Softwares para Monitoramento da Segurança

Centro de TI – RP - USP MSc. Eng. Ali Faiez Taha aftaha@usp.br

São Paulo, 25 de Abril de 2017



Softwares para monitoramento da Segurança

Objetivos:

- Monitorar Serviços de Rede, Servidores, Vulnerabilidades, Vírus,
 Malwares, Scan na Rede, Intrusão, Ameaças, etc.
- Detectar e identificar padrões encontrados nos Incidentes de Segurança.
- Análise de tráfego anômalo.
- Detecção do ponto de falha e correção.
- Alertas e recomendações.
- Aprimorar a Segurança na USPnet.

Armazenamento de Logs

Objetivos:

- Coletar logs de autenticação de usuários Wireless USPnet
- Gateways da Wireless USPnet enviam Logs para Gateways Pfsenses.
- Armazena logs em banco de dados
- Relaciona diferentes níveis de logs, usuários conectados na Wireless, datas e horários, Endereços IP, Logins, Mac Address, etc.

^{*} Não possui logs da EDUROAM.

Recomendações para os Logs

- NBR ISO/IEC 17799 recomenda fortemente o armazenamento de Logs.
- ISO/IEC 27002 estabelece a proteção das informações dos registros dos sistemas operacionais e de informação.

Deve-se armazenar:

- datas e horários de entrada e saída no sistema;
- Identidades e localização;
- Registro das tentativas de acesso ao sistema;
- Registro das tentativas de acesso a outros recursos e dados;
- Registros de auditoria e coleta de evidências.
- Registros para a geração de evidências e técnicas de fraude computacionais e na informática forense.

PHP Syslog-NG

- Syslog-ng possui muitas vantagens sobre o syslog tradicional.
- Formato das mensagens usando Unix shell-like
- Múltiplos destinos de mensagens.
- Envia mensagens para aplicações locais.
- Suporte ao controle de fluxo das mensagens.
- Registra logs diretamente em banco de dados.
- Classifica as mensagens de logs ao mesmo tempo que extrai informações estruturadas de mensagens syslogs desestruturadas.
- Processa mensagens estruturadas. Exemplo: extrair colunas de arquivos CSV.

Logout Search Config Help	About												
	(Dados de Rede dos Gateways	s) (Relação de Gateways)										
USING TABLE: logs													
USING CACHE TO POPULATE HOST, FACILITY, AND PROGRAM FIELDS. Cache last updated on 2017-04-04 09:10:42.													
HOSTS:	: 19	PRO Include	GRAMS: 21	SYSLOG FACILITY:	SYSLOG PRIORITY:								
		Exclude		Include 🔾	Include 🔵								
Exclude RegExp Matching?		RegExp Matching?	•	Exclude •	Exclude •								
				auth	debug								
Hostname match		Program match		console cron	info notice								
====AND===== gwce		====AND=====		daemon	warning								
gwcr			check_reload_st	kern	err								
gwfd gwrp			cron dnsmasq	local4	crit								
gwrp			filterdns	local5	alert								
gwrp			kernel	ntp 🔻	emerg								
DATE From: To:	TIME	Wed Day		RECORDS PEI TopX ORDER BY SEARCH ORD	R PAGE 1000 ▼ 10 ▼ datetime ▼ DESC ▼								
		SEARCH M	ESSAGE:										
	Exclude RegExp			AND									
	Exclude RegExp			AND									
	Exclude RegExp												
		Search Tail (Graph Reset										

L	.ogout	Search	Config	Help Abo	ıt
					(Dados de Rede dos Gateways) (Relação de Gateways)
	K TO SEA	RCH ries Found:	122		SEVERITY LEGEND DEBUG INFO NOTICE WARNING ERROR CRIT ALERT EMERG
				DDOCDAM	MESSAGE
	HOST gwcreu		DATE TIME 11:30:21		h Zone: uspnet - FAILURE: aloliveira @cirp.usp.br, , 172.16.75.57
	gwcreu		11:27:24		h Zone: uspnet - TIMEOUT: fabrileo@rp.usp.br, , 172.16.73.215
	gwcreu		11:27:22		h Zone: uspnet - TIMEOUT: Leonara@rp.usp.br, , 172.16.74.113
	gwcreu		11:27:19		h Zone: uspnet - TIMEOUT: guilherme0016@rp.usp.br, , 172.16.77.204
	gwcreu		11:25:29		h Zone: uspnet - USER LOGIN: seninha@rp.usp.br, , 172.16.79.116
	gwcreu		11:24:15		h Zone: uspnet - TIMEOUT: bauducone@cirp.usp.br, , 172.16.76.7
	gwcreu		11:23:12		h Zone: uspnet - TIMEOUT: eheld@rp.usp.br, , 172.16.74.160
	gwcreu		11:21:08		h Zone: uspnet - TIMEOUT: luishpeixoto@rp.usp.br, , 172.16.73.6
	gwcreu		11:17:04		h Zone: uspnet - TIMEOUT: dadalt@rp.usp.br, , 172.16.79.154
	gwcreu		11:15:01		h Zone: uspnet - TIMEOUT: Willy@rp.usp.br, , 172.16.76.165
	gwcreu		11:10:57		h Zone: uspnet - TIMEOUT: juliamendez@rp.usp.br, , 172.16.74.231
	gwcreu		11:08:05		h Zone: uspnet - USER LOGIN: kamilloe10@rp.usp.br, , 172.16.75.168
N/A	gwcreu	local4	11:07:51	logportalaut	h Zone: uspnet - FAILURE: kamilloe10@rp.usp.br, , 172.16.75.168
N/A	gwcreu	local4	11:03:54	logportalaut	h Zone: uspnet - USER LOGIN: caroljanucci@rp.usp.br, , 172.16.75.13
N/A	gwcreu	local4	11:03:51	logportalaut	h Zone: uspnet - TIMEOUT: stedruzian@rp.usp.br, , 172.16.78.135
N/A	gwcreu	local4	11:03:48	logportalaut	h Zone: uspnet - TIMEOUT: Murilofaleiro@rp.usp.br, , 172.16.77.73
N/A	gwcreu	local4	10:59:22	logportalaut	h Zone: uspnet - USER LOGIN: jerodrigues@rp.usp.br, , 172.16.75.113
N/A	gwcreu	local4	10:56:42	logportalaut	h Zone: uspnet - TIMEOUT: janielfidelis@rp.usp.br, , 172.16.79.94
N/A	gwcreu	local4	10:55:37	logportalaut	h Zone: uspnet - USER LOGIN: libras@rp.usp.br, , 172.16.75.6
N/A	gwcreu	local4	10:54:38	logportalaut	h Zone: uspnet - TIMEOUT: assaoka@cirp.usp.br, , 172.16.78.104
N/A	gwcreu	local4	10:52:58	logportalaut	h Zone: uspnet - CONCURRENT LOGIN - TERMINATING OLD SESSION: bfreitas63@rp.usp.br, , 172.16.75.167
N/A	gwcreu	local4	10:52:55	logportalaut	h Zone: uspnet - USER LOGIN: bfreitas63@rp.usp.br, , 172.16.78.99
N/A	gwcreu	local4	10:50:19	logportalaut	h Zone: uspnet - USER LOGIN: lucianorosa, , 172.16.78.148
N/A	gwcreu	local4	10:48:01	logportalaut	h Zone: uspnet - USER LOGIN: 240830@rp.usp.br, , 172.16.73.26
N/A	gwcreu	local4	10:44:33	logportalaut	h Zone: uspnet - TIMEOUT: ninopirani@usp.br, , 172.16.73.18
Ν/Δ	awcreu	local4	10.41.58	lognortalaut	h Zone: uspnet - USER LOGIN: lauans@rp usp br 172 16 79 229

Possível ataque DNS-rebind

Logout Search Config Help About

(Dados de Rede dos Gateways) (Relação de Gateways)

BACK	TO SEARC	Н			SEVERITY LEGEND
Numbe	er of Entries	Found: 26			DEBUG INFO NOTICE WARNING ERROR CRIT ALERT EMERG
SEQ	HOST	FACILITY	DATE TIME	PROGRAM	MESSAGE
N/A	gw	daemon	11:32:23	dnsmasq	possible DNS-rebind attack detected: www.seriesfree.co.cc
N/A	gw	daemon	11:25:11	dnsmasq	possible DNS-rebind attack detected: ccs-pr-iaa.cloudapp.net
N/A	gw	daemon	11:09:00	dnsmasq	possible DNS-rebind attack detected: ccs-pr-iaa.cloudapp.net
N/A	gw	daemon	10:52:20	dnsmasq	possible DNS-rebind attack detected: ccs-pr-iaa.cloudapp.net
N/A	gw	daemon	10:47:21	dnsmasq	possible DNS-rebind attack detected: smartsourcestaging.dell.com
N/A	gw	daemon	10:41:59	dnsmasq	possible DNS-rebind attack detected: fbwallcheck.api-alliance.com
N/A	gw	daemon	10:41:59	dnsmasq	possible DNS-rebind attack detected: gwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: gwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: fbwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: gwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: fbwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: fbwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: gwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: fbwallcheck.api-alliance.com
N/A	gw	daemon	10:18:48	dnsmasq	possible DNS-rebind attack detected: gwallcheck.api-alliance.com
N/A	gw	daemon	09:53:54	dnsmasq	possible DNS-rebind attack detected: ccs-pr-iaa.cloudapp.net
N/A	gw	daemon	09:44:25	dnsmasq	possible DNS-rebind attack detected: smartsourcestaging.dell.com
N/A	gw	daemon	09:40:57	dnsmasq	possible DNS-rebind attack detected: smartsourcestaging.dell.com
N/A	gw	daemon	09:37:30	dnsmasq	possible DNS-rebind attack detected: ccs-pr-iaa.cloudapp.net
N/A	gw	daemon	09:31:14	dnsmasq	possible DNS-rebind attack detected: smartsourcestaging.dell.com
N/A	gw	daemon	09:30:16	dnsmasq	possible DNS-rebind attack detected: dc-poisk.no-ip.org
N/A	gw	daemon	09:22:58	dnsmasq	possible DNS-rebind attack detected: ccs-pr-iaa.cloudapp.net
N/A	gw	daemon	09:17:11	dnsmasq	possible DNS-rebind attack detected: ccs-pr-iaa.cloudapp.net
N/A	gw	daemon	09:00:13	dnsmasq	possible DNS-rebind attack detected: smartsourcestaging.dell.com
N/A	gw	daemon	07:57:21	dnsmasq	possible DNS-rebind attack detected: fbwallcheck.api-alliance.com
N/A	gw	daemon	07:57:21	dnsmasq	possible DNS-rebind attack detected: gwallcheck.api-alliance.com
					Result Page: [1]

Executed in **0.61590313911438 seconds**

Baseado em Coletores e Apresentadores

- Instalado em servidor DNS ou em servidor separado.
- Coletores usam a biblioteca pcap como sniffer do tráfego de rede. Captura o tráfego bidirecional de servidores DNS.
- Captura estatísticas:

Tipos de Queries, códigos de respostas, TLDs mais solicitadas, nomes populares de domínios, abusos de root IPv6, comprimento dos nomes das queries, tamanhos das respostas, etc.

Permite identificar:

Queries excessivas, configurações, bugs em Softwares DNS, medida de tráfego (pacotes/bytes), e possivelmente problemas de roteamento.

Projeto: https://www.dns-oarc.net/oarc/data/dsc

Servers/Nodes

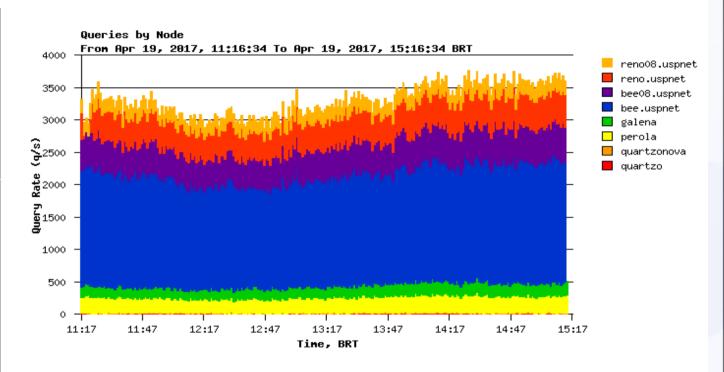
Server

- > guartzo
- > guartzonova
- > perola
- galena
- > bee.uspnet
- > bee08.uspnet
- > reno.uspnet
- > reno08.uspnet

Plots

By Node Otypes Rcodes Classification Client Geography TLDs 2nd Level Domains 3rd Level Domains Rcodes by Client Address Popular Names IPv6 root abusers Opcodes Query Attributes Reply Attributes CHAOS IP Version

DNS Transport IP Protocols **Oname Length** Reply Lengths Source Ports Priming Queries Priming Responses



The **Queries by Node** plot shows the amount of queries coming from each node in the server cluster. If you would like to see the traffic for a single node, select the node name in the Servers/Nodes menu on the left.

Note that the By Node option disappears from the Plots list when you are viewing the data for a single node. It reappears if you click on the Server name in the Servers/Nodes menu.

Servers/Nodes

Server

- > guartzo
- > quartzonova
- > perola
- galena
- > bee.uspnet
- > bee08.uspnet
- > reno.uspnet
- > reno08.uspnet

Plots

Qtypes Rcodes

Classification

- > trace
- > count
- Client Geography

TLDs.

2nd Level Domains

3rd Level Domains

Rcodes by Client Address

Popular Names IPv6 root abusers

Opcodes

Query Attributes

Reply Attributes

CHAOS

IP Version

DNS Transport

IP Protocols

Oname Length

Reply Lengths

Source Ports

Priming Queries

Priming Responses

Time Scale

1hour 2hour

4hour 6hour

8hour

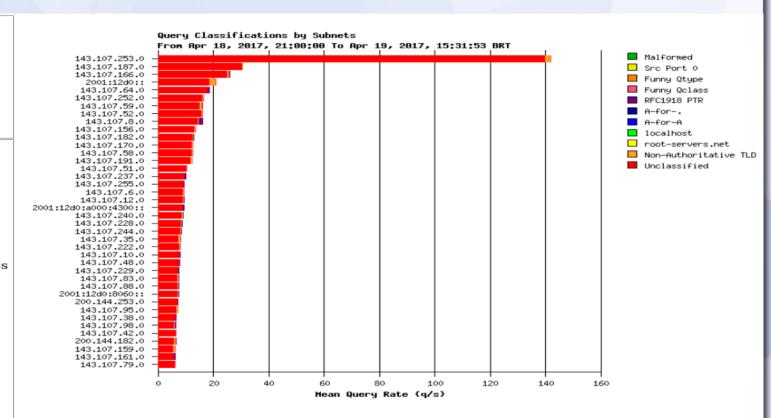
10hour

12hour

1day

4week

2days 3days 1week 2week 3week



The Query Classifications by Subnets plot shows a kind of "quality report" for each /24 subnet. Oueries are classified according to a number of known misbehaviors, shown in the legend:

- Malformed The DNS message was malformed and could not be entirely parsed
- Src port 0 The UDP query came from source port 0
- Funny Otype Ouery type was not one of the documented types
- · Funny Oclass Query class was not IN
- RFC1918PTR The query type was PTR and the name was in an in-addr.arpa zone covered by RFC1918 private address space
- A-for. The guery name was empty (equal to the root zone)
- · A-for-A The query name was already an IPv4 address
- localhost The query was for localhost
- root-servers.net The query was for a root-servers.net name
- Non-Authoritative TLD The guery was for a known-invalid TLD
- Unclassified the query did not fall into one of the other categories.

Servers/Nodes

Server

- > quartzo
- > quartzonova
- > perola
- > galena
- > bee.uspnet
- > bee08.uspnet
- > reno.uspnet
- > reno08.uspnet

Plots

Qtypes

Rcodes

Classification Client Geography

TLDs

2nd Level Domains

3rd Level Domains

Rcodes by Client Address

Popular Names

IPv6 root abusers

Opcodes

Query Attributes

- > IDN Qnames
- > RD bit
- > DO bit
- > QR and AA bits
- > EDNS version
- > EDNS buffer size

Reply Attributes

CHAOS

IP Version

DNS Transport

IP Protocols

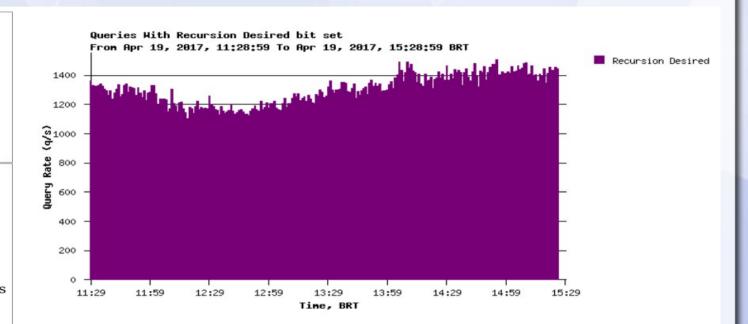
Qname Length

Reply Lengths

Source Ports

Priming Queries

Priming Responses



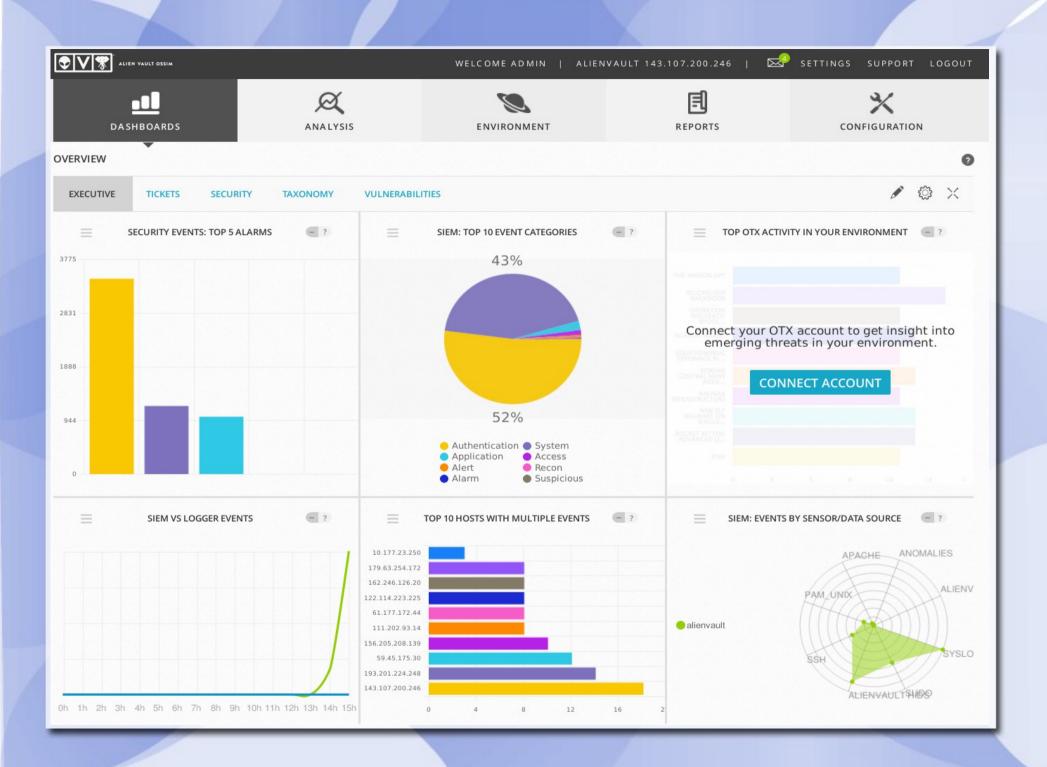
AlienVault OSSIM

OSSIM (AlienVault's Open Source Security Information) e Event Management (SIEM)

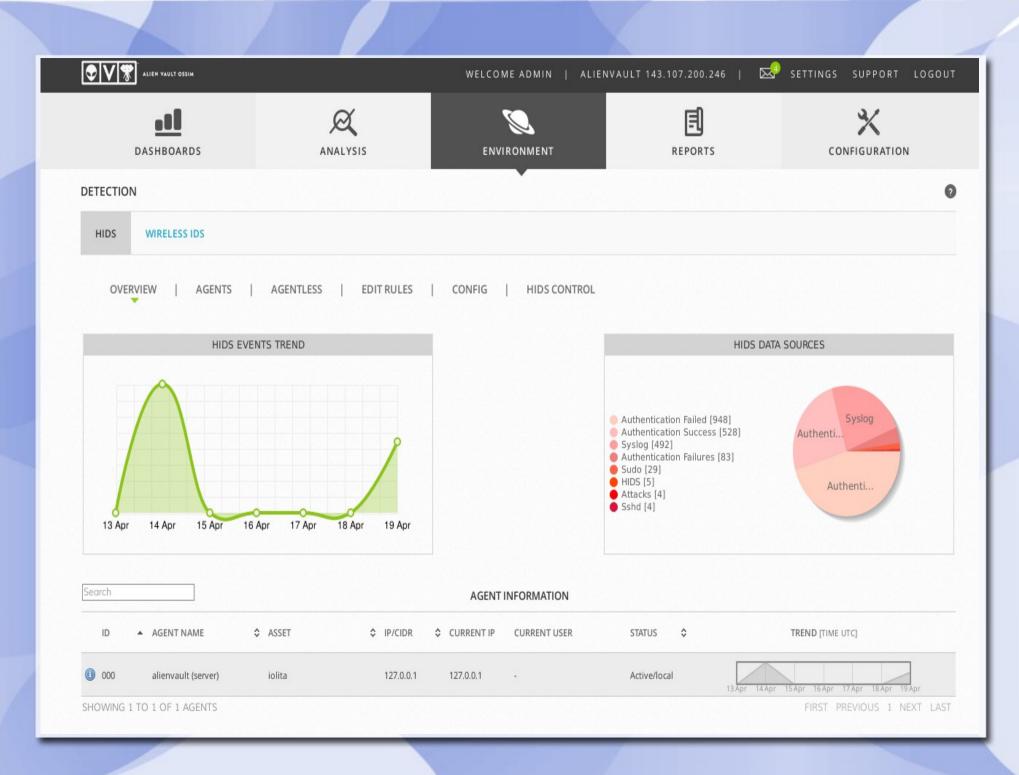
Coleta de eventos, normalização e correlação.

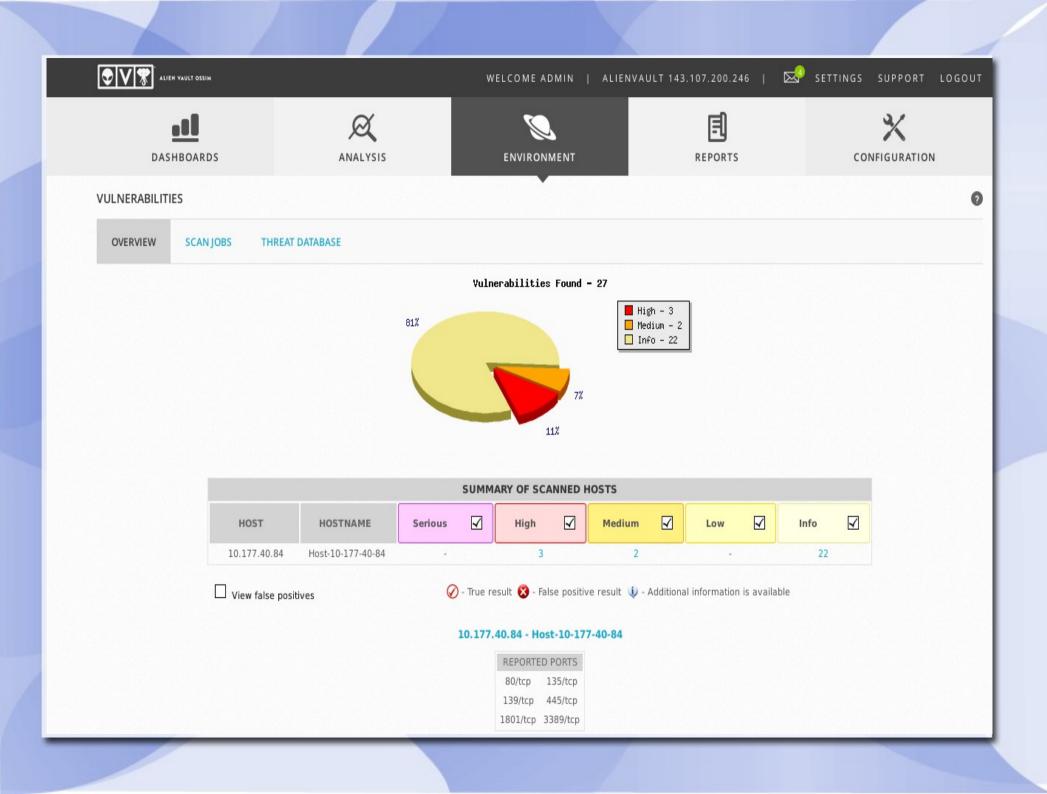
Funcionalidades mais avançadas: AlienVault Unified Security Management (USM), com OSSIM:

- Gerenciamento de Logs.
- Tarefas de detecção e constante atualização de bibliotecas de correlações pré fabricadas,
- Atualização inteligente a partir de AlienVault Labs Security Research Team.
- Painéis de análise e visualização de dados.
- Detecção de intrusão com IDS e HIDS.
- Live demo: www.alienvault.com/live-demo-site









Scans via Shadow Server

Objetivos:

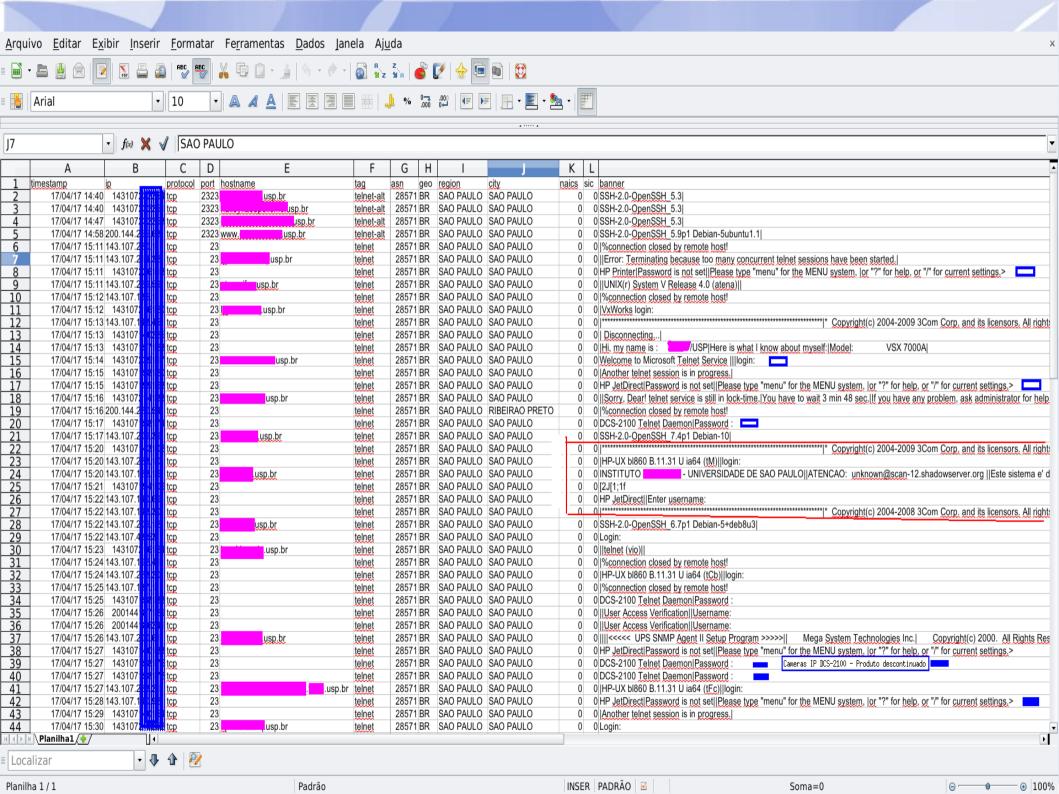
Relatórios de varredura autorizada na rede USPnet

Serviços scaneados:

blacklist, compromised_website, dns_openresolver, chargen, cwmp,
elasticsearch, ipmi, Idap, mdns, memcached, mongodb, mssql, nat_pmp,
netbios, ntp, portmapper, scan_qotd, scan_rdp, ssdp, ssl_poodle, telnet,
tftp, vnc, xdmcp, sinkhole_http_drone, botnet_drone

Dados obtidos:

Timestamp, ip, protocol, port, hostname, asn, geo, region, city,...,..., product, banner,...,...



Scans via Shadow Server

Protocolos de amplificação: (Fator de amplificação de banda)

- BitTorrent (any) 3.8, CharGEN (UDP/19) 358.8
- DNS (UDP/53) (Open Resolver Project) 28~54
- Kad (UDP/6429) 16.3, MS-SQL (UDP/1434)
- NetBIOS (UDP 137 to 139) 3.8
- NTP Mode 6 (UDP/123) (Open NTP Project) 556.9
- NTP Mode 7 (UDP/123)
- QOTD (UDP/17) 140.3
- Quake Network Protocol (UDP/26000 and UDP/27960) 63.9
- SNMPv2 (UDP/161) (Open SNMP Project) 6.3
- SDP (UDP/1900) (Open SSDP Project) 30.8
- Steam Protocol (Many UDP/27015) 5.5

Scans via Shadow Server

Protocolos que não deveriam estar expostos:

- CWMP (TCP/7547), DB2 (UDP/523), Elastic Search (TCP/9200)
- HDFS (TCP/50070, TCP/50075, TCP/50090, TCP/50105, TCP/50030, TCP/50060)
- IPMI (UDP/623), LDAP (UDP/389), mDNS (UDP/5353)
- MemCached (TCP/11211)
- MongoDB (TCP/27017, TCP/27018, TCP/27019, TCP/28017)
- NAT-PMP (UDP/5351), NetBIOS (TCP/137 to 139)
- Portmapper (UDP/111), REDIS (TCP/6379)
- RDP (TCP/3389 and UDP/3389), VNC (TCP/5900), XDMCP (UDP/177)
- rlogin (TCP/513), SSDP (TCP/1900)
- TFTP (UDP/69), Telnet (TCP/23), Telnet, Alternative (TCP/2323)

Scans via Shadow Server Protocolos vulneráveis:

- ISAKMP (UDP/500)
- Netcore/Netis Router (UDP/53413)
- SSL/FREAK (TCP/443)
- SSLv3 (TCP/443)
- Synful Knock (TCP/80)

Protocolos Botnet:

- Conficker (TCP/445)
- Gameover Zeus (Takedown by the FBI on 2014-05-30)
- Sality
- Zeroaccess

Projeto Honeypots – CERT.BR

Objetivos:

Aumentar a capacidade de detecção de incidentes, correlação de eventos e determinação de tendências de ataques no espaço Internet brasileiro.

Atividades:

Rede distribuída de **honeypots** de baixa interatividade (utilizando **Honeyd**), cobrindo uma quantidade razoável do espaço de endereços IPv4 da Internet no Brasil.

Notificação diária aos grupos de tratamento de incidentes (CSIRTs) das redes responsáveis por originar ataques aos honeypots.

Estatísticas:

- Gráficos diários dos fluxos de rede do tráfego direcionado a todos os honeypots.
- Sumário do tráfego TCP e UDP direcionado aos honeypots e tendências.

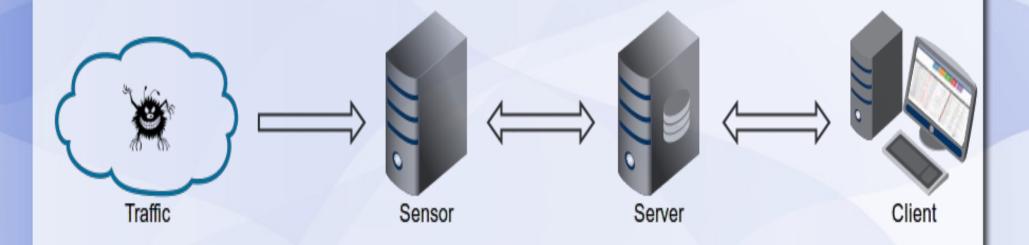
Maltrail

- Software para detectar tráfego de atividades maliciosas.
 Feito em linguagem Python.
- Utiliza registros de fontes suspeitas presentes em listas negras.
- Estatísticas de várias fontes de Anti Vírus e listas customizadas.
- Busca por Malwares conhecidos, programas maliciosos, padrões de ataques a servidores HTTP, SQL injections, etc.
- Mecanismo de busca heurística para ameaças desconhecidas, novos Malwares, etc.

Maltrail

Arquitetura

Traffic -> Sensor <-> Server <-> Client



Arquitetura do Maltrail

- Um equipamento com Linux conectado passivamente a uma porta SPAN ou porta espelhada, ou bridge transparente.
- Ou um equipamento Honeypot que vai monitorar o tráfego em busca de items presentes nas listas negras.
- Logs podem ser armazenados no Servidor ou no Sensor.
- Opção de armazena Logs no servidor de Logs via UDP.
- Dados são armazenados diariamente e apresentados ao cliente via interface WEB.
- Logs também podem ser armazenados em formato CSV.
- Utiliza linguagem Python e biblioteca python-pcapy
- Arquivo de configuração bastante simplificado.



123.115.51.110

56800

143.107.185.13









25 ▼ threats per page Filter Q Clear Print Tools sensor 💠 events 💠 severity 💠 first_seen 💠 last_seen 🔷 sparkline 💠 src_ip \$ src_port \$ dst_ip \$\phi\$ dst_port \$\phi\$ proto \$\phi\$ type \$\phi\$ trail **♦** tags threat \$ **♦** info reference 5d56b050 143.107.185.13 debian 390 29th 06:44:17 | 29th 11:12:09 61.177.172.46 0 22 (ssh) TCP ΙP 61.177.172.46 known attacker blocklist.de +2 116 0 ΙP 47049a2f debian 29th 10:32:29 29th 11:12:08 61.177.172.28 143.107.185.13 22 (ssh) TCP 61.177.172.28 known attacker blocklist.de +3 low 91.223.133.13 91.223.133.13 3c16e90a debian 11 29th 00:18:02 29th 11:11:40 0 0 0 TCP bad reputation alienvault.com 1 29th 11:08:26 29th 11:08:26 93.103.179.52 9 143.107.185.13 22 (ssh) TCP 93.103.179.52 known attacker 6be378be debian badips.com +4 fd10c3df debian 1 29th 11:05:32 29th 11:05:32 104.243.44.187 59962 143.107.185.13 1900 (upnp) UDP 104.243.44.187 choopa A bad reputation alienvault.com 09Ь13495 debian 1 29th 11:01:16 29th 11:01:16 195.154.181.172 143.107.185.13 88 (kerberos) TCP 195.154.181.172 known attacker voipbl.org ΙP bad reputation 43a32656 debian 2 29th 09:31:39 29th 10:57:03 139.162.86.84 0 8001 TCP 139.162.86.84 alienvault.com +1 137.226.113.7 comsys.rwth-aachen.de 1 29th 10:56:32 29th 10:56:32 137.226.113.7 42143 143.107.185.13 80 (http) TCP (static) +1 fa931f20 debian mass scanner debian 1 29th 10:50:20 29th 10:50:20 71.6.158.166 58022 143.107.185.13 5555 (rplay) TCP 71.6.158.166 cari.net mass scanner (static) +4 faa569ca 139.162.122.110 139.162.122.110 blocklist.de +2 ae767ee3 debian 1 29th 10:44:48 29th 10:44:48 143.107.185.13 22 (ssh) TCP known attacker 139.162.120.98 9fe57240 debian 1 29th 10:44:47 29th 10:44:47 139.162.120.98 60700 143.107.185.13 22 (ssh) TCP known attacker packetmail.net debian 11 29th 01:00:43 29th 10:38:59 163.172.91.161 0 5060 (sip) UDP 163.172.91.161 bad reputation alienvault.com +1 024c789e debian 5 29th 00:14:23 29th 10:34:54 80.82.77.139 0 0 0 0 80.82.77.139 bad reputation alienvault.com +3 81ede6fe debian 1 low 29th 10:32:41 29th 10:32:41 114.241.51.51 0 143.107.185.13 22 (ssh) TCP 114.241.51.51 known attacker blocklist.de +1 1 low 183.214.141.100 54065 183.214.141.100 11db2c0f debian 29th 10:24:20 | 29th 10:24:20 143.107.185.13 22 (ssh) TCP known attacker openbl.org 29th 01:35:45 29th 10:20:45 2fc4ad82 debian 3 185.94.111.1 0 143.107.185.13 9 UDP 185.94.111.1 known attacker blocklist.de 29th 10:20:45 29th 10:20:45 185.94.111.1 blocklist.de edbaf3d6 debian 1 143.107.185.13 [S] 111 (sunrpc) 185.94.111.1 46352 UDP known attacker 1 74.82.47.52 shadowserver.org 238faa5d debian 29th 10:17:43 29th 10:17:43 74.82.47.52 37943 143.107.185.13 5900 (vnc) TCP (static) +1 mass scanner 71f1a6e8 debian 1 29th 10:13:07 29th 10:13:07 176.58.124.35 143.107.185.13 21 (ftp) TCP 176.58.124.35 linode known attacker packetmail.net 143.107.185.13 79fca742 debian 1 29th 10:11:12 29th 10:11:12 84.54.160.160 TCP 84.54.160.160 bad reputation alienvault.com 30 29th 10:00:43 29th 10:05:37 193.201.224.248 0 143.107.185.13 22 (ssh) TCP 193.201.224.248 prohoster.info known attacker blocklist.de +5 db8cff8c debian 29th 09:55:23 29th 09:55:23 143.107.185.13 115.209.63.224 debian 1 115.209.63.224 9 22 (ssh) TCP known attacker blocklist.de +1 debian 29th 09:51:25 29th 09:51:25 47.222.158.25 143.107.185.13 22 (ssh) TCP 47.222.158.25 known attacker blocklist.de 08f63339 2b6714d9 debian 1 29th 09:49:57 29th 09:49:57 121.55.89.115 💥 28683 143.107.185.13 1900 (upnp) UDP 121.55.89.115 bad reputation alienvault.com

Showing 1 to 25 of 142 threats

debian

1

f9ac1f1e

29th 09:33:19 29th 09:33:19

blocklist.de +3

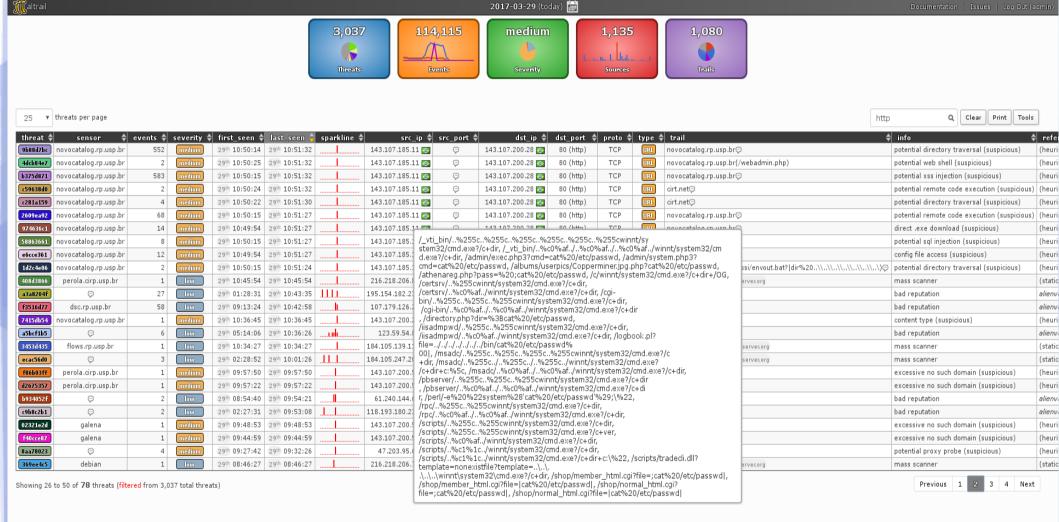
known attacker

TCP

22 (ssh)

123.115.51.110

Identificando HTTP suspeito



Identificando SQL Injection

Taltrail 2017-03-29 (today) 🛗 Documentation | Issues | Log Out (adm











25 ▼	threats per page														sql	۹ [Clear Print Tools
threat ♦	sensor ♦	events 🛊	severity (first_seen 🛊	last_seen 💠	sparkline 💠	src_i	p 🛊 src_port 🛊	dst_ip ♦	dst_port \$	proto 🛊	type 🗧	trail		info	reference	♦ tags \$
dbef87F0	9	14387	medium	29 th 02:55:00	29th 15:18:30				9	9	UDP	DNS	Ģ.usp.br		excessive no such domain (suspiciou	s) (heuristic)	
1de75321	9	831	medium	29 th 00:01:13	29th 15:18:26	IIIIIIIIIIIIIII	143.107.200.194		Φ	53 (dns)	UDP	DNS	tbapi.search.ask.com		browser hijacking (suspicious)	(static)	
6be1089a	dsc.rp.usp.br	22531	low	29 th 00:02:47	29th 15:18:21	Hoodboot	143.107.200.26	<u></u>	9	9	TCP	IP	143.107.200.26		potential port scanning	(heuristic)	
8a51c974	9	2032	medium	29 th 07:25:09	29th 15:06:00		143.107.159.58	<u></u>	9	53 (dns)	UDP	DNS	Ģ.msn.com		long domain (suspicious)	(heuristic)	
425cbf0b	9	9	low	29 th 00:39:16	29 th 13:57:10	nnl	82.221.105.6	₩ 🗩	9	9	₽	IP	82.221.105.6 shodan.io		mass scanner	(static) +4	
faa569ca	9	11	low	29th 00:00:21	29th 13:36:24	Luchac	71.6.158.166	9	9	₽	₽	IP	71.6.158.166 cari.net		known attacker	badips.com +4	
b1253d54	9	24	low	29 th 01:20:17	29th 13:34:41	1	183.60.48.25	≅	Φ	9	TCP	IP	183.60.48.25		known attacker	badips.com +3	
79236bcf	9	6	low	29 th 00:53:46	29th 11:12:53	ul	216.218.206.81	9	Φ	₽	₽	IP	216.218.206.81 shadows	erver.org	mass scanner	(static) +1	
58863661	novocatalog.rp.usp.br	8	medium	29 th 10:50:15	29th 10:51:27	L	143.107.185.11		143.107.200.28	80 (http)	TCP	URL	novocatalog.rp.usp.br		potential sql injection (suspicious)	(heuristic)	
3a12ac51	9	7	low	29th 06:38:05	29th 09:37:30		107.179.126.19	6000 (v11)	<u> </u>	1/33 (meeal)	TCD	TD	107 170 126 10		bad reputation	alienvault.com	
7adf5224	9	2	low	29th 06:26:11	29 th 09:25:36		222.187.224.19		lule=My_eGallery&do /ALL/**/SELECT/**/0		-1/**/AND	/**/1=			bad reputation	alienvault.com	
18ef1236	9	2	low	29th 05:52:08	29th 08:51:33		222.186.153.11	;0,0,0,0,0,0,0,0,0,		3,0,0,0,0,					bad reputation	alienvault.com	
7eb2b4e6	novocatalog.rp.usp.br	1	low	29th 08:26:08	29th 08:26:08		210.212.98.24		C7230783E,pn_unar 30783E),0,0,0/**/FR						known attacker	blocklist.de +1	
1b805ef3	quartzonova.cirp.usp.br	1	low	29th 08:03:38	29th 08:03:38		211.137.82.3	rs/**/WHERE/**	*/pn_uid=\$id/*,/pos	stnuke/html/inde	ex.php?				bad reputation	alienvault.com	
757c79ec	9	6	low	29 th 04:32:54	29 th 07:32:19		123.59.232.23		allery&do=showpic&; =2/**/UNION/**/ALL		0.000#				bad reputation	alienvault.com	
6eb73efd	9	6	low	29th 02:09:22	29th 05:08:56		204.13.67.15	44;0,0,0,0,0,0,0		/ / / SELECT/ / /	0,0,00.#				bad reputation	alienvault.com	
8caf6842	dsc.rp.usp.br	1	low	29th 05:00:07	29th 05:00:07		216.218.206.9		at(0x3C7230783E,pr ass,0x3C7230783E),					erver.org	mass scanner	(static)	
332c31c4	9	6	low	29th 01:59:23	29th 04:58:49		27.54.254.15		sers/**/WHERE/**/p		ostnuke/in	dex.php	?		bad reputation	alienvault.com	
ad503f96	9	2	low	29 th 01:08:32	29 th 04:58:31	11	216.218.206.7		allery&do=showpic&; /UNION/**/ALL/**/S		00.			ervenorg	mass scanner	(static)	
7e4ea34d	novocatalog.rp.usp.br	1	low	29th 04:39:53	29th 04:39:53		120.193.156.7	#44;0,0,0,0,0,0,0		ELECI/ /0,0,0	,00.				bad reputation	alienvault.com	
e826877a	perola.cirp.usp.br	1	low	29th 03:58:39	29th 03:58:39		216.218.206.9		at(0x3C7230783E,pn 3C7230783E),0,0,0/					erver.org	mass scanner	(static)	
d466cb50	novocatalog.rp.usp.br	1	low	29 th 03:49:25	29th 03:49:25	_L		**/md_users/**	*/WHERE/**/pn_uid=		mo/adhocs	ql/query	/.xsql?sql=select		bad reputation	alienvault.com	
de4e752b	novocatalog.rp.usp.br	1	low	29 th 03:44:57	29 th 03:44:57		216.218.206.8	username from	ALL_USERS					ervenorg	mass scanner	(static)	
3c009d48	9	2	low	29th 00:08:44	29th 03:08:09	LL	117.21.191.79	□	9	3306 (mysql)	TCP	IP	117.21.191.79		bad reputation	alienvault.com +1	
6ed64106	Φ	4	low	29 th 01:40:00	29th 01:40:09	1	222.186.58.181	6000 (x11)	9	3306 (mysql)	TCP	IP	222.186.58.181		bad reputation	alienvault.com	

Showing 1 to 25 of 28 threats (filtered from 3,285 total threats)

FIM

- Perguntas
- Sugestões
- Dúvidas





Flows e Nfsen

Iniciativa Unicamp/Cert.BR

Também adotado na USP: CeTI-SP e CeTI-RP

Objetivos:

Uso de flows no tratamento de Incidentes de Segurança.

Recurso disponível nos roteadores

Amostra de fluxo de dados (1/512)

Coletar o tráfego nos roteadores

Protocolo utilizado: SFLOW (coleta por amostragem)

Baixo impacto na performance dos roteadores e do cliente

Relatórios Flows

Relatórios por E-Mail:

Scripts que relacionam os dados coletados e produzem os seguintes relatórios:

- Report-DNS Dados relacionados a amplificação de DNS
- Report-top-rdp-talkers Dados relacionados a uso de porta RDP -Remote Desktop
- Report-top-submission Dados relacionados ao tráfego de SMTP
- Report-amp Amplificadores (DNS, SSDP, NTP, SNMP, Chargen)
- Report-drop IPs vistos na lista DROP (eDROP) da Spamhaus (Projetos Drop e eDrop - Spamhaus)

Relatórios Flows

Report-top-SMTP-talkers - Dados relacionados ao uso de SMTP

Report-top-talkers - Os que mais consomem banda

Report-botcc - Dados de IPs encontrados em Botnets.

Projeto botnet-cc - The World's Worst Botnet Countries - Spamhaus

top-seen.honeypot - Dados de IPs encontrados no projeto Honeypot (não apresenta dados atualmente)

Habilitado em Roteadores do CeTI-SP, do CeTI-RP e em Gateways PFSense da Wireless USPnet - RP. **Software Softflow**

Instalação de Flows e SNMP em servidores e Desktops.

Monitoramento de servidores via SNMP

Objetivos:

Monitorar recursos de Servidores, Desktops, No-breaks, Impressoras, etc, via SNMP.

Elementos e serviços de Rede, CPU, Memórias, utilização dos recursos, gráficos estatísticos.

Softwares Observium e LibreNMS

Material didático

- Entendendo a ISO 17799
 granito2.rp.usp.br/NBR17799/
- Ferramentas de Segurança
 granito2.cirp.usp.br/Ferramentas.de.Seguranca/geral.html
- Site Security Handbook
 penta.ufrgs.br/gereseg/rfc2196/