



DNS Shield safeguards and protects Chitale Dairy from cyber threats

CASE STUDY



 **SHRESHTA**

SUMMARY

Customer

Chitale Dairy

Products

Dairy product manufacturing

Country

India

Industry

Dairy

Website

www.chitaledairy.com

Challenges

- ✦ Zero visibility of DNS traffic in the network
- ✦ Anomalies in DNS traffic
- ✦ Detection of access to newly registered domain names

Requirements

- ✦ Compliment existing security infrastructure seamlessly
- ✦ Cost effective
- ✦ On-premise solution

Solution

- ✦ DNS Shield - Shreshta's Protective DNS/DNS Firewall product



ABOUT CHITALE DIARY

B. G. Chitale founded the Chitale Group of Industries in 1939 in the form of its first entity, Chitale Dairy. Chitale Dairy has one of India's most technologically advanced dairy plants, with a processing capacity of 10 lakh liters daily.

Every day, about 5 lakh liters of milk is standardized, pasteurized, packaged and dispatched for sale in Pune and other cities in Maharashtra. Milk, Butter, Ghee, Skimmed Milk Powder, Khoa, Chakka, Paneer, Processed Cheese, Shrikhand, Lassi and Casein form a formidable line-up of Chitale Dairy products.

DNS SHIELD AS A CRITICAL LAYER OF SECURITY

Over the years, Chitale Dairy has invested heavily in technology, beginning with the mechanized production units that enabled standardized and hygienic manufacturing of sweets made of milk.

A network of endpoints and servers drives the mass scale production.

From a security perspective, the network already had a firewall along with MDR on the endpoints and other security infrastructure.



Vishvas Chitale
CEO & CTO, Chitale Dairy

The company's entire operations today depend upon computer systems. The company's end-to-end operations include procurement, manufacturing, logistics, wholesale business, in-store sales, finance and inventory.

Since all systems are connected to the internet, every system stands vulnerable to external risks.



Any security breach would put the company's systems at risk of downtime, creating chaos in their supply chain, especially since it involves milk, a highly perishable item. Preventing access to malware, ransomware, phishing attacks, and viruses at source would make their network more secure.

From the beginning, Chitale Dairy has realized that security is a layered approach. In January 2022, they were interested in evaluating Shreshta's DNS Shield.

Shreshta's engineers brought up the security evaluation environment on-premise in less than a day. Chitale Dairy received this well, considering they had seen Proof of Concept (POC) of security products dragging for days and sometimes months.

During the first few days of the POC, DNS Shield detected and blocked threats such as a malware from communicating with a Command and Control (C2) server and others that eluded existing security systems.

WHAT IS DNS SHIELD?

DNS is the internet address book. In simpler terms, it is a database that maps domain names and IP addresses.

Imagine that an attacker wants to trick users into visiting a malicious website that looks like a legitimate online banking website. They might register a domain name that is similar to the legitimate website (e.g., "mybanking.com" instead of "mybank.com"). They could then use this domain name to host a fake website that looks exactly like the legitimate website but is designed to steal users' login credentials and other sensitive information.

By using domain names in this way, the attacker can trick users into visiting their malicious websites and stealing sensitive information, making it more difficult for the victims to realize that they have been victimized.



Shreshta's DNS Shield (Protective DNS/DNS Firewall) is a product that helps to protect against online threats by blocking access to malicious domain names. It intercepts and analyses your device's Domain Name System (DNS) requests when you access the internet.

Suppose the DNS request is for a website known to be malicious or flagged as suspicious. In that case, DNS Shield will block the request and prevent the device from accessing the site. This helps keep you safe from cyber threats such as phishing, ransomware, DGA, botnets and newly registered domain names Etc., real-time.

DOMAIN NAME THREAT INTELLIGENCE

At the heart of DNS Shield is real-time domain name threat intelligence consisting of phishing, malware, ransomware, domain generation algorithms(DGA), newly registered domain names, cryptojacking domain names and others.

The threat intelligence is automated using machine learning algorithms and curated by Shreshta's team of threat analysts. As a result of a stringent quality process, the false positive rate is less than one percent.

VALUE OF DNS SECURITY TO ENTERPRISES

With real-time notifications, DNS Shield blocks access to phishing, malware, C2, cryptojacking, newly registered domain names, etc.

Visibility into access to newly registered domain name traffic from endpoints is a vital source for enterprise SOC teams and incident responders.

DNS Shield provides an additional layer of security in an enterprise network and also provides visibility into DNS traffic patterns and anomalies.

The DNS Shield log, which is ingestible in a SIEM, provides SOC teams complete visibility into the DNS traffic of their network. DNS Shield logging also helps enterprises comply with CERT India's mandate of maintaining security logs for 180 days.



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