



• VanHelsing

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VanHelsing Ransomware is a financially motivated ransomware-as-a-service (RaaS) group active since 2024, known for rapid expansion and widespread variant proliferation following builder leaks. It poses a high risk due to multi-platform ransomware campaigns targeting Windows, Linux, and ESXi environments through 2025. The group primarily focuses on enterprise IT, cloud infrastructure, datacenters, and virtualization-heavy environments worldwide.

IDENTITY



Attribution : Criminal ransomware-as-a-service (RaaS) operation.

Active Since : 2024

Aliases : No confirmed vendor aliases; multiple forks due to leaked builder.

Motivation : Financial gain through extortion, data theft, and multi-platform system encryption.

TTPs

Initial Access - Affiliate-driven intrusion methods (RDP brute force, SSH compromise, VPN/web exploits)

- Purchase of initial access from access brokers

- Exploitation of vulnerabilities in ESXi and virtual infrastructure

Persistence - Deployment of backdoors and remote shells in Linux/ESXi

- Use of service modifications for Windows persistence

- Leveraging compromised hypervisor credentials for long-term access

Command & Control (C2) - Encrypted communication channels (HTTPS)

- Use of TOR or proxy networks for negotiation portals

- C2 variations across forks due to builder leak

Tools & Malware - Multi-platform VanHelsing ransomware payloads:

- Windows x86

- Windows ARM

- Linux

- VMware ESXi

- Data exfiltration tools (rclone, custom scripts)

- VM-specific encryption modules for VMDK/VHD files

Techniques - Double extortion (data theft + encryption)

- Rapid lateral movement via RDP/SSH pivoting

- Snapshot deletion and backup destruction in ESXi

- Highly optimized multi-threaded encryption for large storage nodes

TARGET PROFILE

Target Sectors - Datacenters and hosting providers

- Enterprise virtualization environments

- Cloud/IT service companies

- Organizations with mixed Windows/Linux infrastructure

Geographies Targeted : Global distribution with concentration in regions using ESXi and Linux-heavy environments

THREAT ASSESSMENT

Risk Level : High

Most Recent Activity : Surge in adoption following ransomware builder leak; widespread targeting across enterprise virtualization systems

Evolution : Rapid iteration, forked variants, improved ESXi/Linux encryption logic, growing affiliate ecosystem

NOTABLE OPERATIONS

2024: Initial underground promotion of VanHelsing RaaS.

• Late 2024: Builder leak by former developer, enabling mass misuse.

• 2025: Large-scale campaigns compromising ESXi, Linux servers, and ARM-based Windows systems.