunt.



Suspicious Incidents – Messages

This feature in the dashboard shows all the severities detected by Digihunt with a fine-tuned filtering system and timespan of the incident. A comprehensive analysis can be done to a particular type of suspicious activity using a messages tab.

Dashboard / Digihunt: Alerts (Messages)

Full screen | Share | Clone | Edit

Filters | Search

KQL

Last 15 minutes

Show dates

Refresh

+ Add filter

Alerts | Threats | Flows | HTTP | DNS | SSH | TLS | SMB | NFS | Raw Logs | Statistics

Overview | Messages

DIGINTRUDE

Suricata Instance

Select...

Alert Category

Select...

Alert Signature

Select...

Severity

Select...

Client

Select...

Server

Select...

Service

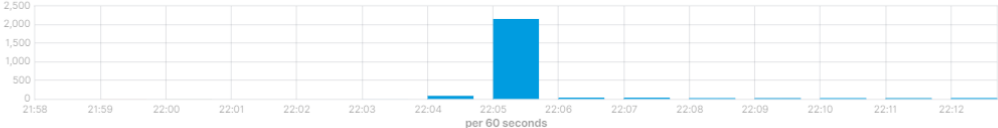
Select...

IP Reputation

Select...

Alerts

2,452



1-50 of 2,452

Time	log.severity	alert.category	alert.signature	alert.signature_id	alert.action	client_hostname	server_hostname	service_name
> Nov 4, 2019 @ 22:13:24.421	warning	Generic Protocol Command Decode	SURICATA STREAM Packet with invalid ack	2210045	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:24.421	warning	Generic Protocol Command Decode	SURICATA STREAM SHUTDOWN RST invalid ack	2210046	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:19.423	warning	Generic Protocol Command Decode	SURICATA STREAM SHUTDOWN RST invalid ack	2210046	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:19.423	warning	Generic Protocol Command Decode	SURICATA STREAM Packet with invalid ack	2210045	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:14.435	warning	Generic Protocol Command Decode	SURICATA STREAM Packet with invalid ack	2210045	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:14.435	warning	Generic Protocol Command Decode	SURICATA STREAM SHUTDOWN RST invalid ack	2210046	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:09.419	warning	Generic Protocol Command Decode	SURICATA STREAM Packet with invalid ack	2210045	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:09.419	warning	Generic Protocol Command Decode	SURICATA STREAM SHUTDOWN RST invalid ack	2210046	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:04.418	warning	Generic Protocol Command Decode	SURICATA STREAM Packet with invalid ack	2210045	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:13:04.418	warning	Generic Protocol Command Decode	SURICATA STREAM SHUTDOWN RST invalid ack	2210046	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:12:59.425	warning	Generic Protocol Command Decode	SURICATA STREAM Packet with invalid ack	2210045	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:12:59.425	warning	Generic Protocol Command Decode	SURICATA STREAM SHUTDOWN RST invalid ack	2210046	allowed	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)
> Nov 4, 2019 @ 22:12:54.609	warning	Unknown Traffic	ET JA3 Hash - Possible Malware - Banking Phish	2028362	allowed	192.168.10.16	13.107.13.88	https (TCP/443)

Threats - Public Attackers

The public threat tab visualizes the incident detected by our Digihunt engine through signature and behavioral anomalies. It detects suspicious public IP talkers according to the severities. This also draws a statistical analysis view of history time span and real-time public IP traffics.

Dashboard / Digihunt: Threats (Public Threats)

Full screen Share Clone Edit

Filters Search Lucene Last 15 minutes Show dates Refresh

+ Add filter

Alerts Threats Flows HTTP DNS SSH TLS SMB NFS Raw Logs Statistics

Public Threats At-Risk Servers At-Risk Services High-Risk Clients

DIGINTRUDE

Suricata Instance

Select...

Alert Category

Select...

Alert Signature

Select...

Severity

Select...

Client

Select...

Server

Select...

Service

Select...

IP Reputation

Select...

Threats

3

Public Attackers

Client Name	Client IP	Alerts
220.88.51.82	220.88.51.82	1
151.80.20.111	151.80.20.111	1

Export: Raw Formatted

Signatures

Signature	Signature ID	Alerts
ET P2P BitTorrent DHT ping request	2008581	2
SURICATA ICMPv4 invalid checksum	2200076	1

Export: Raw Formatted

Vulnerabilities

No results found

IP Reputations

No results found

21:59 22:00 22:01 22:02 22:03 22:04 22:05 22:06 22:07 22:08 22:09 22:10 22:11 22:12 22:13

per 60 seconds

Bad Reputation

Alert

Critical

Warning

Notice

Other

0 0 0 0 0 0

Threats - At-Risk Servers

At-Risk Servers tab visualize the incident detected by our Digihunt engine through signature and behavioral anomalies. It detects suspicious Internal IP talkers according to the severities and Risk Counts. This also draws a statistical analysis view of history time span and real-time Internal IP traffics.

Dashboard / Digihunt: Threats (At-Risk Servers)

Full screen Share Clone Edit

Filters Search Lucene Last 15 minutes Show dates Refresh

+ Add filter

Alerts Threats Flows HTTP DNS SSH TLS SMB NFS Raw Logs Statistics

Public Threats At-Risk Servers At-Risk Services High-Risk Clients

DIGINTRUDE

Suricata Instance Select...

Alert Category Select...

Alert Signature Select...

Severity Select...

Client Select...

Server Select...

Service Select...

IP Reputation Select...

Threats 2,501

At-Risk Servers

Server Name	Server IP	Risks
192.168.10.108	192.168.10.108	2,226
192.168.11.4	192.168.11.4	268
192.168.10.250	192.168.10.250	5
192.168.10.128	192.168.10.128	2

Export: Raw Formatted

Signatures

Signature	Signature ID	Alerts
SURICATA STREAM ESTABLISHED packet out of window	2210020	837
SURICATA STREAM Packet with invalid ack	2210045	828
SURICATA STREAM ESTABLISHED invalid ack	2210029	694
SURICATA STREAM SHUTDOWN RST invalid ack	2210046	134
GPL SNMP public access udp	2101411	5
ET P2P BitTorrent DHT ping request	2008581	2
SURICATA STREAM FIN out of window	2210038	1

Export: Raw Formatted

Vulnerabilities

CVE	Alerts
CVE-2002-0013	5

Export: Raw Formatted

IP Reputations

No results found

per 60 seconds

22:00 22:01 22:02 22:03 22:04 22:05 22:06 22:07 22:08 22:09 22:10 22:11 22:12 22:13 22:14

Bad Reputation 0

Alert 0

Critical 1

Warning 24

Notice 0

Other 0

Threats - At-Risk Services

At-Risk Services tab visualizes the incident detected by our Digihunt engine through signature and behavioral anomalies. It detects suspicious Internal ports open on various end devices according to the severities and Risk Counts. This also draws a statistical analysis view of history time span and real-time Internal IP traffics.

Dashboard / Digihunt: Threats (At-Risk Services)

Full screen | Share | Clone | Edit

Filters | Search

Lucene | Today | Show dates | Refresh

+ Add filter

Alerts | Threats | Flows | HTTP | DNS | SSH | TLS | SMB | NFS | Raw Logs | Statistics

Public Threats | At-Risk Servers | At-Risk Services | High-Risk Clients

DIGINTRUDE

Suricata Instance

Select...

Alert Category

Select...

Alert Signature

Select...

Severity

Select...

Client

Select...

Server

Select...

Service

Select...

IP Reputation

Select...

Threats

7,298

At-Risk Services

Service	Port	Risks
https (TCP/443)	443	5,416
csms (TCP/3399)	3399	1,023
iscsi-target (TCP/3260)	3260	292
UDP/39897	39897	147
dns (UDP/53)	53	96
dsc (TCP/3390)	3390	81
savant (TCP/3391)	3391	39
http-alt (TCP/8080)	8080	38
d2k-tapestry1 (TCP/3393)	3393	31
dyns-lm (TCP/3395)	3395	30

Export: Raw | Formatted

Signatures

Signature	Signature ID	Alerts
SURICATA STREAM ESTABLISHED packet out of window	2210020	2,753
SURICATA STREAM ESTABLISHED invalid ack	2210029	1,958
SURICATA STREAM Packet with invalid ack	2210045	843
ET SCAN MS Terminal Server Traffic on Non-standard Port	2023753	606
SURICATA Applayer Detect protocol only one direction	2260002	283
SURICATA HTTP Unexpected Request body	2221045	269
SURICATA STREAM SHUTDOWN RST invalid ack	2210046	150
ET P2P BitTorrent DHT ping request	2008581	134
ET DNS Query for .cc TLD	2027758	84
SURICATA HTTP unable to match response to request	2221010	82

Export: Raw | Formatted

Vulnerabilities

CVE	Alerts
CVE-2002-0013	5
CVE-2017-12615	1

Export: Raw | Formatted

IP Reputations

IP Reputation	Alerts
bruteforce	21
ssh	20
bot	18
asterisk	16
email	16
voip	16
auth	13
dovecot	13
exim	13
imap	13

Export: Raw | Formatted

per 10 minutes

00:00 | 02:00 | 04:00 | 06:00 | 08:00 | 10:00 | 12:00 | 14:00 | 16:00 | 18:00 | 20:00 | 22:00

2,500 | 2,000 | 1,500 | 1,000 | 500 | 0

Bar chart showing threat counts over time. Peaks are visible at 10:00, 17:00, and 22:00.

Bad Reputation: 0

Alert: 0

Critical: 0

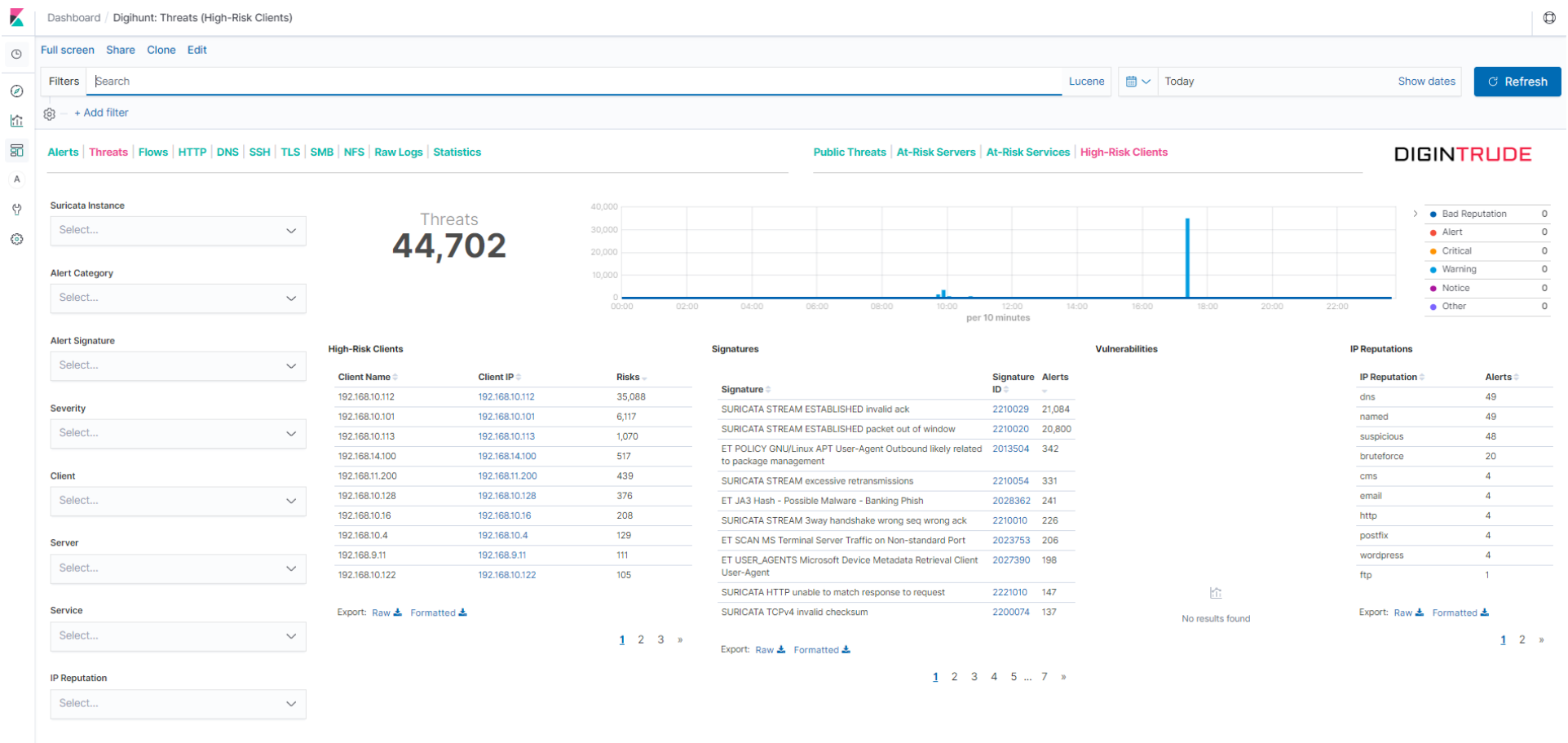
Warning: 0

Notice: 0

Other: 0

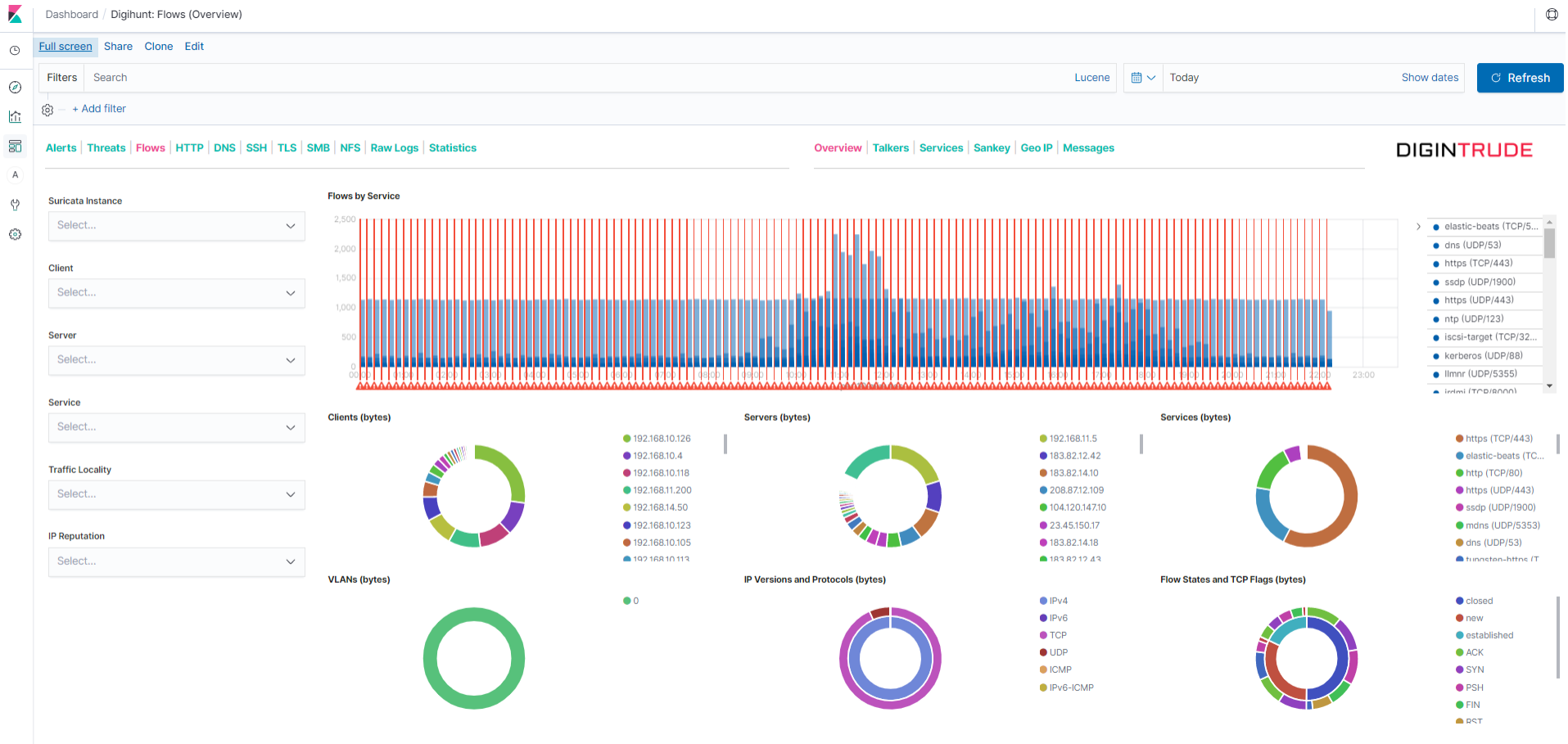
Threats - High-Risk Clients

High-Risk Clients tab visualize the incident detected by our Digihunt engine through signature and behavioral anomalies. It detects suspicious high-risk end devices according to risk counts and disclosed alerts. This also draws a statistical analysis view of history time span and real-time Internal IP traffics.



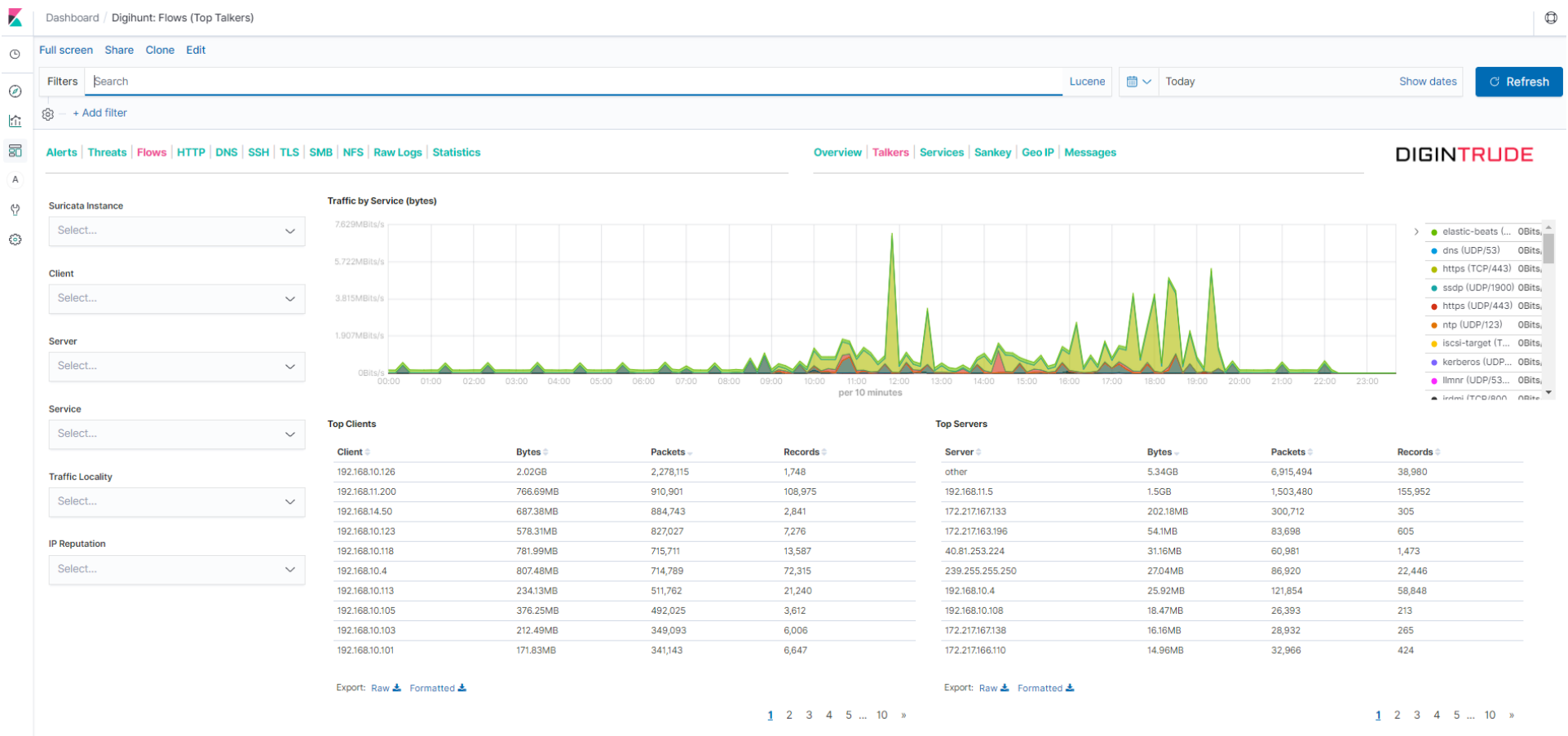
Flows – Overview

Overview tab visualizes network flow event detected by our Digihunt engine. It shows a visualization of Clients list, Servers, Services, VLANs, IP Versions & Protocols, Flow States & TCP Flags according to bytes. This also draws a statistical analysis view of history time span and real-time network flows overview.



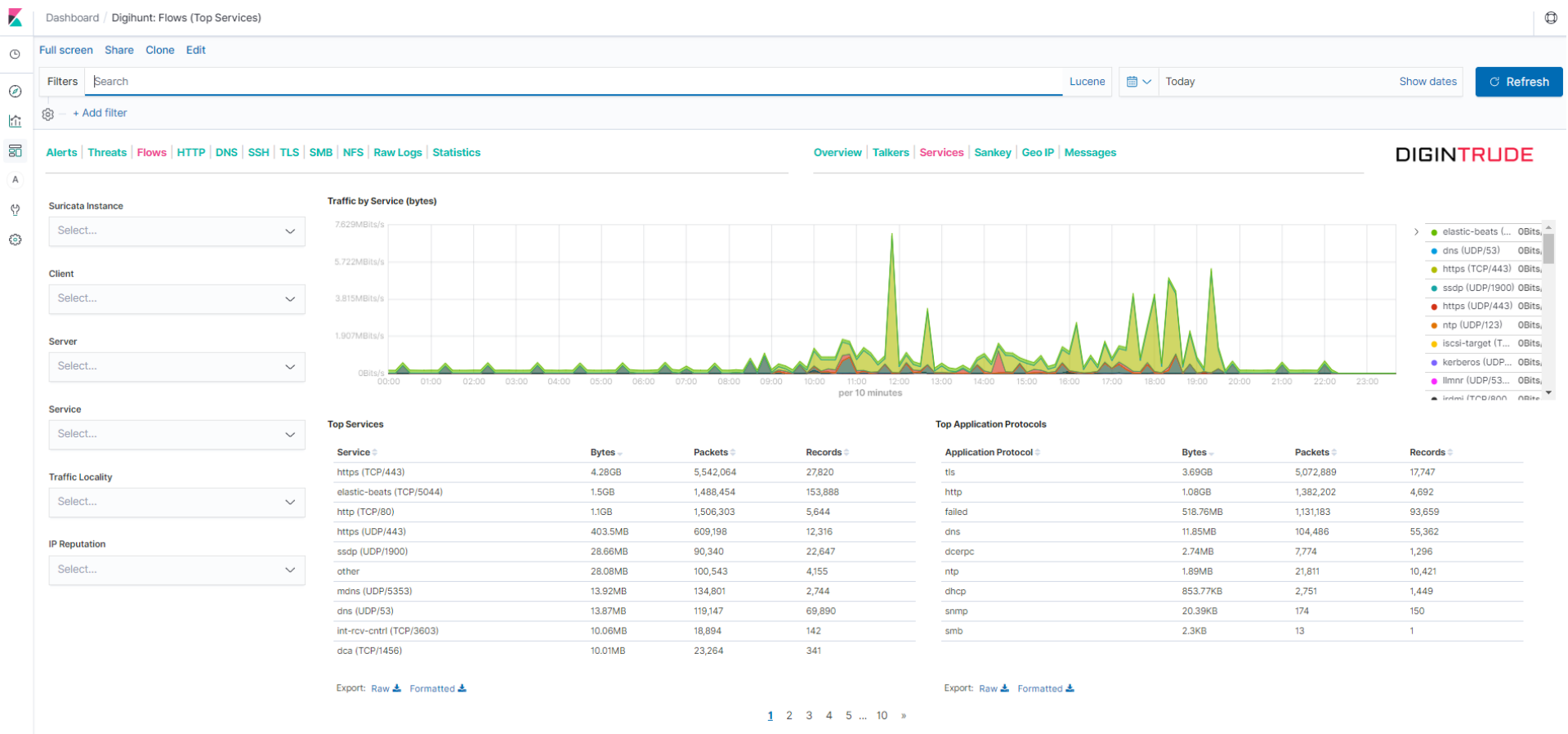
Flows - Top Talkers

Talkers tab visualizes network flows on top bytes, packets, and records by our Digihunt engine. It shows visualization of Top Clients IP, Top Servers IP with a count of Packets and Records. This also draws a statistical analysis view of history time span and real-time network flows in Kbits/sec.



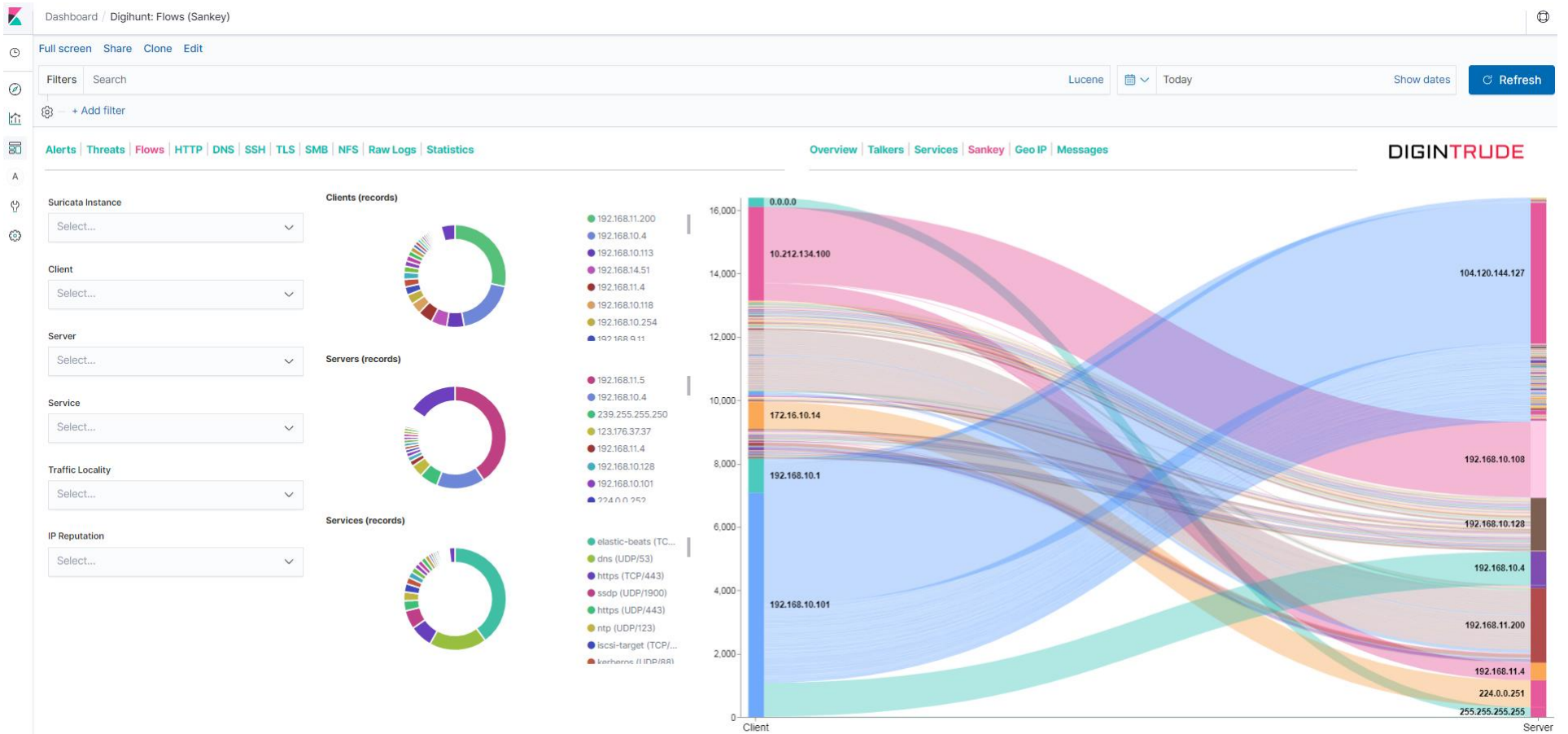
Flows - Top Services

Services tab visualizes network flows on top bytes, packets, and records by our Digihunt engine. It shows a visualization of Top Services, Top Application Protocols with the count of Packets and Records. This also draws a statistical analysis view of history time span and real-time services and application protocol flows in Kbits/sec.



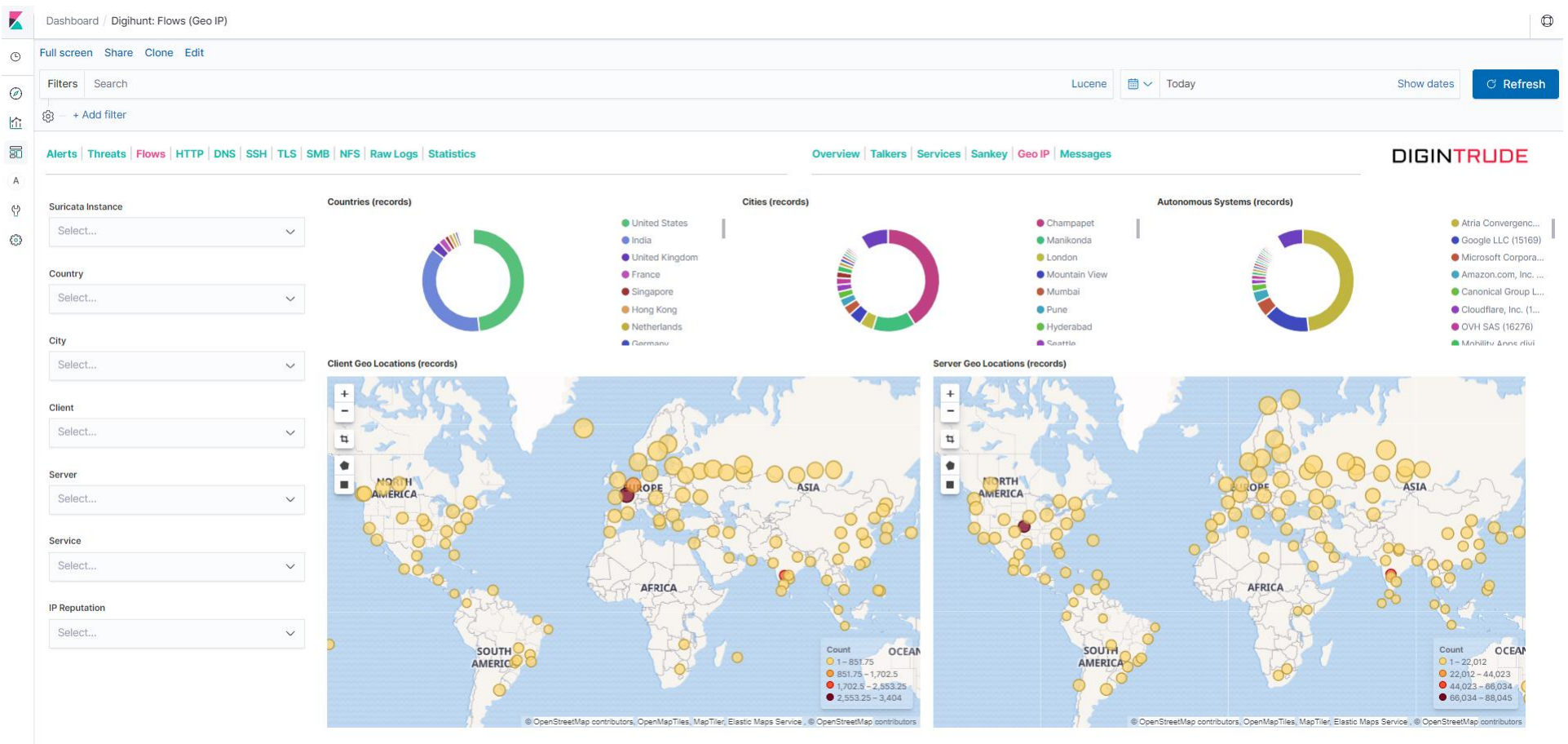
Flows – Sankey

Sankey tab visualizes network flows on top records by our Digihunt engine. It shows the visualization of Clients, Servers, and Services count of Records. This also draws Sankey's view of history time span and real-time source IP to destination IP.



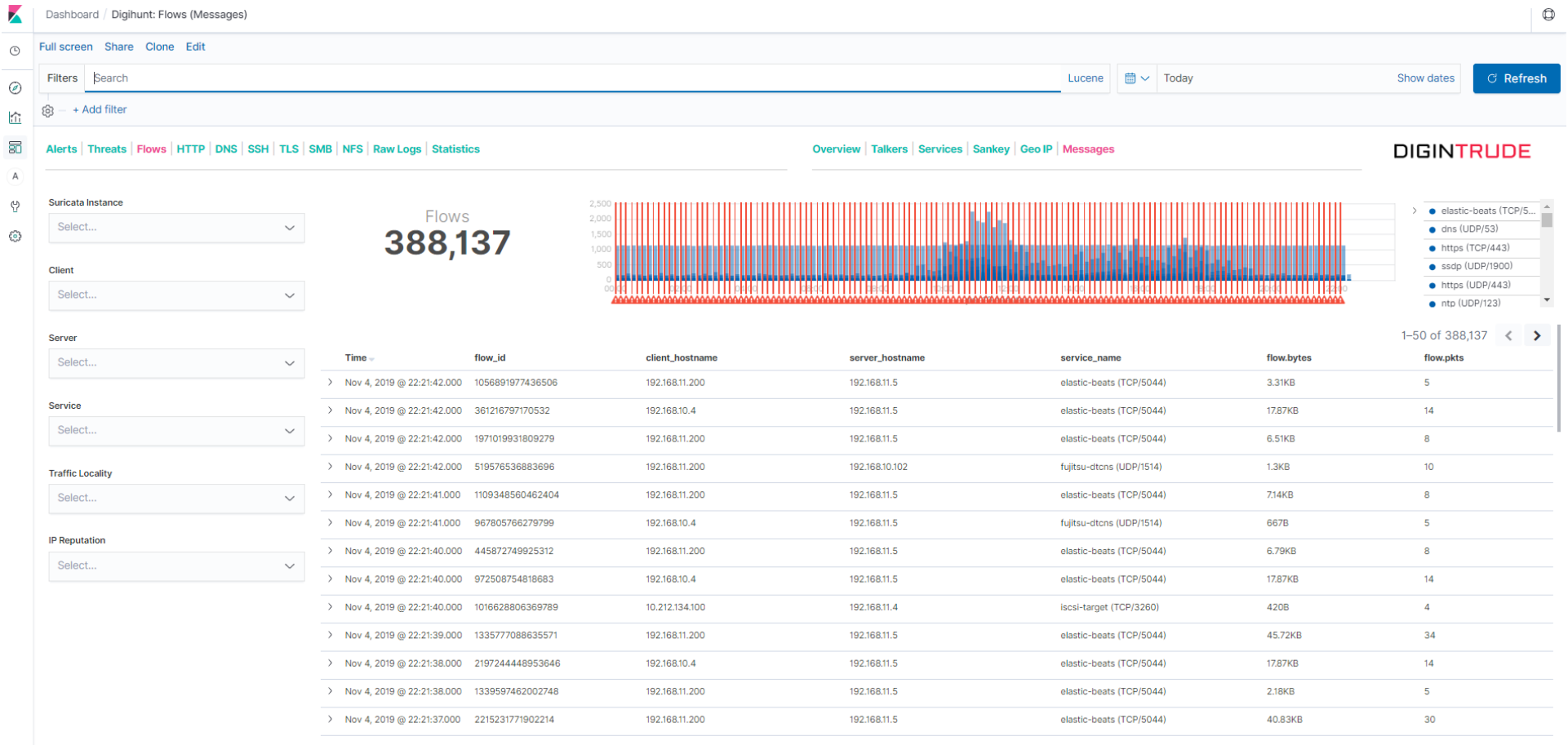
Flows - Geo IP

Geo IP tab visualizes network flows according to Geo Locations by our Digihunt engine. It shows the visualization of Countries, Cities and Autonomous Systems. This also draws the geo spots according to the network flow records initiated.



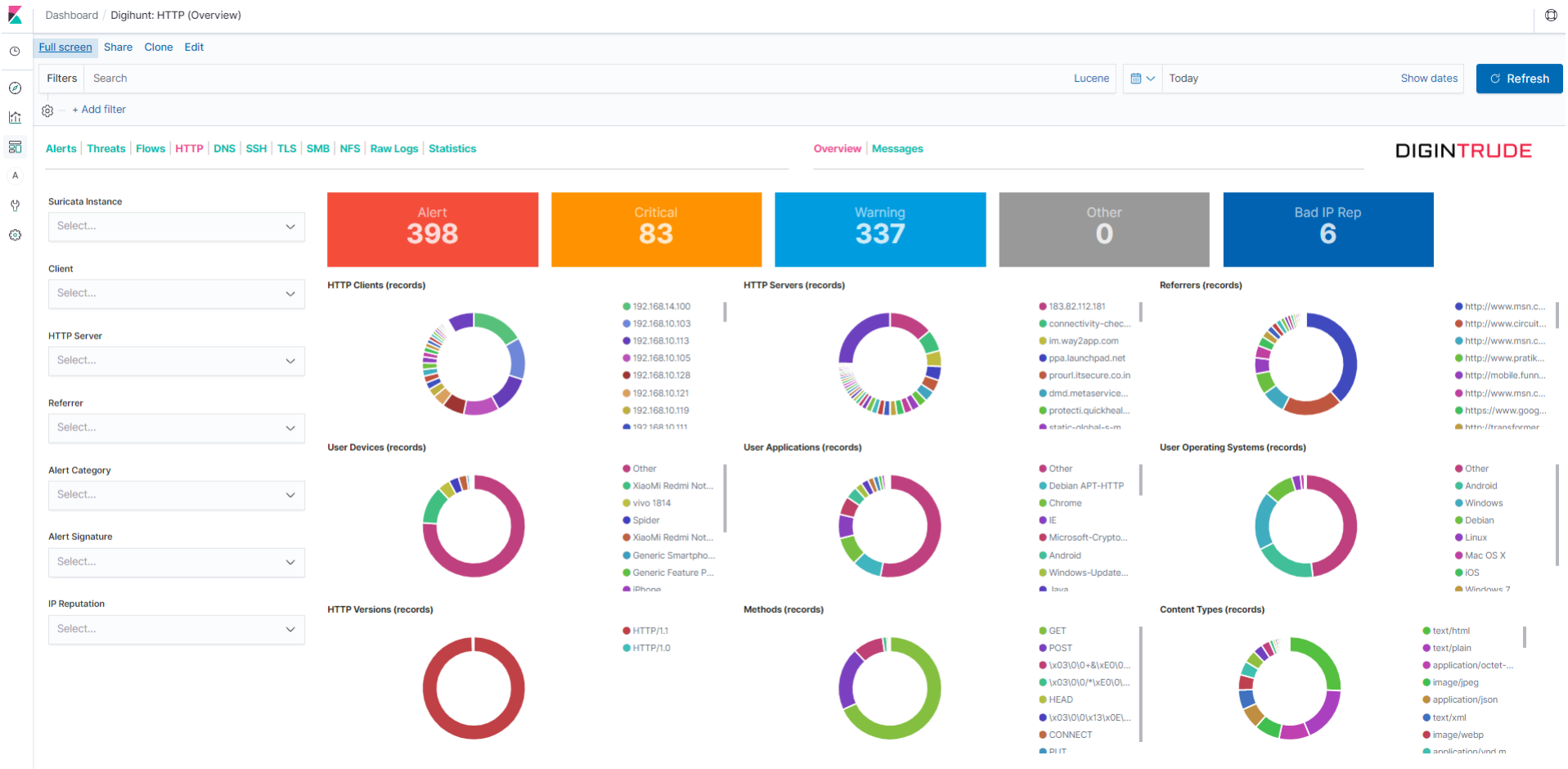
Flows – Messages

Messages tab visualize protocol traffics detailed information by our Digihunt engine. It shows the visualization of all active protocols event with Timestamp, flow_id, client_hostname, server_hostname, service_name, flow.bytes, flow.pkts fields. This also draws a statistical analysis graph according to the network flow services.



HTTP – Overview

Overview tab visualizes Http application services suspicious activity overview dashboard by our Digihunt engine. It shows the visualization of all suspicious activity on a priority of Alert, Critical, Warning, Other & Bad IP Reputations. This also shows all incident categories in real-time and timespan searches.



HTTP – Messages

Messages tab visualize Http application services suspicious activity detailed information by our Digihunt engine. It shows the visualization of all suspicious activity on a priority of field like Time, Client_hostname, http.http_method, HTTP.hostname, http.url. This also draws a statistical analysis graph of applications according to real-time and timespan search.

Dashboard / Digihunt: HTTP (Messages)

Full screen Share Clone Edit

Filters Search Lucene Today Show dates Refresh

+ Add filter

Alerts Threats Flows HTTP DNS SSH TLS SMB NFS Raw Logs Statistics

Overview Messages

DIGINTRUDE

Suricata Instance

Select...

Client

Select...

HTTP Server

Select...

Referrer

Select...

Alert Category

Select...

Alert Signature

Select...

IP Reputation

Select...

HTTP Logs

11,933

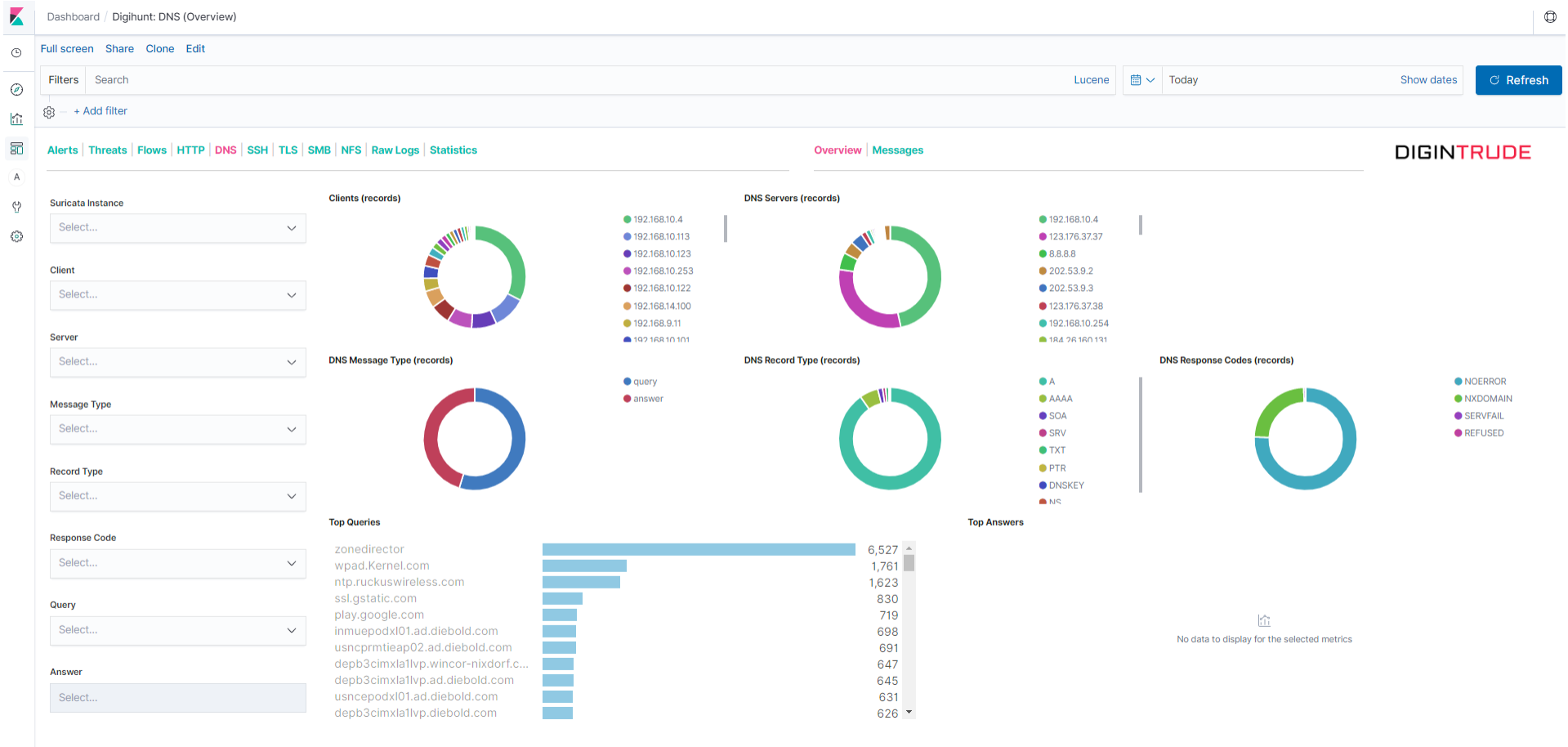
1-50 of 6,833

< >

Time	client_hostname	http.http_method	http.hostname	http.url	http.status
> Nov 4, 2019 @ 22:22:23.248	192.168.10.111	GET	connectivity-check.ubunt u.com	/	204
> Nov 4, 2019 @ 22:22:23.241	192.168.10.108	GET	connectivity-check.ubunt u.com	/	204
> Nov 4, 2019 @ 22:19:36.003	192.168.10.16	GET	ctldl.windowsupdate.com	/msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab78d0e2f1a2f40faf0	304
> Nov 4, 2019 @ 22:19:34.186	192.168.14.100	GET	connectivity-check.ubunt u.com	/	204
> Nov 4, 2019 @ 22:19:32.079	192.168.10.119	GET	connectivity-check.ubunt u.com	/	204
> Nov 4, 2019 @ 22:18:18.147	192.168.14.100	GET	ctldl.windowsupdate.com	/msdownload/update/v3/static/trustedr/en/authrootstl.cab78c2c54e3662c3440	304
> Nov 4, 2019 @ 22:17:23.264	192.168.10.111	GET	connectivity-check.ubunt u.com	/	204
> Nov 4, 2019 @ 22:17:23.243	192.168.10.108	GET	connectivity-check.ubunt u.com	/	204
> Nov 4, 2019 @ 22:17:23.000	46.174.191.32	GET	-	/	200
> Nov 4, 2019 @ 22:14:34.189	192.168.14.100	GET	connectivity-check.ubunt u.com	/	204

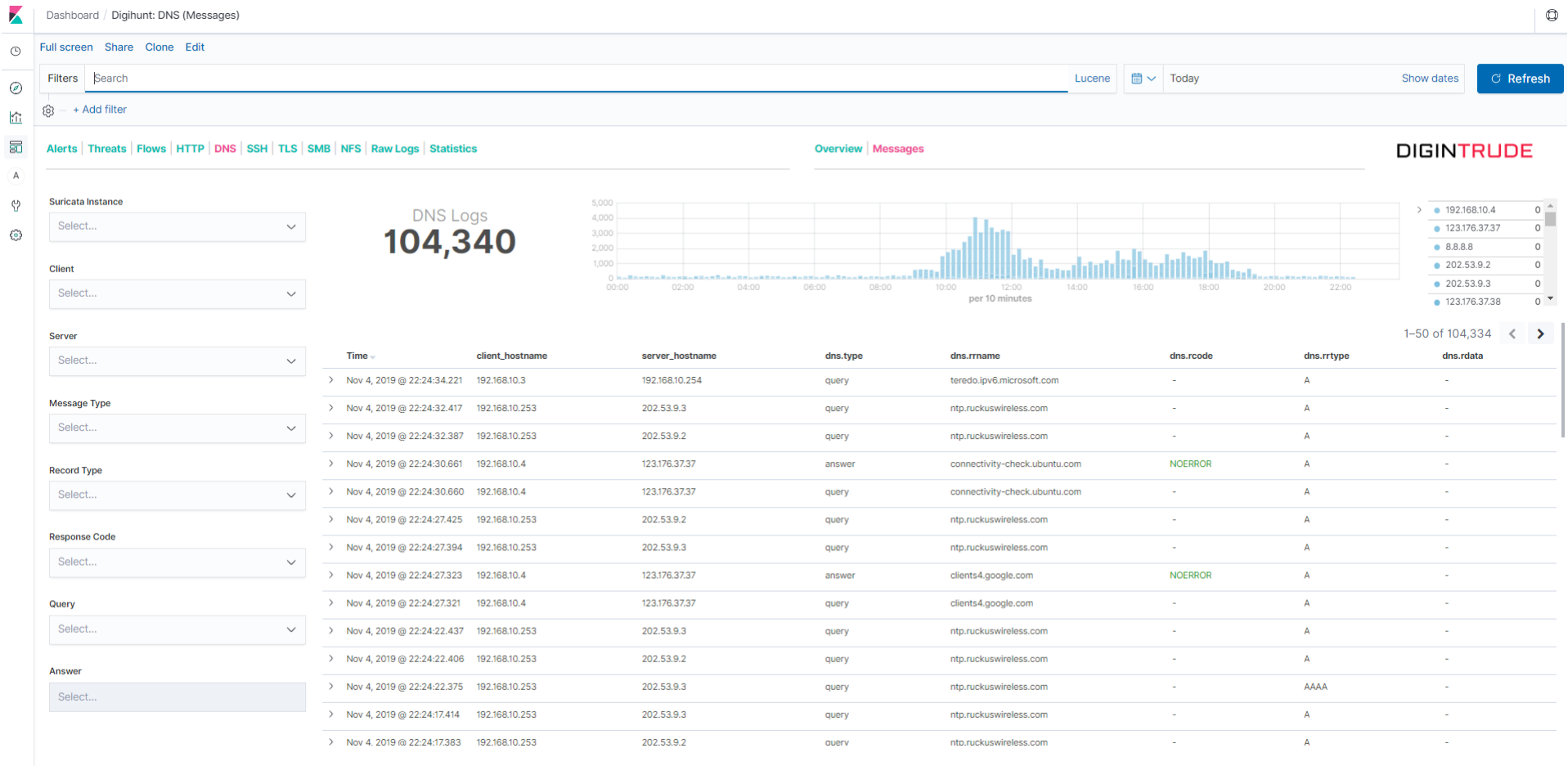
DNS – Overview

Overview tab visualizes the DNS application services records overview dashboard by our Digihunt engine. It shows a visualization of all DNS related events in Clients, DNS Servers, DNS Messages, DNS Record Type, DNS Response Codes, Top Queries. This also shows all event categories in real-time and timespan searches.



DNS – Messages

Messages tab visualize DNS application services log detailed information by our Digihunt engine. It shows a visualization of all suspicious activity on a priority of field like Time, Client_hostname, Server_hostname, dns.type, dns.rname, dns.rcode, dns.rrtype, dns.rdata. This also draws a statistical analysis graph of applications according to real-time and timespan searches.



SSH – Messages

Message tab visualizes ssh remote application services records details by our Digihunt engine. It shows visualization of all ssh related records in Time, client_hostname, ssh.client_software_version, ssh.client_proto_version, server_hostname, sh.server.software_version, ssh.server.proto_version fields. This also filters according to Search Keyword & Show dates.

Dashboard / Digihunt: SSH (Messages)

Full screen | Share | Clone | Edit

Filters | Search | Lucene | Today | Show dates | Refresh

+ Add filter

Alerts | Threats | Flows | HTTP | DNS | SSH | TLS | SMB | NFS | Raw Logs | Statistics | Overview | Messages

DIGINTRUDE

Suricata Instance
Select...

Client
Select...

Client Software
Select...

Server
Select...

Server Software
Select...

SSH Logs

1

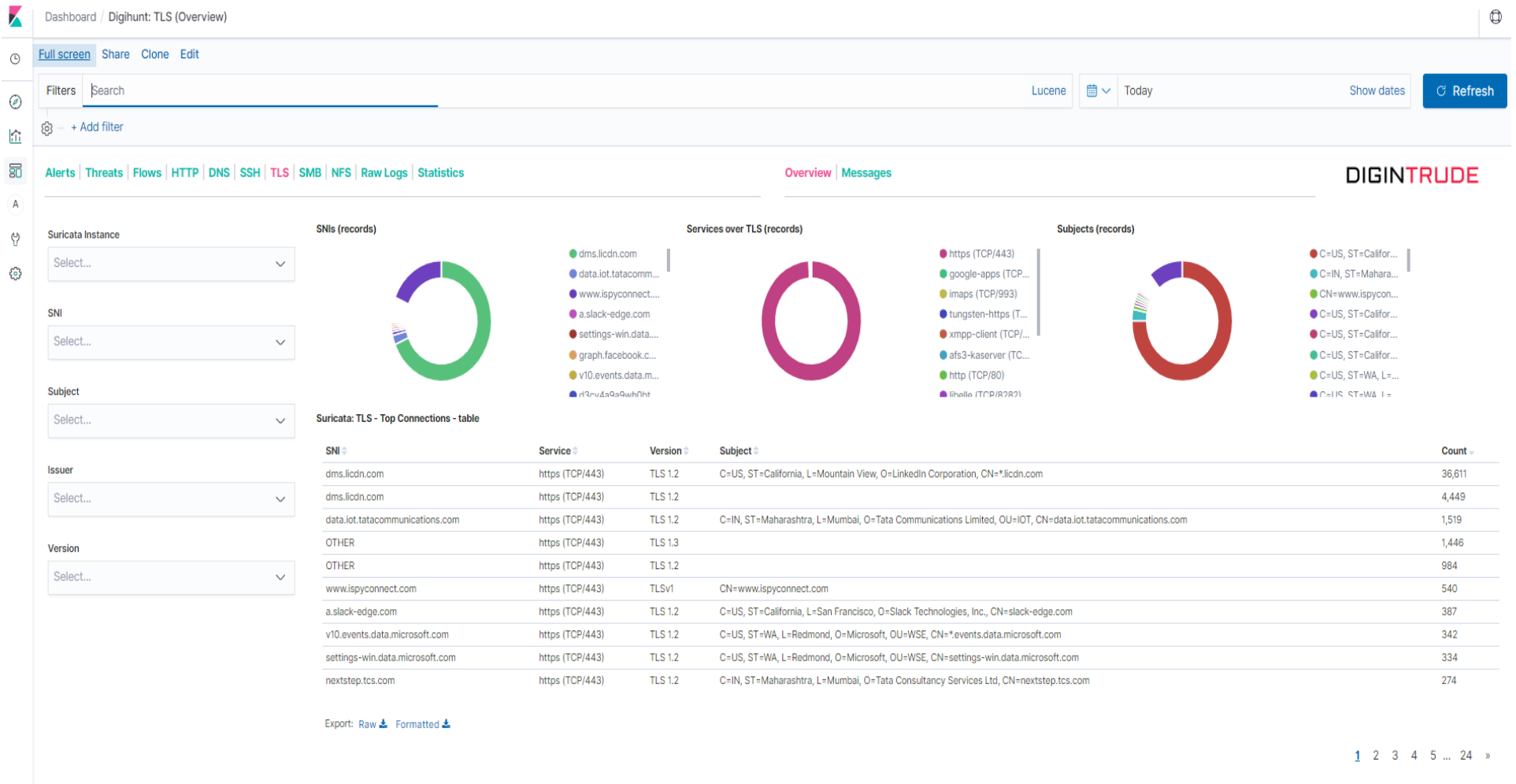
OpenSSH_7.6p1 Ubu... 0

Time	client_hostname	ssh.client.software_version	ssh.client.proto_version	server_hostname	ssh.server.software_version	ssh.server.proto_version
> Nov 4, 2019 @ 22:25:51.092	10.212.134.100	PuTTY_Release_0.70	2.0	192.168.10.108	OpenSSH_7.6p1 Ubuntu-4ubuntu0.3	2.0

1-1 of 1

TLS – Overview

Overview tab visualizes TLS remote application services records overview dashboard by our Digihunt engine. It shows the visualization of all TLS related events in SNIs, Services over TLS, Subjects, Suricata: TLS-Top Connections - Table. Add on the feature of filtering with show date and Search field.



TLS – Messages

Message tab visualizes TLS remote application services records details by our Digihunt engine. It shows the visualization of all TLS related records in Time, tls.sni, service_name, tls.version, tls.subject fields. This also filters according to Search Keyword & Show dates.

Dashboard / Digihunt: TLS (Messages)

Full screen | Share | Clone | Edit

Filters | Search | Lucene | Today | Show dates | Refresh

+ Add filter

Alerts | Threats | Flows | HTTP | DNS | SSH | TLS | SMB | NFS | Raw Logs | Statistics

Overview | Messages

DIGINTRUDE

Suricata Instance

Select...

SNI

Select...

Subject

Select...

Issuer

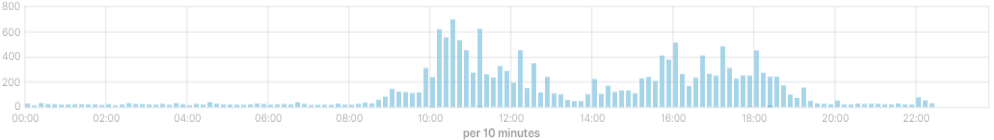
Select...

Version

Select...

TLS Logs

17,748



Suricata: Logs (tls)

Time	tls.sni	service_name	tls.version	tls.subject
> Nov 4, 2019 @ 22:28:33.403	data.iot.tatacommunications.com	https (TCP/443)	TLS 1.2	C=IN, ST=Maharashtra, L=Mumbai, O=Tata Communications Limited, OU=IoT, CN=data.iot.tatacommunications.com
> Nov 4, 2019 @ 22:28:14.577	dw-col.ksord.com	https (TCP/443)	TLS 1.2	C=CN, ST=Guangdong, L=Zhuohai, O=Zhuohai Kingsoft Office Software Co., Ltd., OU=RD Department, CN=*ksord.com
> Nov 4, 2019 @ 22:28:00.000	-	https (TCP/443)	TLS 1.2	-
> Nov 4, 2019 @ 22:28:00.000	-	https (TCP/443)	TLS 1.2	-
> Nov 4, 2019 @ 22:28:00.000	-	https (TCP/443)	TLS 1.2	-
> Nov 4, 2019 @ 22:27:33.381	data.iot.tatacommunications.com	https (TCP/443)	TLS 1.2	C=IN, ST=Maharashtra, L=Mumbai, O=Tata Communications Limited, OU=IoT, CN=data.iot.tatacommunications.com
> Nov 4, 2019 @ 22:26:59.942	-	https (TCP/443)	TLS 1.2	-
> Nov 4, 2019 @ 22:26:59.939	-	https (TCP/443)	TLS 1.2	-
> Nov 4, 2019 @ 22:26:59.909	-	https (TCP/443)	TLS 1.2	-
> Nov 4, 2019 @ 22:26:59.855	-	https (TCP/443)	TLS 1.2	C=AU, ST=Some-State, O=Internet Widgits Pty Ltd
> Nov 4, 2019 @ 22:26:59.840	-	https (TCP/443)	TLS 1.2	C=AU, ST=Some-State, O=Internet Widgits Pty Ltd
> Nov 4, 2019 @ 22:26:59.781	-	https (TCP/443)	TLS 1.2	C=AU, ST=Some-State, O=Internet Widgits Pty Ltd

https (TCP/443)

google-apps (TCP/5...

imaps (TCP/993)

tungsten-https (TCP...

xmpp-client (TCP/52...

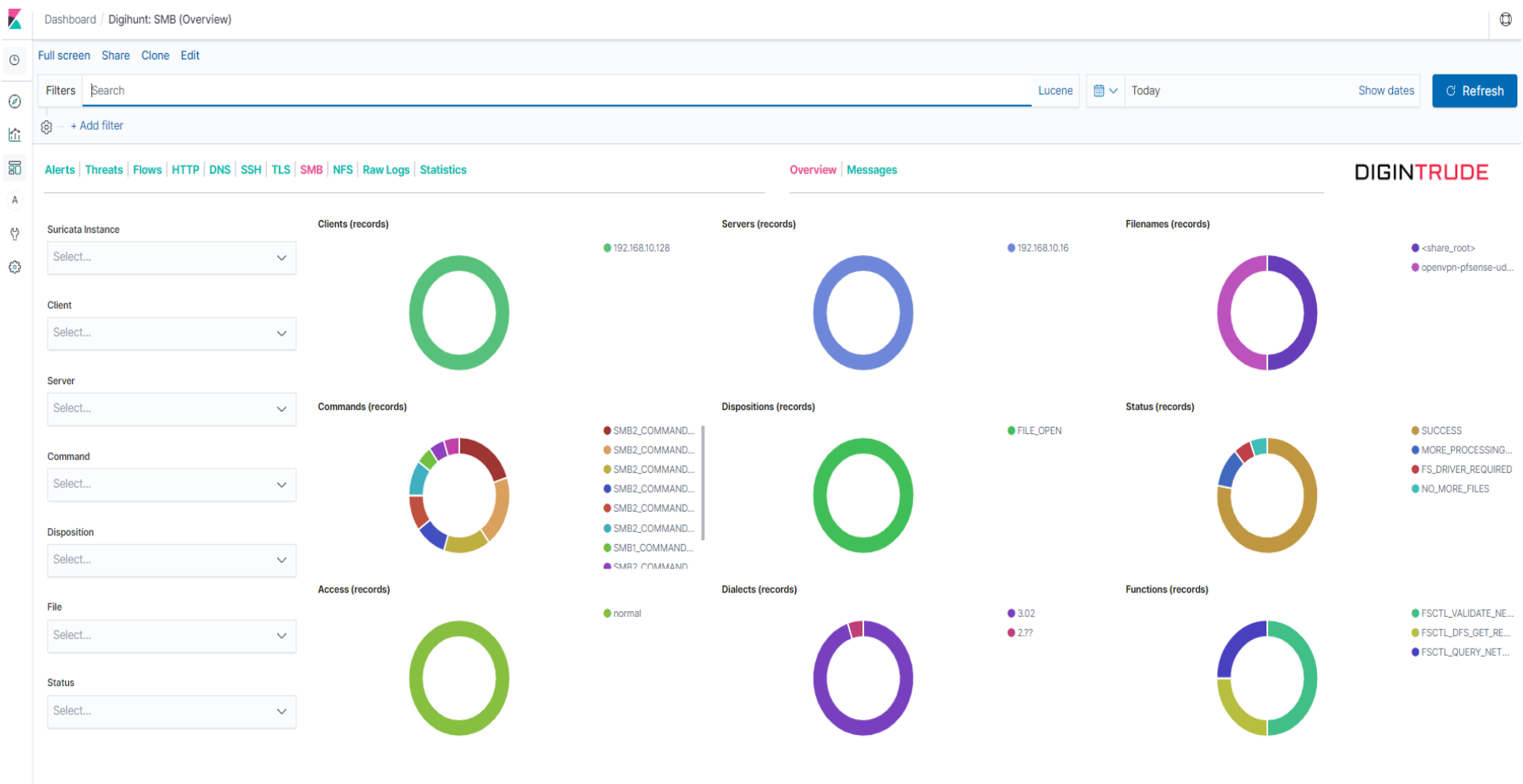
afs3-kaserver (TCP/...

1-50 of 17,747

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SMB – Overview

Overview tab visualizes SMB remote application services records overview dashboard by our Digihunt engine. It shows the visualization of all SMB related events in Clients, Servers, Filenames, Commands, Dispositions, Status, Access, Dialects, Functions. Add on the feature of filtering with show date and Search field.



SMB – Messages

Message tab visualizes SMB remote application services records details by our Digihunt engine. It shows the visualization of all SMB related records in Time, client_hostname, ssh.client.software_version, ssh.client.proto_version, server_hostname, ssh.server.software_version, ssh.server.proto_version fields. This also draws a statistical analysis graph of applications according to real-time and timespan searches.

Dashboard / Digihunt: SSH (Messages)

Full screen | Share | Clone | Edit

Filters | Search | Lucene | Today | Show dates | Refresh

+ Add filter

Alerts | Threats | Flows | HTTP | DNS | SSH | TLS | SMB | NFS | Raw Logs | Statistics

Overview | Messages

DIGINTRUDE

Suricata Instance

Select...

Client

Select...

Client Software

Select...

Server

Select...

Server Software

Select...

SSH Logs

1

OpenSSH_7.6p1 Ubu... 0

Time	client_hostname	ssh.client.software_version	ssh.client.proto_version	server_hostname	ssh.server.software_version	ssh.server.proto_version
> Nov 4, 2019 @ 22:25:51.092	10.212.134.100	PuTTY_Release_0.70	2.0	192.168.10.108	OpenSSH_7.6p1 Ubuntu-4ubuntu0.3	2.0

Raw Logs

Raw Logs tab visualize logs application services records details by our Digihunt engine. It shows the visualization of all SMB related records in Time, node.hostname, log_severity, event.subtype, client_hostname, server_hostname, service_name, flow.bytes, flow pkts fields. This also draws a statistical analysis graph of applications according to real-time and timespan searches.

Dashboard / Digihunt: Raw Logs

Full screen

Share

Clone

Edit

Filters

Search

Lucene

Today

Show dates

Refresh

+ Add filter

Alerts

Threats

Flows

HTTP

DNS

SSH

TLS

SMB

NFS

Raw Logs

Statistics

DIGINTRUDE

Suricata Instance

Select...

Log Type

Select...

Client

Select...

Server

Select...

Service

Select...

Alert Category

Select...

Alert Signature

Select...

IP Reputation

Select...

Logs

580,569

50,000

40,000

30,000

20,000

10,000

0

00:00

02:00

04:00

06:00

08:00

10:00

12:00

14:00

16:00

18:00

20:00

22:00

per 10 minutes

flow

0

dns

0

alert

0

tls

0

http

0

fileinfo

0

1-50 of 580,569

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Time	node.hostname	log.severity	event.subtype	client_hostname	server_hostname	service_name	flow.bytes	flow.pkts
> Nov 4, 2019 @ 22:33:00.734	digi-hunts	informational	dns	192.168.10.253	202.53.9.2	dns (UDP/53)	-	-
> Nov 4, 2019 @ 22:32:59.000	digi-hunts	informational	flow	192.168.10.128	192.168.11.4	TCP/49154	380B	5
> Nov 4, 2019 @ 22:32:59.000	digi-hunts	informational	flow	192.168.11.200	192.168.11.5	elastic-beats (TCP/5044)	17.87KB	14
> Nov 4, 2019 @ 22:32:59.000	digi-hunts	informational	flow	192.168.10.4	192.168.11.5	elastic-beats (TCP/5044)	17.87KB	14
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	192.168.9.11	8.8.8.8	dns (UDP/53)	221B	2
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	192.168.10.128	172.16.1.1	microsoft-ds (TCP/445)	198B	3
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	192.168.10.128	172.16.2.1	microsoft-ds (TCP/445)	198B	3
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	192.168.14.51	192.168.10.4	ldap (TCP/389)	2.39KB	5
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	192.168.14.51	192.168.10.4	ldap (TCP/389)	2.39KB	5
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	192.168.11.10	192.168.11.5	elastic-beats (TCP/5044)	553B	6
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)	420B	4
> Nov 4, 2019 @ 22:32:58.000	digi-hunts	informational	flow	192.168.11.200	192.168.11.5	elastic-beats (TCP/5044)	1.85KB	5
> Nov 4, 2019 @ 22:32:57.431	digi-hunts	warning	alert	10.212.134.100	192.168.11.4	iscsi-target (TCP/3260)	420B	4

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