

Morphisec Anti-Ransomware Assurance

Decoy-Based Encryption Prevention

Morphisec revolutionizes ransomware defense by leveraging its patented Decoy Technology to prevent unauthorized encryption attempts before they can impact critical systems.

Protect Your Data and Prevent Encryption Attacks

Morphisec's Anti-Ransomware Assurance Suite fortifies your organization by diminishing the blast radius of attacks, to preemptively reduce the organization's exposure to cyber risk, pro-actively prevent advanced threats and ensure optimal anti-ransomware defense.

Unlike traditional recovery-focused solutions, Morphisec disrupts ransomware in real-time, minimizing downtime and operational loss.

How it Works



Decoy File System Architecture

- Generates fictive user folders and critical system files as decoys.
- Deploys fake files in commonly targeted formats (.docx, .xlsx, .pptx, etc.).
- Some decoys are hidden from regular users to prevent interference.
- Dynamic decoy regeneration ensures automatic replacement if removed.
- Configurable File Appearance - File names can be fully configured and adapted to customer needs through the Morphisec Console.



Adaptive Threat Detection & Containment

- Morphisec detects unauthorized encryption attempts by monitoring interactions with decoy files, providing optimized system performance by avoiding the need to monitor all files
- This targeted approach reduces false positives (FPs), a common issue with other solutions that monitor all files indiscriminately.
- Encryption activity triggers immediate response mechanisms, isolating the threat.
- Zero-patient detection capabilities ensure containment before the attack spreads.



Beyond Encryption Prevention

- Includes ransomware exfiltration prevention to stop data theft attempts.
- Features anti-tampering protections to prevent disabling or bypassing security controls.

Benefits

A **signatureless approach** that stops modern, polymorphic ransomware that evades traditional detection.

Operates effortlessly with backup and maintenance tools without compatibility issues.

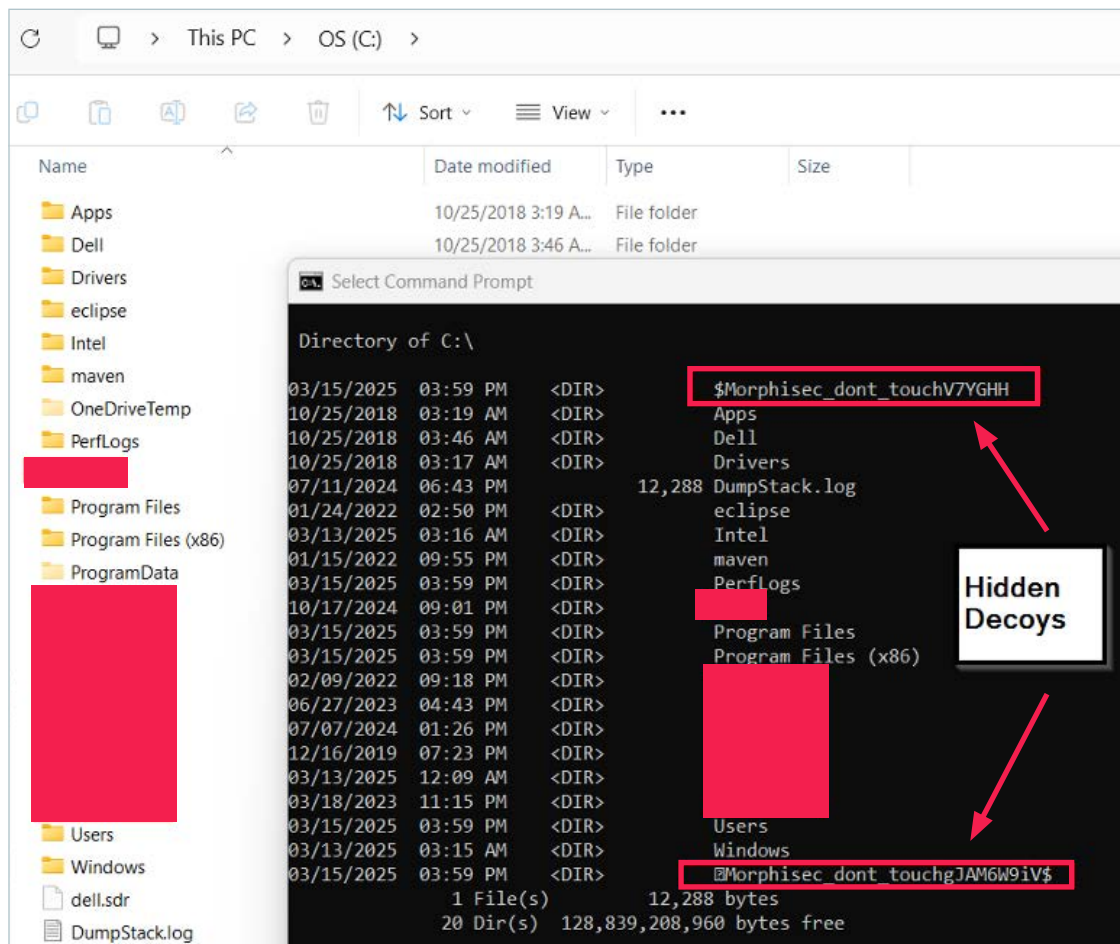
Operational continuity, minimizing downtime and financial losses through fast data recovery and containment, backed by a **Ransomware-Free Guarantee**.

Exclusive Patented Ransomware Prevention

Morphisec is the only cybersecurity company to hold a patent on ransomware prevention using decoys. This innovation provides unmatched protection against encryption-based attacks:

Patent Reference: [US11645383B2](#)

Endpoint View Example



Morphisec is a cloud delivered, operationally efficient solution that prevents advanced threats without additional staffing or performance impact.

- + Prevention over recovery – Avoid encryption before it happens.
- + Immediate containment - Stop ransomware at the source.
- + No impact on user experience - Get seamless security with no disruption.
- + Patented innovation - Access the industry's first and only decoy-based ransomware prevention.
- + Guaranteed protection - Rest easy with Morphisec's industry-leading Ransomware-Free Warranty.

“A layered defense consisting of AMTD obstacles and deceptions significantly elevates an organization’s security posture.”



Tech Innovators in Automated Moving Target Defense



See Morphisec in action

Stop ransomware with our
Preemptive Cyber Defense Platform

Get a demo

About Morphisec

Morphisec is the trusted global leader in prevention-first Anti-Ransomware protection, redefining cybersecurity with our industry-leading Automated Moving Target Defense (AMTD) technology. Our solutions are trusted by over 7,000 organizations to protect more than 9 million endpoints worldwide, stopping 100% of ransomware attacks at the endpoint and safeguarding businesses against the most advanced and dangerous threats, including zero-day exploits and ransomware.

At Morphisec, we don't just fortify defenses – we proactively prevent attacks before they happen, delivering unmatched protection and peace of mind to our customers. With our Ransomware-Free Guarantee and commitment to Preemptive Cyber Defense, we set the standard for accountability and innovation in the fight against modern cybercrime.

As a rapidly growing company, we are dedicated to empowering security professionals and organizations to adapt, protect, and defend against ever-evolving threats. Join us in shaping the future of cybersecurity with prevention-first strategies and unparalleled expertise.

To learn more, visit morphisec.com/demo