

Quick Heal

Security Simplified

Quick Heal's Web Filtering Service

helping in securing organizations
and individuals, globally.

www.quickheal.co.in



Whitepaper

Author: Srinath Vangari
Software Engineering Manager



Overview

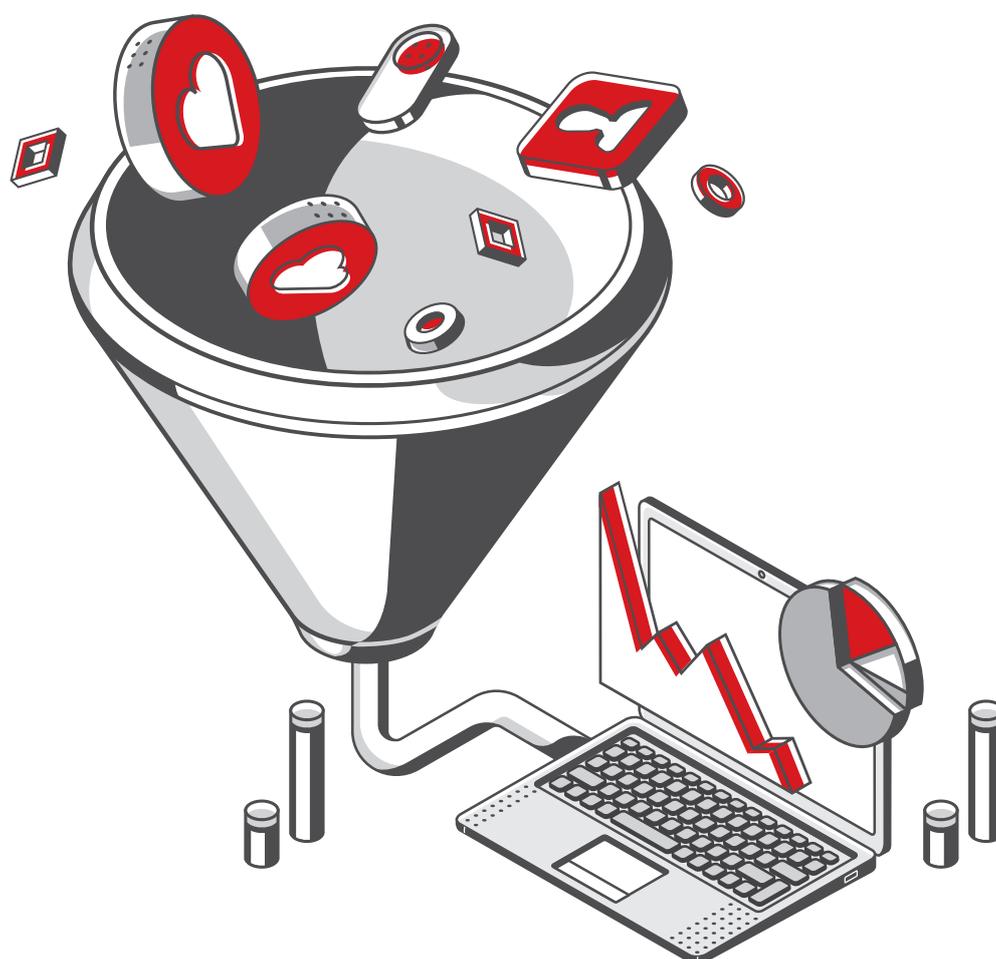
Internet access on corporate devices has always had considerable security risks associated with it. These risks have been further accentuated in the current phase of remote-working and dependence on connected devices. Even in our personal lives, as we become more and more dependent on the internet, the risks while surfing the internet have become very pronounced. On the world wide web you are not only faced with malicious websites trying to infect you with malware or steal your money via phishing attempts, but also websites that contain potentially harmful material such as pornography, or content related to terrorism, violence, racism, etc.

Web Protection module in Quick Heal & Seqrite products can diagnose & filter web content that contains offensive material and keep you & your family or employees away from harm.

Need of Web Protection against Web Threats?

India has seen a 37% increase in cyber attacks in the first quarter (Q1) of 2020, as compared to the fourth quarter (Q4) of last year. According to this report, Quick Heal Security Labs found that more than 80% of the malicious URLs are compromised/legitimate websites hacked by cybercriminals. Malicious webpages expose employees/individuals to phishing and credential theft, malware infection, and ransomware. Attackers use automation to dynamically generate thousands of malicious new URLs daily, overwhelming legacy protections such as standalone proxies or web filtering tools, which simply can't keep up. Sites hosting pornographic or gambling content are a boon for malware since they attract large amounts of traffic. Every day, a few tens to hundreds of new websites appear showing adult content.

Therefore, there is an urgent need for effective web content filtering tools to protect people from the adverse effects of exposure to harmful web content, especially with flooding of pornographic websites on the Internet.



Web Protection Service

Web Protection by filtering domains, URLs is provided by a cyber-security service, firewall, or router. Each of these may use a variety of threat intelligence sources to determine which websites fit into their chosen acceptable and unacceptable categories. That's where highly reliable web reputation services are valuable. Sources that have extensive web histories and real-time active crawling services will provide the most accurate content determinations.



Few common usages of Web Protection service/tools

- 01** Parental control - URL Classification is needed to block access to sites which are not safe for children or should be limited during the day (for example gaming sites)
- 02** Protect the organizations against known web-based threats, including phishing, malware, exploit kits, and command and control (CNC)
- 03** Data Leakage Prevention (DLP) - URL Classification is needed to block access to sites that shouldn't be accessed at work such as -



Social media



Streaming



Virus - rigged webpages



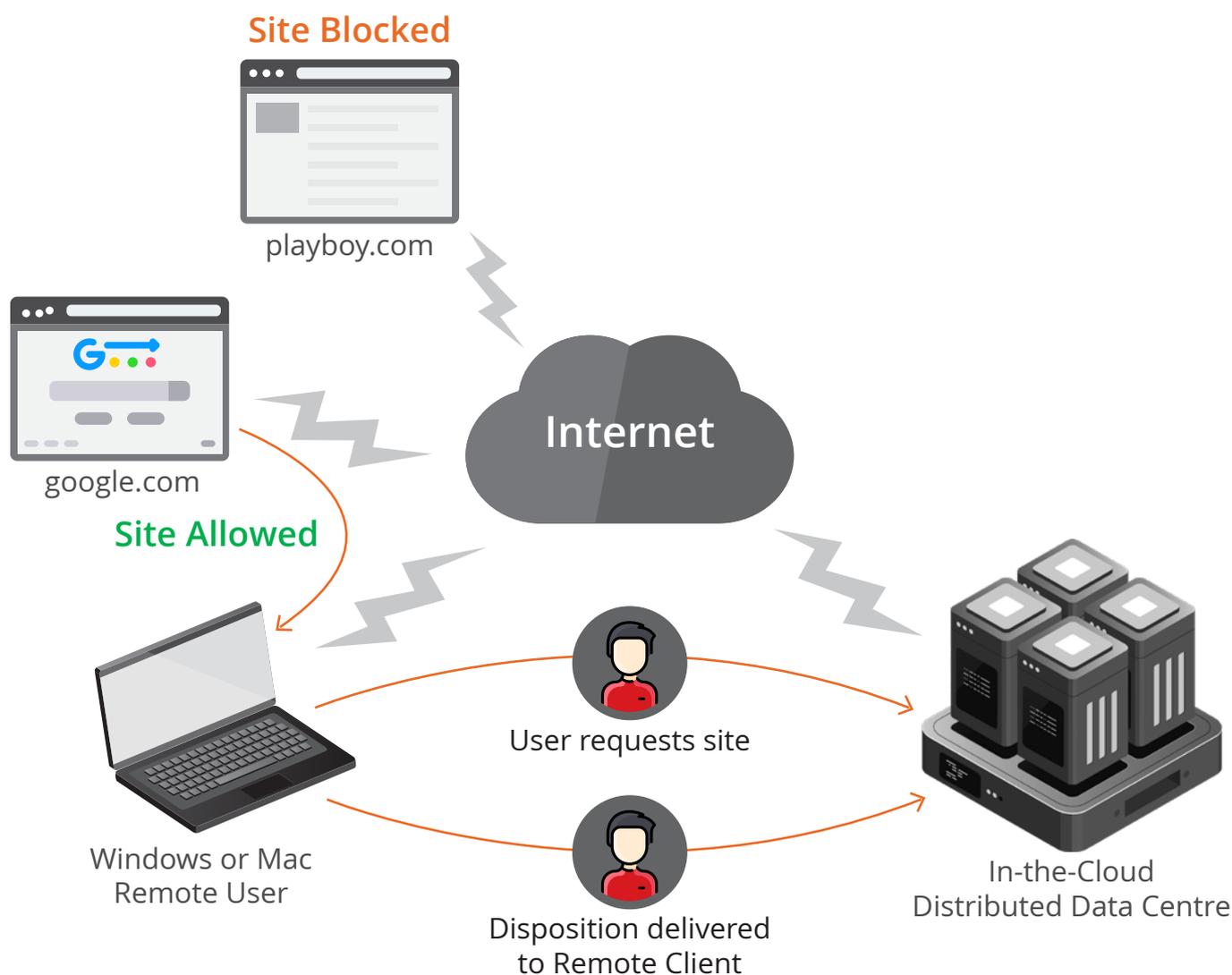
File hosting



Webmail

- 04 Protect the organizations from legal liabilities around web usage and compliance
- 05 Protect employees and improve their productivity by freeing up bandwidth

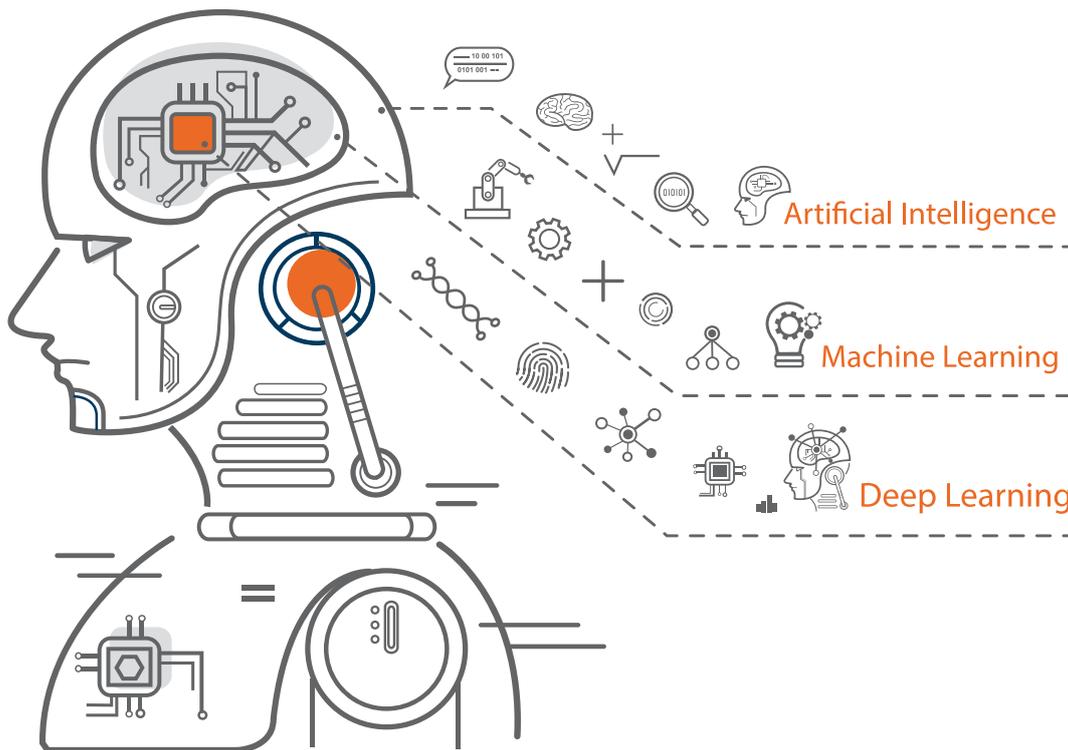
Quick Heal Web Filtering Service provides the most effective way to block access to unwanted content and protect users against web-based threats.



Features

Deep Learning-Powered Detection

Our cloud-delivered Quick Heal Web Filtering Service is ML-Powered and analyzes uncategorized sites using advanced machine learning, to stop never-before-accessed malicious URLs or URLs belonging to restricted categories



150K

URLs categorized in a day

Quick Heal Web Filtering processes an average of 150,000 new URLs every day in 2020 - that's **2 new URLs every 2 seconds**.

140 mln

URLs in cloud DB

Quick Heal Web Filtering Cloud DB has information on 140 million URLs & Domains

99.95%

Uptime

Quick Heal Web Filtering is built to handle infrastructure failures and provide high-quality service.

Classify domain, page-level, and full-path URL

Protects users, networks, and devices with the industry's best web security and parental controls solution. Goes beyond DNS filtering with protection and support at the domain, page-level, and full-path URL.

Critical Categories

With a strong emphasis on child protection and entertainment related sites, it helps in blocking the unwanted URLs

- ✗ Travel
- ✗ Transportation
- ✗ Translators
- ✗ Sports
- ✗ Restaurants & Dining
- ✗ Religion
- ✗ Real Estate
- ✗ Pornography/Sexually Explicit
- ✗ Politics
- ✗ Phishing & Fraud
- ✗ Non-profits & NGOs
- ✗ News
- ✗ Violence (includes Weapons category)
- ✗ Shopping (includes Greeting cards category)
- ✗ Malware
- ✗ Job Search
- ✗ Information Security
- ✗ Health & Medicine
- ✗ Government
- ✗ Games
- ✗ Gambling
- ✗ Finance
- ✗ Fashion & Beauty
- ✗ Education
- ✗ Dating & Matrimonial
- ✗ Consumer Electronics
- ✗ Business
- ✗ Alcohol & Tobacco
- ✗ Entertainment (includes Streaming media-downloads category)

New Sites Are Classified Automatically

All new sites and subsites are classified **on the fly within a few minutes**. No need to wait for a manual review.

Mis-Categorization Fix

Found an error with our classification? Simply let us know, and we will fix it. If it's urgent, and during working hours, you can contact us for quicker repair.

Faster Response

More than **80% request-response latency time** is less than 50 millisecond, helping in having a much better user experience.

Business Benefits

- ▶ Block new malicious sites - URL Filtering categorizes and blocks never-before-seen malicious URLs before they have a chance to infect your network and end-users.
- ▶ Prevent known malicious websites - protects your organization against known web-based threats, including phishing, malware, exploit kits, and command and control (CNC).
- ▶ Protect the organization from legal liabilities around web usage and compliance
- ▶ Improve network speed by blocking unwanted content
- ▶ Protect employees and improve their productivity by freeing bandwidth.

If you are interested to know more, do get in touch with us at [**marketing@quickheal.com**](mailto:marketing@quickheal.com)