

Domain Shield

An Advanced and Resilient Protection for Your DNS against DNS & DNS-based DDoS attacks



About LGA

As one of the industry's digital pioneers, LGA has been helping to shape Singapore's digital ecosystem since 1995, starting first as a Digital Service Provider to now providing full digital solutions for businesses throughout Singapore.

In the past two and half decades, LGA has been delivering resilient enterprise solutions that ensure uninterrupted business operations. In fact, it is this mantra that clients keep coming back and what motivates us to continue delivering quality services and products.

Today, LGA offers comprehensive managed network, mobility, security & cloud services that support our customers' IT infrastructure, allowing them to focus on their core business.

Introduction

Since its inception, DNS has been vulnerable to a spectrum of cyber threats as its infrastructure is not built with security in mind. In recent years, it has even become an even more attractive target for cyber attackers, easily exploited to compromise web performance and trigger server shutdowns.

Particularly, **DNS laundering attacks** have surged in both prominence and frequency, presenting formidable challenges for organisations that manage their own authoritative DNS servers.

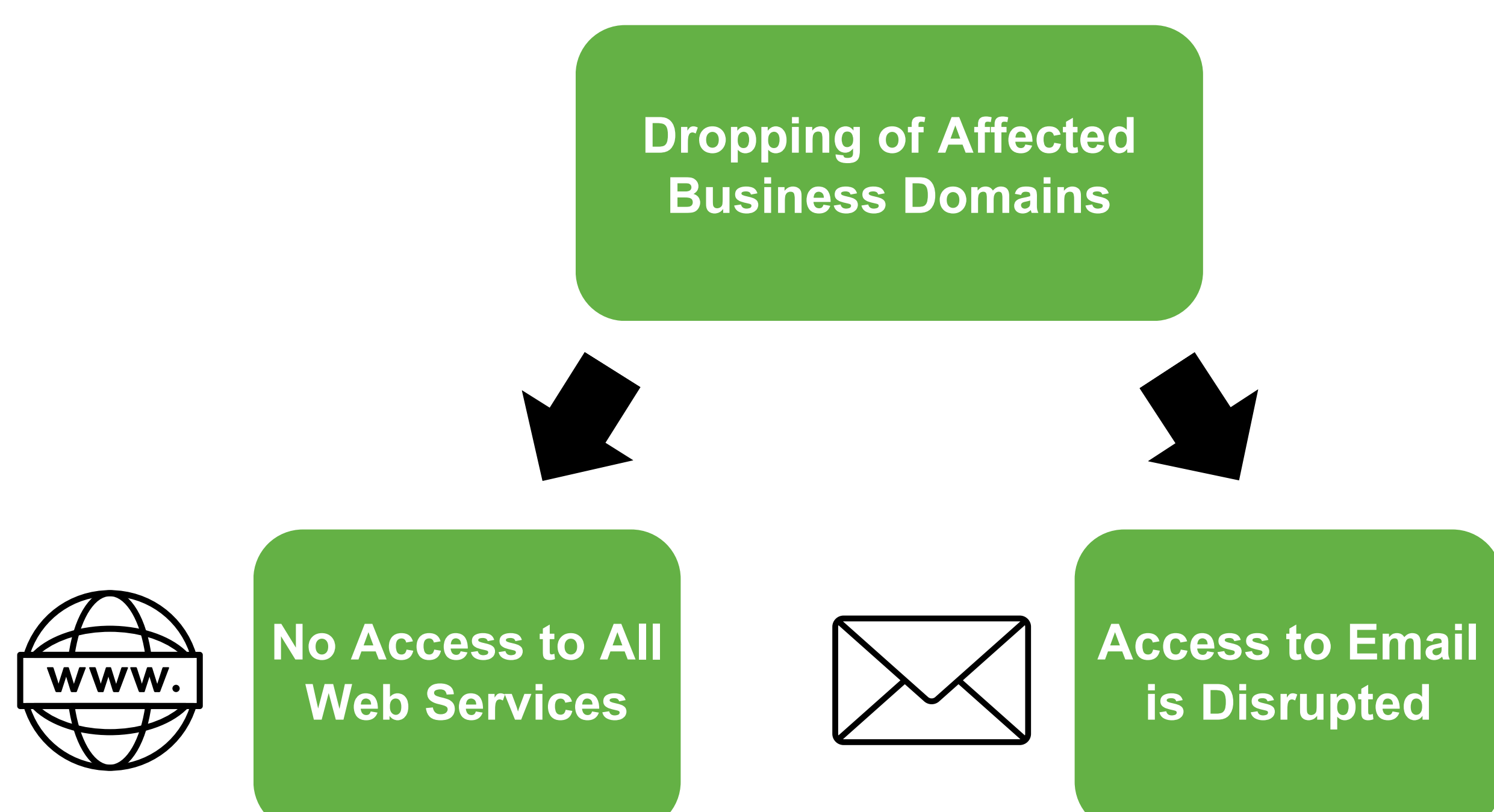
What is a DNS Laundering Attack?

A DNS Laundering attack involves disguising malicious traffic as legitimate and benign by routing it through respected recursive DNS resolvers.

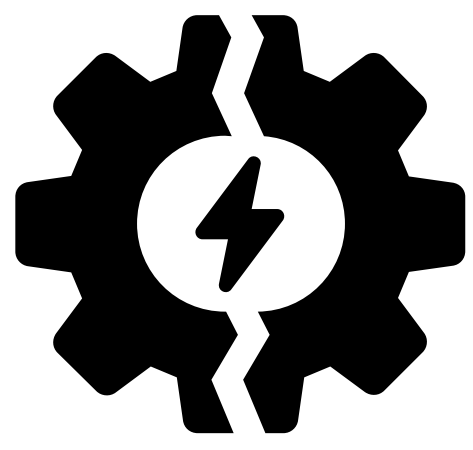
In the attack, the attacker queries random subdomains of a victim's domain, overwhelming the authoritative DNS server. The use of open DNS servers like Google's 8.8.8.8 also makes it hard to block the attack source.

With this, DNS administrators cannot block all queries to the affected domain, complicating protection efforts and may result in severe consequences for businesses.

Critical Implications to Businesses

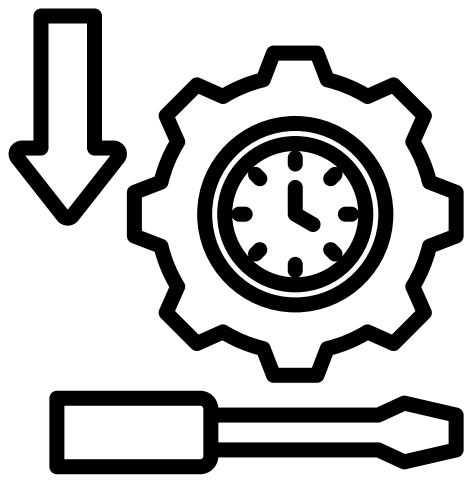


Indirect Business Impacts of DNS Laundering Attacks



1. Service Disruption:

The attack can highly disrupt services, rendering legitimate access, such as email, difficult or impossible for users.



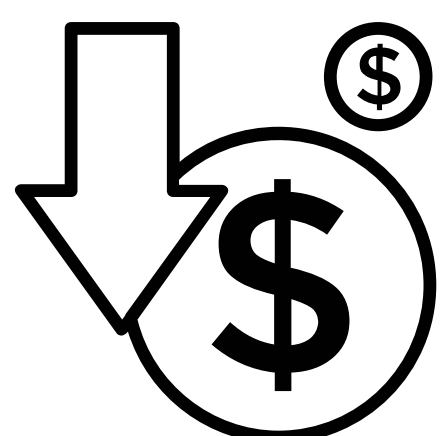
2. Business Downtime:

If the DNS infrastructure becomes overwhelmed and crashes, it can result in extended periods of business downtime that can have severe financial implications for the organization.



3. Data Breach Risks:

In some cases, these attacks may be used as a diversionary tactic to distract security teams while a more severe attack, such as a data breach, is carried out. This increases the risk of unauthorized access to sensitive information.



4. Financial Losses:

Organisations may face financial losses due to the costs associated with mitigating the attack, restoring services, and potential legal consequences if customer data is compromised.



5. Regulatory Consequences:

Depending on the nature of the targeted organization and the data involved, a DNS Laundering attack may lead to regulatory consequences and legal actions for failing to adequately protect sensitive information.

Domain Shield

Introducing **Domain Shield** - A brand new, advanced and comprehensive protection for **your DNS**, ensuring the robust security and seamless functionality for your digital infrastructure.

Features



Unlimited and unmetered mitigation against DNS-based DDoS attacks



Protect your users from on-path attacks that can spoof or hijack your DNS records

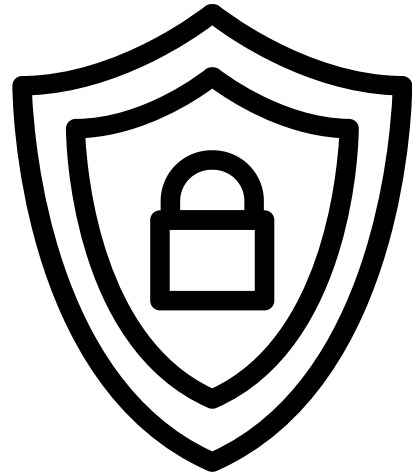


Prevents the risk of phishing, malware infections, and personal data leakage



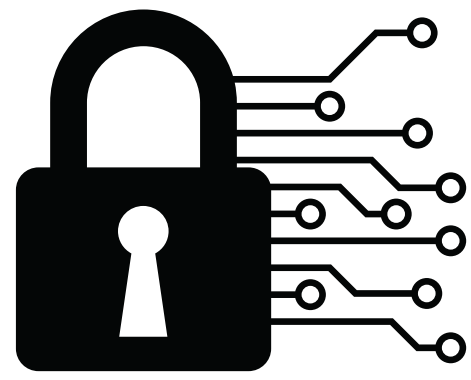
Adds an additional layer of security at every level in the DNS lookup process

Benefits



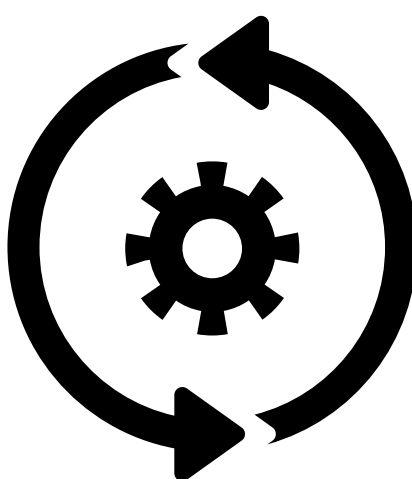
Enhanced Security

By implementing proactive security protocols, our solution ensures that your DNS remains robust and resistant to potential attacks.



Protection against DDoS Attacks

DNS protection helps in mitigating DDoS attacks by identifying and blocking malicious traffic.



Ensuring Business Continuity

By preventing DNS-based attacks, DNS protection contributes to the uninterrupted availability of your websites and online services.



Maintaining Reputation & Trust

A secure DNS environment safeguards against attacks that could compromise your brand's reputation and erode customer trust.

LGA's One-Advantage

Experience the **LGA's One-Advantage** – we simplify your business by minimising costs and complexities. With a one-stop support, one billing, and one management, our streamlined approach ensures efficiency, transparency, and a seamless experience for you.

Contact Us

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