THREATCLOUD EMULATION SERVICE
DISCOVER AND STOP NEW, ZERO-DAY AND TARGETED ATTACKS

THREATCLOUD

Product Benefits

- Identify new malware hidden in Adobe PDF, Microsoft Office, Flash, Java Applets, executable and archive files
- Emulate files and documents for threats in a secure sandbox
- Protection against attacks targeting multiple Windows OS environments
- Emulate files within SSL and TLS communications
- Prevent malicious files from entering the organization

Product Features

- Cloud based service—works with your existing infrastructure. No need to install new equipment
- A unique exchange integration monitors email attachments offering protection from email-borne threats
- Zero false-positives means you can secure the network without stopping the flow of business
- Increase security with automatic sharing of new attack information with ThreatCloud

CHALLENGE

With the increase in sophistication of cyber threats, many targeted attacks begin with exploiting software vulnerabilities in downloaded files and email attachments.

These threats include new exploits, or even variants of known exploits unleashed almost daily with no existing signatures and therefore no standard solutions to detect those variants. New and undiscovered threats require new solutions that go beyond signatures of known threats.

SOLUTION

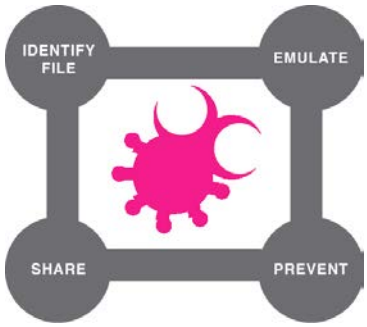
ThreatCloud Emulation prevents infections from undiscovered exploits, zero-day and targeted attacks. This innovative solution quickly inspects files and runs them in a virtual sandbox to discover malicious behavior. Discovered malware is prevented from entering the network. Check Point ThreatCloud Emulation reports to the ThreatCloud™ service and automatically shares the newly identified threat information with other Check Point customers.

Traditional solutions have focused on detection, providing notifications after a threat has breached the network. With Check Point ThreatCloud Emulation, new threats are blocked and infection does not occur.

HOW IT WORKS

Identify suspicious files at the organization

- Identify files in email attachments or downloads from the web
- Suspicious files are sent to the ThreatCloud Emulation Service
- Supported without Check Point infrastructure using a unique agent for Exchange server
- Supported on existing Security Gateways running R77



File emulation

- Launch files for emulation in a virtual sandbox environment
- Inspect file behavior in multiple operating systems and office versions
- Monitor activities: file-system, system-registry, processes and network connections
- Suspicious activities by files are flagged, and a unique algorithm further determines if the file is engaged in malicious activities
- Generate a detailed report including file details, abnormal activity and screenshots of the sandbox environment running the file

Prevent malicious file from entering the organization

- Malicious files are stopped inline before breaching the network

Share malicious information with ThreatCloud

- Immediate update to ThreatCloud to prevent newly detected malicious files from entering other organizations

CHECK POINT THREATCLOUD EMULATION FEATURES

ThreatCloud Emulation Service

ThreatCloud Emulation Service is a cost-effective cloud-based solution that leverages the existing infrastructure at the organization. Files can be sent for emulation from an existing security gateway or from an agent for Exchange server. ThreatCloud Emulation Service allows centralized management and visibility of both threat and service usage information.

Virtual Sandboxing

Check Point Threat Emulation works by intercepting and filtering inbound files, running them in a virtual environment, and flagging those files that engage in suspicious or malicious behavior commonly associated with malware, such as modifying the registry, network connections, and new file creation. Once new threats are discovered, the file signature is sent to Check Point ThreatCloud to turn the new malware into a known and documented threat that can be prevented.

Multiple Emulation OS Support

Check Point ThreatCloud Emulation provides multiple simultaneous environments for file simulation: Windows XP, 7, Microsoft Office and Adobe environments.

ThreatCloud Emulation Detailed Report

A detailed report is generated for each file emulation. The easy to understand report includes detailed information about any malicious attempts originated by running the file. The report provides actual screenshots of the environment while running the file for any operating system on which it was simulated.

Encrypted Communications

Files delivered into the organization over SSL and TLS represent a secure attack vector that bypasses many industry standard implementations. Check Point ThreatCloud Emulation looks inside SSL and TLS tunnels to extract and launch files to discover threats hidden in those protected streams.

Prevent Malicious Files from entering the Organization

Files are returned back to the security gateway or Exchange agent from ThreatCloud Emulation Service with detailed information about their activity. Malicious files are stopped from reaching the user and prevented from infecting the organization.

ThreatCloud Ecosystem

Newly discovered threats are sent to ThreatCloud, which can then protect other Check Point connected gateways. Each newly discovered threat signature is distributed to other Check Point connected gateways to block the threat before it has a chance to become widespread. Constant collaboration makes ThreatCloud the most advanced and up-to-date threat network available.

Simple and Flexible Deployment at the Organization

Check Point ThreatCloud Emulation works with existing networks. Files can be sent to the ThreatCloud Emulation Service or to a Private Cloud Emulation Appliance. Any R77 or newer Security Gateway or an agent for Exchange server can monitor incoming files and send suspicious ones to emulation.

SPECIFICATIONS

ThreatCloud Emulation Service

The cloud-based service offers options to address file emulation volume requirements per gateway, providing the flexibility to meet the needs of any sized organiztion.

Private Cloud Emulation Appliances

Two appliance options are available, to support organizations up to 3,000 users and for organizations with more than 3,000 users.

Emulation Specifications	
Supported Files for Inspection	Adobe PDF, Microsoft Office, EXE, files in archives , Flash, and Java Applets
Supported Emulation Environments	Microsoft Windows XP, 7; Microsoft Office; Adobe Reader

Security Gateway Specifications To detect and send files to ThreatCloud Emulation Service	
Supported Platforms	Check Point Appliances: 2000, 4000, 12000, 13000, and 21000 using R77 or higher; other appliances and open servers with equivalent performance to the above models are supported
Operating Environment	SecurePlatform or GAiA

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