



Safe Internet Access

Efficiency, Redefining Network Security Responsively

In the dynamic realm of service provision, the ability to implement and enforce policies efficiently is paramount. To promote safe browsing, service providers must comply with government orders blocking specific websites.

Most network equipment used by service providers are incapable of performing Deep Packet Inspection or accessing Payload data, comparing payload data to rules or policies, and enforcing required action. As a result, specialized solutions that can analyze payload data at wire speeds and enforce needed policies are required.

Underscore's Safe Internet Access (SIA) stands out as a cost-effective solution that empowers Service Providers to implement pragmatic policies without the need for disruptive network interventions. Safe Internet Access works by sniffing HTTP and/or HTTPS traffic on the well-known-service ports and uses another out-of-band interface to deliver a response in the network.

Safe Internet Access responds to policy violations by displaying a friendly webpage on the client browser to educate the user about the policy violation and prevent repeated accesses. Aside from returning a friendly page, the solution assures appropriate connection closure by sending a TCP reset to both the client and the server.

Benefits

- Simple drop-in deployment without the need for client reconfiguration.
- Lean and cost-effective solution to address regulatory requirement.
- No subscription license required.
- Usage not limited by number of users or client sessions.
- Simple CLI based configuration.

Key Features



L2 – L7 inspection of HTTP and HTTPS traffic



Supports 10Gb/second, 40Gb/second or, 100Gb/second Ethernet interfaces



Use private IP Address space for response interface



IPv4 and IPv6 support



Works with Network taps, switches, or routers



Available as physical appliance or VM.

Capabilities



Stateless single-arm mode Packet filtering policy enforcement.



Real time preventive action including custom notifications to offenders.



L3 - L7 detection of rogue behaviour, policy violations and, non-compliance.



Identify and enforce policies on applications using non-standard ports.



Supported Protocols - IPv4, IPv6, HTTP, HTTPS, SSH, Telnet, SMTP, POP3, IMAP, others.



Scalable, redundant deployment supporting throughput up to 10Gbps per appliance.

About Underscore:

Unlocking Cyber Resilience in the digital realm. Our robust platform combines proactive prediction, powerful forecasting, prioritizing risk, providing unparalleled real-time insights to keep you ahead of threats and assuring business continuity.

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