A Brief History of the Firewall



meaning "A physical wall meant to prevent the spread of fire in a structure, from fire (n.) + wall (n.)". [1]

The Secure Computing

The Morris worm is **Technology Center** unleashed, one of the first research group is formed Internet viruses, at Honeywell, working with 1851 compromising an the NSA to develop a estimated 6,000 systems high-assurance hardened (approximately 10% of the operating system (Logical Internet at that time). This Coprocessing Kernel or first set of viruses made LOCK) that is later featured The first network firewalls clear the need for an in Secure Computing's begin to appear, created to increased focus on Sidewinder firewall (1994). protect "private networks by network security. securing gateway servers to external networks like the 1984 1988 Internet."^[2] Late 1980s The first security firewalls -IP routers with filtering rules-were put to use. "The first security policy was something like the following: allow anyone 'in here' to access 'out there.' Also, keep anyone (or anything I don't like) 'out there' from getting 'in Appearance of the **first** here."" [3] commercial firewall, the DEC SEAL, a hybrid Early1990s firewall using application The first of the "stateful" proxies and packet filters. firewalls appear. Check - Lementes John Point Software Technologies \bigcirc 1992 **IDC coins the term UTM** originates the term "stateful (unified threat management), inspection." and several security vendors follow suit, beginning to 1994 market their firewalls that run multiple security functions running on a single appliance as a UTM. 2004

Results of first widespread analysis of firewall management practices are

The key finding from Dark Reading's **Death of the**

Gartner defines the Next-Generation Firewall as "a wire-speed integrated network platform that performs deep inspection of traffic and blocking of attacks." [4]

2009

published, including statistics like: "93% [of supervisors of firewall administrators] felt their firewalls contained at least one category of error and 70% felt that it was likely their rulebases contain undetected errors." [5]

Gartner releases a forecast

that says "Through 2018, more than 95 percent of firewall breaches will be caused by misconfigurations, not firewall flaws." [6]

2012

Perimeter poll is that "the classic view about what constitutes a network boundary has given way to a new metaphor. For 55% of respondents, the network perimeter has evolved to a seemingly boundless space "anywhere and everywhere data is located" that incorporates what is on the device, in a cloud, or on a server (51%) and how the data gets there and back (4%)." [7]

2014

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Resources

^[1] Online Etymology Dictionary. ^[2] "Firewall Security," Veracode.com.

^[3] Frederic Avolio, "Firewalls and Internet Security," The Internet Protocol Journal, Vol. 2, No. 2.

^[4] John Pescatore and Greg Young, "Defining the Next-Generation Firewall," Gartner RAS Core Research Note G00171540, Oct. 12, 2009.

^[5] Michael J. Chapple, John D'Arcy, and Aaron Striegel, "An Analysis of Firewall Rulebase (Mis)Management Practices," ISSA Journal, February 2009.

^[6] "NetCitadel Unveils Industry's First Software Defined Security Solution for Centralized Security Intelligence in Cloud, Virtual and Physical Environments," NetCitadel press release, Jan. 29, 2013.

^[7] Marilyn Cohodas, "Poll: The Perimeter Has Shattered!," DarkReading, Dec. 8, 2014.

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