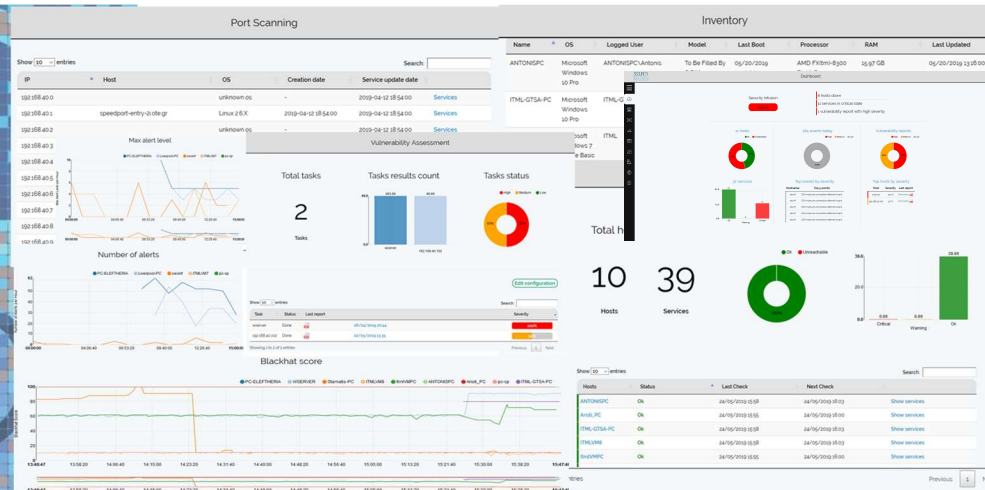


# Security Infusion Presentation

March 2020



## ITML - The Company



Tailor-made software solutions for cutting edge R&D and smart B2B applications

- Founded in 2011, headquartered in Athens, Greece
- Team: 25 ppl., avg. 70% annual headcount growth for the last two years
- Projected 2019 Turnover: 1.5M€, 100+% year over year sustained growth the last 2 years



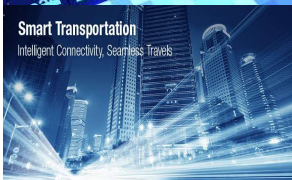
### Research and innovation intensity



8 Big Data ongoing projects,  
ITML budget €1.4M



4 Cybersecurity ongoing projects,  
ITML budget €1M



6 Smart Transportation ongoing projects,  
ITML budget €1.2M

### Big Data Analytics

On demand analytics  
Consumer Insights  
Data Fusion

### Cyber Security

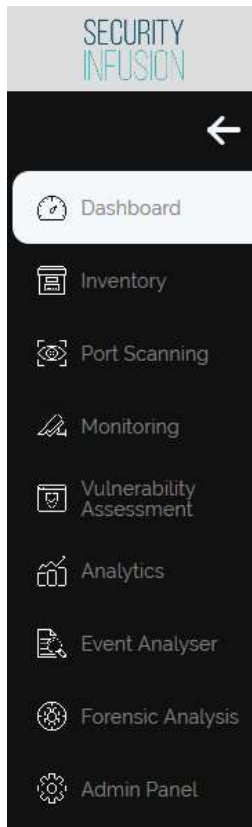
Security Information management  
Cyber Security Training

### Maritime Solutions

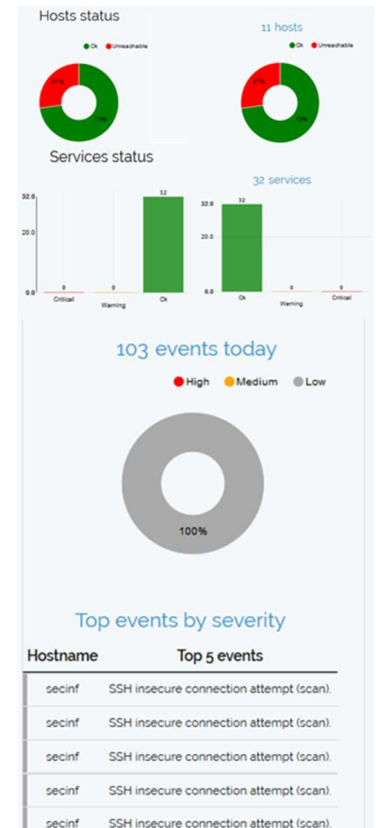
MRV Solution  
Vessels Monitoring  
ATMOS Cargo Heating



## ► Features

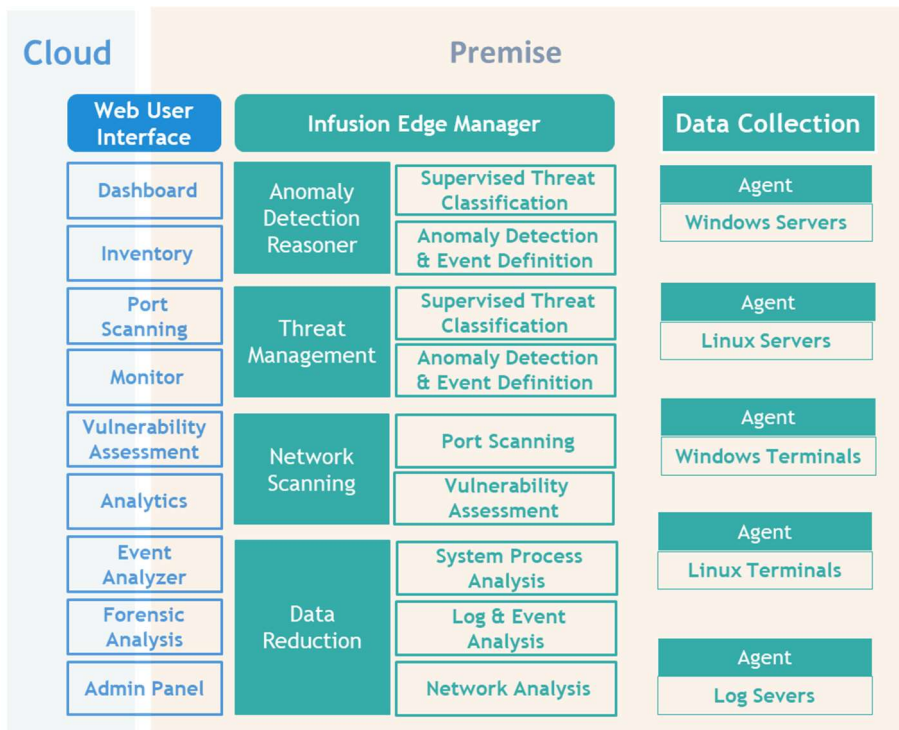


- Simple, effective and affordable Software As A Service solution for real time IT monitoring and IT security risk mitigation.
- Operational data collected by agents running on target systems (hosts)
- The Infusion Manager, deployed either through the cloud or at the edge of an organization's infrastructure, accumulates and processes collected data
- Built-in capabilities for event management, forensic analysis & vulnerability scans
- Data analytics and machine learning technologies applied for enhanced situational awareness and response

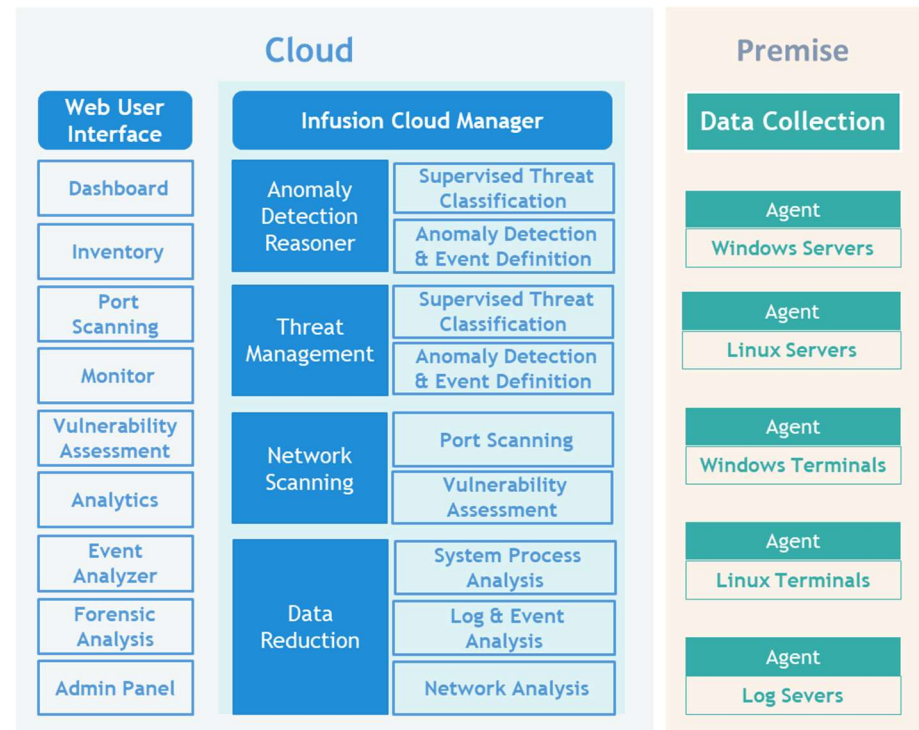


## ► Operational Layers & Deployment : Edge & Cloud

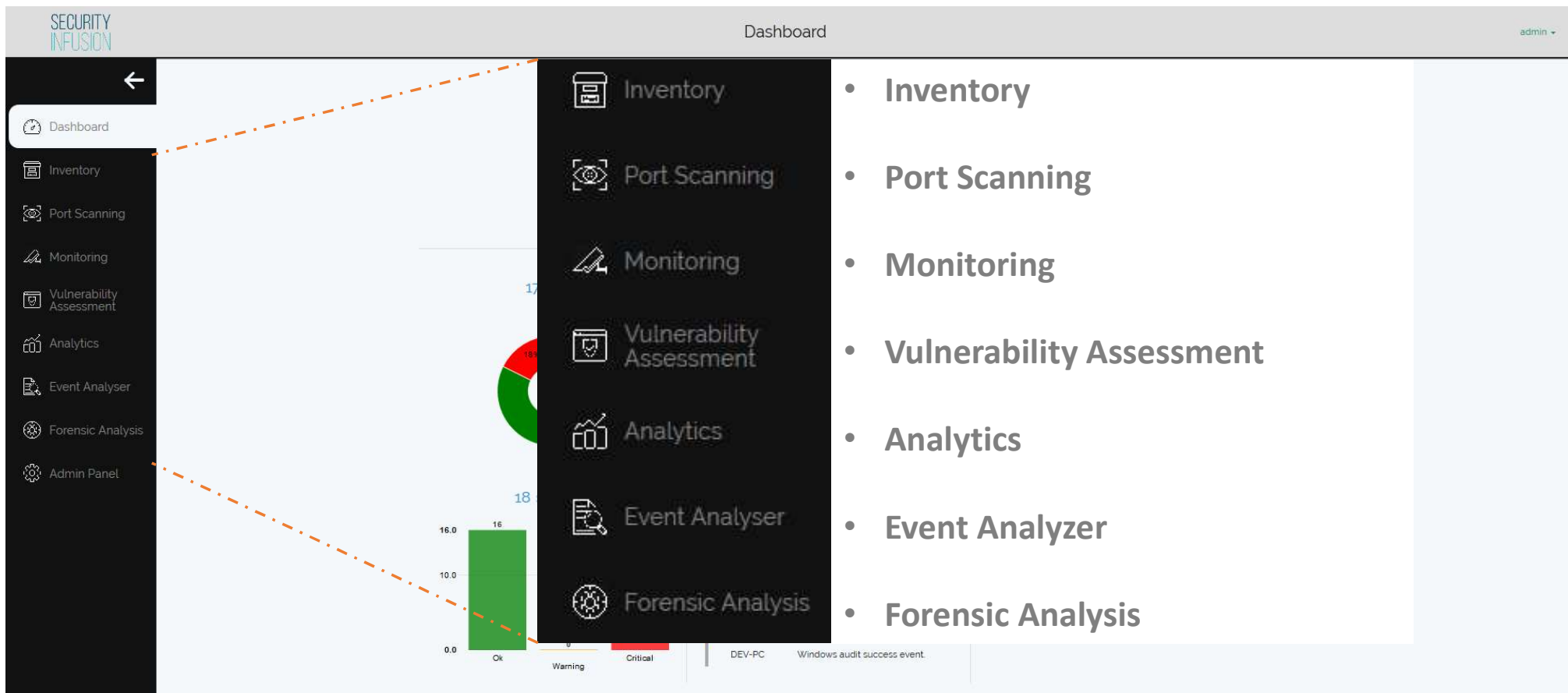
### Edge Deployment



### Cloud Deployment



## ► Functions



The screenshot displays the Security Infusion dashboard. On the left is a dark sidebar menu with a back arrow and a list of functions: Dashboard, Inventory, Port Scanning, Monitoring, Vulnerability Assessment, Analytics, Event Analyser, Forensic Analysis, and Admin Panel. The main dashboard area features a top header with the 'SECURITY INFUSION' logo, the word 'Dashboard', and a user profile 'admin'. Below the header, there are several data visualizations: a donut chart with segments in blue, red, and green; a bar chart with a green bar reaching 16.0 on a scale from 0.0 to 16.0; and a status bar with 'Ok', 'Warning', and 'Critical' indicators. A table at the bottom shows system events, including 'DEV-PC' and 'Windows audit success event'. On the right, a white panel lists the functions available in the system:

- Inventory
- Port Scanning
- Monitoring
- Vulnerability Assessment
- Analytics
- Event Analyzer
- Forensic Analysis



## ► Functions' Detail

- **Inventory :** Complete listing of each host's fundamentals and resources
- **Port Scanning:** IP-based, hosts' services tracing, initiated by the Infusion Edge Manager as an agent independent, externally driven scan
- **Monitoring:** Real time status and details of system services on monitored hosts
- **Vulnerability Assessment:** Agent independent, Manager initiated, scan for common, publicly defined, vulnerabilities issues. Technical Report generation
- **Analytics:** Real time or historical presentation of host systems' operation
- **Event Analyzer:** Event surveillance, gathering and classification. Configuration of related alerts
- **Forensic Analysis:** Real time or historical, individual and group blackhat scoring. Time related System status, handles, connections and related information analysis

## ► Dashboard

Aggregates important information to offer a concentrated overview of the monitored infrastructure's status and a central navigation pane.

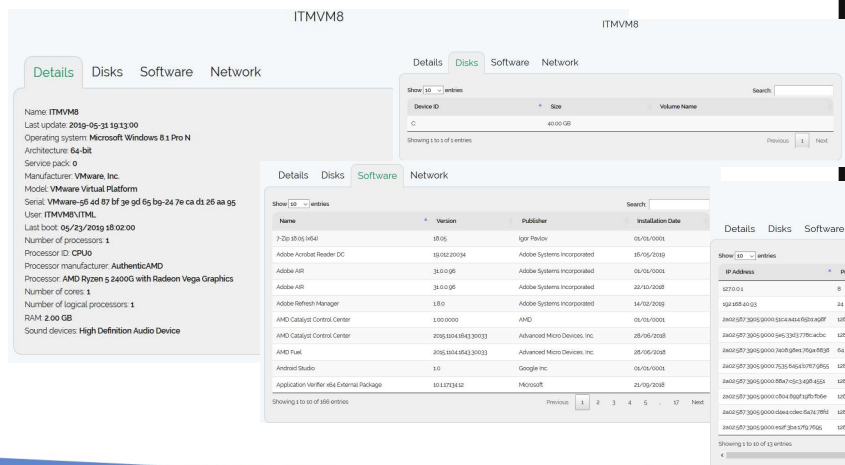
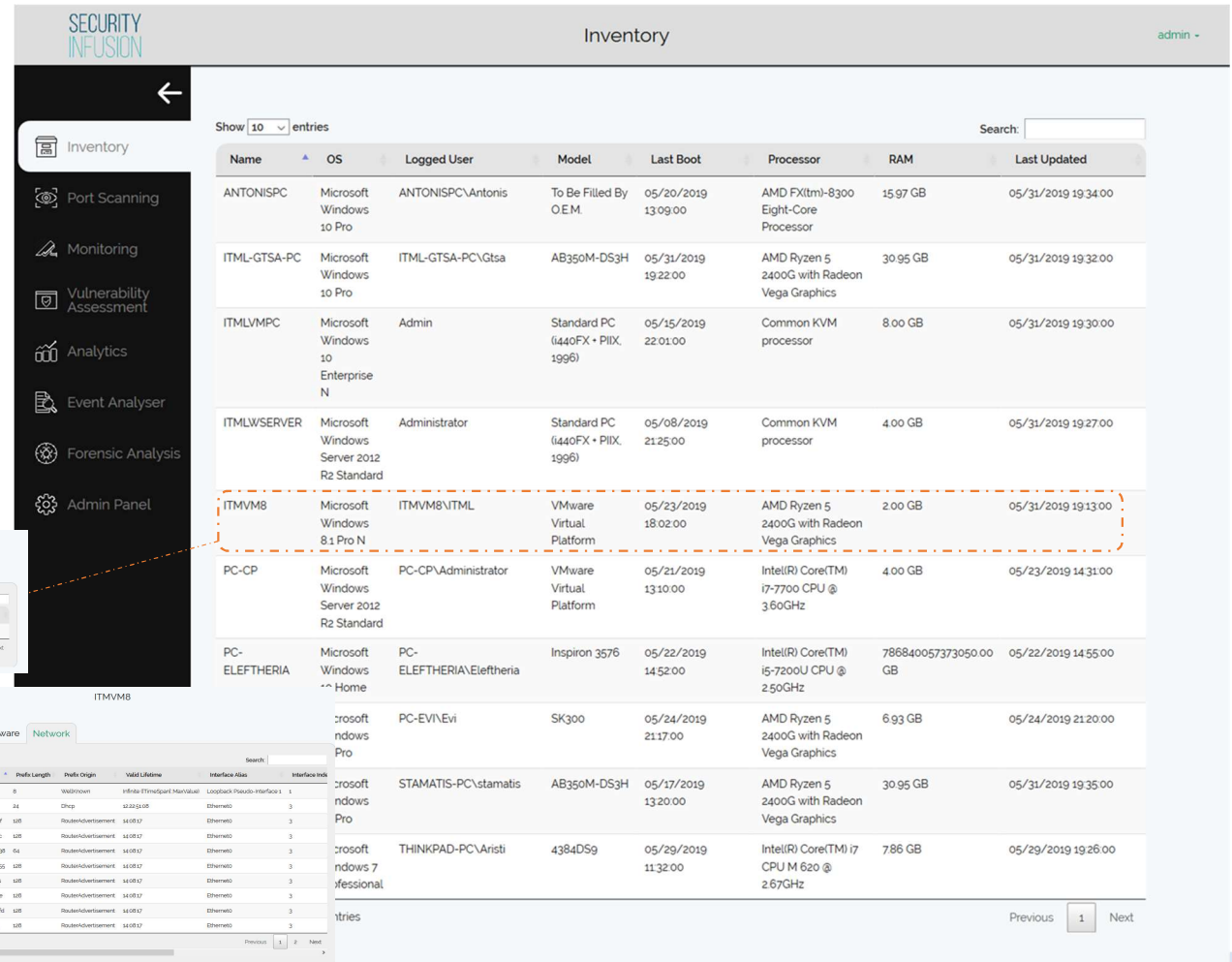
- Hosts Status
- Services
- Events
- Vulnerabilities



## ► Inventory

Infusion Inventory sets the base for the proper asset management of the underlying infrastructure

- Hardware Assets
- Software Assets
- Internal Storage
- Network

Name	OS	Logged User	Model	Last Boot	Processor	RAM	Last Updated
ANTONISPC	Microsoft Windows 10 Pro	ANTONISPC\Antonis	To Be Filled By O.E.M.	05/20/2019 13:09:00	AMD FX(tm)-8300 Eight-Core Processor	15.97 GB	05/31/2019 19:34:00
ITML-GTSA-PC	Microsoft Windows 10 Pro	ITML-GTSA-PC\Gtsa	AB350M-DS3H	05/31/2019 19:22:00	AMD Ryzen 5 2400G with Radeon Vega Graphics	30.95 GB	05/31/2019 19:32:00
ITMLVMPC	Microsoft Windows 10 Enterprise N	Admin	Standard PC (i440FX + PIIX, 1996)	05/15/2019 22:01:00	Common KVM processor	8.00 GB	05/31/2019 19:30:00
ITMLW/SERVER	Microsoft Windows Server 2012 R2 Standard	Administrator	Standard PC (i440FX + PIIX, 1996)	05/08/2019 21:25:00	Common KVM processor	4.00 GB	05/31/2019 19:27:00
ITMVM8	Microsoft Windows 8.1 Pro N	ITMVM8\ITML	VMware Virtual Platform	05/23/2019 18:02:00	AMD Ryzen 5 2400G with Radeon Vega Graphics	2.00 GB	05/31/2019 19:13:00
PC-CP	Microsoft Windows Server 2012 R2 Standard	PC-CP\Administrator	VMware Virtual Platform	05/21/2019 13:10:00	Intel(R) Core(TM) i7-7700 CPU @ 3.60GHz	4.00 GB	05/23/2019 14:31:00
PC-ELEFThERIA	Microsoft Windows 10 Home	PC-ELEFThERIA\Eleftheria	Inspiron 3576	05/22/2019 14:52:00	Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz	786840057373050.00 GB	05/22/2019 14:55:00
PC-EVILEvi	Microsoft Windows 10 Pro	PC-EVILEvi	SK300	05/24/2019 21:17:00	AMD Ryzen 5 2400G with Radeon Vega Graphics	6.93 GB	05/24/2019 21:20:00
STAMATIS-PC	Microsoft Windows 10 Pro	STAMATIS-PC\stamatis	AB350M-DS3H	05/17/2019 13:20:00	AMD Ryzen 5 2400G with Radeon Vega Graphics	30.95 GB	05/31/2019 19:35:00
THINKPAD-PC	Microsoft Windows 7 Professional	THINKPAD-PC\Aristi	4384DS9	05/29/2019 11:32:00	Intel(R) Core(TM) i7 CPU M 620 @ 2.67GHz	786 GB	05/29/2019 19:26:00



## ► Port Scanning

Ip-based, inbound scan of the LAN's devices' services for increased situational awareness

- Inspection of open ports
- Detection & Assessment of network services

SECURITY INFUSION

Inventory

Port Scanning

Monitoring

Vulnerability Assessment

Analytics

Event Analyser

Forensic Analysis

Admin Panel

Port Scanning

Show 10 entries

Search:

IP	Host	OS	Creation date	Service update date	Services
192.168.40.0		unknown os	-	2019-04-12 18:54:00	<a href="#">Services</a>
192.168.40.1	speedport-entry-2i.ote.gr	Linux 2.6.X	2019-04-12 18:54:00	2019-04-12 18:54:00	<a href="#">Services</a>
192.168.40.2		unknown os	-	2019-04-12 18:54:00	<a href="#">Services</a>
192.168.40.3	0	unknown os	-	2019-04-16 12:11:00	<a href="#">Services</a>
192.168.40.4	huawei_p20_lite-8d1dfe19b	unknown os	-	2019-05-16 18:09:00	<a href="#">Services</a>
192.168.40.5	vhatzvoip	Linux 2.6.X	2019-04-16 12:11:00	2019-04-16 12:11:00	<a href="#">Services</a>
192.168.40.6		unknown os	-	2019-04-12 18:54:00	<a href="#">Services</a>
192.168.40.7		unknown os	-	2019-05-18 06:08:00	<a href="#">Services</a>
192.168.40.8	huawei_p8_lite	unknown os	-	2019-05-29 21:42:00	<a href="#">Services</a>
192.168.40.9	0	Windows XP	2019-05-17 18:12:00	2019-05-17 18:12:00	<a href="#">Services</a>

Showing 1 to 10 of 256 entries

Previous

1

2

3

4

5

26

Next

Services for: 192.168.40.1

Show 10 entries

Search:

Service	State	Port	Protocol	Version	Banner	Update date
domain	up	53	tcp	9.X	ISC BIND	Fri Apr 12 18:54:12 2019
http	up	80	tcp	1.0	Mini web server	Fri Apr 12 18:54:12 2019
http	up	443	tcp	1.0	Mini web server	Fri Apr 12 18:54:12 2019

Showing 1 to 3 of 3 entries

Previous

1

Next

## ► Monitoring

Monitor the operational status of the basic infrastructure elements and their services along with early warning in case of downtime or other critical status level

- Host Status
- Service Status
- Alerts (email & Slack)

Services for all hosts:


Show  entries

Search:

Host Name	Service	Status	Last update	Next update
Aristi_PC	CNSClient+ Version	Critical	04/06/2019 12:39	04/06/2019 12:49
Aristi_PC	Explorer	Critical	04/06/2019 12:39	04/06/2019 12:49
Aristi_PC	OSSEC Agent	Critical	04/06/2019 12:39	04/06/2019 12:49
Aristi_PC	Security Infusion Agent	Critical	04/06/2019 12:39	04/06/2019 12:49
ANTONISPC	C:\ Drive Space	Ok	04/06/2019 12:42	04/06/2019 12:52
ANTONISPC	CNSClient+ Version	Ok	04/06/2019 12:39	04/06/2019 12:49
ANTONISPC	CPU Load	Ok	04/06/2019 12:42	04/06/2019 12:52
ANTONISPC	Memory Usage	Ok	04/06/2019 12:44	04/06/2019 12:54
ANTONISPC	OSSEC Agent	Ok	04/06/2019 12:39	04/06/2019 12:49
ANTONISPC	Security Infusion Agent	Ok	04/06/2019 12:39	04/06/2019 12:49

Showing 1 to 10 of 39 entries

Previous     Next



Dashboard
Inventory
Port Scanning
Monitoring
Vulnerability Assessment
Analytics
Event Analyser
Forensic Analysis
Admin Panel

### Monitoring

Total hosts & services

9

Hosts

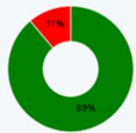
12

Services

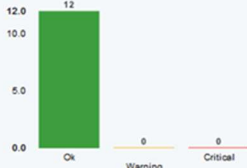
Hosts status

Ok

Unreachable



Services status



Show  entries

Search:

Hosts	Status	Last Check	Next Check	
Andreas-Linux-VM	Unreachable	08/10/2019 10:44	08/10/2019 10:49	Show services
ITML-GTSA-PC	Ok	08/10/2019 10:40	08/10/2019 10:51	Show services
ITMLVMP	Ok	08/10/2019 10:40	08/10/2019 10:51	Show services
ITMLWSERVER	Ok	08/10/2019 10:40	08/10/2019 10:51	Show services
Orca-Server	Ok	08/10/2019 10:40	08/10/2019 10:51	Show services
Stamatis	Ok	08/10/2019 10:45	08/10/2019 10:50	Show services
TSAKTOP	Ok	08/10/2019 10:43	08/10/2019 10:48	Show services
localhost	Ok	08/10/2019 10:43	08/10/2019 10:48	Show services
secinf-server	Ok	08/10/2019 10:40	08/10/2019 10:51	Show services

Showing 1 to 9 of 9 entries

Previous  Next

#### ITML-GTSA-PC details

Notifications enabled: **false**  
Has Problem: **false**  
Active checks enabled: **true**  
Passive checks enabled: **true**  
Event handler enabled: **true**  
Process performance data: **true**

Close

## ► Vulnerability Assessment

Scan for publicly known and reported vulnerability issues (i.e. CVE® lists) to detect soft points and operational issues. Impact assessment and remedies' suggestions on the soft points of the infrastructure

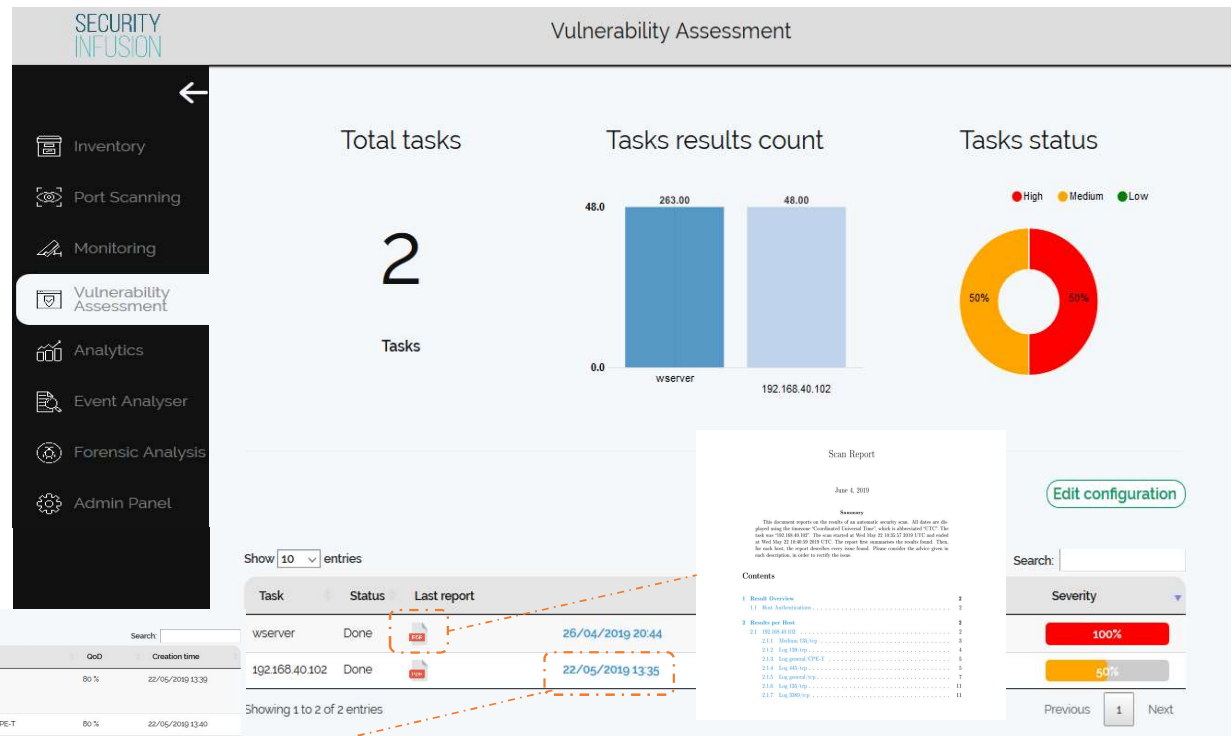
- Operating System level vulnerabilities
- Services Level Vulnerabilities (http, smtp, etc.)
- Report Generation

Last report for 192.168.40.102:

Report name	Severity	Port	QoS	Creation time
DCE/RPC and MSRPC Services Enumeration Reporting	0.0	135/tcp	80 %	22/05/2019 13:39
CPE Inventory	0.0	general/CPE-T	80 %	22/05/2019 13:40
DCE/RPC and MSRPC Services Enumeration	0.0	135/tcp	80 %	22/05/2019 13:37
Microsoft Remote Desktop Protocol Detection	0.0	3389/tcp	80 %	22/05/2019 13:37
OS Detection Consolidation and Reporting	0.0	general/tcp	80 %	22/05/2019 13:39
Services	0.0	3389/tcp	80 %	22/05/2019 13:36
SMB log in	0.0	445/tcp	97 %	22/05/2019 13:38
SMB Login Failed For Authenticated Checks	0.0	445/tcp	80 %	22/05/2019 13:39
SMB Native LanMan	0.0	445/tcp	95 %	22/05/2019 13:38
SMB Remote Version Detection	0.0	445/tcp	80 %	22/05/2019 13:39

Showing 1 to 10 of 21 entries

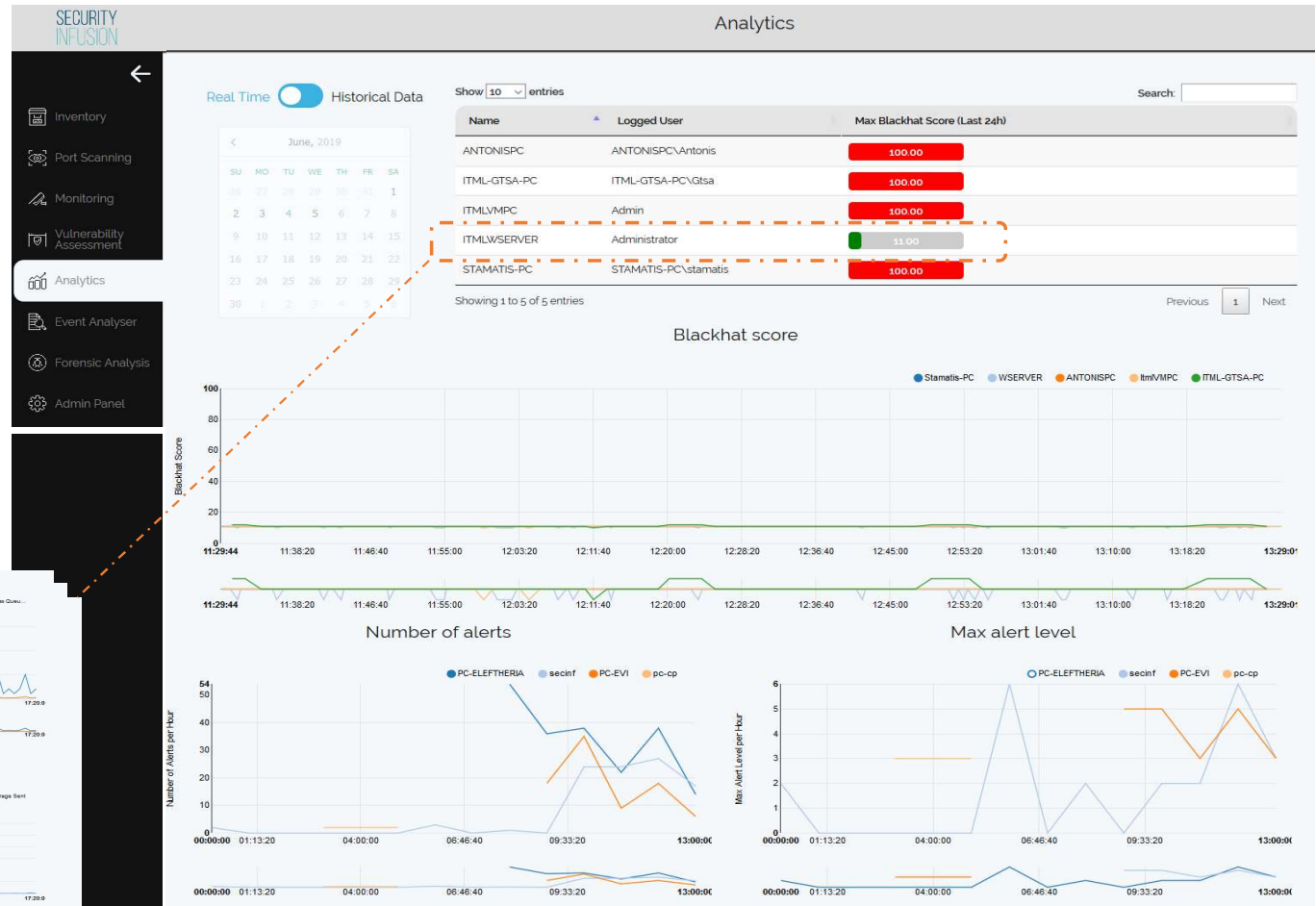
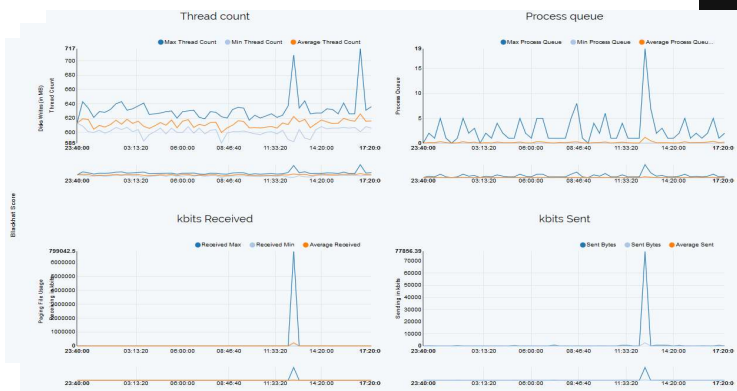
Previous 1 2 3 Next



## ► Analytics

Profiling and performance management of Hosts through the Black Hat scoring scale (black hat = hacker). The lowest the score the better. Details concerning assets and operations visualized in an intuitive UI.

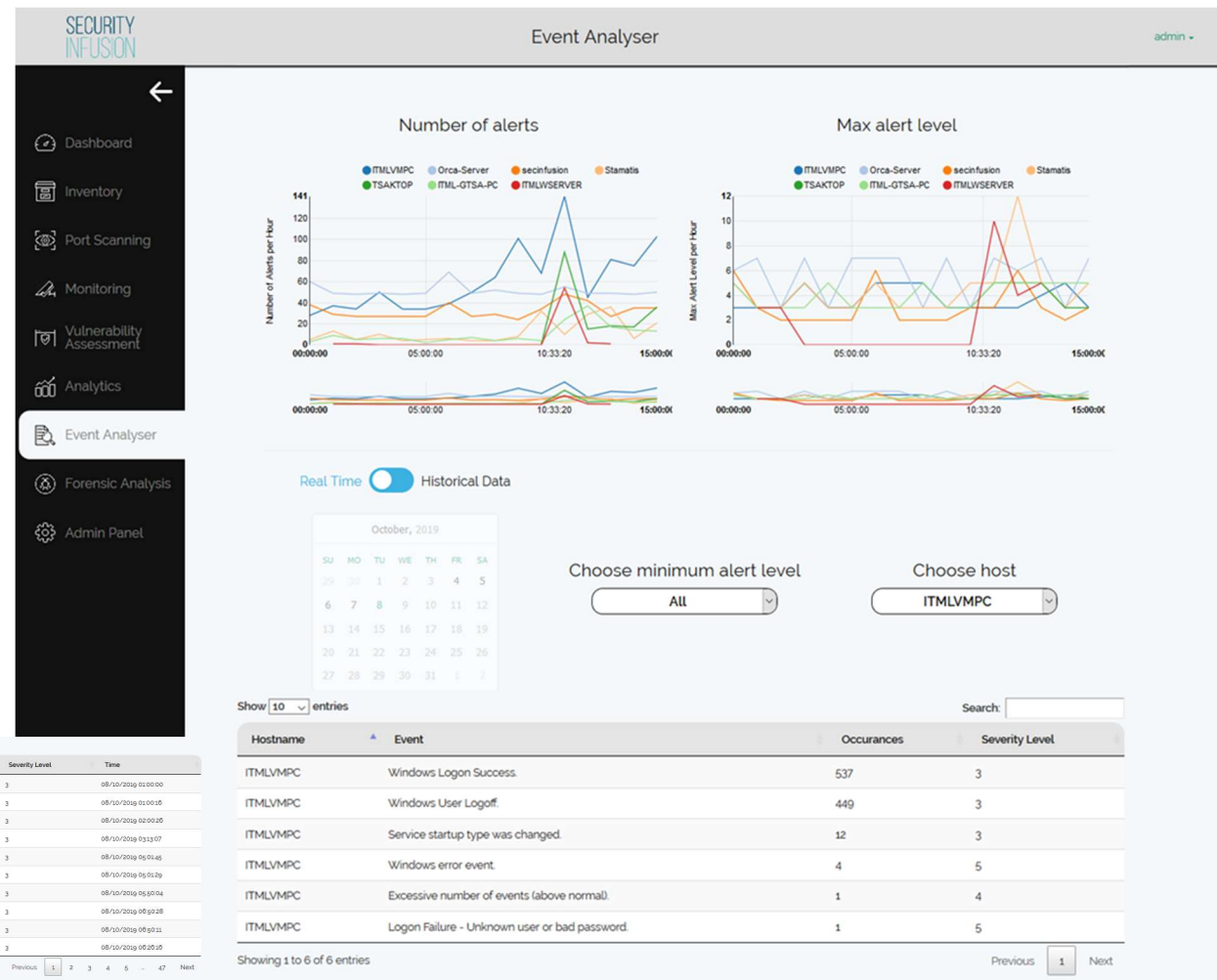
- System Profiling
- Processes analysis
- Performance Visualization



## ► Event Analyzer

Accumulation and classification of Hosts events, including file integrity, logs, rootcheck and processes. built on open components (i.e. OSSEC toolkit). Rule based alerts for active response where needed.

- log analysis
- file integrity
- Windows registry monitoring
- rootkit detection
- Support and protection on multiple operating systems



Windows User Logoff.

08/10/2019 01:00:16

Severity Level: 3

Time: Fixed 3

Group: windows

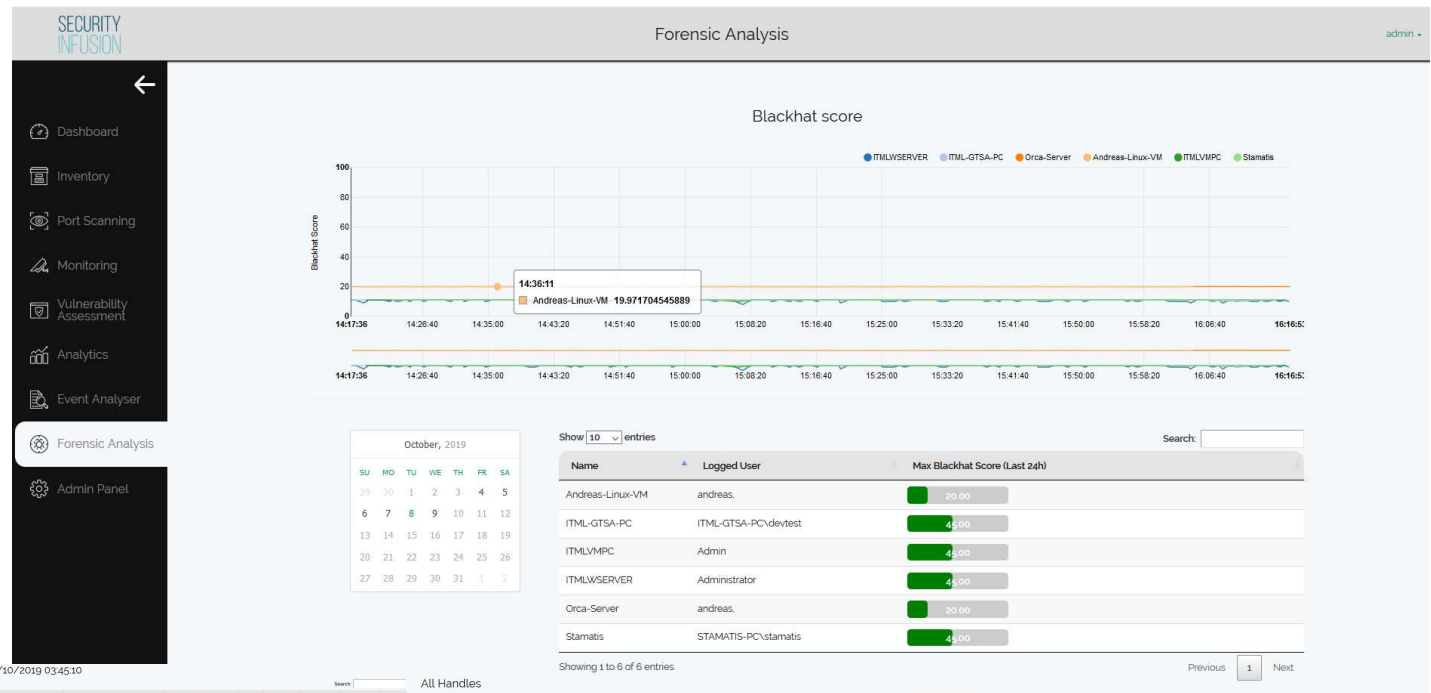
Event Details: 2019-10-08 01:00:13 WinEvtLog Security: AUDIT\_SUCCESS(0x0) Microsoft-Windows-Security-Auditing: ANONYMOUS LOGON NT AUTHORITY\SYSTEM: An account was logged off. Subject: Security ID 5-1-7 Account Name: ANONYMOUS LOGON Account Domain: NT AUTHORITY Logon ID: 0x00000000 Logon Type: 3 This event is generated when a logon session is destroyed. It may be associated with a logon event using the Logon ID value. Logon IDs are only unique between records on the same computer.



## ► Forensic Analysis

Real time or historical snapshots of the hosts with detailed analysis on processes and features. Allows thorough & precise retrospective on operational events & impact

- System Score
- Status
- Handles
- Connections
- General system info



**Information**

Available RAM: 4.853390035 GB

CPU: 75.14%

Handle Count: 7895

Paging File Usage: 2.0036313

Disk Queue: 0.204789281

Disk Reads: 314727

Disk Time: 10.2394598

Disk Writes: 163672.5

Processes Count: 369

Processes Queue Length: 0

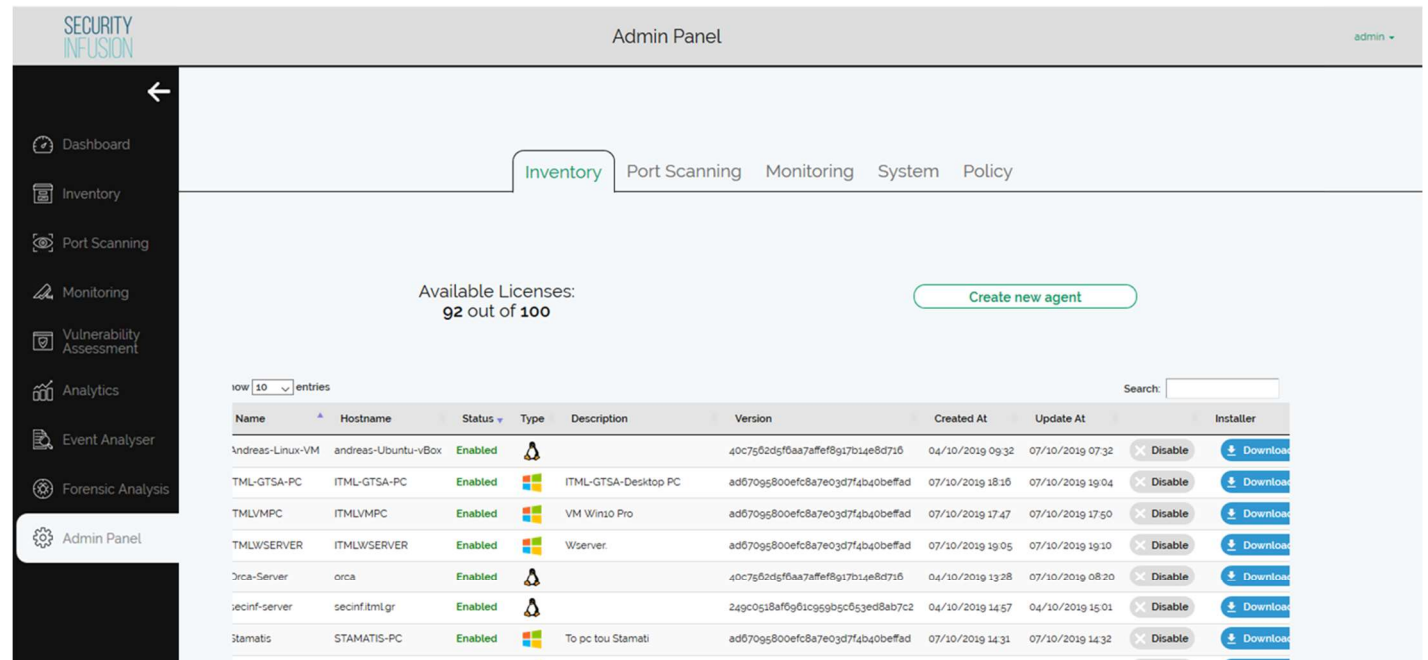
Thread Count: 1770

Timestamp: 08/10/2019 03:45:10

## ► Administration

Manage Hosts, agents, port scanning scans, notifications, alerts and policies concerning the running of the application

- Agents & Inventory management
- Port Scanning settings
- Monitored Services & Notifications
- Infusion System status
- Policies



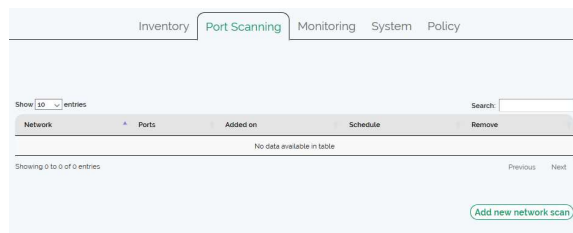
**Admin Panel** admin ▼

**Inventory** | Port Scanning | Monitoring | System | Policy

Available Licenses: **92 out of 100** [Create new agent](#)

Show **10** entries

Name	Hostname	Status	Type	Description	Version	Created At	Update At	Installer
andreas-Linux-VM	andreas-Ubuntu-vBox	Enabled	Linux		40c75d2d5f0aa7affef8917b14e8d71d	04/10/2019 09:32	07/10/2019 07:32	<a href="#">Disable</a> <a href="#">Download</a>
ITML-GTSA-PC	ITML-GTSA-PC	Enabled	Windows	ITML-GTSA-Desktop PC	ad67095800efc8a7e03d7f4b40befad	07/10/2019 18:16	07/10/2019 19:04	<a href="#">Disable</a> <a href="#">Download</a>
ITMLVMPC	ITMLVMPC	Enabled	Windows	VM Win10 Pro	ad67095800efc8a7e03d7f4b40befad	07/10/2019 17:47	07/10/2019 17:50	<a href="#">Disable</a> <a href="#">Download</a>
ITMLWSERVER	ITMLWSERVER	Enabled	Windows	Wserver	ad67095800efc8a7e03d7f4b40befad	07/10/2019 19:05	07/10/2019 19:10	<a href="#">Disable</a> <a href="#">Download</a>
orca-Server	orca	Enabled	Linux		40c75d2d5f0aa7affef8917b14e8d71d	04/10/2019 13:28	07/10/2019 08:20	<a href="#">Disable</a> <a href="#">Download</a>
secinf-server	secinf.itml.gr	Enabled	Linux		249c0518af0901c959b5c653ed8ab7c2	04/10/2019 14:57	04/10/2019 15:01	<a href="#">Disable</a> <a href="#">Download</a>
stamatis	STAMATIS-PC	Enabled	Windows	To pc tou Stamati	ad67095800efc8a7e03d7f4b40befad	07/10/2019 14:31	07/10/2019 14:32	<a href="#">Disable</a> <a href="#">Download</a>



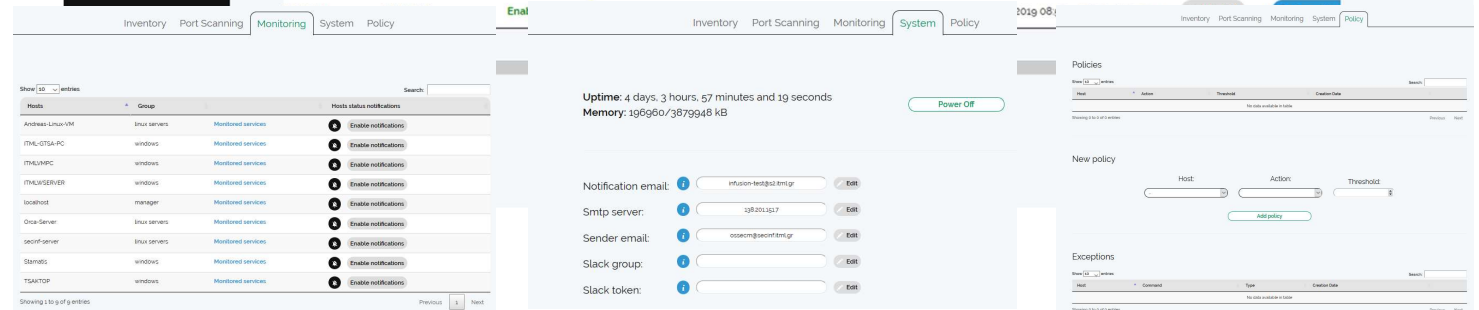
**Port Scanning** | Inventory | Monitoring | System | Policy

Show **10** entries

**Network** | Ports | Added on | Schedule | Remove

No data available in table

[Add new network scan](#)



**System** | Inventory | Port Scanning | Monitoring | Policy

Uptime: 4 days, 3 hours, 57 minutes and 19 seconds  
Memory: 196960/3879946 KB [Power Off](#)

Notification email:  [Edit](#)

Smtp server:  [Edit](#)

Sender email:  [Edit](#)

Slack group:  [Edit](#)

Slack token:  [Edit](#)

**Policies**

New policy

Host:  Action:  Threshold:

[Add policy](#)

**Exceptions**

Host:  Command:  Type:  Creation Date:

[Add exception](#)

# SECURITY INFUSION



# SECURITY INFUSION

