

# OPERATIONS & INTELLIGENCE CYBER SECURITY REPORT

**BANVIVIENDA**

May, 2018

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## About This Report

The purpose of this document is to report on the “state” of security for your organization. It must be noted that GLESEC bases its information analysis on the services under contract. The information generated by these services is then aggregated, correlated and analyzed. The more complete the set of services under contract the more accurate and complete the results will be.

The report is organized in three parts; the first is the Executive Summary with recommendations (as necessary or applicable), the second is the Intelligence Section with more detail information and analysis dashboards and the last is Operational Section with status of the services and counter-measures under contract, tickets for change management and incidents reported and consulting activity for the month.

We at GLESEC believe that information security is a holistic and dynamic process that requires on-going research and follow up and should be handled with the right tools, systems, processes, skill personnel and focus attention. The process is dynamic due to the constant discovery of new security vulnerabilities and exploits, the proliferation of hacking tools that make it easier for script-kiddies with minimal knowledge to cause damage. The increase in malware, phishing, insider threats, espionage, organized crime, intellectual property theft, and hacktivism are the very cause of information security exposure and are most commonly driven by financial gain. GLESEC’s outsourcing services, based on its proprietary TIPTM platform portfolio provide the ideal response to the above.

## Confidentiality

GLESEC considers the confidentiality of client’s information as a trade secret. The information in this context is classified as:

- Client name and contact information
- System architecture, configuration, access methods and access control
- Security content

All the above information is kept secure to the extent in which GLESEC secures its own confidential information.



## Scope of this Report

GLESEC Contracted Services Table

Type	Service	Contracted?	Service Expiration
Threat Mitigation	MSS-APS		
Threat Mitigation	MSS-APS-SSL		
Threat Mitigation	MSS-APS-PS		
Threat Mitigation	MSS-APFW		
Vulnerability Testing	MSS-VME	YES	August 1, 2018
Vulnerability Testing	MSS-VMI		
Compliance	MSS-EPS		
Threat Mitigation	MSS-SIEM	YES	August 1, 2018
Risk assessment	MSS-BAS		
Threat Mitigation	MSS-EIR	YES	August 1, 2018
Threat Mitigation	MSS-UTM		
Threat Mitigation	MSS-INT		
Access Control	MSS-TAS		



## Executive Summary

This report corresponds to the period from May, 2018.

The following table describes the major categories that GLESEC has identified to report on the state-of-security of its member-clients. The categories in the table below are based on risk-management methodology. This is a principal foundational aspect of GLESEC.

	RISK / RIESGO
	VULNERABILITIES / VULNERABILIDADES • MSS-VM Service
	THREATS / AMENAZAS • MSS-APS; MSS-EPS; MSS-SIEM; MSS-EIR; MSS-UTM
	ASSETS / ACTIVOS • MSS-VM; MSS-EPS
	COMPLIANCE / CUMPLIMIENTO • MSS-EPS
	SECURITY VALIDATION / VALIDACION • MSS-BAS
	TRUSTED ACCESS / ACCESS CON CONFIABILIDAD • MSS-TAS

### RISK

*Risk management is the ongoing process of identifying, assessing, and responding to risk. To manage risk, organizations should understand the likelihood that an event will occur and the resulting impact. With this information, organizations can determine the acceptable level of risk for delivery of services and can express this as their risk tolerance. The NIST Cyber-Security Framework.*

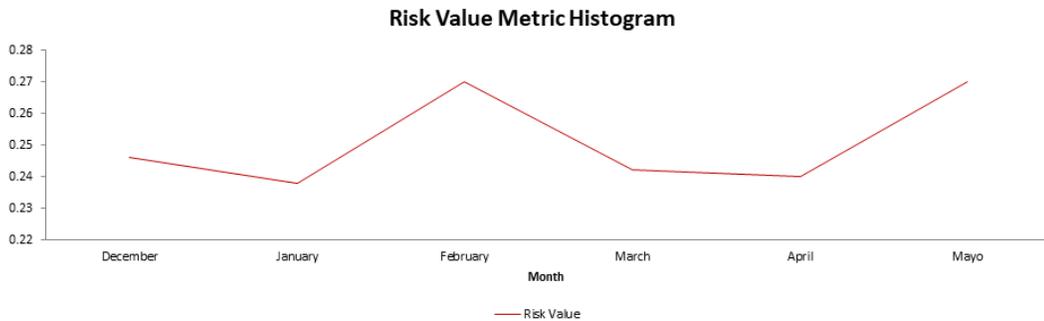
One of GLESEC's foundational columns is basing all its activities to support RISK determination and mitigation. What any organization should want to know is what is their level of RISK, and in this case in particular to cyber-security. Cyber-Security RISK has a direct impact to the business and as such is of paramount importance to the Board and Management of the company.

We at GLESEC measure RISK through a number of perspectives and using several of the TIP™ platform portfolio of services. The MSS-VM or Managed Vulnerability Service provides us with one view, how weak are the systems of the organization.



The MSS-BAS provides us a view of how weak are the defenses of the organization to the latest threats. The MSS-APS, MSS-SIEM, MSS-UTM, MSS-EIR, MSS-EPS provides us with attack information both internal and external, DDOS, Malware, Ransomware and other attack vector information as well as provide protection level services. The MSS-EPS also provides us RISK level information for non-compliance with internal or external requirements and/or regulations. All in all, a variety of services provide us with different views and together we have the most complete view of our client’s security posture.

The RISK VALUE METRIC histogram below represents the changes in the Vulnerability based Risk Value Metric over the past six months.



As can be seen in the figure above, the RV for May has dramatically increased with respect to March and April, this is a cause for concern. *For more information about these please refer to MSS-VM intelligence and Recommendations sections of this report.*

**VULNERABILITIES**

GLESEC’s MSS-VM(E/I) service is used to conduct two weekly testing to external and/or internal systems (depending on the options of the contracted service). Of the two tests performed weekly, one is to test for discovery of assets on the network and the other to test for vulnerabilities. The external testing is performed from GLESEC’ cloud platform and the internal is conducted with the GLESEC Multi-Security Appliance (GMSA).

Vulnerabilities are weaknesses that if exploited can compromise the organization and as such are a component of RISK for the organization. If there are vulnerabilities and also threats, there is RISK that the organization can be impacted. The vulnerabilities reported by GLESEC should be considered all important and addressed according to the priority (Critical, High, Medium and Low). An effective process is to work with the GLESEC provided information and GLESEC consulting

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team to address the recommendations provided in a systematic and continuous way. Progress can be determined by the weekly testing.

Overall the vulnerabilities for BANVIVIENDA this period have been 30 medium and 9 low risk. All Medium risk vulnerabilities have already been reported in previous months. Here are some examples of the most relevant ones: SSL Medium Strength Cipher Suites Supported, SSL Certificate Cannot Be Trusted, SSL Certificate Expiry, SSL RC4 Cipher Suites Supported (Bar Mitzvah), and SSL Certificate Signed Using Weak Hashing Algorithm. The ideal scenario would be for all of these to be hardened, more information about these can be found in the intelligence section for the MSS-VM.

Ports 443 and 25 are the most vulnerable ports for this period; this is because many vulnerabilities relate to services “listening” on them.

#### Risk Value Metric

GLESEC utilizes a metric to provide a way to quantify the vulnerabilities based risk of an organization. This metric is to measure the relative value of vulnerabilities and also the record of change over time.

It is important to mention that this metric considers a median value for the vulnerabilities classified as “critical”, “high”, “medium” and “low”, giving them a weight of 100%, 75%, 50% and 10% respectively.

This takes into consideration all of the vulnerabilities, but is important to point out that this values (100%, 75%, 50% and 10%) are arbitrarily chosen by us, so this measure can in time change as we understand more of the risks involved. We can use this metric to evaluate the progress in time and to compare one over the other using a common amount set.

The following external network ranges 200.46.227.224/28, 200.90.137.80/28, 200.46.80.104/29, 200.46.19.96/29 for BANVIVIENDA were scanned for vulnerabilities.



REPORT FOR:

BANVIVIENDA

The following table indicates the external vulnerability metric.

Total IP's Scanned		IP's Vulnerable		
15		10		
Risk Distribution				
Critical	High	Medium	Low	Total
0	0	30	9	39

According to the metrics:

$$RV = 0.271794872$$

The following values are to clarify RV:

RV=1 Points to every IP address in the infrastructure that are susceptible to attacks

RV=0 Points to no IP address in the infrastructure aret susceptible to attacks

RV=0.1 Point to 1/10 IP address in the infrastructure that are susceptible to attacks

External listing of vulnerabilities by condition:

Host	Critical	High	Medium	Low	Total
200.90.137.87			6	2	8
200.90.137.89			6	2	8
200.46.227.230			4	1	5
200.90.137.83			4	1	5
200.46.19.100			2	1	3
200.90.137.91			3	0	3
200.90.137.94			2	1	3
200.90.137.84			1	1	2
200.46.19.98			1	0	1
200.46.227.227			1	0	1

The following table provides a comparison of persistent external vulnerabilities of the current month and previous month.

host-ip	Previous Month	Current Month
200.46.19.100	3	3
200.46.19.98	1	1
200.46.227.227	1	1
200.46.227.230	5	5
200.90.137.83	5	5
200.90.137.84	2	2
200.90.137.87	8	8
200.90.137.89	8	8
200.90.137.91	3	3
200.90.137.94	3	3

Please view Recommendations for more details. This can be seen on the GLESEC MEMBER PORTAL (GMP).

Vulnerability Categories

The following table indicates the categories that we use for vulnerabilities as a way

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to provide context to them and facilitate the prioritization of how to handle remediation.

Preliminary Analysis	Firewalls	Network Devices
SMB/NetBIOS	SSH Servers	Malformed Packets
Simple Network Services	Mail Servers	Proxy Servers
Policy Checks	SQL Servers	Wireless AP
Web Servers	FTP Servers	Webmail Servers
RPC Services	Server Side Scripts	NFS Services
Backdoors	SNMP Services	Printers
Encryption and Authentication	DNS Servers	

Based on the above the following table shows a matrix of the total internal vulnerabilities by category.

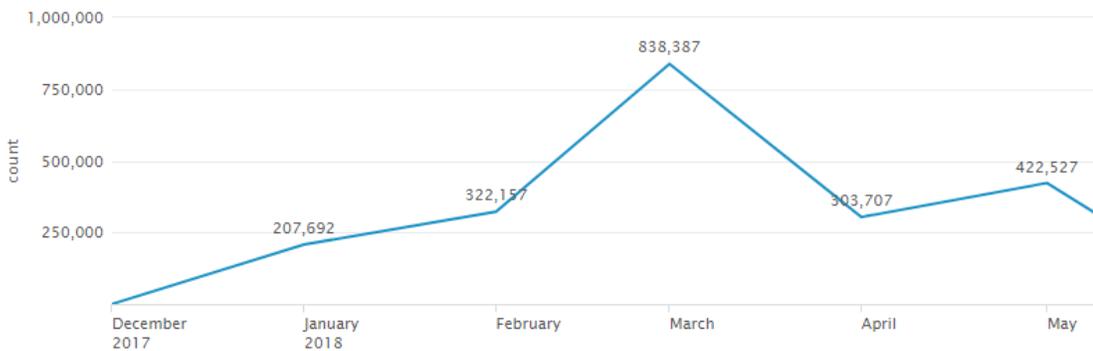
Category	Critical	High	Medium	Low	Total
General			24	8	32
Service detection			4	0	4
Misc.			1	1	2
Windows			1	0	1



**THREATS**

GLESEC uses its MSS-APS, MSS-EPS, MSS-SIEM, MSS-EIR and MSS-UTM to determine threat intelligence activity.

The Threats as reported by the MSS-APS, MSS-EPS, MSS-SIEM, MSS-EIR, MSS-UTM for this month there are a total of 422,527 attacks denied by the rules of the firewall.



We have noticed an increase in attack activity of 39.12% from last month. We recommend BANVIVIENDA to review the activity of the devices where these events are registered.

Most of the attacks are targeting port 23(Telnet), followed by port 80 (HTTP) and port 22 (SSH). About 51% of all attacks dropped are aiming the telnet port, something that slightly changed from the 62% in previous month. It is strongly advisable to, if opened, close this port and switch all administration connections to SSHv2. The highest next count is HTTP with only a 16% of all attacked dropped, even if it does not seem like a big number it is very important to know it has been targeted.

Attacks were blocked mostly by denying access to the attacker and in other cases, the packets were dropped immediately.

Most of the blocked attacks come from United States, China and the Russian Federation as the three top sources. A significant number of attacks are scanning which can be considered reconnaissance and is what precedes further attacks.

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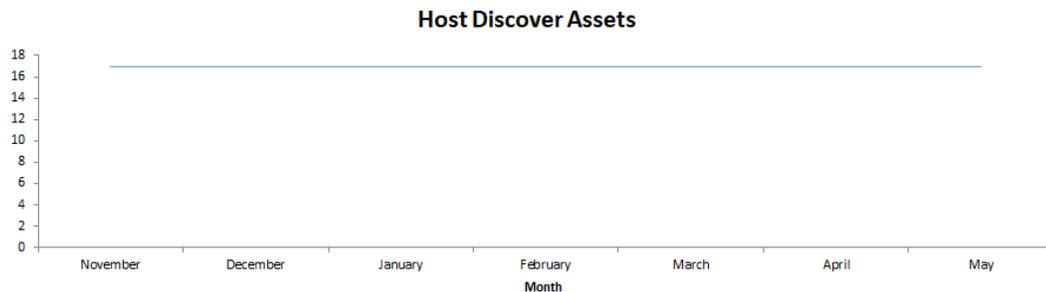


## ASSETS

The MSS-VM(E/I), MSS-EPS conduct weekly testing. The MSS-VM(E/I) identify network assets while the MSS-EPS identify applications. Depending on the contracted services is the listing that can be provided of system or application assets.

We believe that we cannot protect what we don't know and to know the assets (systems and applications) is critical to having a sound cyber security practice. Therefore we encourage you to verify the information that we provide and let us know if anything is suspicious or just not right. We can work with your organization to create a baseline that can be used to identify deviations. Please contact our GOC for assistance in this matter.

The following histogram shows the past six-month total of number of systems discovered in the perimeter of your organization.



Knowing what's on your network is extremely important. Our monitoring team at our GOC has been keeping track of all these host discovery results and has found nothing unusual.

## COMPLIANCE

The MSS-EPS or Managed End Point Security Service is a Compliance and Remediation Service. For compliance we understand the testing, monitoring and alerting of deviations of the parameters of all "hosts" and "servers" in the organization from established baselines. These baselines can be created to support specific outside requirements or internal best-practice guidelines. The MSS-EPS can monitor deviations to these baselines and also "enforce" compliance with these.

*The services that provide us with information for this section have not been contracted*



**CYBER SECURITY VALIDATION**

Security Validation implies the validation of the entire security by conducting testing with simulated attacks. This is conducted with the Managed Breach Attack Simulation Service (MSS-BAS). The MSS-BAS is a collection of advanced pre-exploitation, post-exploitation and awareness testing services. The testing is on real targets based on simulated attacks; therefore these provide conclusive (no false positive) results. The different attack vectors test the organization's configurations, countermeasures, implementations and ability to respond in a continuous fashion producing valuable intelligence and recommendations.

*The services that provide us with information for this section have not been contracted.*

**TRUSTED ACCESS**

The new IT model brings with it a greater attack surface, comprised by employees that use their own devices for work, while working remotely. The proliferation of cloud applications for nearly every business need has also contributed to increased technical complexity. These days, attackers can expose much different vulnerability in multiple vectors — in a single attack. Traditional security is designed to address separate, siloes attacks, making these solutions ineffective against modern threats. These new threats center on gaining remote access to your apps and data — whether it's with stolen passwords or exploited known vulnerabilities targeting your users, their out-of-date devices, cloud applications and remote access software. The Managed Trusted Access Service (MSS-TAS) is a holistic security service to (a) ensure that the users' access is trusted (valid user) and (b) the devices used by the user to authenticate meet the organization's security standards.

*The services that provide us with information for this section have not been contracted.*



## Recommendations

GLESEC recommends for BANVIVIENDA to address the following

1. Take immediate actions to the detailed recommendations in this report.
2. Take some time to review the incidents reported during this period, in addition to the ones included in this and previous reports and please let us know if these are part of the regular function of your systems.
3. The majority of the vulnerabilities found can be hardened by taking into consideration the best practices for SSL/TLS implementation where old versions of SSL are not allowed, the same way, the use of known vulnerable cipher suits (e.g. RC4) should not be permitted. Take special focus on the following hosts: 200.90.137.94, 200.90.137.83, 200.46.227.230 and 200.46.19.100.
4. It is important to set up valid certificates that can be trusted on the following hosts: 200.90.137.91, 200.90.137.94, 200.46.19.100, 200.90.137.84, 200.90.137.83 and 200.46.227.230. This because there are attack methods that involve spoofing a service such as a webmail and because the official service does not have a valid certificate, it is possible that clients believe the attackers service is the official one which might cause credential theft, data leakage, among others.
5. We strongly recommend not to allow any connections through **telnet** (not open is always better than filtered if it is not supposed to be used) to any of your systems, regardless of whether the connections are established inside the local network or over the internet.
6. If hosts 200.46.227.227 and 200.46.19.98 are listening on port 80, we strongly recommend to migrate to port 443, because even though connection attempts to this port from the outside have been dropped, we have registered many attempts from several Public IP addresses.
7. Take notice to the solution process of the *Internet Key Exchange (IKE) Aggressive Mode with Pre-Shared Key*, described in the Vulnerabilities by severity section of the technical report on hosts 200.46.227.227 and 200.46.19.98.



## Intelligence Section Per Service Module

### Managed Vulnerability Service (MSS-VM) Intelligence Section

*The Managed Vulnerability Service (MSS-VM) enables organizations to minimize the risk of vulnerabilities by quickly discovering weaknesses, measuring the potential risk and exposure, reporting, providing remediation information necessary to mitigate those risks on an on-going basis and facilitating reporting and compliance with regulations and best practices.*

*The purpose of this section is to highlight intelligence gathered from this and other services under contract as well as outside sources such honeypots, known malicious sources, vulnerability databases, relationships with CERT and CSIRT teams that GLESEC possesses, together with various other threat feeds.*

*The following graphs are dashboards generated by GLESEC's TIP™ platform. These dashboards are representative of metrics for this service.*

It is important to establish a vulnerability management program as part of the information security strategy because soon after new vulnerabilities are discovered and reported by security researchers or vendors, attackers engineer exploit code and then launch that code against targets of interest. Any significant delays in finding or fixing software with dangerous vulnerabilities provides ample opportunity for persistent attackers to break through, gaining control over the vulnerable machines and getting access to the sensitive data they contain. Organizations that do not scan for vulnerabilities and proactively address discovered flaws face a significant likelihood of having their systems compromised.

Many of the vulnerabilities will provide CVE data. CVE (Common Vulnerabilities and Exposures) is a list of information security exposures and vulnerabilities sponsored by US-CERT and maintained by the MITRE Corporation. The CVE mission is to provide standard names for all publicly known security exposures as well as standard definitions for security terms. The CVE can be searched online at <http://nvd.nist.gov/>.

### Vulnerability Score

The score of a vulnerability is determined by its risk factor; Critical, High, Medium or Low, as well as its value in the Common Vulnerability Scoring System (CVSS). The CVSS “base score” represents the innate risk characteristic of each vulnerability. CVSS is a vulnerability scoring system designed to provide an open and standardized method for rating IT vulnerabilities. CVSS helps organizations prioritize and



coordinate a joint response to security vulnerabilities by communicating the base, temporal and environmental properties of each vulnerability. In addition to numeric scores, the CVSS provides severity rankings of High, Medium, and Low but these qualitative rankings are simply mapped from the numeric CVSS scores. Vulnerabilities are labeled as:

Low risk if they have a CVSS base score of 0.0 – 3.9

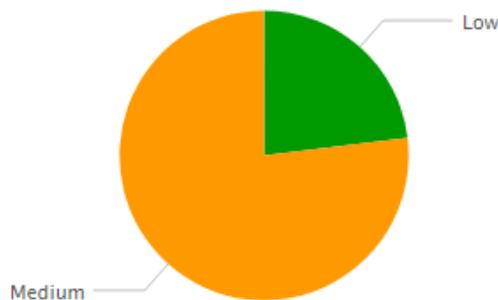
Medium risk if they have a CVSS base score of 4.0 – 6.9

High risk if they have a CVSS base score of 7.0 – 10.0

### Vulnerability Information

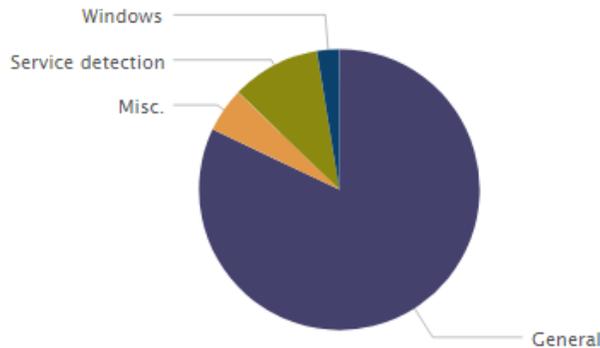
Graph: Risk Distribution

This report depicts the risk distribution of vulnerabilities discovered this report period



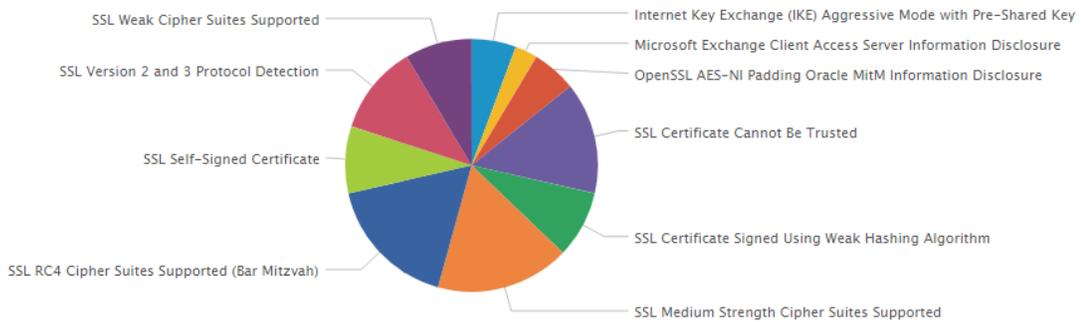
Graph: Most Frequent Vulnerability Category

This report depicts the most frequent vulnerabilities by category discovered this report period



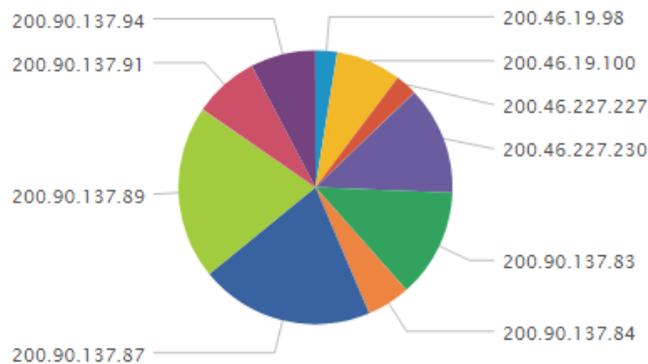
Graph: Most Frequent Vulnerability Name

This report depicts the most frequent vulnerabilities discovered this report period



Graph: Most Vulnerable Host

This report depicts the most vulnerable hosts discovered this report period

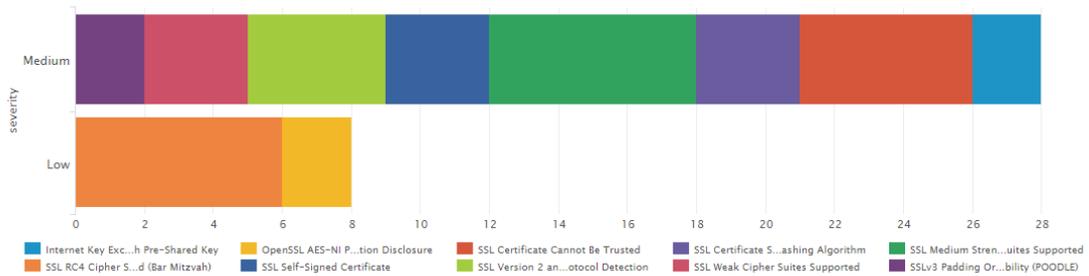


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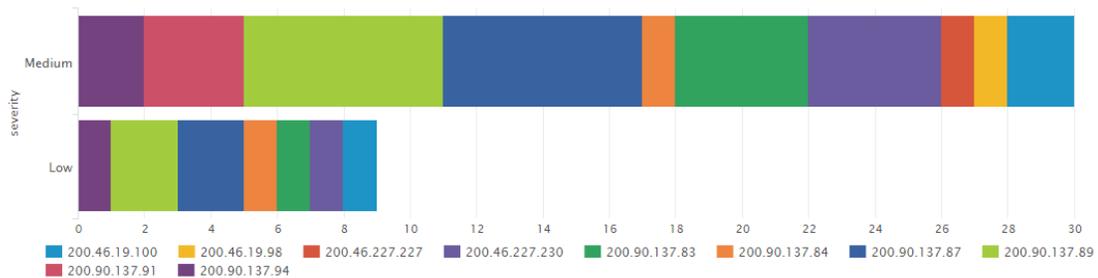
Graph: Vulnerability Risk by Vulnerability Name

This report illustrates the vulnerability risk and count by vulnerability name discovered this report period



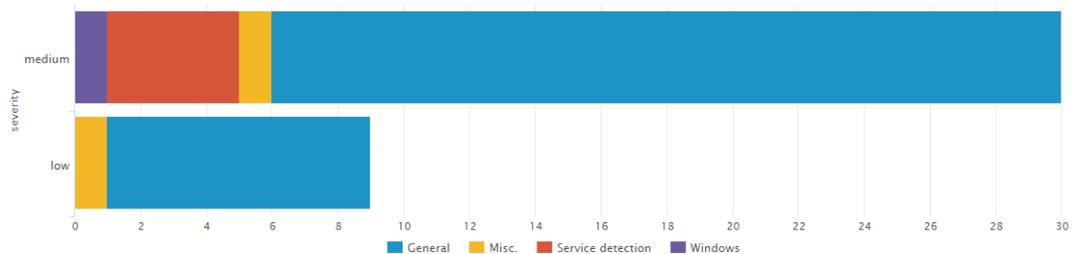
Graph: Vulnerability Risk by Host

This report illustrates the vulnerability risk and count by category discovered this report period



Graph: Vulnerability Risk by Category

This report illustrates the vulnerability risk and count by category discovered this report period

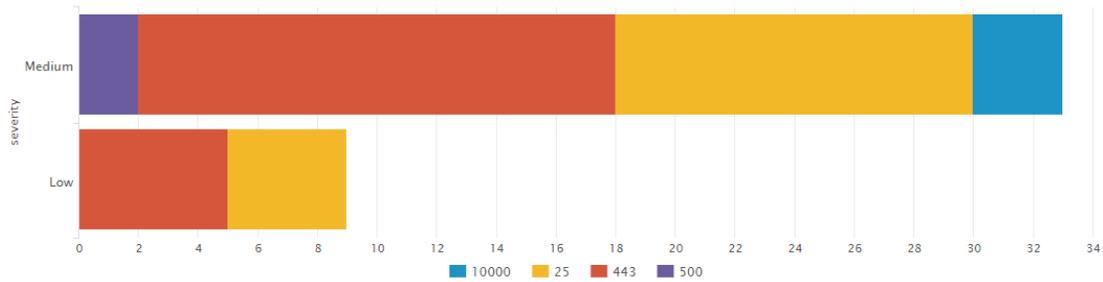


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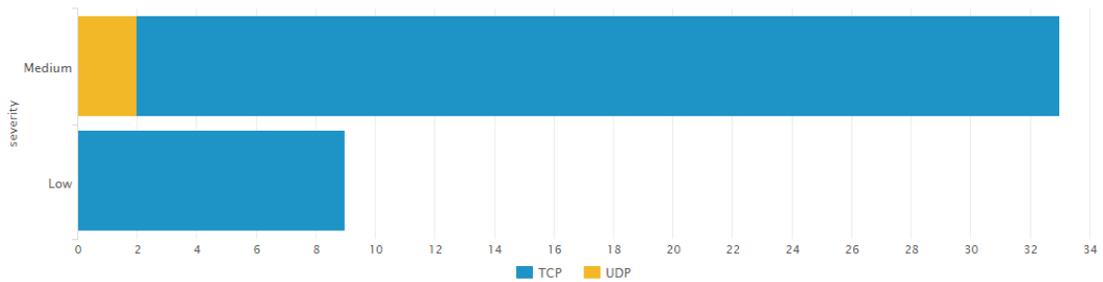
Graph: Vulnerability Risk by Port

This report illustrates the vulnerability risk and count by port discovered this report period



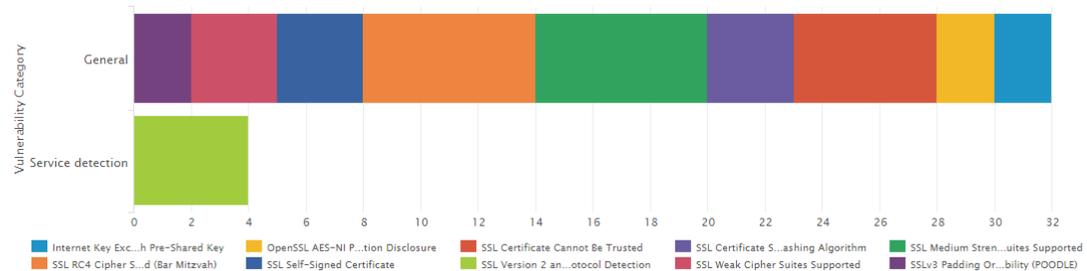
Graph: Vulnerability Risk by Protocol

This report illustrates the vulnerability risk and count by protocol discovered this report period



Graph: Vulnerability Category by Vulnerability Name

This report illustrates the vulnerability category and count by vulnerability name discovered this report period

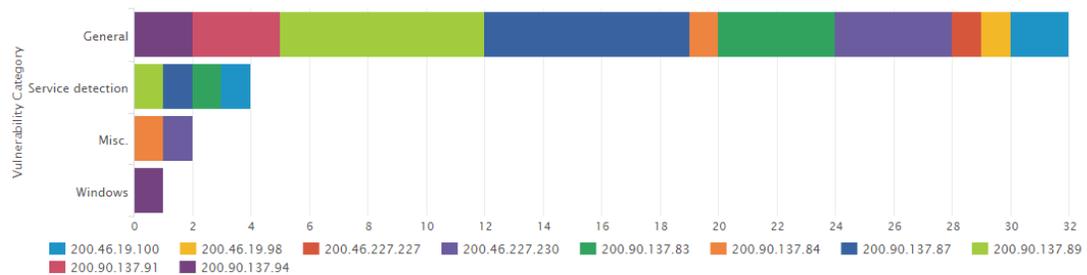


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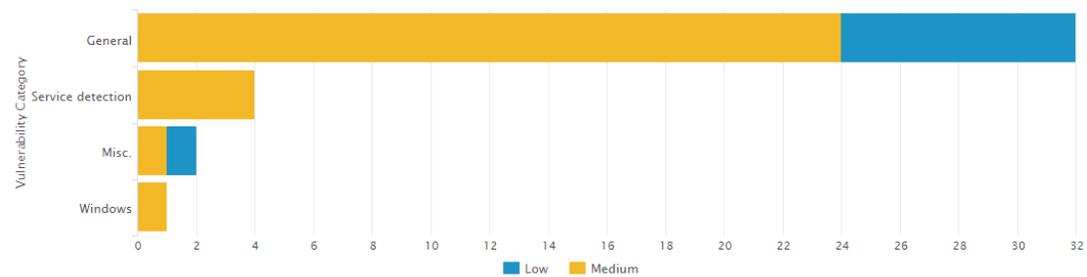
Graph: Vulnerability Category by Host

This report illustrates the vulnerability category and count by host discovered this report period



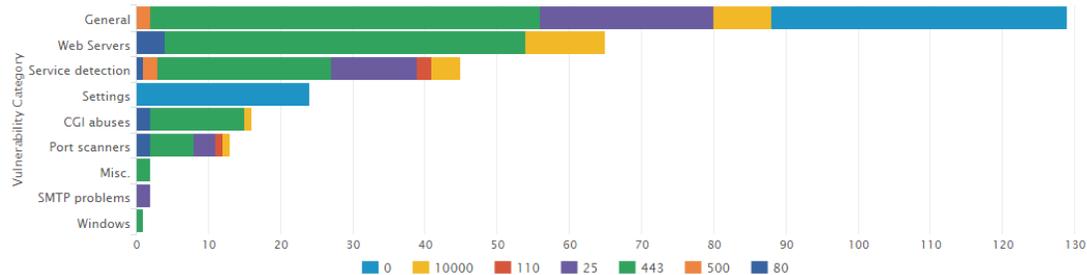
Graph: Vulnerability Category by Risk

This report illustrates the vulnerability category and count by risk discovered this report period



Graph: Vulnerability Category by Port

This report illustrates the vulnerability category and count by port discovered this report period

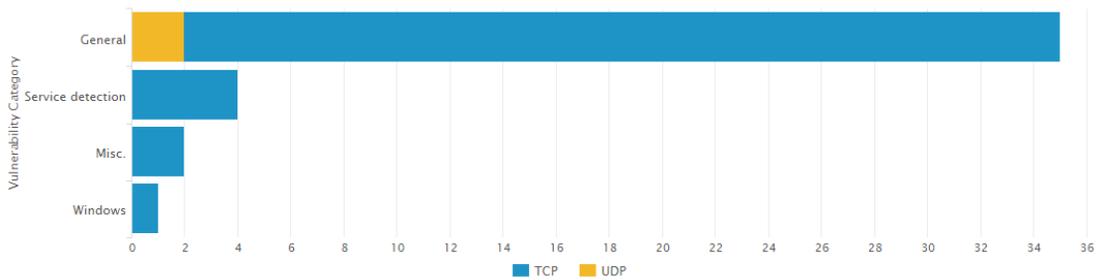


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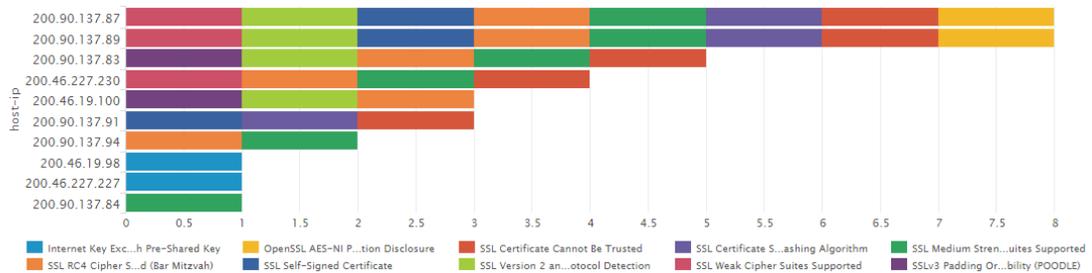
Graph: Vulnerability Category by Protocol

This report illustrates the vulnerability category and count by protocol discovered this report period



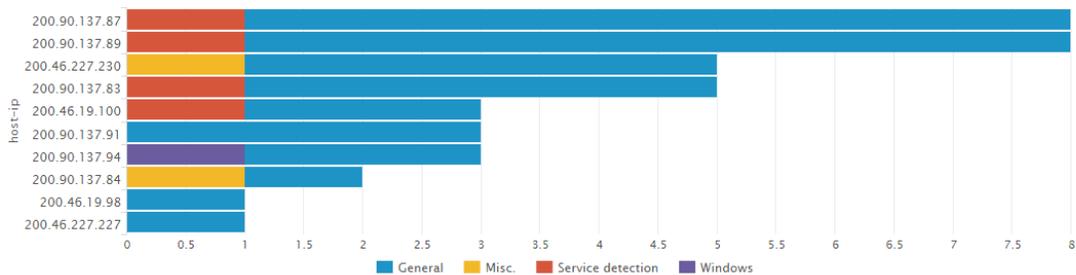
Graph: Host by Vulnerability Name

This report illustrates the vulnerability name and count by hosts discovered this report period



Graph: Host by Vulnerability Category

This report illustrates the vulnerability category and count by hosts discovered this report period

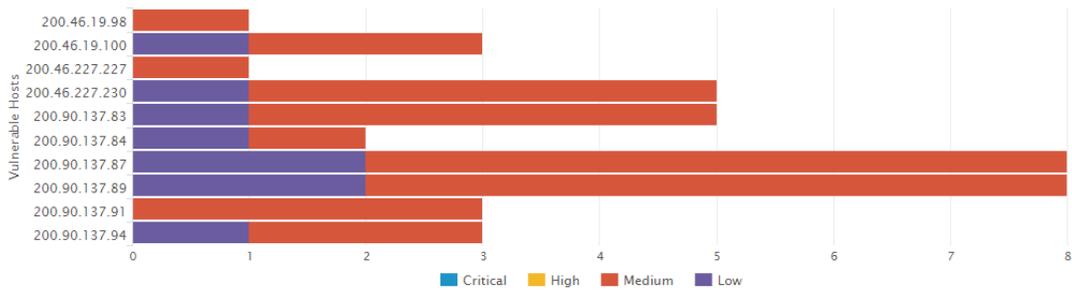


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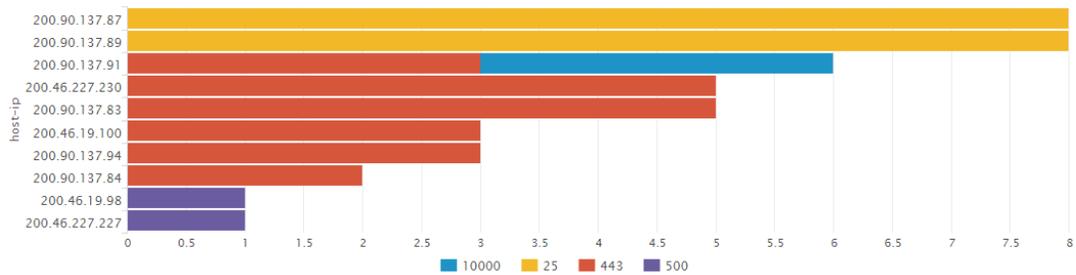
Graph: Host by Vulnerability Risk

This report illustrates the vulnerability risk and count by hosts discovered this report period



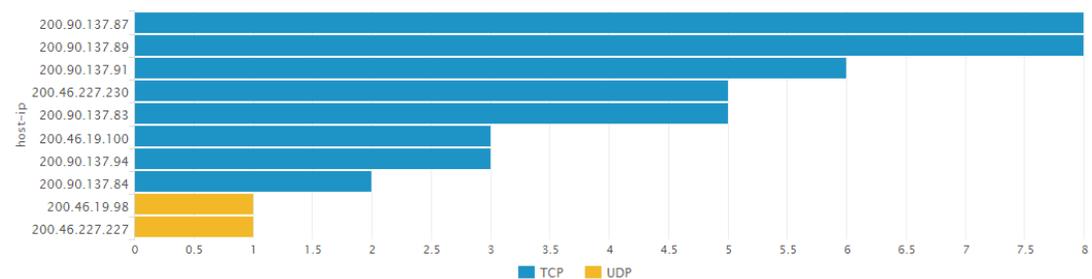
Graph: Host by Port

This report illustrates the port and count by hosts discovered this report period



Graph: Host by Protocol

This report illustrates the protocol and count by hosts discovered this report period



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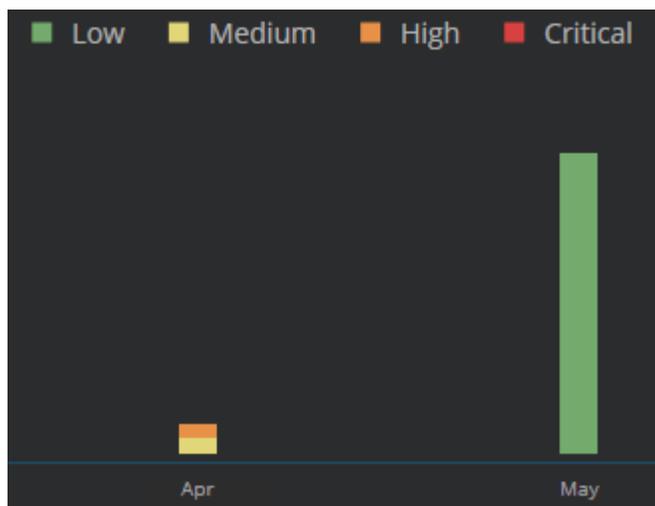


**Managed End Point Incident Response Service (MSS-EIR) Intelligence Section**

*The MSS-EIR is a preventive detection and response and a forensic service to identify without signatures and mitigate an attack to the end-points and servers of an organization. The service works by actively seeking malicious activity in the customer's network based on suspicious behaviors (not based on signatures). This technology allows our analysts to detect malicious software that may have evaded existing security countermeasures. At the same time we conduct investigations by responding to a security alert – this service is based on leveraging a powerful investigation platform to shorten the investigation time, respond to more incidents and get to the root cause of each incident.*

*The purpose of this section is to highlight intelligence gathered from this and other services under contract as well as outside sources such honeypots, known malicious sources, vulnerability databases, relationships with CERT and CSIRT teams that GLESEC possesses, together with various other threat feeds.*

*The following graphs are dashboards generated by GLESEC's TIP™ platform. These dashboards are representative of metrics for this service. The dashboards will be presented in the next report.*

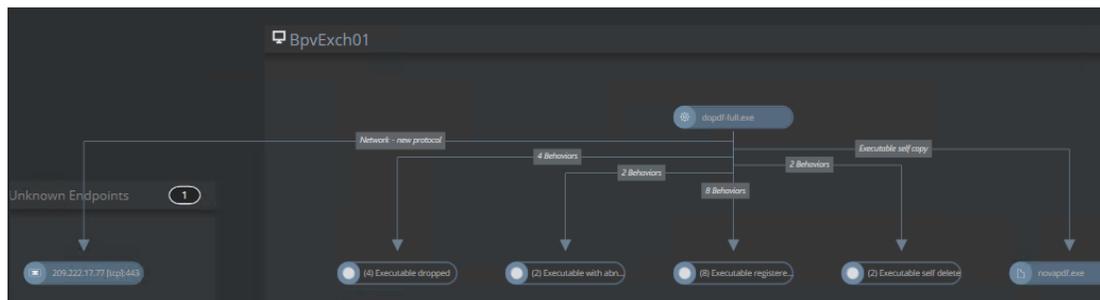
**Graph: Severity by Month**



## Top Events Registered

**Dopdf**

We observed that during this month there was a connection initiated by entity dopdf-full.exe to public IP 209.222.17.77:443, on agent BpvExch01. This application was started by user: Jorge.jarpa on the 7<sup>th</sup> of May 2018, at 9:42 AM. The execution path where this process was started was "c:\users\jorge.jarpa\appdata\local\temp\"



It was also found that this process dropped and self-deleted executable files one minute after the connection mentioned before was initiated. This might suggest the normal installation of the application or a malicious behavior where this process connects to an external IP address, downloads files, executes code and lastly self-deletes those file as a way of cleaning up the scene. If Banvivienda is aware of this event or it is part of regular procedures, please let the GOC know.

**SQL SERVER**

From agent BpvUltimusDB84 with internal logical address 10.100.210.62, on the 28<sup>th</sup> of May 2018, at 4:20 PM, several connections to 10.100.201.68 were registered (this raises an alert because we are not aware what device corresponds to this address) as the destination port was different every time, this might suggest a TCP response to that address. This event occurred many times in the same day. The execution path to the file where the process "sqlservr.exe" was created was "D:\Program Files\Microsoft SQL Server\MSSQL11.MSSQLSERVER\MSSQL\Binn\sqlservr.exe" -sMSSQLSERVER. If Banvivienda is aware of this event or it is part of regular procedures, please let the GOC know.

Multiple Behaviors List (48)

Drag and drop here to group the wanted column

Behavior Name	Start Time	End Time	From	To
> Network - new protocol	5/28/2018 2:58 PM	5/28/2018 2:58 PM	sqlservr.exe	10.100.201.68 [tcp]:33360
Network - new protocol	5/28/2018 2:18 PM	5/28/2018 2:18 PM	sqlservr.exe	10.100.201.68 [tcp]:38686
Network - new protocol	5/28/2018 12:31 PM	5/28/2018 12:31 PM	sqlservr.exe	10.100.201.68 [tcp]:34048
Network - new protocol	5/28/2018 12:01 PM	5/28/2018 12:01 PM	sqlservr.exe	10.100.201.68 [tcp]:44630
Network - new protocol	5/28/2018 10:58 AM	5/28/2018 10:58 AM	sqlservr.exe	10.100.201.68 [tcp]:33708

**Ultimus**

From agent BpvUltimusFE84, on the 21th of May 2018, at 5:22 PM, initiated a connection to IP address 172.16.1.200:389. The source process name was ultimusingorganizationcharts.exe, this seems like this application tried to fetch information from host IP 172.16.1.200 on port 389(LDAP), which is not part of the group of hosts with agents installed. User used to create this process was jorge.gaitan. If Banvivienda is aware of this event or it is part of regular procedures, please let the GOC know.

Network send

**From**

- ultimusingorganizationcharts.exe
- File md5: feeb305189f601bd2fe4678134f928f7
- Process command line: "C:\Program Files (x86)\Ultimus Adaptive BPM Suite 8.4\UltimusOrganizationCharts.exe"
- Process creation time: 5/21/2018 5:22:54 PM
- Process directory: c:\program files (x86)\ultimus adaptive bpm suite 8.4\
- Process integrity level: High Mandatory
- Process pid: 15556
- Sid: s-1-5-21-798759585-2729888685-3708180398-8450
- User name: jorge.gaitan

**To**

- 172.16.1.200 [tcp]:389
- Source IP: 10.100.210.55
- Source port: 59042
- Protocol: Transmission Control Protocol (TCP)
- Destination port: 389
- Destination IP: 172.16.1.200

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### Managed Event Correlation Service (MSS-SIEM) Intelligence Section

The MSS-SIEM is an event correlation solution based on GLESEC's Multi-security Appliance ("GMSA") which when connected internally to the network allows sources to receive the data to be correlated and this generates intelligence, alerts and reporting, incident handling and management.

The purpose of this section is to highlight intelligence gathered from this and other services under contract as well as outside sources such honeypots, known malicious sources, vulnerability databases, relationships with CERT and CSIRT teams that GLESEC possesses, together with various other threat feeds.

The following graphs are dashboards generated by GLESEC's TIP™ platform. These dashboards are representative of metrics for this service.

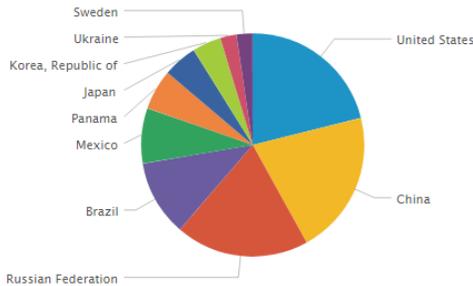
Graph: Denial Connections

This graphic shows the denied connections in the firewall rules

**422,527**

Graph: Top Country Blocked

This graphic shows top attacking countries blocked.

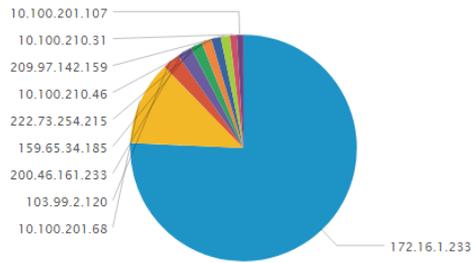


Graph: Top Attacks Blocked by IP address

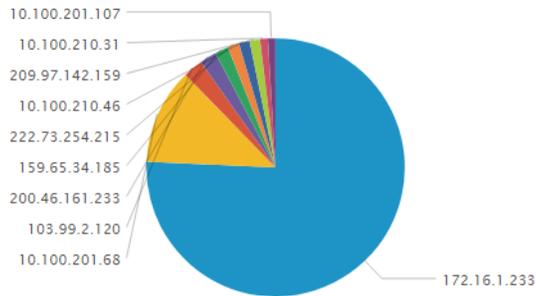
This graphic shows the top attacker's IP blocked

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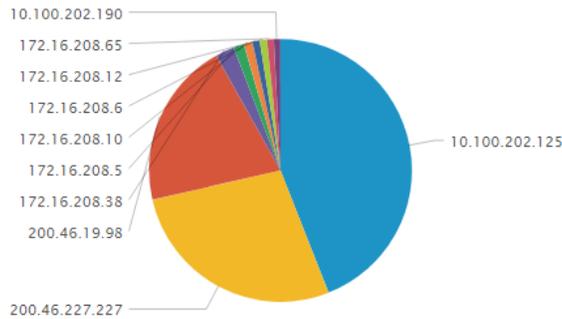




**Graph: Top Sources**  
This graphic shows top attack sources blocked



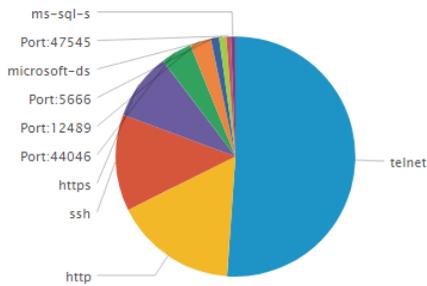
**Graph: Top Destinations**  
This graphic shows the top attack destinations denied



**Graph: Top Services**  
This graph provides the top services blocked by in and out firewall rules.

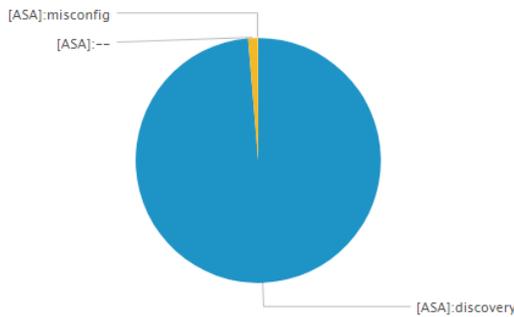
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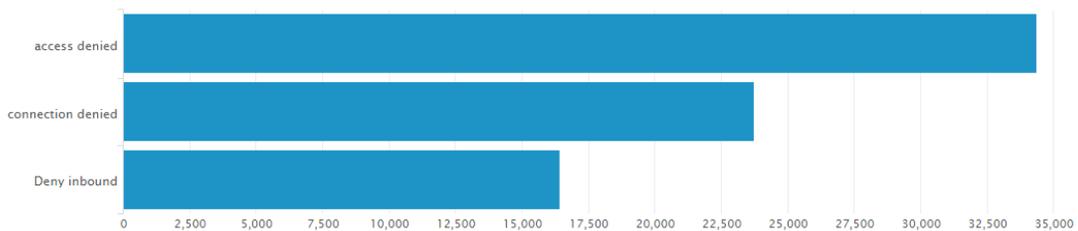
Graph: Top Threats

This graph shows the top threat category denied.



Graph: Actions Taken

This graph shows the most frequent actions taken in order to deny attacks.



Graph: Network Activity

This graph shows the most frequent traffic categories present in the network.

vendor_definition	count	percent
Network Access Point	47768195	99.115644
IKE and IPsec	47768195	99.115644
User Session	422537	0.876735
Access Lists	388161	0.805407
IP Stack	3613	0.007497
High Availability (Failover)	60	0.000124
NAT and PAT	10	0.000021

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## Cyber Security Operations

The purpose of this section is to highlight the activities performed by GLESEC's Global Operations Center (GOC) including: monitoring availability and performance of services under contract, Change Management, Incident Response activities and Consulting Activities.

### TICKET ACTIVITY

In this section we report on all the change management and incidents tickets for the month.

#### Monthly Reports Banvivienda 2018-05-01[..]

Ticket#	Title	Created
2018053010000016	Permiso de Trafico MSS-VME	2018-05-30 10:20:03
2018052810000039	Reporte de Incidencia 1172	2018-05-28 17:45:14
2018051610000025	Breach Attack Simulation-Banvivienda Mayo 2018	2018-05-16 09:06:45

*All the services operated normally during the month of May.*



## Definitions

**High Vulnerabilities** are defined as being in one or more of the following categories: Backdoors, full Read/Write access to files, remote Command Execution, Potential Trojan Horses, or critical Information Disclosure (e.g. passwords).

**Medium Vulnerabilities** describes vulnerabilities that either expose sensitive data, directory browsing and traversal, disclosure of security controls, facilitate unauthorized use of services or denial of service to an attacker.

**Low Vulnerabilities** describes vulnerabilities that allow preliminary or sensitive information gathering for an attacker or pose risks that are not entirely security related but maybe used in social engineering or similar attacks.

SMB/NetBIOS vulnerabilities could allow remote code execution on affected systems. An attacker who successfully exploits these vulnerabilities could install programs; view, change, or delete data; or create new accounts with full user rights. Firewall best practices and standard default firewall configurations can help protect networks from attacks that originate outside the enterprise perimeter. Best practices recommend that systems that are connected to the Internet have a minimal number of ports exposed.

Simple Network vulnerabilities affect protocols like NTP, ICMP and common network applications like SharePoint among others. This is not meant to be a comprehensive list.

Authentication and encryption are two intertwined technologies that help to insure that your data remains secure. Authentication is the process of insuring that both ends of the connection are in fact “who” they say they are. This applies not only to the entity trying to access a service (such as an end user) but to the entity providing the service, as well (such as a file server or Web site). Encryption helps to insure that the information within a session is not compromised. This includes not only reading the information within a data stream, but altering it, as well.

While authentication and encryption each has its own responsibilities in securing a communication session, maximum protection can only be achieved when the two are combined. For this reason, many security protocols contain both authentication and encryption specifications.

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