Put an end to cyberthreats

Panda Adaptive Defense 360

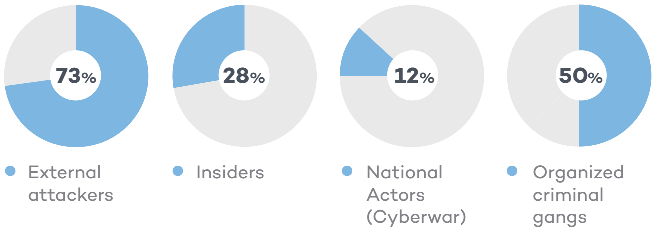
Automated and centralized *Advanced Security*

panda

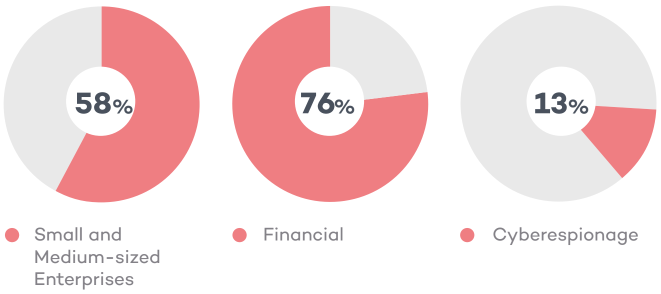
pandasecurity.com

CORPORATE CYBERSECURITY

Who is behind cyberthreats?[1]



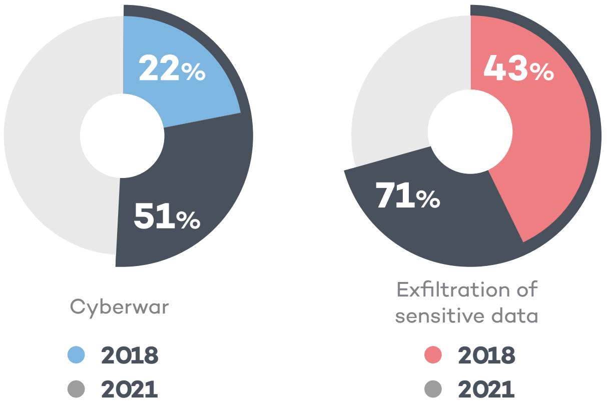
Who are the victims? What are the motives?[1]



What is the cost to companies?

- **Global cost:** $600,000 M[2]
- **Cost of a Data Breach:** $3.86 M[3]

Companies and perception of high risk[4].



In 60% of cases, national attacks lead to **cyberwar**.

Endpoints are the new perimeter

Mobility, processing and cloud storage have revolutionized corporate environments. **Endpoints are the new perimeter**. Security solutions on endpoints must be **advanced, adaptive and automatic**, with the highest levels of prevention and detection of attackers, who will sooner or later manage to evade preventive measures. Such solutions must also offer agile tools to respond quickly, minimizing damage and reducing the attack surface.

Professionalization of hackers

Enemies are **increasingly sophisticated** and **growing in number**, the result of their professionalization, the democratization of technologies and the continuous leaks of cyberintelligence.

Next-generation cyberthreats are designed to slip past **traditional solutions** completely undetected.

Cyberdefense in organizations

Hackers are targeting computers and servers, where the most valuable assets of organizations reside, and **security teams have great difficulties in defending them. EDR** (Endpoint Detection and Response) applications, far from being the solution, **increase workloads,** as there is no automation of threat prevention, detection, containment and response. **Improving the security posture** of your company, **without increasing operating costs** inevitably means **automating the prevention, detection and response capabilities** in endpoints.

ENDPOINT DETECTION AND RESPONSE SOLUTIONS (EDR)

EDR solutions monitor, log and store the details of endpoint activity, such as user events, processes, changes to the registry, memory and network usage. This visibility uncovers threats that would otherwise go unnoticed.

What are the hidden problems with EDR solutions?

Multiple techniques and tools are used to search for security anomalies in events and confirm or reject alerts. All of this requires human intervention.

EDR solutions require 24/7 supervision, and rapid response from highly qualified personnel.

However, such resources are expensive and hard to find. Short-staffed organizations with low budgets are unprepared to take advantage of the benefits of EDR solutions on their own. Personnel find themselves with greater workloads deriving from the implementation and operation of these solutions, instead of supporting them in what matters: improving the security posture of their organizations.

[1] “2018 Data Breach Investigation report”. Verizon
[2] “2018 Economic Impact of Cybercrime — No Slowing Down”. CSIC/McAfee
[3] “2018 Study on Global Megatrends in Cybersecurity”. Ponemon Institute
[4] “2018 Cost of a Data Breach Study: Global Overview”. Ponemon Institute/IBM Security

Panda Adaptive Defense 360

Panda Adaptive Defense 360 is an innovative cybersecurity solution for desktops, laptops and servers, delivered from the cloud. It **automates the prevention, detection, containment and response** against any present or future advanced attacks, zero-day malware, ransomware, phishing, memory exploits and malwareless attacks, inside and outside the corporate network.

It differs from other solutions in that it combines the widest range of **protection technologies (EPP) with automated EDR capabilities**, thanks to two services **managed by Panda Security experts**, and delivered as features of the solution:

- **100% attestation Service.**
- **Threat Hunting and Investigation Service (THIS).**

Thanks to its cloud architecture, the **agent is light** and does not impact the performance of endpoints, which are managed through a **single cloud console**, even when not connected to the Internet.

Panda Adaptive Defense 360 integrates **Cloud Protection** and **Management Platforms (Aether)**, which maximize prevention, detection and automated response, minimizing the effort required.

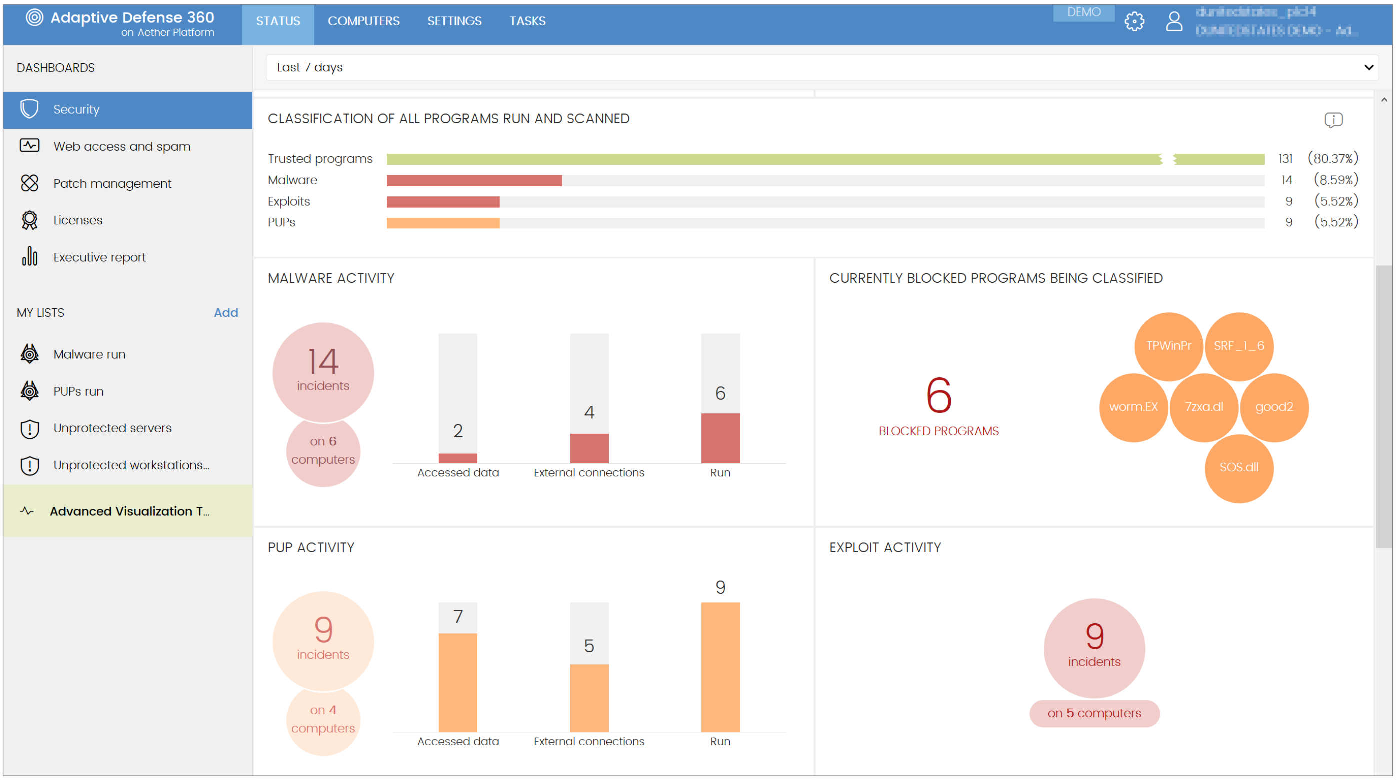


Figure 1: A single dashboard provides a global vision and consolidated management prioritizing detected threats

BENEFITS

Panda Adaptive Defense 360

Simplifies and minimizes the cost of advanced and adaptive security

- Its managed services reduce the cost of expert personnel. There are no false alarms, no responsibility is delegated.
- The managed services learn automatically from the threats. No time is wasted with manual settings.
- Maximum prevention on endpoints. Operating costs are reduced practically to zero.
- There is no management infrastructure to install, configure or maintain.
- Endpoint performance is not impacted as it is based on a lightweight agent and cloud architecture.

Automates and reduces detection and exposure time (Dwell Time)

- Prevents the running of threats, zero-day malware, ransomware and phishing.
- Detects and blocks malicious activity in memory (exploits), before it can cause damage.
- Detects malicious processes that slip past preventive measures.
- Detects and blocks hacking techniques and procedures.

Automates and reduces response and investigation time

- Automatic and transparent remediation.
- Recovery of endpoint activity – immediate recovery of normal activity.
- Actionable insights into attackers and their activity, speeding up forensic investigation.
- Helps reduce the attack surface. Supports improvement to security posture and maturity.

CLOUD *ADAPTIVE* PROTECTION *PLATFORM*

Humans and Machines Leading Advanced and Adaptive Security.

100% ATTESTATION SERVICE

The 100% Attestation Service monitors and prevents the execution of malicious applications and processes on endpoints. For each execution, it issues a real-time **classification, malicious or legitimate, with no uncertainty**, and without delegating to the client. All this is possible thanks to the speed, capacity, flexibility and scalability of AI and cloud processing.
The service combines **Big Data** and multi-level **Machine Learning**, including **Deep Learning**, the result of the continuous supervision and automation of **the experience, intelligence and accumulated knowledge of experts** in security and threats at Panda Security's Intelligence center.

The 100% Attestation Service is able, like no other solution on the market, to free companies from the risk of running malware on endpoints inside and outside the corporate network.

THREAT HUNTING & INVESTIGATION MANAGED SERVICE

There will be always threats that bypass the deployed security controls

Threat Hunting is the process to discover new, advanced threats and their TTPs*, beyond those that current Threat Detection systems can block before they cause serious damage to the organization.

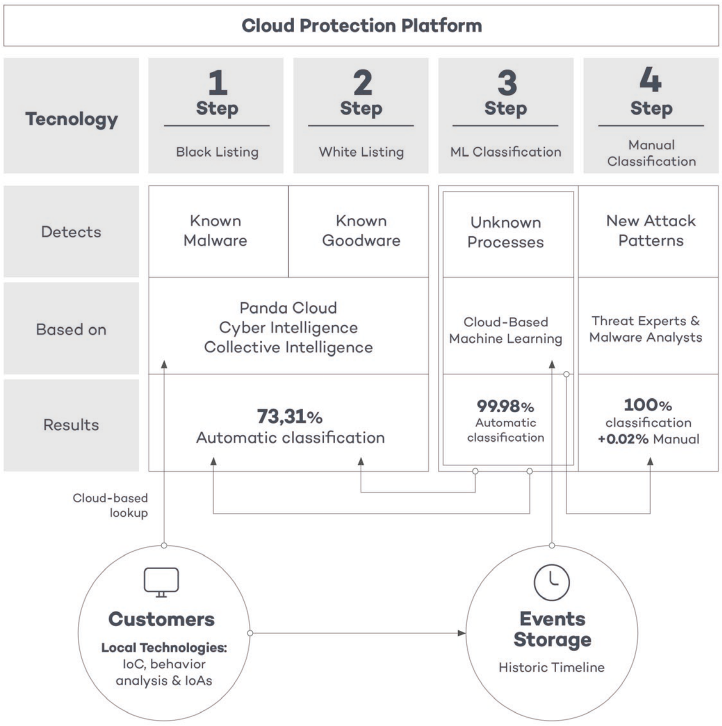
Threat hunters operate on the premise that organizations are in a **continuous state of compromise.**

Among others, its **benefits** are:

- Create new Threat Detections.
- Improve the Incident Response.
- Reduce the Attack surface.

Panda Security **Threat Hunting and Investigation** managed service is operated by highly skilled cyber-security experts, armed with profiling, analysis and events correlation in real-time and retrospectively tools, discover new hacking and evasion techniques.

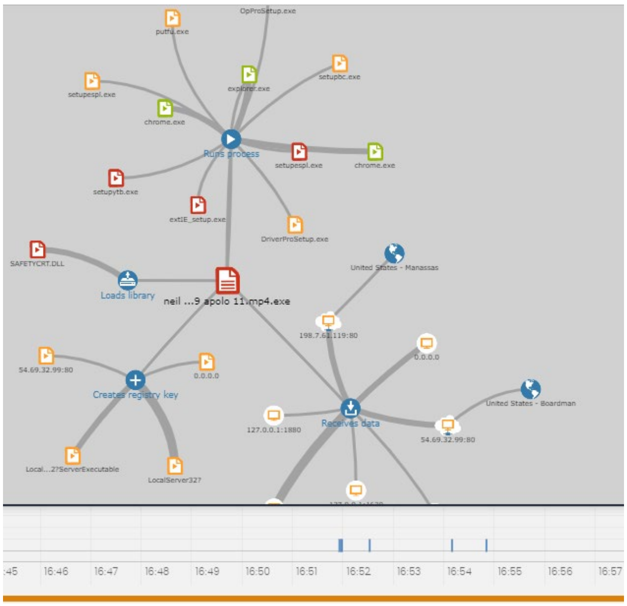
Figure 2: Workflow of the managed cloud classification service



Cloud Protection Platform

Tecnology	1 Step Black Listing	2 Step White Listing	3 Step ML Classification	4 Step Manual Classification
Detects	Known Malware	Known Goodware	Unknown Processes	New Attack Patterns
Based on	Panda Cloud Cyber Intelligence Collective Intelligence		Cloud-Based Machine Learning	Threat Experts & Malware Analysts
Results	73,31% Automatic classification		99.98% Automatic classification	100% classification +0.02% Manual

Figure 3: The Panda Adaptive Defense 360 console incident timeline enables forensic investigation: the date it was first seen on the network, names and number of endpoints affected, settings changes and with whom it has communicated.



* TTPs: Tactics, techniques and procedures used by hackers

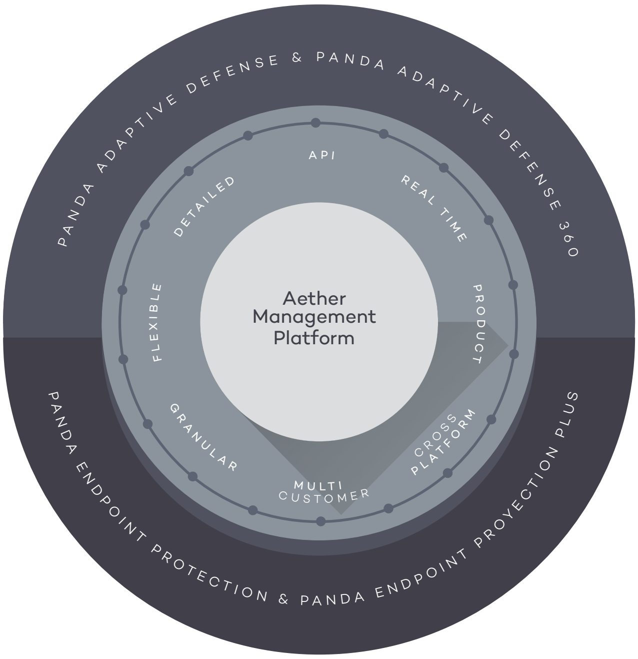
CLOUD MANAGEMENT PLATFORM: AETHER

Next-generation security, visibility and control. Comprehensive and scalable from the cloud, to deliver value immediately

The Aether platform and its cloud console, common to all Panda Security endpoint solutions, optimize the management of advanced and adaptive security inside and outside the network.

Designed so that security teams focus solely on managing the cybersecurity posture of the organization, it minimizes complexity and maximizes flexibility, granularity and scalability.

Figure 3: Unified cloud management platform: Aether


PANDA ADAPTIVE DEFENSE & PANDA ADAPTIVE DEFENSE 360
API
REAL TIME
PRODUCT
CROSS PLATFORM
MULTI CUSTOMER
GRANULAR
FLEXIBLE
DETAILED
Aether Management Platform
PANDA ENDPOINT PROTECTION & PANDA ENDPOINT PROYECTION PLUS

BENEFITS OF AETHER IN

Panda Adaptive Defense 360

Achieve greater value in less time. Simple to implement – immediate visibility

- Deployment, installation and configuration in minutes. See the value from day one.
- Lightweight multi-product and multi-module Panda agent. Cross-platform (Windows, Mac, Linux, Android).
- Automatic discovery of unprotected endpoints. Remote installation.
- Proprietary proxy technology, even on computers with no Web connection.
- Traffic optimization, with proprietary repository/cache technology.

Easy to use, adapting to your organization

- Intuitive Web console. Flexible and modular management.
- Predefined and custom roles.
- Detailed audit of actions in the console.
- Users with total or restricted permissions and visibility.
- Security policies for groups and endpoints.
- Hardware and software inventories and change log.

Facilitates monitoring. Accelerates response

- Prioritized key indicators and dashboards.
- Prioritized and confirmed alerts in your workflow.
- Complete and actionable history of incidents: processes involved, source, dwell time, prevalence, etc.
- Act on endpoints with a single click: restart, isolate, patch and scan, accelerating the response.

ADVANCED AUTOMATED SECURITY ON ENDPOINTS

Panda Adaptive Defense 360 integrates, in a single solution, traditional preventive technologies with innovative technologies for prevention, detection and automated response against advanced cyberthreats.

Traditional preventive technologies

- Personal or managed firewall. IDS.
- Device control.
- multivector permanent antimalware and on-demand scan.
- Managed blacklisting/whitelisting. Collective intelligence.
- Pre-execution Heuristics.
- Web access control.
- Antispam & Antiphishing.
- Anti-tampering.
- Mail content filter.
- Remediation and rollback.

Advanced security technologies

- EDR: continuous monitoring on endpoints activity.
- Prevention of execution of unknown processes.
- Cloud-based Machine Learning of behavior to classify 100% unknown processes (APTs, ransomware, Rootkits, etc.)
- Cloud-based Sandboxing in real environments.
- Behavioral analysis and IoA detection (scripts, macros, etc.).
- Automatic detection and response to memory exploits.
- Managed Threat Hunting for malwareless attacks.

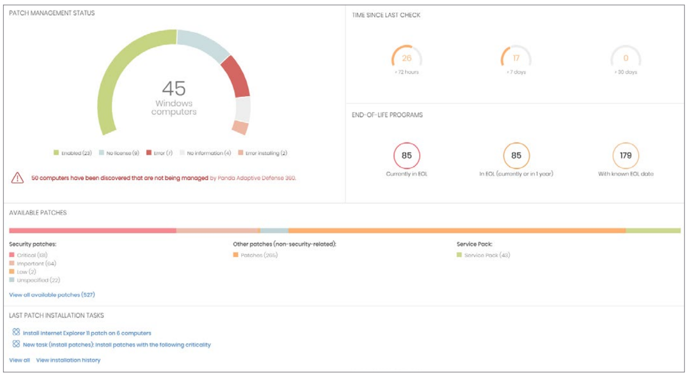
OPTIONAL MODULES

Panda Patch Management

Panda Patch Management is an intuitive solution for managing vulnerabilities in operating systems and third-party applications on Windows endpoints and servers. The result is a reduced attack surface, strengthening preventive capabilities and incident containment.

Panda Data Control

Panda Data Control discovers, audits and monitors unstructured sensitive or personal data on endpoints: from data at rest to data in use and data in motion.



PATCH MANAGEMENT STATUS

45 Windows computers

Enabled (23) · No license (9) · Error (7) · No information (4) · Error installing (2)

⚠ 50 computers have been discovered that are not being managed by Panda Adaptive Defense 360.

TIME SINCE LAST CHECK

26 +72 hours · 17 +7 days · 0 +30 days

END-OF-LIFE PROGRAMS

85 Currently in EOL · 85 In EOL (currently or in 1 year) · 179 With known EOL date

AVAILABLE PATCHES

Security patches:
- Critical (131)
- Important (64)
- Low (2)
- Unspecified (22)

Other patches (non-security-related):
- Patches (265)

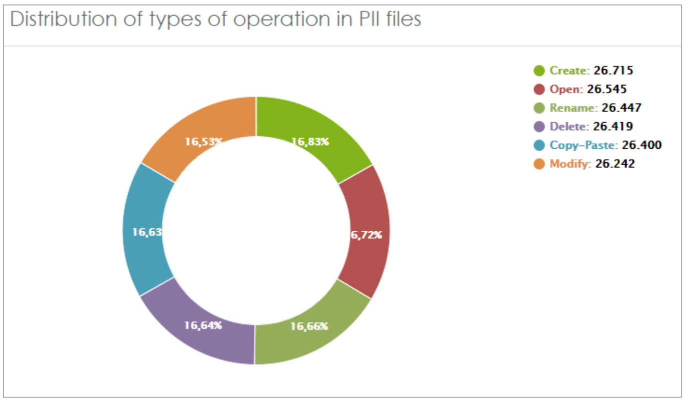
Service Pack:
- Service Pack (43)

View all available patches (527)

LAST PATCH INSTALLATION TASKS

- Install Internet Explorer 11 patch on 6 computers
- New task (install patches): Install patches with the following criticality

View all · View installation history

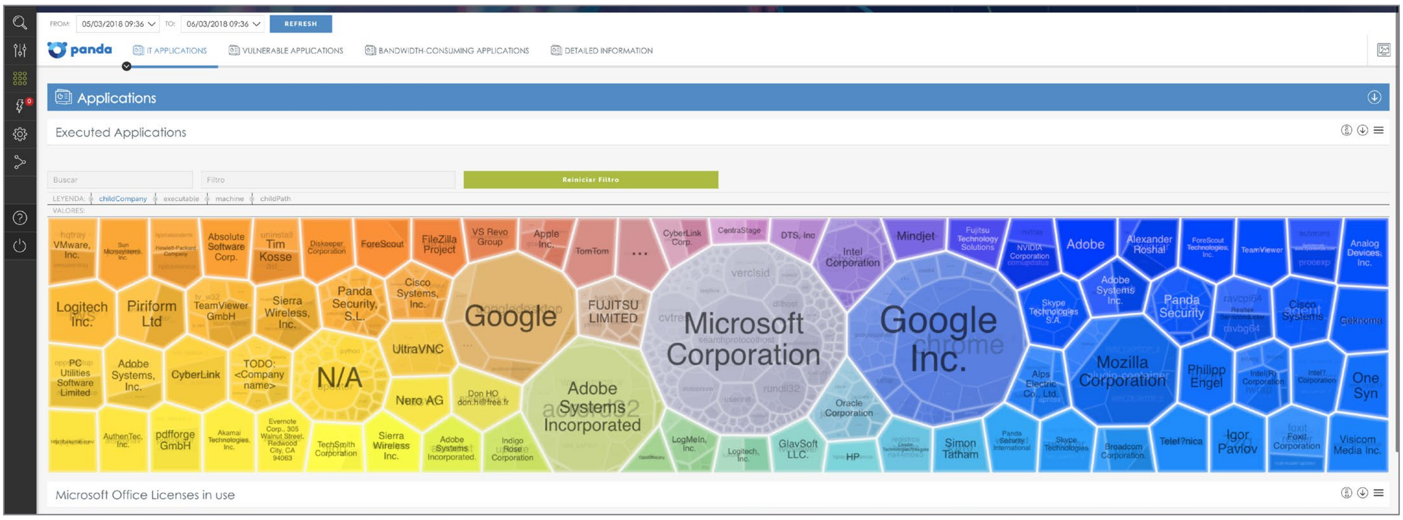


Distribution of types of operation in PII files

Panda Advanced Reporting Tool

Reporting platform automates the correlation of the information generated by the execution of processes and applications on protected endpoints and their context, which Panda Adaptive Defense 360 collects and enriches in the Cloud Protection Platform.

Panda Advanced Reporting Tool automatically generates intelligence on organization activity and enables the searching, correlation and configuration of alerts regarding events.



FROM: 05/03/2018 09:36 TO: 06/03/2018 09:36

LEYENDA: childCompany | executable | machine | childPath

VALORES:

The **SIEMFeeder** module sends to organizations, in real time, the events collected on endpoints and enriched with security intelligence in the Cloud Protection Platform so it can be integrated in the corporate SIEM.

Find out more at: www.pandasecurity.com/business/solutions

AWARDS AND CERTIFICATIONS

Panda Security regularly participates in and receives awards for protection and performance from Virus Bulletin, AV-Comparatives, AV-Test, NSSLabs.

Panda Adaptive Defense achieved the EAL2+ certification in its evaluation for the Common Criteria standard.

Panda Security acknowledged as 'Visionary' in the Gartner Magic Quadrant for Endpoint Protection Platforms (EPP) 2018.

AV-Comparatives endorses Adaptive Defense 360 "As this solution classifies all executed processes, it cannot fail to record any malware"

"Foresight is our greatest ally when it comes to defining our future needs and preventing risks. Adaptive Defense 360 gives us the visibility we need to achieve this foresight."

Jean-Yves Andreoletti

Systems and Networks Integration, Validation and Maintenance Platform Engineer

Supported Platforms and System Requirements of our Endpoint Security Solutions

The supported platforms are continually evolving in order to provide the maximum possible coverage to the newest operating systems. Access the online help of each of our products at the following links:

Windows Servers & Workstations: http://go.pandasecurity.com/endpoint-windows/requirements
Mac OS Devices: http://go.pandasecurity.com/endpoint-macos/requirements
Linux Servers & Workstations: http://go.pandasecurity.com/endpoint-linux/requirements
Android Mobile & Devices: http://go.pandasecurity.com/endpoint-android/requirements

Panda Patch Management: http://go.pandasecurity.com/patch-management/requirements
Panda Data Control: http://go.pandasecurity.com/data-control/requirements
Panda Cloud Systems Management: http://go.pandasecurity.com/systems-management/requirements

More information at:

pandasecurity.com/business/adaptive-defense/

panda

pandasecurity.com