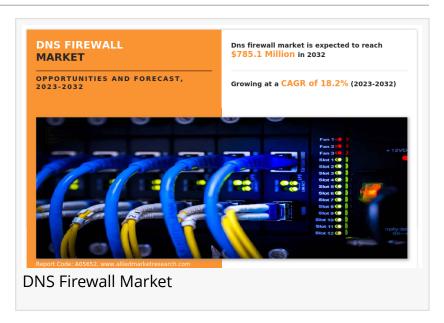# DNS Firewall Market Key Drivers and Trends | Growing at a CAGR of 18.2% By 2032

The global DNS firewall market is experiencing growth due to an increase in cyber security threats

WILMINGTON, NEW CASTLE, DE, UNITED STATES, December 24, 2024 /EINPresswire.com/ -- The global डीएनएस फ़ायरवॉल बाज़ार was valued at $151.6 million in 2022, and is projected to reach $785.1 million by 2032, growing at a CAGR of 18.2% from 2023 to 2032. Rise in implementation of BYOD policy and rise in adoption of Internet of things, drive the growth of

DNS Firewall Market

the DNS firewall market. However, high dependency on IT infrastructure, and high capital investment is expected to hamper market growth. Nevertheless, use of cloud-based technology in DNS firewall is anticipated to provide lucrative development opportunities for the DNS firewall market during the forecast period.

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A DNS firewall serves as a protective measure to prevent users from accessing malicious websites, thereby safeguarding computer systems and networks from potential malware infections. Administrators can also employ firewall configurations to restrict access to websites that are not suitable for employees. The operation of a DNS firewall revolves around the filtration of traffic traveling through DNS endpoints. In this filtration process, all traffic is scrutinized against predefined rules and policies. If the firewall detects that the traffic breaches any of these established policies or rules, it will proceed to block the corresponding web request.

The domain name system (DNS) firewall refers to the network security solution that assists in facilitating the network users and providers. It helps in taking prevention from connecting to the malicious Internet location. This firewall enables to prevent the data exfiltration by employing

the DNS response policy zones (RPZs) and security threat intelligence. Furthermore, the proliferation of cyber threats, including DNS-based attacks such as DNS hijacking, cache poisoning, and DDoS attacks, has raised awareness about the need for robust DNS security. Organizations are increasingly investing in DNS firewall solutions to protect their networks and data from these threats. In addition, continued advances in artificial intelligence (AI) and machine learning (ML) will increase the capabilities of DNS firewalls. This technology is expected to enable DNS firewalls to detect and react to threats in real time, making them more effective.

Based on region, North America held the highest market share in terms of revenue in 2022, accounting for nearly two-fifths of the global DNS firewall revenue. This is because registrars are implementing enhanced security measures to protect against domain hijacking attempts. This includes multi-factor authentication (MFA) and domain locking features to ensure the integrity of registered domains.

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https://www.alliedmarketresearch.com/dns-firewall-market/purchase-options

Based on end user, the enterprises segment held the highest market share in 2022, accounting for nearly two-fifths of the global DNS firewall market revenue, and is estimated to maintain its leadership status throughout the forecast period, because enterprises are embracing zero trust network access principles, necessitating the integration of DNS security into their ZTNA architectures. DNS firewalls are used to enforce strict access controls for DNS traffic, aligning with the ZTNA approach. However, the domain name registrars' segment is projected to manifest the highest CAGR of 21.6% from 2023 to 2032, owing to the fact that registrars are implementing enhanced security measures to protect against domain hijacking attempts. This includes multi-factor authentication (MFA) and domain locking features to ensure the integrity of registered domains.

On the basis of industry vertical, the BFSI segment attained the highest DNS firewall market size in 2022, owing to the digitizing banking services, increasing vulnerability to cyberattacks, and others. Adoption of DNS analytics plays a critical role in preventing DoS and DNS-related attacks across banks to financial institutions, which are highly targeted by cybercriminals and malware attacks overtime.

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Based on deployment mode, the on-premise segment held the highest market share in 2022, accounting for more than half of the global DNS firewall market revenue and is espected to rule the roost throughout the forecast timeframe. The growth is attributed to the growing on-premises DNS firewall solutions are incorporating advanced threat detection technologies, such as machine learning and behavioral analytics, to enhance their security capabilities. However, the virtual appliance segment is projected to manifest the highest CAGR of 21.4% from 2023 to

2032. This is attributed to the fact that virtual appliances are being designed to seamlessly integrate with cloud-native environments. This trend is driven by the widespread adoption of cloud services and the need to secure DNS traffic in hybrid and multi-cloud infrastructures.

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By deployment mode, the on-premise segment led the DNS firewall market share in terms of revenue in 2022.

By end user, the enterprise segment led the DNS firewall market forecast in terms of revenue in 2022.

By region, North America generated the highest revenue in 2022 in DNS firewall industry.

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