



2x protection and no performance impact

PreCrime Network

Situation

The growth of cybercrime impacts both businesses and individuals. Attacks like phishing, malware, ransomware are the primary cause of financial and productivity losses across the globe, estimated in excess of \$6 Trillion in 2021.

In their quest for continuous improvement, 6cure tested PreCrime Network to assess how much predictive cyber threat intelligence would make a difference in their demanding environment

Impact

6cure serves Telecom Operators and Critical Infrastructure providers with solutions to Distributed Denial of Service (DDoS) attacks and with protection to DNS Servers, notably using threat intelligence for DNS Firewall regularly reviewing innovations to improve their solution's capabilities and ultimately improve customers and end-user protection against emerging threats.

The measures show the number of blocked connections doubled from 20.000+ to 40.000+ per day, despite a large distribution of source IP - demonstrating the large convergence and value of PreCrime Network.

By applying a downstream filter to active traffic at large telecom operators, 6cure could measure precisely the value add provided by PreCrime Network.

TL;DR

- 6cure seeking for improvement to their service and products
- By applying a downstream filter to active traffic at large telecom operators, 6cure could measure precisely the value add
- 6cure implemented PreCrime Network at a large telecom operator, with more than 20 million end-users active daily
- Using DNS Resolvers as a firewall (aka Protective DNS) it is possible to greatly increase
- The tests run over more than 30 days with consistent results. PreCrime Network increases 200% the amount of connections blocked against the pre-existing solution

About Bfore.Ai

The first truly predictive security solution. We help organizations prevent intrusions and data exfiltration by predicting vectors of future attacks, the information is used in #PreCrime for Network - predictive cyber threat intelligence to upgrade existing security solutions (firewalls, DNS resolvers, anti-phish filters, proxies, etc.) with foresight.

Key takeaways

Telecom Operators with more than 20M customers using 4G and 5G

30M DNS queries per minute

20,000 attacks blocked per day

Double protection vs. legacy Threat Intelligence

99% unique indicators

80% attacks covered by PreCrime

Near-zero false positives

Configuration & Test

6cure implemented PreCrime Network at a large telecom operator, with more than 20 million end-users active daily, and a volume of more than 30 million DNS resolutions per minute distributed across two sites in an active-active configuration.

Using DNS Resolvers as a firewall (aka Protective DNS) it is possible to greatly increase network protection and resilience thanks to the protocol agnostic nature of DNS queries. Moreover, given the high volume and critical nature of DNS traffic, it's paramount for threat intelligence to have near-zero false positives, and deliver unique and timely indicators.

6cure decided for a daily threat feed download. The API interface to Bfore.Ai servers enabled a non supervised, machine-to-machine connection. Further tests are planned to evaluate near-realtime updates of PreCrime Network

During a PoC deployed in front of a DNS resolver platform of a large Telecom Operator with over 20M customers, we tested the use of Bfore.Ai PreCrime Network alongside with traditional threat intel feeds in the course of several weeks.

The traditional threat intel feed based filtering missed out on average 20K requests a day that were captured by PreCrime based filtering. The use of Bfore.Ai allowed us to protect thousands of distinct end-user each day.

Jouni Viinika, Head of Research at 6cure SAS

The Results

PreCrime Network increases by 200% the amount of connections blocked against the pre-existing solution with tests running over more than 30 days with consistent results.

6cure is now an official technology partner for Bfore.Ai in Telecom and Critical infrastructures markets. 6cure now integrates PreCrime Network as a premium upsell to their customers with indicator updates from daily to near real-time.

About 6cure

6cure is an innovative company specialized in information systems security. Its experts are world-renowned for their R&D activities in the field of intrusion detection systems and reaction against cyber-attacks. 6cure provides solutions for active defense against attacks on information systems and networks to guarantee the availability and quality of its customers' services. <https://6cure.com>

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