CRUSOE SURF
REMOTE BROWSER ISOLATION (RBI)

Unleash the power of next generation security technology

ABOUT CYBERGUARD

Cyber Security Reimagined.

Cyberguard is a next generation software company, based in India, developing innovative solutions for cyber security, fintech and healthcare domain.

Our **Vision** is to create tailor-made, cost effective and quick to market solutions, as well as deliver trusted and highly efficient services.

We are building a suite of multi-domain and multi-technology solutions and components, and a team of astute, diligent and technically proficient developers on a wide range of modern technologies so as to create customised solutions with high efficiency and minimal cost and provide continued services and support.

PRODUCTS AND SOLUTIONS

- **Remote Browser Isolation (RBI)**
  The only efficient, safe and governed way to work with an internet browser anywhere (within the office or remotely), from any device (managed or unmanaged) is by using Crusoe Surf.

- **Content Disarm and Reconstruction (CDR)**
  An advanced, next generation threat neutralization and removal process based on advanced heuristics and mathematical algorithms.

- **URL Categorization and Filtering**
  Through URL filtering, you can limit your exposure to liability by managing access to web content based on a site's categorization.

- **Rule Based Analyser / Firewall Analyser (RBA)**
  RBA continuously analyses firewall rules for safety and compliance issues and find issues that can lead to breaches of security or breaches of compliance.

- **Privileged identity management (PIM)**
  Privileged Identity Management is a solution that enables you to manage, control, and monitor access to important resources in your organisation.

SERVICES

- **Distributor and System Integrator**
- **Product Maintenance and Support**
- **Product Customization and Enhancement**
- **Outsourced Product Development**

TECHNOLOGIES

- Web Isolation
- Full Stack Web Application Development
- Browsers Engines (Chromium, Webkit)
- Serverless Applications
- Endpoint Detection & Response
- Mobile Application Development
- MDM/MAM
- Internet of Things
- Web Application Firewall
- Web Performance Optimization

DEVSECOPS

- Assessment and Strategy Planning
- Pilot Framework & Tool Stack Construction
- Process Implementation
- CI/CD Pipeline
- Process Automation
- Security Integration

CRUSOE SURF - Remote Browser Isolation(RBI)

A Crusoe Security (Israel) Product | The Freedom of Isolation

What is Crusoe Surf?

Crusoe Surf enables end-users to naturally browse the web while leaving malware, including 'Zero Day' attacks, safely isolated from the internal network and end-user endpoints.

Using Crusoe Security's innovative Remote Browser Isolation (RBI) technology, Crusoe Surf eliminates the browser attack vector without hindering user productivity, effectively removing the biggest security risks from the equation.

"Gartner estimates that 98% of all external information security attacks happen over the public internet, and 80% of those attacks are carried out through web browsers."

Challenges:

Since the beginning of 2020, there have been more than 445 million cyber attacks reported, which is double when compared to 2019.

Browsers are Extremely Vulnerable

As web browsers race to add more features and capabilities to enable today's rich web applications they inadvertently accumulate more bugs. These bugs are a potential vulnerability which in time can be exploited by harmful actors.

The human factor also plays an important part as end-users mistakenly click innocent-looking links, not knowing they contain malicious content.

Detection and Classification are not Enough

Filtering web gateways, anti-virus and similar technologies are all based on signatures and classifications to help protect workstations, but these are simply not enough to safeguard against 'sleeper cells' and the next 'Zero Day' attack.

Key Facts:

- At least 100,000 pieces of **malware** are introduced daily
- **Ransomware** is still a favorite attack vector. It is assumed that 1 of 10 URLs contain **malicious** code
- Almost 90% of attacks come from internet and email browsing which is still the **weakest link**
- Hackers are becoming more innovative with their **Zero Day** attacks and **silent penetrations**
- According to Gartner, by 2023 **25% of enterprises** will actively begin to isolate web surfing and experience a 70% reduction in attacks

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CRUSOE SURF SOLUTION

Crusoe Surf protects the organization by moving the actual browsing away from the end-user. This is achieved by spinning remote Crusoe Surf Browser inside disposable short-lived containers isolated remotely in the DMZ or in the cloud.
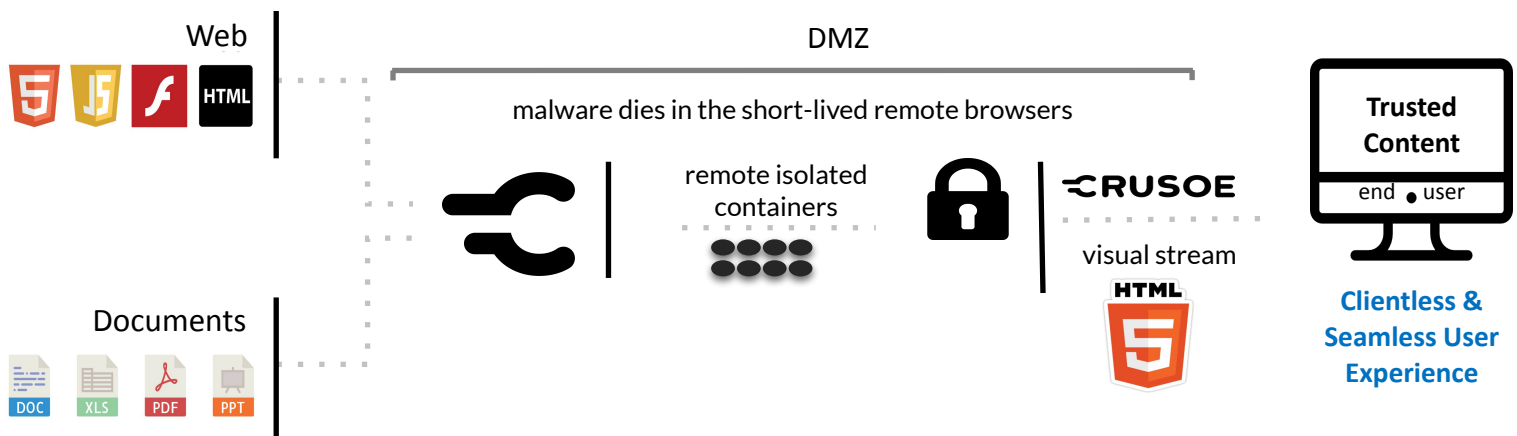
Native Experience

Crusoe Surf Browsers surf the web on behalf of the end-user while streaming back only safe and sanitised content to the local browser. The Crusoe Surf advanced streaming protocol ensures that the end-users enjoys a natural and native-like browsing experience.

"Remote Browser isolation (RBI) is a zero trust approach which does not rely on filtering content based on known threat patterns or signatures".

How it works?

➤ Untrusted code from the Internet is executed and rendered in the remote browser and never reaches the local endpoint

➤ Rendered artifacts are converted to a safe Crusoe Surf visual stream which is efficiently transmitted to the client

➤ User interactions are transmitted to the remote browser in real-time ensuring the end-user enjoys a native-like experience

➤ Downloads, uploads, printing and additional end-user interactions are provided in an intuitive near-native way

➤ Integration with Content Disarm and Reconstruction (CDR) systems allows scanning and sanitization of files before they reach the end-user

Web

DMZ

malware dies in the short-lived remote browsers

remote isolated containers

CRUSOE

visual stream

Trusted Content

end ● user

Clientless & Seamless User Experience

Documents

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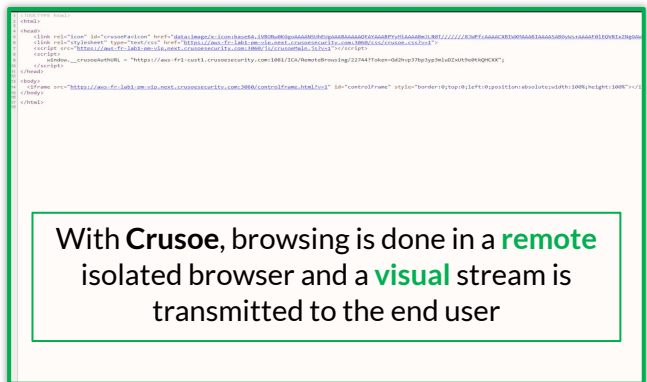
The Crusoe Advantage

➢ Crusoe Surf keeps browser malware and malicious actors away from endpoints while disposable sandboxed containers provide a clean browser every session

➢ Crusoe Surf integrates with the existing web-filtering security policy of the organization so IT can easily deploy without changing workflows

➢ Crusoe Surf Supports IE-only websites and peripherals such as smart cards using integration to 3rd party remoting solutions with Crusoe Surf 1st Gen

➢ Crusoe Surf has been designed from the ground up together with customer IT organizations resulting in an innovative, scalable and pragmatic offering

➢ Crusoe Security has been a trusted cyber security partner of many enterprises in various industries for almost 10 years

Without Crusoe   POTENTIALLY BREACHED

With Crusoe   PROTECTED

With **Crusoe**, browsing is done in a **remote** isolated browser and a **visual** stream is transmitted to the end user

About Crusoe Security

Crusoe Security is a cyber security startup based in Israel. It has been a trusted cyber security partner of many enterprises since 2012 and has been assimilated in various industries such as financial, government, services and Industrial.

Crusoe Surf is a modern and advanced Remote Browser Isolation solution and since its launch has been gaining traction and acceptance as an innovative and pragmatic approach to protect organizations from the prime attack vector.

ADD-ONS FOR CRUSOE SURF RBI

Maximize the value of RBI with Zero Trust Approach

Below are the two must have add-ons which can be fully integrated and bundled with the RBI solution or can be purchased and deployed independently of the RBI solution so that it can be integrated with any other tools.

1.   Content Disarm and Reconstruction (CDR)

By integrating a CDR solution with Crusoe Surf RBI, Organizations can rest assured that only fully sanitized files can be downloaded at end user devices preventing any malicious content entering into the network.

CDR solutions sanitize incoming files preventing malware, ransomware and zero day threats from entering the network thereby making clean and safe files immediately available for use by end users.

This solution provide dramatically enhanced information security for organizations, without compromising system performance and can be easily integrated into existing business processes.

2.   URL Categorization and Filtering

For any URL an organization wants to visit and/or analyze, the solution provides a mechanism to categorize the URL, provide analytics about the URL, and filter the URL. This works in tandem with the RBI solution as well as as a standalone deployment on purchase of this add-on.

Features:

Topic-Based Categorization

More than 99% coverage and accuracy for web content categorization into nearly 500 categories with support for more than 200 languages.

Objectionable Detections

Real-time URL classifications of porn, hate speech, terrorism, child sexual abuse, violence, fake news, and more, providing a wide range of options for safety and protection against objectionable and sensitive content.

Malicious and Phishing Detections

Proprietary malicious and phishing detections, combined with highly curated third party feeds, provides the market's most comprehensive, high veracity threat protection against emerging threats.

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Use Cases

1. Threat protection

Freedom from Malware, Ransomware, Phishing Attacks through URL filtering and protection from malicious links in emails

The source of almost all threats including zero day attacks are web browsers. Isolating the browser from the user's device and network ensures greater protection to the user and enterprise.

With Crusoe Surf, users are safe from any type of attack including zero day threats since Crusoe Surf executes the code in a secure, disposable remote sandbox and only pixel streams are passed to the end user device.

2. C-level Leadership Protection

Hackers always try to attack enterprise leadership devices and accounts to gain access of sensitive, copyright data or exploit device vulnerabilities using ransomware attacks such as WannaCry.

Using Crusoe Surf, digital footprints of leadership including top executives and board members are protected and their devices are secured against data loss.

3. User and Data Protection

Organizations need to provide selective access to their digital resources based on permissions defined for specific departments, user groups or individuals.

By defining policies based on users, groups and departments and with granular control of actions such as copy/paste, download, upload, printing etc., organizations can effectively secure endpoint devices and prevent data breaches.

Use Cases

4.   **Work from Home- Anywhere, Anytime**

Since Work From Home and BYOD are becoming a new normal, organizations can easily define and enforce policies without worrying about the devices users work on or knowing the users' locations.

5.   **Compliances and regulations**

The introduction of new data protection regulations across various developed nation and with more than 100 countries around the world are planning to implementing similar laws forces organizations to adopt advance data protection platform.

Remote Browser Isolation (RBI) is part of necessary and at times mandatory compliances and regulation in various developed countries such as US, part of Europe, Japan and Israel where, as per compliances, government, military and financial institutions have to use RBI and this regulation is now slowly spreading across all other countries as they battle ever-growing cyber threats. This will allow you to be an early adopter and be ahead of the curve by having RBI deployment at an early stage at your organization.

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