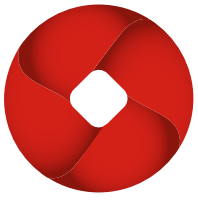
Greenfield Security

Building a security program from ground up for a security-critical government agency in Asia.



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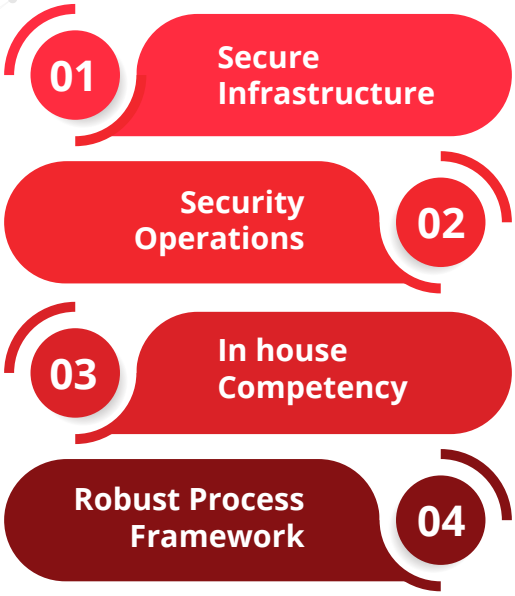
CHALLENGES

SOLUTIONS



ACHEIVEMENTS

VALUE TO CUSTOMERS

OUR STORY

This is a success story of how we built a **sustainable security program** for a heavily targeted **Government Agency** in Asia, from scratch.
Our Client – A Government Agency in Asia, was under **attack by neighboring nation-states.** They experienced **targeted malware and APTs** day in and day out.
Lack of security program, infrastructure & skills to mitigate the threats was not the only challenge they had.

On one hand the challenge was to **contain the current attacks** and on the other more importantly was to develop an effective program to build a security infrastructure from grounds up, secure their daily operations, develop skills and competency within the organization and **sustain** the program **without any external dependency** and gear up the organization from zero security state to a **robust 360º security state** within the limited resources, funds and time available.

Entrusted with this responsibility for our **proven technical skills**, cutting edge **research & development ability**, the experience of creating & driving a thriving community outreach in the information security **ecosystem** and **lean structure**, we accepted the challenge.

We **architected & implemented a complete security program** encompassing infrastructure, operations, security response-ability and competency development to make the Organization skilled enough to sustain and address the **future security needs.**

This document **summarizes** our efforts and strategy to transform the organization from having no overall security to proactive and responsive security within less than two years.

THE CHALLENGE

The scope of the engagement was as wide as the organization itself.
They requested us to scope the work based **on our understanding and experience** in **securing large organizations** against advanced and targeted attacks.

VULNERABLE CURRENT STATE

- Continuous advanced malware attacks
- Espionage and Cyber Threatsby Nation States

WIDE SCOPE

- Wide Organization, diversified needs
- Build Security Infrastructure from scratch

LIMITED RESOURCES

- Urgent need of Security
- Limited Time, Skills & Resources

ACHIEVE SELF RELIANCE

- Needed Dependable in house competency
- Self Susutainability was paramount

OUR APPROACH

After our onsite analysis and research that lasted for 4 weeks, comprising of visiting the different departments, the backend infrastructure, interviews with employees, understanding the current architecture, we came up with **recommendations and roadmap** for the organization which primarily included :

- Building the network & computing infrastructure.
- Making daily operations secure and accountable.
- An Advanced Security Monitoring Incident Response Center.
- Developing skills and competency to manage and sustain security needs.

INFRASTRUCTURE
- Network Topology & Layout, Firewalls, IPS/IDS, Honeypots
- Network Serivces DNS, SFTP, SAMBA, APT Solution, SIEM
- Network Operation Center

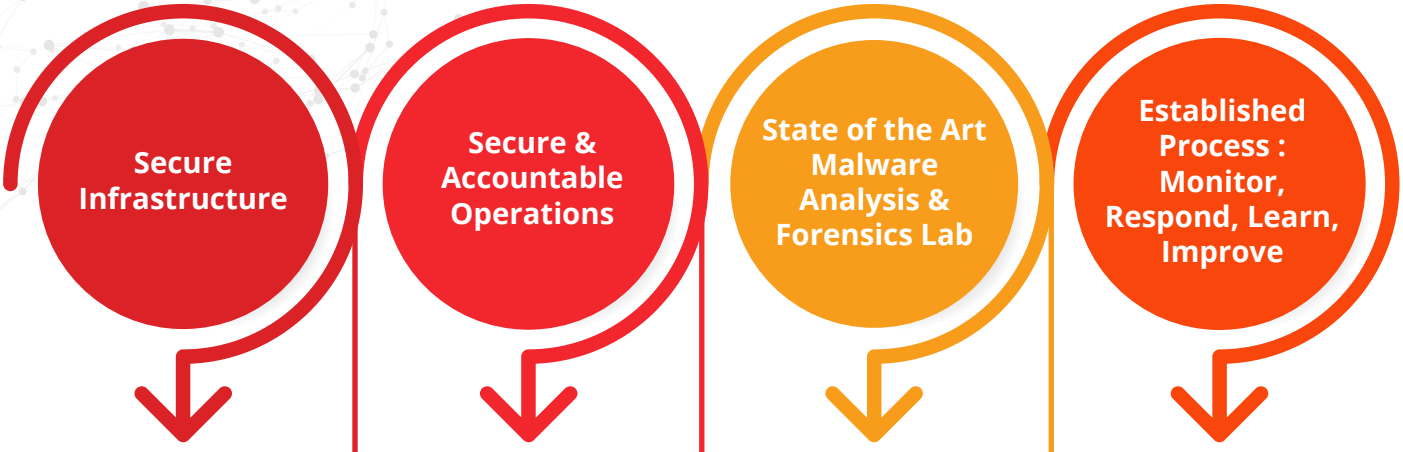
OPERATIONS
- Identity & Access Management
- SSO, Domain Control
- Data Management, Backup/Recovery
- Roles, Responsibility Mgmt

SECURITY
- Protect : Network and End points
- Detect : Attacks, Anamoly, breach
- Respond : Malware Analysis, Forensics, Incident Response

COMPETENCY
- Security Basics for all
- Incident Response, Forensics
- Assessments & Audits
- Continuous Training for Sustainability

ACHIEVEMENTS

After seeking approval for our recommended roadmap, it was time to implement and execute the plans. For close to two years we worked on multiple fronts. Progressing through the meticulously planned phases and skillful execution we were able to achieve exemplary results. Few of the prominent turnarounds were: **Hardened and Secure Infrastructure, Secure operations,** State of the **Art Malware Analysis & Forensics Lab** and Highly **Competent Staff** with a robust framework of processes to **address current and future security needs.**



Upgraded and Hardened infrastructure

Well managed and monitored network

Network/ inventory management solution.

Firewalled Network.

IPS installed for monitoring of attacks.

AD Domain controller

Managed desktops including windows/Linux/ Mac

Secure file storage

Better control of application communication

Fully Setup and operational lab.

Monitoring services setup

Secure storage for Lab data

Security against new/advanced malware and exploits

Training on NOC/SOC

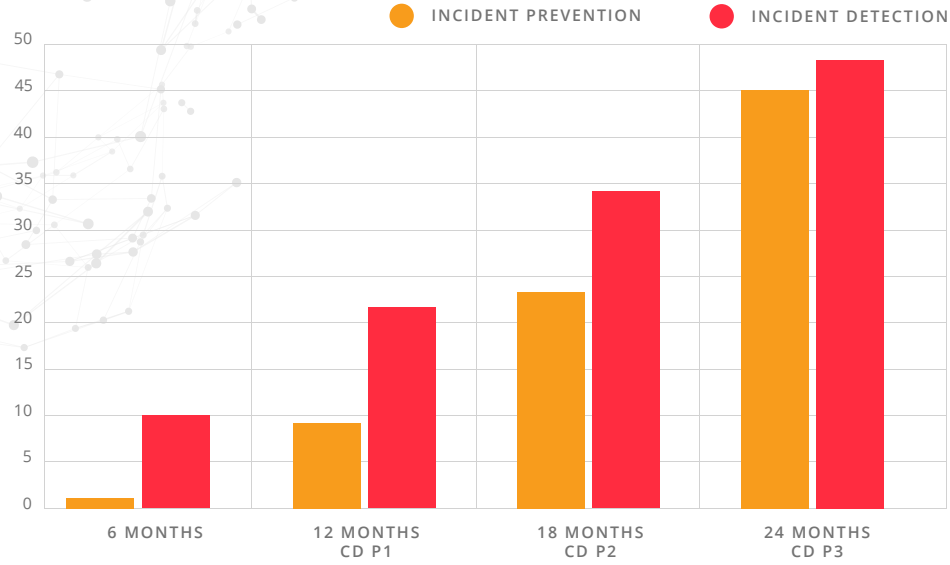
Incident Response and Secuity tests and Audits

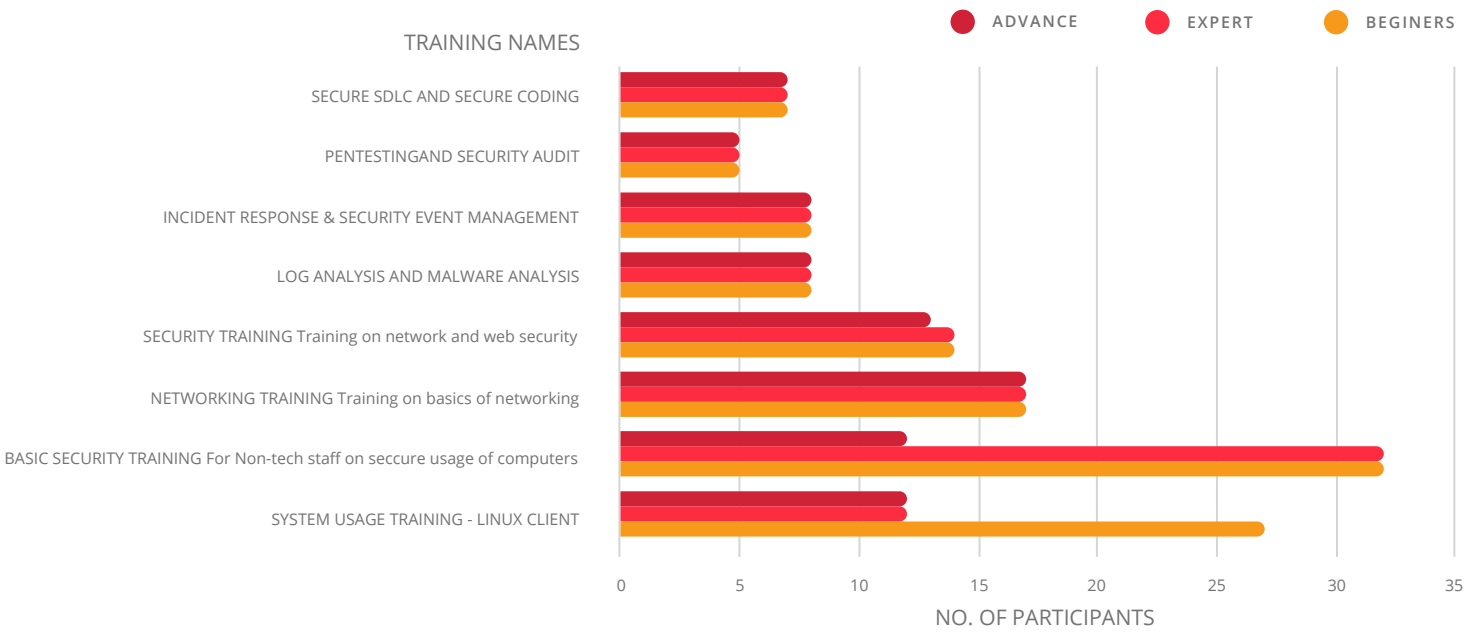
Established communtiy association/ outreach and initiated community based learning for self reliance

SELF-RELIANCE AND SUSTAINABILITY

The primary aim of the project was to help our client achieve **self-reliance** in **security** and **sustainability** in the current security operations and future security needs. Our Competency Development program trained the staff in a wider range of security aspects based on their roles and responsibilities.

We also helped them initiate security community outreach programs for further learning, skill enhancement and keeping up-to-date with current happenings in the security world.





DELIVERING THE VALUE

Our hands-on **technical experience**, carved **niche** in the information security ecosystem, the wide reach of our core team gives us a distinguished advantage.

Innovation, Research & Development driven approach in the diverse areas in Information technology makes us better equipped with a better understanding of what will work & how to deliver it.

Our wider **community association** connects us with thousands of brains globally. This helps us in quicker acquisition of skills, talent, or consultation in a very cost effective manner.

Our almost **flat organization** allows us to operate with minimum resources and optimum cost. Our commitment to **LEAN** philosophy helps to reduce wastage and delivery time.

All these virtues help us to offer **unique value** to our customers and deliver exemplary results and more success stories, one after the other.