





Content Threats: Then

	Virus	Infects a host file by self-replication via executable file
	Worm	Infects systems via auto-distribution through network
	Trojan	Malicious function such as create a backdoor
	Mobile code	Infects via active content

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Content Threats: Now



Blended Threat

Combines the functionality of worms, viruses, trojans, malicious mobile code, more

Example: Sobig.F

Vector

Email with .PIF or .SCP attachment

Function

Harvest email addresses

Propagation

Send email using spoofed source address with built-in SMTP engine

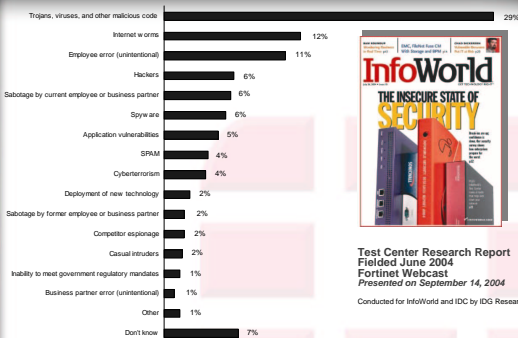
Payload

At pre-designated time, ping one of 20 sites to retrieve URL. Download file referenced in URL. Execute the downloaded program.

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Greatest Threats to Enterprise Network Security

Source: InfoWorld IT Solutions Study- June 2004



Test Center Research Report
Fielded June 2004
Fortinet Webcast
Presented on September 14, 2004

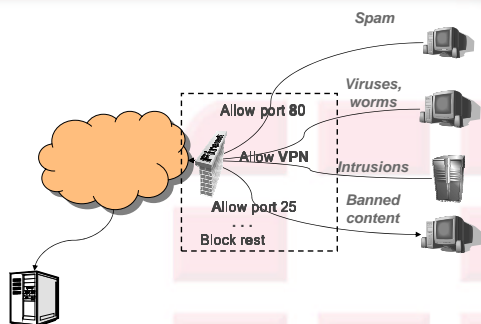
Conducted for InfoWorld and IDC by IDC Research Services Group

Among those involved in the acquisition of security products and services and employed at companies with 50 or more employees.
(Base 437) Q20-What is the single greatest threat to your company's enterprise network security?

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Perimeter Technologies

Traditional Perimeter Technology



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Allow Port 80?

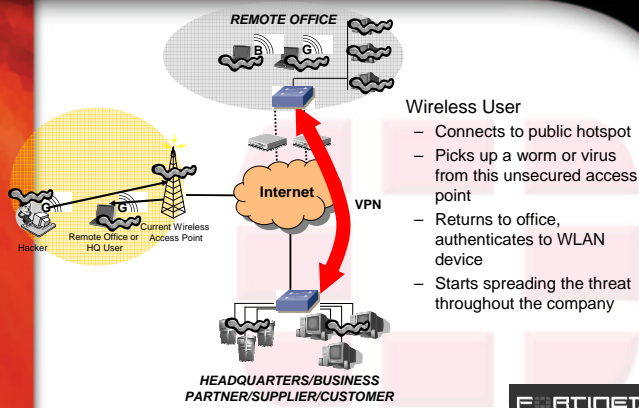
<http://www.nocrew.org/software/httpunnel.html>



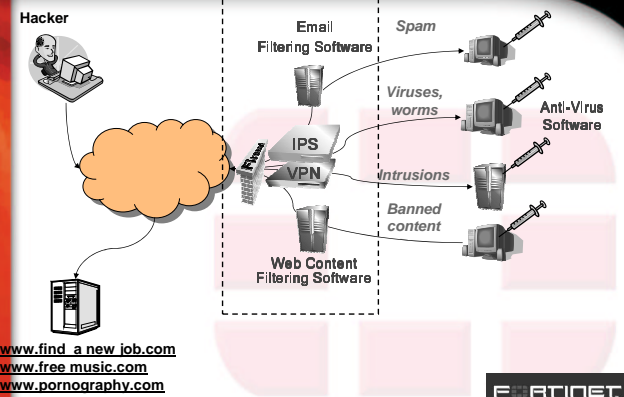
- httptunnel creates a bidirectional virtual data connection tunneled in HTTP requests. The HTTP requests can be sent via an HTTP proxy if so desired.
- This can be useful for users behind restrictive firewalls.
- If WWW access is allowed through a HTTP proxy, it's possible to use httptunnel and, say, telnet or PPP to connect to a computer outside the firewall.

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Allow VPN?



Current Perimeter Technologies



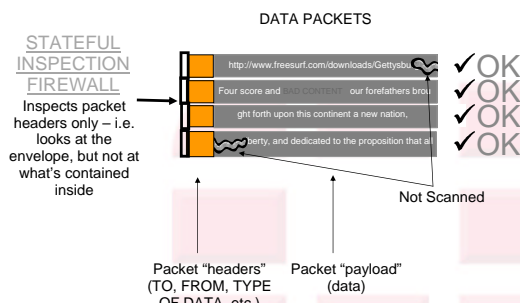
Modern Perimeter Challenges

First Generation: Stateful Inspection Firewall

In point solution configuration, Stateful Inspection firewall delivers network level security services



Stateful Inspection Firewalls Don't Analyze Payloads so they Miss Content Attacks



Second Generation: Deep Packet Inspection

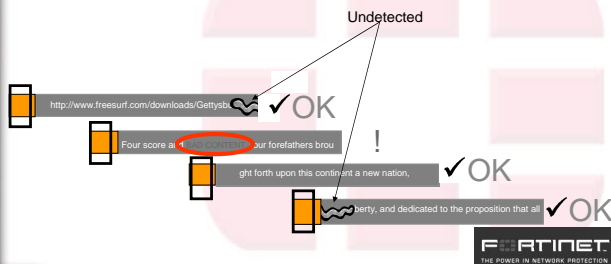
Deep Packet Inspection typically combines functionality of IDS/IDP system with Stateful Inspection firewall



"Deep Inspection" Examines Individual Packet Payloads but Still Misses Most Content Attacks

DEEP PACKET INSPECTION

Performs a packet-by-packet inspection of contents – but can easily miss complex attacks that span multiple packets



Next Generation: Complete Content Protection

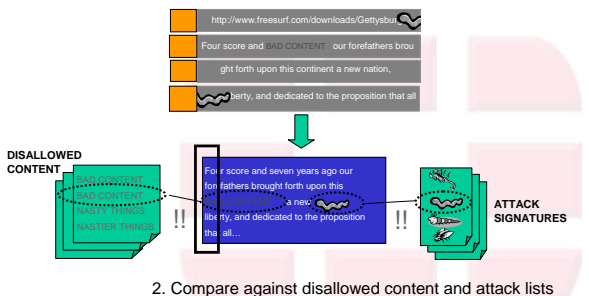
Combines the capabilities of Firewall, IDS/IDP, AV, CF



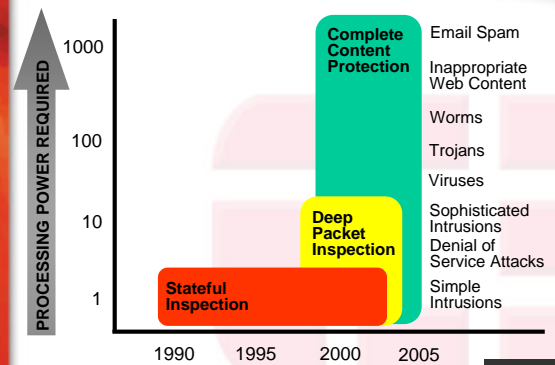
To Stop Content-Based Threats Requires More than Deep Packet Inspection

COMPLETE CONTENT PROTECTION

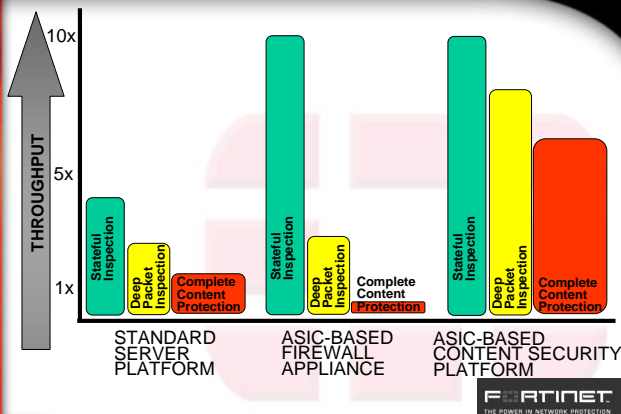
1. Reassemble packets into content



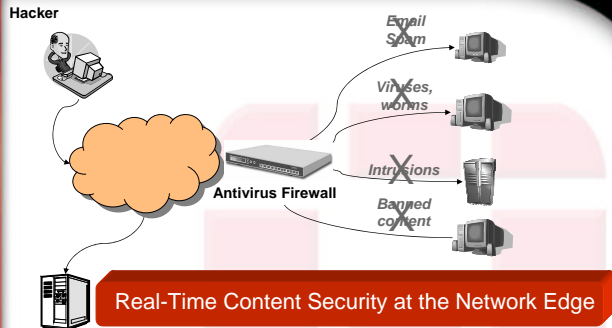
Complete Content Protection Requires Enormous Processing Power



A New Hardware Architecture is Required



Only Modern Perimeter Solution



www.find_a_new_job.com
www.free_music.com
www.pornography.com

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Point Solutions vs. Integrated Solution

	Point Solutions	Integrated Solution
Configuration	<ul style="list-style-type: none"> Inter-operable Components may not be "talking" 	<ul style="list-style-type: none"> Tightly integrated
Platform	<ul style="list-style-type: none"> Standard server architecture Specialized ASIC (FW/IDP) 	<ul style="list-style-type: none"> Specialized ASIC (FW/IDP/AV/CF)
Management	<ul style="list-style-type: none"> Resource intensive 	<ul style="list-style-type: none"> Resource efficient
Performance	<ul style="list-style-type: none"> GB performance for FW/IDP w/ ASIC platform Non-GB for AV 	<ul style="list-style-type: none"> GB performance for FW/IDP/AV/CF
TCO	<ul style="list-style-type: none"> Costly Multiple components 	<ul style="list-style-type: none"> 50-80% lower hardware cost 50-80% lower management costs

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Conclusion - Unified Threat Management

New Unified Threat Management (UTM) Security Appliance marketplace, unification of firewall and gateway anti-virus into a single platform - Fortinet ranked #1



- UTM market revenue in 2003 of \$85 million -- over the next 5 years the revenue generated by the sale of UTM appliances will exceed that of standard firewall/VPNs
- Firewall/VPN segment, 2003 revenue of nearly \$1.5 billion
- 17% annualized growth rate for combined category, \$3.45 billion by 2008

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Thank You!

Modern Challenges to Perimeter Security

Security Conference 2004, London, UK

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