The internet is the single most exposed field of operations. Absolutely everything you do on the internet is visible to someone. When you are active online, you leak your identity to websites in many ways. Detection can lead to a multitude of consequences. Your target may block you, feed you misinformation, adapt and fade back into the shadows, or even engage in counter attacks. Effective misattribution is critical for successful OSINT collection.

Nfusion’s unique network of points of presence (PoP), powered by our patented Identity Control Technology, gives you the ability to change your apparent location and prevent identification or targeting. Nfusion masks all identifiers from your local machine and network, allowing you to conduct your investigations without the risk of being recognized by your target.

When conducting online engagements, it is crucially important to operate in a secure environment. The very nature of your activities exponentially increases your exposure to attack. You could be intentionally visiting hostile sites, engaging with nefarious groups of people, and targeting individuals who may not appreciate being investigated. You could easily fall victim to targeted hacking and malware during your operations. Simultaneously, you are collecting highly confidential information on your computer. Whether it’s investigation notes, case files, or sensitive capabilities and infrastructure data, you have a lot to protect on that machine. It is just as important to be secure as it is to be stealthy. Nfusion ensures that malware is trapped in an isolated virtual machine, away from your sensitive data and infrastructure. With Nfusion, you can operate from your secure virtual desktop without putting your local machine at risk.

Open source collection analysts gathering data, law enforcement officers conducting online evidence collection, corporate security teams investigating trademark violations, and highly targeted individuals all need protection. Nfusion comprehensively prevents website visitor identification, targeted cyber attacks, active content blocking, and the leaking of plans or intent.
Nfusion Features

Misattributed Network
Our advanced identity protection and misattribution tools are the first line of defense against identity exposure, targeted web attacks, and passive information leakage during operations. Using free public services like Tor can put you and your network at risk. Anyone could be spying on your activity and embedding attacks. Nfusion eliminates this risk with large blocks of proprietary rotating misattributed IP addresses from your choice of global locations. Your traffic is either blended with thousands of users from around the world or originated from dedicated PoPs customized just for you.

Security and Isolation
Nfusion keeps your investigation desktop completely separate from your local machine with an isolated virtual desktop infrastructure (VDI) deployed in an air-gapped environment. Malware is kept far away from your network, and your sensitive agency data and documents are never visible or accessible inside Nfusion. Additionally, Nfusion protects against advanced persistent threats (APTs) by always reverting to a known clean image of your desktop.

Digital Fingerprint Masking
Your computer automatically gives identifying information to every website you visit. It reveals the operating system you are using, the browser, any plug-ins you’ve installed, and even the fonts and language capabilities you have. Because of this, your browser has a unique configuration, and is easily recognized when you return to that website — a common practice, even on commercial pages. With Nfusion, we’ve eliminated the risk of your desktop being attributed back to you. All Nfusion users look the same to any website they visit, and their digital fingerprint cannot be associated with any particular individual or organization.

Integrated Apps and Utilities
Nfusion offers a robust page-capture extension directly integrated with your Firefox and Chrome browsers. Your virtual desktop can be customized with additional Windows based applications to fit mission requirements. The Admin tool includes the ability to manage user permissions and a Team Admin role that grants full administrator capabilities for field-office supervisors.
Nfusion Features

Safehold

The Safehold file management application enables you to safely transfer your research between your isolated desktop and your local machine. The application is integrated into the Nfusion interface, providing a familiar user experience and enabling a seamless workflow. Safehold leverages Cylance, along with other malware detection platforms, to scan all files for malware before they are made available for export. If any malicious content is found, the infected file is quarantined and can be safely managed by the administrator.

Journal

Nfusion’s Journal application allows you to collect and document your evidence and research findings. Everything you capture is indexed and made searchable in the Journal. You can categorize your Journal entries by adding tags, flags, attachments, and notes. The Journal supports a full HTML text search function, allowing you to either directly search for an entry by title/tag or apply a filter. All Journal entries can be exported from Nfusion to your local machine through Safehold.

Administration and Auditing

Insight, Nfusion’s user management application, provides a full audit of online activity with a searchable record of Nfusion sessions and allows easy export of customizable metrics and reports. For activity reporting, any graph or chart can easily be exported as an image, PDF, or into an Excel spreadsheet. The Nfusion Video Capture capability provides administrators with a comprehensive video recording of all user sessions.

About Ntrepid

Ntrepid’s suite of managed attribution products enable organizations to safely conduct their online activities. We are dedicated to understanding the challenges our customers face in order to build environments to facilitate secure operations in the most hostile network environments and against the most sophisticated opponents. We are proud to support Fortune 500 companies in the financial and healthcare sectors and customers across the national security community.

Contact us to learn more about Nfusion and the full spectrum of Ntrepid solutions.

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