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Published on Mar 20, 2015

Cyberoam offers next-generation firewall and UTM firewall that provide



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Network Firewall Function & Benefits



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Network firewall function & benefits

1. Network Firewall Function & Benefits

2. 2. Network Firewall Firewall is a network security system which controls and regulates the incoming and outgoing network traffic. It creates a barrier between the Intranet and the external network, generally the Internet which is not considered to be a secure connection. Firewalls use a set of pre-defined rules. Data which enters the system has to fulfill these rules to move further. Firewalls have evolved over the years owing to the detailed research and development that organizations have been conducting.

3. 3. Important Function of Network Firewall □ Traffic monitoring: Firewalls evaluate the traffic entering the network's systems by checking the packets which carry information. This ensures that malicious data does not gain access to your system. A two-way firewall even keeps a check on the traffic exiting the system, thus lowering the chances of malwares being transferred through your system. □ Trojans blocking: Trojans are a type of computer virus. These malwares attach themselves to the computer files and travel to the destinations where these files are being transferred thus causing widespread damage. Trojans are classified as some of the most potent viruses and can uncover organization specific data to the web server, thus compromising the confidentiality of such critical information. Moreover, the fact that these viruses work silently makes them more lethal. Firewalls block these viruses from the onset, thus protect the system against potential damage. □ Prevents Preventing hackers from gaining access to the system: Getting a firewall installed helps in securing the system against attacks from hackers. In the absence of such security measures, a hacker would easily gain access to the system and can make it a part of a botnet, which is the term used to define a large group of computers which is used to conduct illegal activities like spreading viruses.

4. 4. Important Function of Network Firewall □ It warns key logging attempts: Getting a potent firewall installed wards off key loggers, which are spywares that hackers put on the system in order to copy the various keystrokes. This enables the hacker in duplicating whatever is being typed. This is a dangerous situation and can make it possible for hackers to gain access to online accounts. □ Provides statistics on network use: A firewall can scan all the accesses, in case they pass through the firewall. Most firewalls are also equipped with alarms which go-off in event of a suspicious activity. Moreover, such

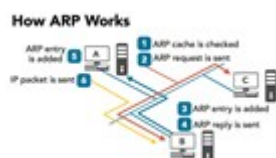
firewalls are capable enough of picking up signs of external attack and subsequently warning the owner. □ Enforcement of rules: A firewall as mentioned above follows set of pre-defined rules. In the absence of a firewall the system will be devoid of such rules and access policies will depend entirely on the cooperation of users who can tweak them to their advantage.

5. 5. Different Types of Firewalls in Use □ Firewalls have evolved over the years and providers have been coming up with different variants in order to meet the specific and varied needs of businesses. □ Packet firewalls: These are one of the oldest firewalls in use. These firewalls scan packets of information that are transferred between computers on the Internet. While doing so, the system analyzes some critical specifications like the source of the packet and its destination, protocol, etc. Only the packets that conform to the firewall's rule set are allowed to pass through. These systems are lightning fast but are incapable scanning complex data for threats. □ Application Gateway firewalls: These firewalls scan different applications such as FTP or File Transfer.
6. 6. Different Types of Firewalls in Use □ Circuit-level gateway: You can use these firewalls when a TCP connection, which enables two hosts in getting connected and exchanging data, is established. □ Proxy firewalls: Using these firewalls will not allow you or the other parties in establishing a connection until both of you conduct a session through the proxy. This enables the server to evaluate both the parties against the preset server rules. The server can then block or allow the traffic to pass through based on its evaluation. □ Unified Threat Management (UTM): This is the future of firewall security systems. These systems are extremely potent in providing a security cover to your system against sophisticated and advanced malwares and threats. What's more, you can also control and manage devices through a single centralized controlling system.
7. 7. Does Your Business Need a Firewall? □ Firewalls are essential for businesses, irrespective of the industry in which they operate. This helps them in managing and securing the integrity of a business specific data in a better way. This need (of getting a firewall installed) is even more pressing in case your business uses multiple computers for Internet access, as it is an uphill task to secure multiple connections. □ Many small businesses avoid using a firewall in order to save costs. This is not advisable as not deploying a firewall weakens the security mechanism of the computer system, rendering it more prone to cyber-attacks.
8. 8. Benefits of Firewall Security □ Monitors Traffic □ Blocks Trojans □ Stops Hackers □ Stops Key loggers □ Secures dynamic IP environments like Wi-Fi and instances where users share the endpoints. □ User identity-based decision making prevents errors associated with IP address-based policies. □ Simplifies audit requirements with instant user identification. □ Blends security, connectivity, productivity. □ Provides integrated perimeter security.
9. 9. Disadvantages of a Firewall □ Attacks □ Blocking Legitimate Processes □ Malware Removal □ Data Protection □ Diminished Performance
10. 10. Our Social Reach
11. 11. Cyberoam Technologies USA Central : +1-732-412-4896 Delhi & NCR : +91-9899150300 Ahmedabad : +91-9925011328 Bangalore: +91-9880345671 Dubai: +971-4-214 9860 Cyberoam House, Saigulshan Complex, Opp. Sanskruti, Beside White House, Panchwati Cross Road, Ahmedabad - 380006, GUJARAT, INDIA. North America 505 Thornall Street, Suite # 304 Edison, NJ -08837 USA sales@cyberoam.com
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