Intrusion Prevention System Software Blade

Check Point IPS (Intrusion Prevention System) combines industry-leading IPS protection with breakthrough performance at a lower cost than traditional, stand-alone IPS software solutions. IPS delivers complete and proactive intrusion prevention – all with the deployment and management advantages of a unified and extensible Next Generation Firewall solution.

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Overview

Benefits

Next Generation Threat Prevention and performance

- Industry-leading IPS as tested by NSS Labs delivers 1,000s of signature, behavioral and preemptive protections
- Check Point is ranked #1 in Microsoft and Adobe threat coverage
- Combines with best-of-breed firewall and application control and more on the most comprehensive Next Generation Firewall

Unrivaled multi-gigabit performance in an integrated IPS solution

- Up to 250 Gbps of IPS throughput
- Stateful Inspection and SecureXL technology deliver multi-tier IPS inspection and accelerated IPS throughput
- CoreXL technology provides the most efficient and high-performance use of multi-core technologies

Lowest TCO and fastest ROI of any enterprise-class firewall solution

- One-click activation of Intrusion Prevention System and firewall protection on any Check Point gateway
- Delivers unmatched extensibility and flexibility—all without adding CapEx
- Integrated into the Check Point Infinity Architecture for real-time threat prevention

> *The Check Point IPS Software Blade is delivering better security than our previous IPS software solution and at a lower cost. Check Point has designed the IPS software blade for efficient resource utilization, which improves performance, mission critical availability, and uptime.*

Michael Hobbie

Network Engineer

Superior Court of Orange County

more

Features

Complete Intrusion Prevention System (IPS) Functionality

Check Point IPS complements our firewall protection, further securing your network without degrading gateway performance. IPS provides comprehensive network protection against malicious and unwanted network traffic, including:

- Detection and prevention of specific known exploits

- Detection and prevention of vulnerabilities, including both known and unknown exploit tools

- Detection and prevention of protocol misuse which may indicate potential threats

- Detection and prevention of outbound malware communications

- Detection and prevention of tunneling attempts that may indicate data leakage

Trusted Security

- Real-Time protections
  IPS is constantly updated with new defenses against emerging threats. Many of the IPS protections are pre-emptive, providing defenses before vulnerabilities are discovered or exploits are even created.

- Microsoft vulnerability coverage
  Check Point is ranked #1 in Microsoft threat coverage, including preemptive protections against emerging vulnerabilities and exploits.

Multi-gigabit Integrated IPS Performance

Delivers multi-gigabit IPS throughput with the optimized IPS profile. IPS incorporates a high-speed pattern matching engine that does multi-layered, 2-tier inspection for maximum performance with thousands of protections enabled.

Dynamic Threat Management

With IPS and SmartEvent you gain a new, dynamic management paradigm for today's high volume, real-time and evolving threat environment. Check Point threat management workflows allow you to handle constant change quickly and efficiently, reducing your management overhead and allowing you to confidently and promptly deploy protections.

IPS and SmartEvent offer:

- New protections sandbox
  Build confidence in a 'sandbox' environment with no impact on your network.

Integrated IPS

Check Point IPS provides total security at a lower acquisition cost (up to 50% less) than multiple standalone solutions, all with up to 10x better price/performance than existing integrated IPS solutions. Integrated IPS has many advantages that are making it a new standard in security, including:

Reducing costs by consolidating multiple independent solutions. By integrating an IPS Software Blade into your existing firewall, you save on:

- Equipment purchase

- Hardware footprint

- Training and ongoing management

- Rack space

- Cabling

- Cooling

- Power

Facilitating reduced latency

- By inspecting the traffic only once for both firewall and IPS protection, integrated IPS causes less bottlenecking

Providing cohesive security policy

- An integrated IPS software solution drives a single, cohesive security policy

Offering common management and training

- Reduces management and training expenses

- Reduces errors and oversights

- Better match with IT organizational structures

- Increased operational effectiveness and efficiency

Making IPS deployment easier

- Add IPS protection to your gateway with the check of a box

Inspect SSL/TLS Encrypted Traffic

Scan and secure SSL/TLS encrypted traffic passing through the gateway. When traffic is passed through, the gateway decrypts the traffic with the sender's public key, inspects and protects, then re-encrypts, sending the newly encrypted content to the receiver.

- Automatic protection activation
  Activation of new protections, based on configurable parameters (performance impact, confidence index, threat severity). The difficulties of constant, individual management of thousands of protections are eliminated.

- Unified Management
  IPS is configured and managed through a common Check Point management interface.

- Configurable, actionable monitoring
  Track events through detailed reports and logs of what is most important, simplifying threat analysis and reducing operational overhead.

- Business-level views
  Customizable reports provide easy monitoring of critical security events associated with your business-critical systems.

- Multi-dimensional sorting
  Drag-and-drop columns of event data and the information will be automatically re-ordered.

- Actionable event logs
  Edit the associated protection, create an exception or view packet data directly from log entries.

Painless Deployment

- Deployed on your existing firewall
  Reduces deployment time and costs by leveraging existing security infrastructure.

- Granular protection control
  Easy-to-use protection profiles allow administrators to define signature and protection activation rules that match the security needs of your network assets.

- Predefined default and recommended profiles
  Allows for immediate and easy out-of-the-box use with profiles tuned to optimize security or performance.

- Optional detect-only mode
  Sets all your existing protections to only detect, but not block, traffic to allow you to evaluate your profile without risking disruption.

Granularly define exceptions for SSL/TLS inspection to protect user privacy and comply with corporate policy. Some encrypted content passing through the gateway should not be inspected, and therefore can be bypassed with a simple administrator policy definition.

Preemptive Security Updates

Patching is an incomplete security measure, which can leave your network open for attack. By taking a more comprehensive approach, which combines robust IPS functionality with a concerted patching strategy, network administrators can better equip themselves to handle 'Patch Tuesdays' and secure the network between upgrades and

IPS軟體刀鋒

IPS Software Blade
Delivers complete intrusion pr

Check Point 的 IPS 軟體刀鋒提供整合性次一代防火牆入侵防禦功能，提供全面的威脅覆蓋，包含了用戶端，主機端，作業系統和其他漏洞，惡意軟體/蠕蟲感染等等。IPS 軟體刀鋒功能的多層威脅檢測引擎結合了特徵碼、協議驗證、異常檢測，行為分析和其他方法，提供最高水準的網路 IPS 保護。IPS 掃描引擎能檢查相關性的攻擊，無須深度檢測即可快速過濾 90%的流量，進而減少維運成本並提高阻擋的準確性。
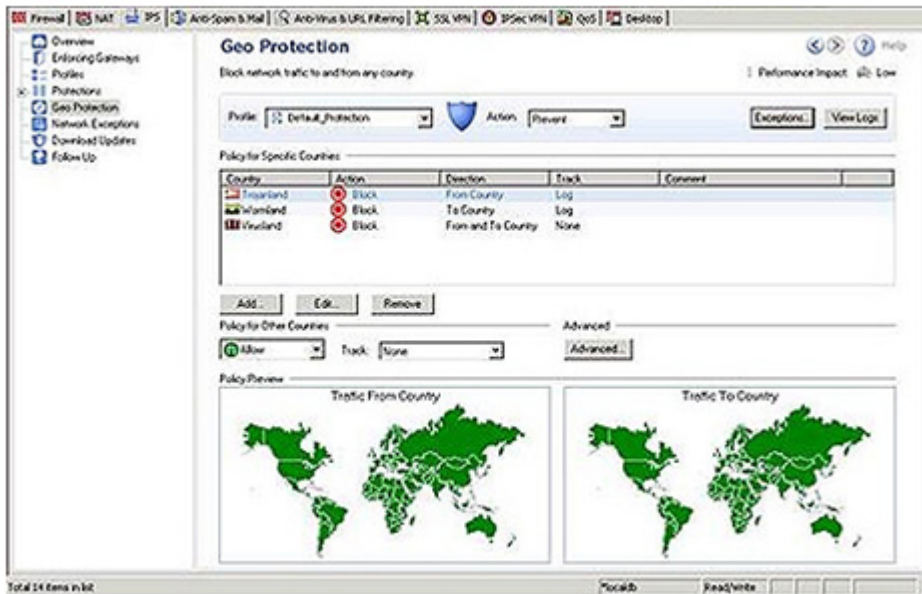
主要優點

完整功能的 IPS

提供完整功能防護，可針對惡意軟體、DoS/DDoS 攻擊、應用程式與 OS 弱點等完整防護。

方便設定的地理保護機制

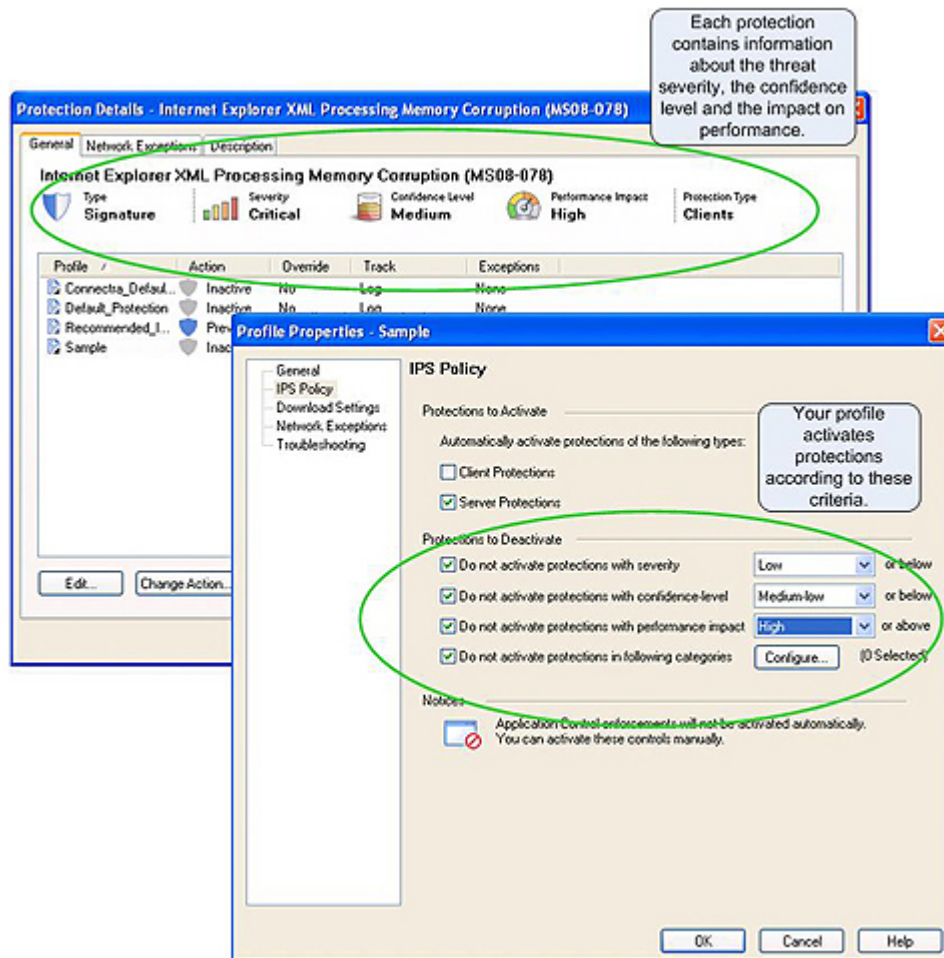提供地理保護機制，可監控網路流量的來源與目的地國家，並可創造例外情況的政策允許合法的流量通過，同時封鎖或監控未知或不信任來源流量。

無痛的部署方式

整合於 Open server，無須新增硬體，即可在現有防火牆上開啟，並可設定偵測模式，確保現有流量不受影響。

動態的威脅管理

整合 Check Point 事件管理軟體刀鋒 SmartEvent，使用者可於事件管理介面上直接進行管理規則調整。另外，使用者可自訂特徵碼防禦更新規則，在 IPS 更新特徵碼時，自動套用規則，既能提升防護效能又無須增加維運成本。

可檢查 HTTPS 加密內容

可針對 HTTPS 內容加以解析,並可設定 Bypass 規則,針對特定種類網頁不進行
解析,保護使用者隱私。

單一整合的管理/報表介面

整合 Check Point 既有管理與報表介面,在單一平台上即可進行多項軟體刀鋒功
能設定與報表檢視,大幅降低維運成本。