Company Description
Introspective Networks is the Next Generation of Cybersecurity Now. Experts in Computer Science, Distributed Computing, Cryptography, and Telecommunications, we have developed patented technology that protects data in motion using Moving Target Defense and Streaming Key Encryption. Our products have protected data for telecom, entertainment, and political campaign organizations.

One implementation of Introspective Networks’ technology has achieved Technology Readiness Level (TRL) 7 at the United States Air Force Research Laboratory in Rome, NY. We provide products and services that are low maintenance and easy to deploy, while offering the ultimate level of protection.

We are dedicated to creating products and services that make your data safe from attack whether it is transmitted over private lines, the public Internet, or any other media.

Product Profile
SmokeVPN™ is an ultra-secure VPN that is easy to deploy and maintain. Built on patented STOP™ technology, it provides a virtual network with Moving Target Defense and Streaming Key Encryption. It adds little to no latency compared to unprotected connections. The system removes network attack vectors, providing proactive cybersecurity.

Overview
SmokeVPN™ provides proactive security. It is built on Introspective Networks’ STOP™ technology and creates secure virtual networks using Moving Target Defense and Streaming Key Encryption.

Executive Summary
In today’s cyber landscape, businesses require a higher level of security than ever before. Better security should be simpler, not more complicated. Introspective Networks collaborated with Red Hat to ensure that customers on one of the most widely deployed operating systems ever, Red Hat Enterprise Linux, can take advantage of our advanced cybersecurity technology, all with the ease of a container.

Statement from Partner
“We are very excited to be working with a company as storied as Red Hat. With our moving target defense solution and Red Hat Enterprise Linux, we can create a system that is screened from the network both for the data in motion as well as the server at rest” said Introspective Networks President Anthony Thompson. “The combination of Introspective Networks and Red Hat’s container platform, OpenShift, creates a multi-tenant solution for extremely secure cloud VPN services for our mutual customers.”

Statement from Red Hat Connect
“Developers and architects looking to build new applications in, and for the cloud, or migrate existing applications to a cloud-based infrastructure, partner with Red Hat to develop and deliver more supportable solutions sooner,” said Mike Werner, Sr. Director, Global Technology Partners, Red Hat. “Red Hat certification assures a supportable platform for all types of customer deployment models. Red Hat is thrilled to work with software partners like StorageOS, resulting in the world’s largest open, and commercially supportable application ecosystem.
**Product Benefits**

SmokeVPN™ provides unprecedented security to your data in motion, hiding data in time and space.

- **Little to no latency from encryption/decryption operations:** Because of the strength of the Streaming Key, SmokeVPN™ has shown, in testing, to add very little latency when compared to unprotected connections.

- **Easy to deploy and maintain:** The container-based delivery approach allows SmokeVPN™ to be deployed and configured quickly. Configuration files are provided for each client, eliminating complex end user configuration processes.

- **Your data is hidden in time:** SmokeVPN™ never sends encrypted data and the associated key at the same time and does not send data and keys on the same port at the same time. Keys are cached ahead of time. This means that the time differential between keys and encrypted data being sent could be as much as a few years, depending on usage and key cache size.

- **Your data is hidden in virtual and physical space:** SmokeVPN™ constantly changes virtual ports, as well as physical ports (where available), hiding data in space. Also, the Streaming Key is never transmitted on the same port at the same time as your encrypted data.

**Use Cases**

- Secure Remote Office Tunnels: Connectivity back to HQ or between offices over the Internet or other networks with better security than private line service.

- Secure Remote User/Road Warrior Access: Provide secure network access to employees in the field, confident that your data remains secure.

- Secure Communications: Protect Audio, Video, and Text transmissions between employees using SmokeVPN™.

- Secure Cloud Services: This protects your customers from all network attack vectors and encrypts data with the strongest encryption method known.

SmokeVPN is a Red Hat certified container and is available for customer download from the Red Hat certified container registry.

[https://access.redhat.com/containers/#/product/a97e41d1b4db1045](https://access.redhat.com/containers/#/product/a97e41d1b4db1045)