

Email Address Harvest Techniques

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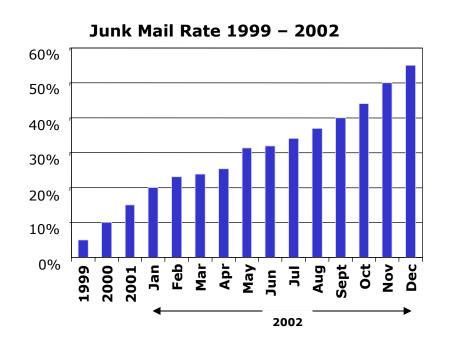
Postini: The Email Security Leader

- > The Company
 - Largest email security services provider
 - Offering email security services since 1999
 - 1,000+ corporate and network service provider customers
 - 4M+ end-users
 - Process 60-70M emails per day; 9B in 2002
- Perspective on Spam
 - Sits in the email flow (SMTP layer)
 - Observes spammer behavior in real time
 - "See" attacks illuminate across thousands of email domains
 - Blocks spam, viruses, and harvest attacks from reaching customers' networks



Spam: A Growing and Persistent Problem

- Postini recorded a 150% increase in spam traffic in 2002
- Average spam capture rate across customer base is now 60%; individual rates range from 20% to 80%
- Spammers are aggressively changing tactics to defeat current solutions
- Directory Harvest Attacks (DHAs) fundamentally change how spammers operate



^{* %} of Total. Source: 6 billion total messages processed by Postini

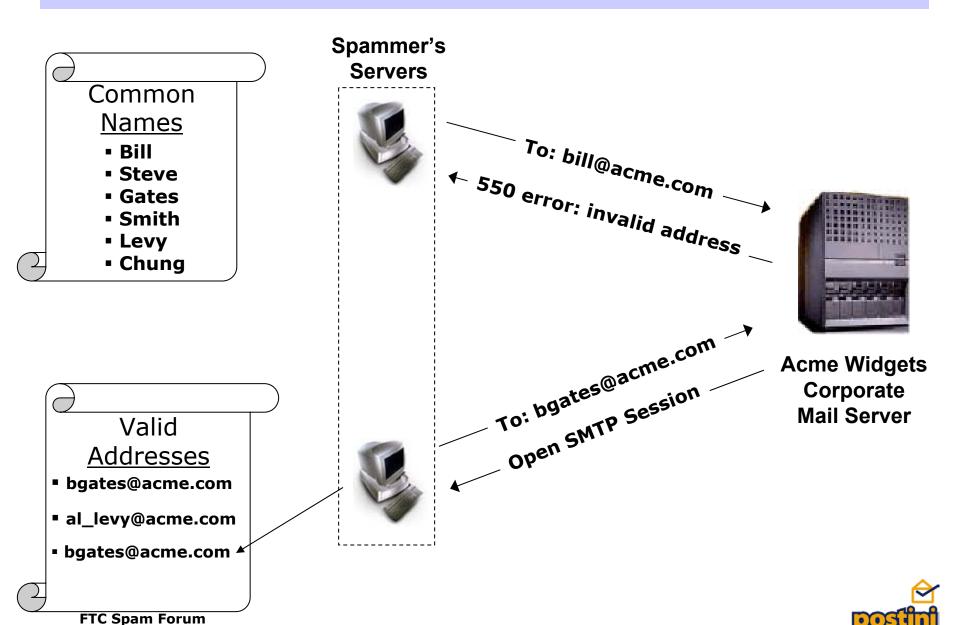


Observed Spammer Tactics

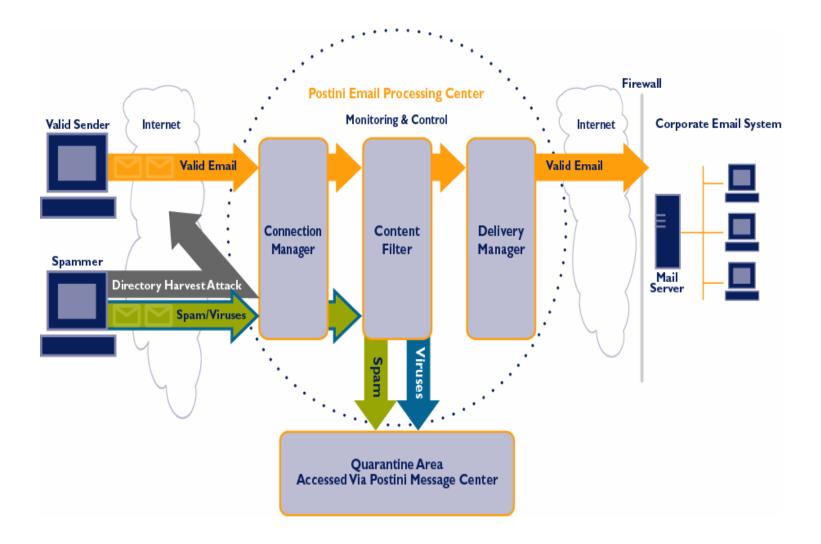
	Before 2002	2002 and Beyond
Content	>Flat text	>Flat text
		> Graphics
		⊳HTML
		▶JavaScript
Address	>Websites	▶Directory Harvest Attacks
Sources	>Newsgroups	
Profitability	>Volume delivery	>Volume delivery
Variables	List Cleaning ,	Volume address acquisition
		>Anti-filter tactics



Directory Harvest Attack



Postini Service Architecture





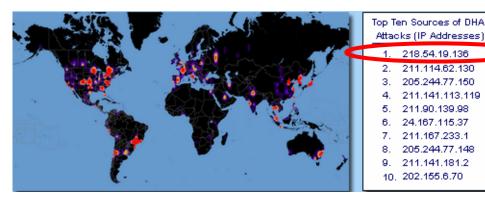
Specific Correlation of Attacks

- Postini 24hr processing snapshot
 - 40 million messages
 - 19,300 DHAs, 16 million delivery attempts
 - Over 20 million spams

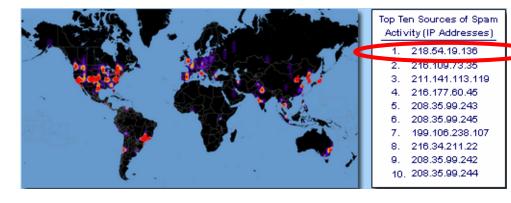
Directory attacks happen in real-time and target specific organizations

Effective solutions need to block the attacker before they spam

First the Directory Harvest Attack...

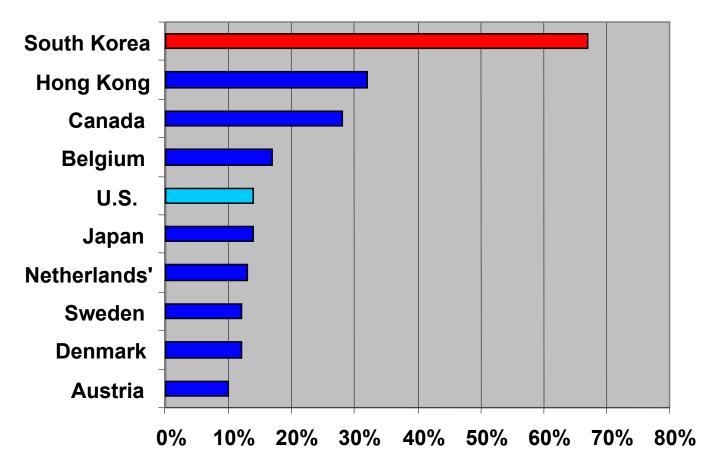


...then the spam attack





Broadband Connection Penetration



% of Households with Broadband Connections



FTC Spam Forum Source: Yankee Group, 2002



Directory Harvest Attack Demonstration