

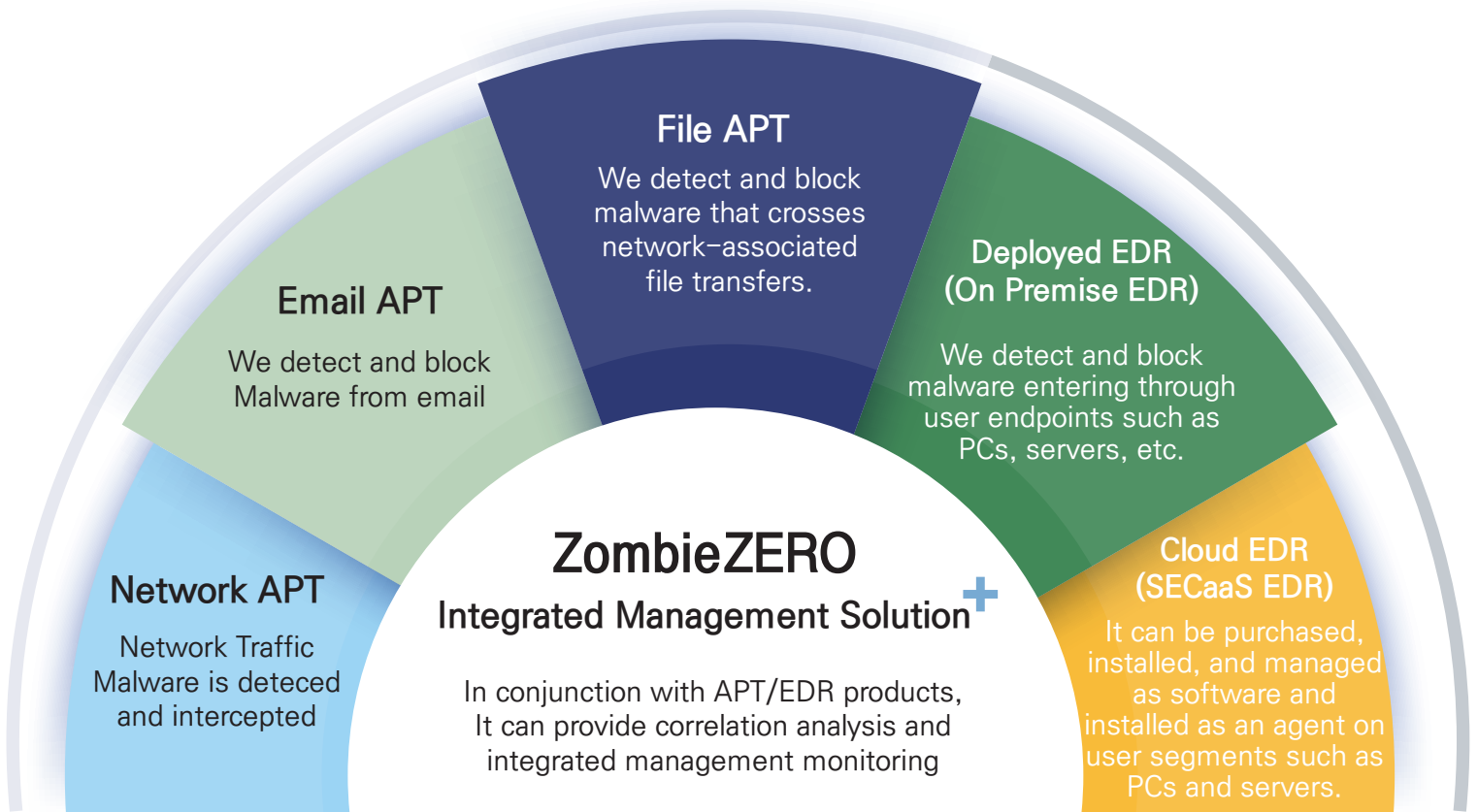
# Zombie ZERO

AI-based solutions for new and variant malware and ransomware



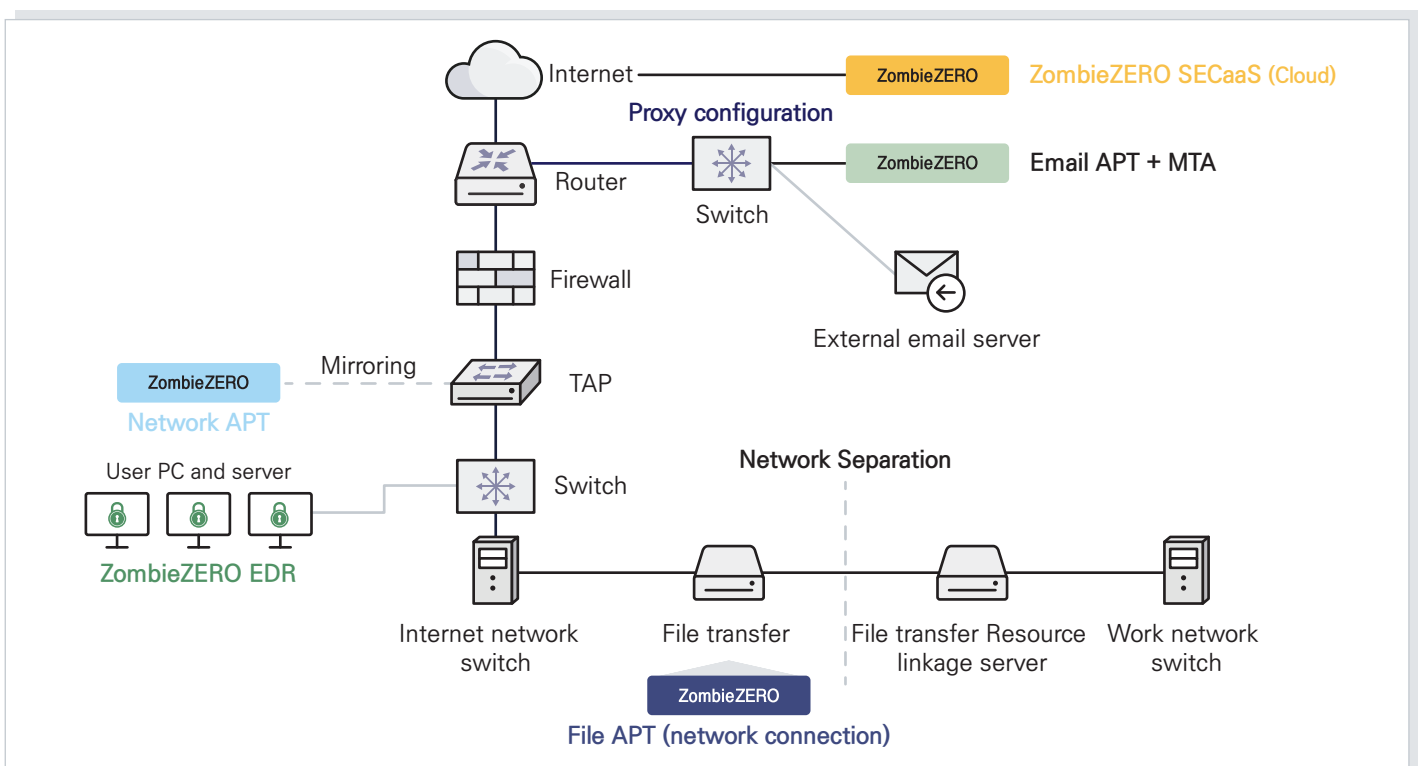
We create a secure security environment from cyber threats.

# AI-based action analysis security solution that detects and blocks new and variant malware such as ransomware and APT



## ZombieZERO System

Solutions can be built on various pathways through which malware may enter the system



# | ZombieZERO APT

Appliance-based integrated security solution (HW+SW)

Network, Mail, and Files (constructed in the network coordination section)



Behavioral analytics complements traditional signature-based analysis **Compensate for zero-day vulnerabilities** that are not detected by the system

- Monitor two-way network traffic for file inflows and outflows
- Collect and analyze key Internet service protocols
- Detect and block access to harmful sites and C&C communications



**Addressing the limitations of traditional signature-based spam solutions** that are vulnerable to malware

- Integrate APT with Message Transfer Agents (MTAs)
- Block only malicious information from mail containing spam, spearphishing, and malware
- Analyze email attachments and URLs and send only legitimate mail to the mail serve

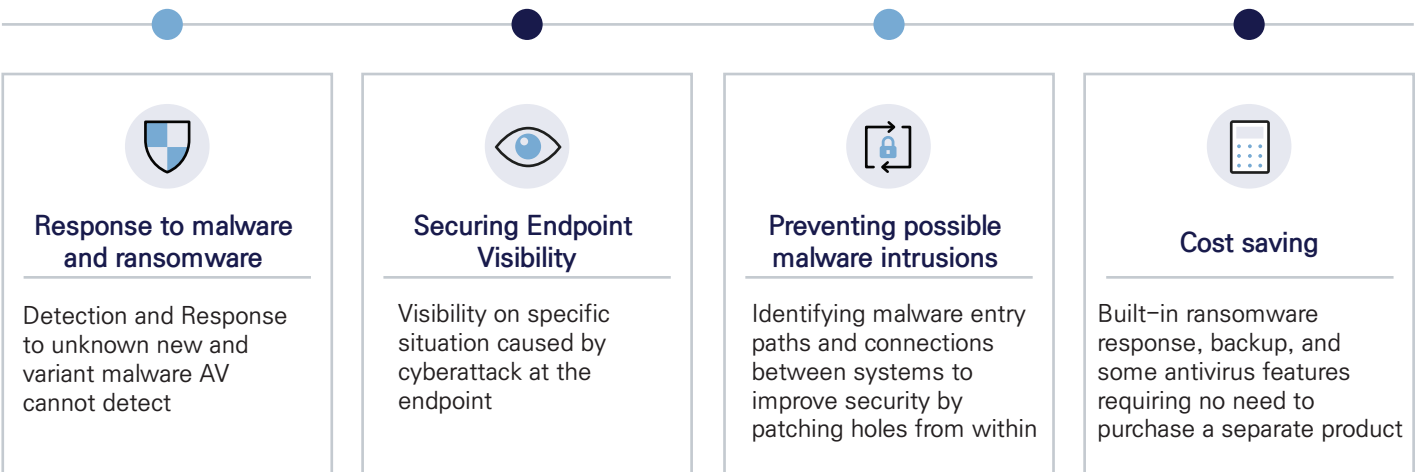


Overcoming the limitations of traditional signature spam solutions that are vulnerable to new and variants

- Analyze and block files in transit in conjunction with network connectivity solutions
- Categorize analyzed files and send only those deemed normal to the business network
- Deliver analysis results using shared folders

## Expectations

· When APT and EDR products are deployed concurrently





# | **ZombieZERO EDR**

On-premises / cloud deployment to detect and block malware that flows through user segments such as PCs and servers



## Main features



### Real-time detection and response for ransomware

- Counteract file encryption and forgery/tampering by ransomware
- Global antivirus 'Bitdefender' adopted



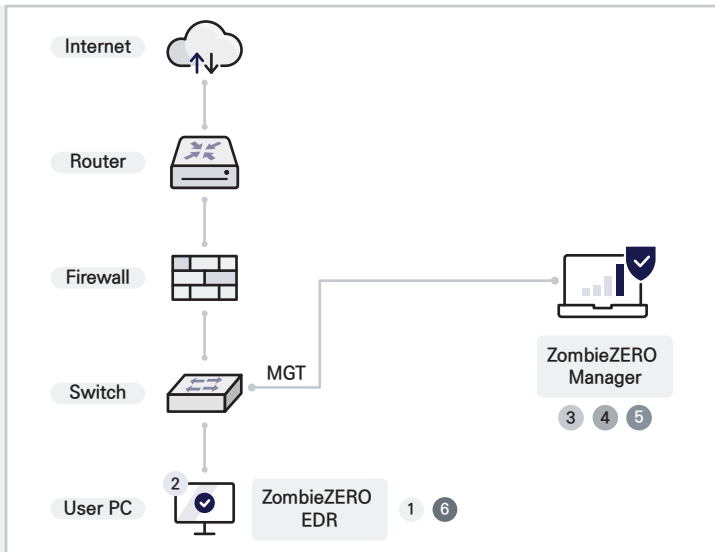
### Zero Trust (Execution pending)

- Upload information to the analytics server by suspending execution of files when new files are introduced or threat files are executed



### IOC-based real-time threat detection

- Detect indicators of compromise(IOC) for user device behavior (network, file, process, registry, etc.)

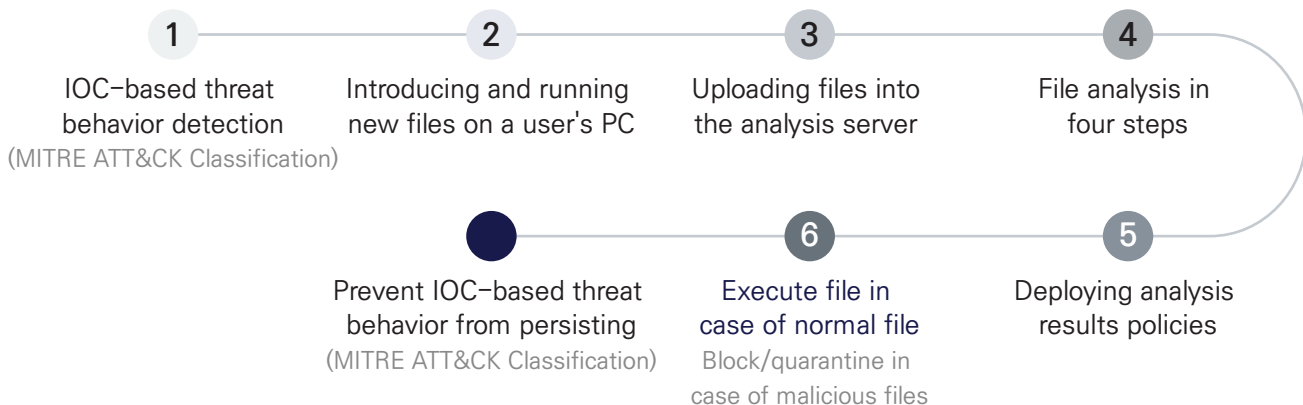


## ZombieZERO SECaaS

### ZombieZERO EDR Cloud Service

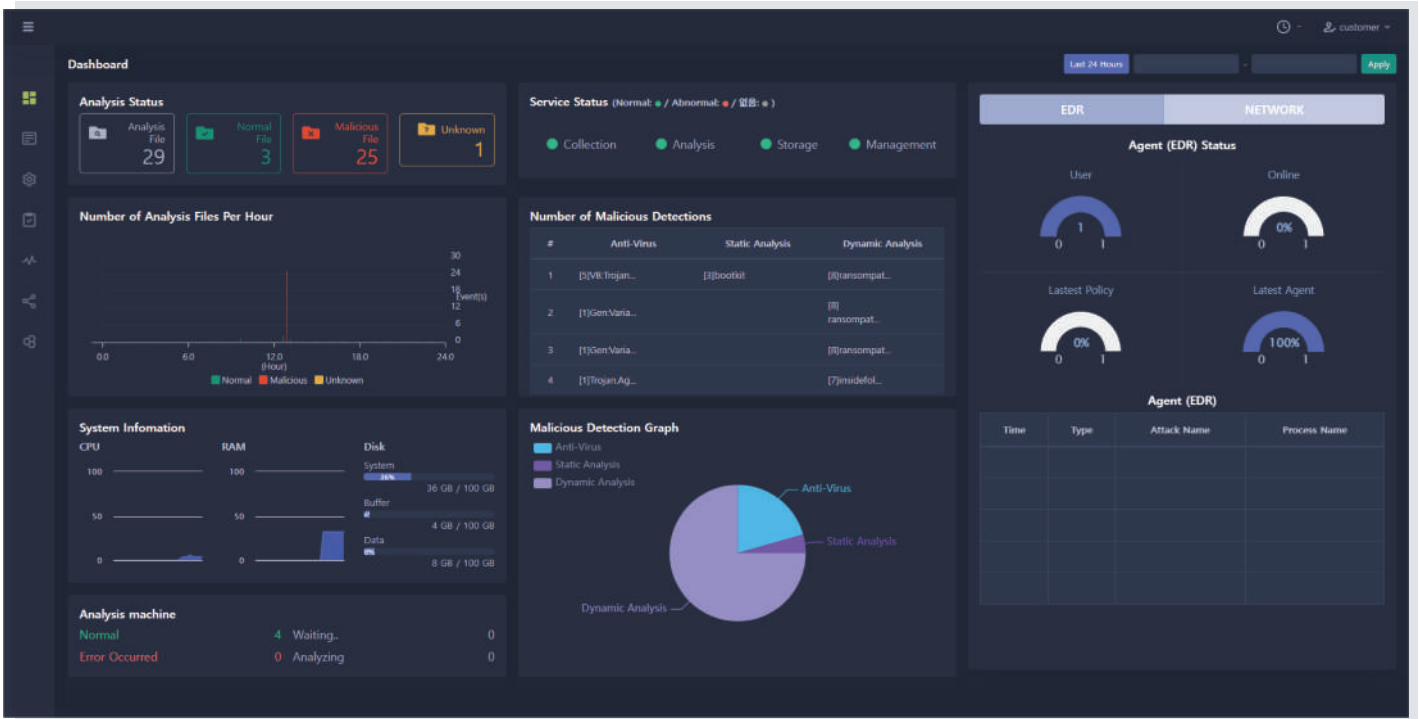
- Install as an agent through a dedicated webpage
- Full functionality including purchase, installation, and centralized management on the web
- High user management and convenience, no H/W introduction cost
- Suitable for SMEs and remote and telecommuting environments

## EDR detection and analysis capabilities



## ZombieZERO UI

- Organize layouts with an intuitive design so admins can easily find the information they're looking for
- Apply visual design to help admins get quick and accurate situational awareness
- Enhance security with authentication and permission controls to ensure only authorized users have access



## Major Common Features

### Multidimensional analysis



AV · Multi-dimensional detection and analysis including static, dynamic, and reputation analysis

### Prevent virtual machine bypass



Providing the same dynamic behavioral analytics as real machines

### MITRE ATT&CK



Detecting Malware by MITRE ATT&CK Criteria

### Malware flowchart



Function to detail and monitor attack types based on indicators of compromise

### ECSC formula



Integration with Ministry of Education Cyber Safety Center Yara Rule

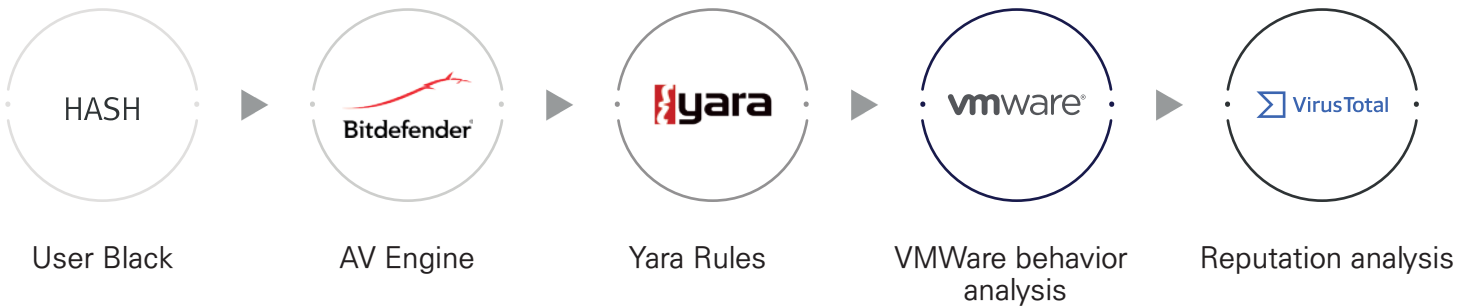
### AI-based malicious code detection



AI-based fast and accurate detection technology for malicious codes

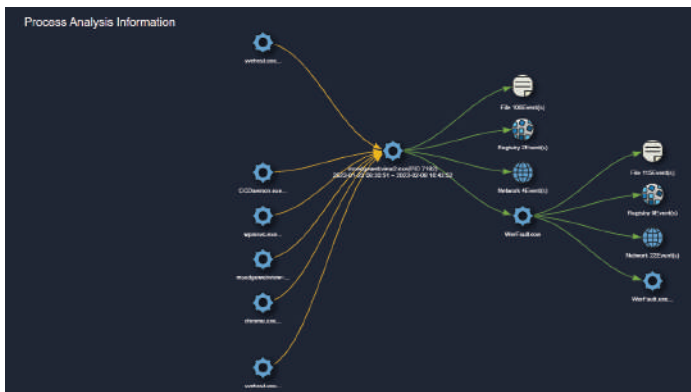
### Multidimensional Analysis

- Detect and block malware with multidimensional analysis of traffic flowing through your network from outside to inside.



### MITRE ATT&CK · Malicious behavior flowchart

- Monitoring the shape of techniques and methods for ongoing attacks, not the results of attacks



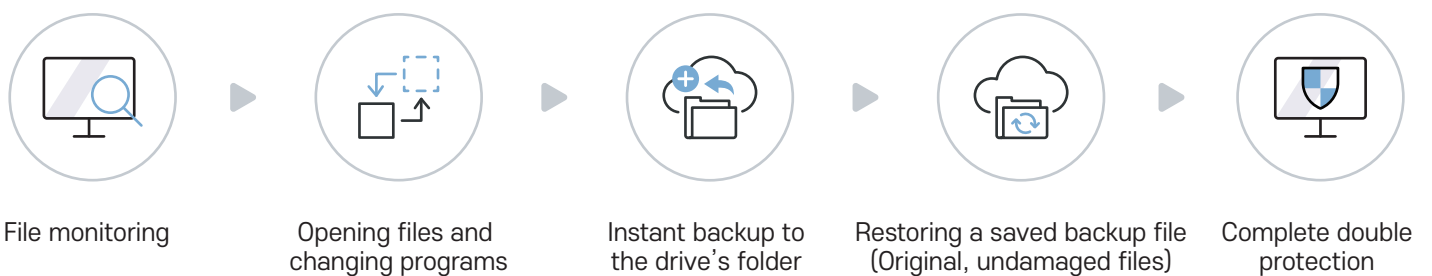
Process analysis information (malicious behavior flowchart)



MITRE ATT&CK Navigation

### Real-time backup

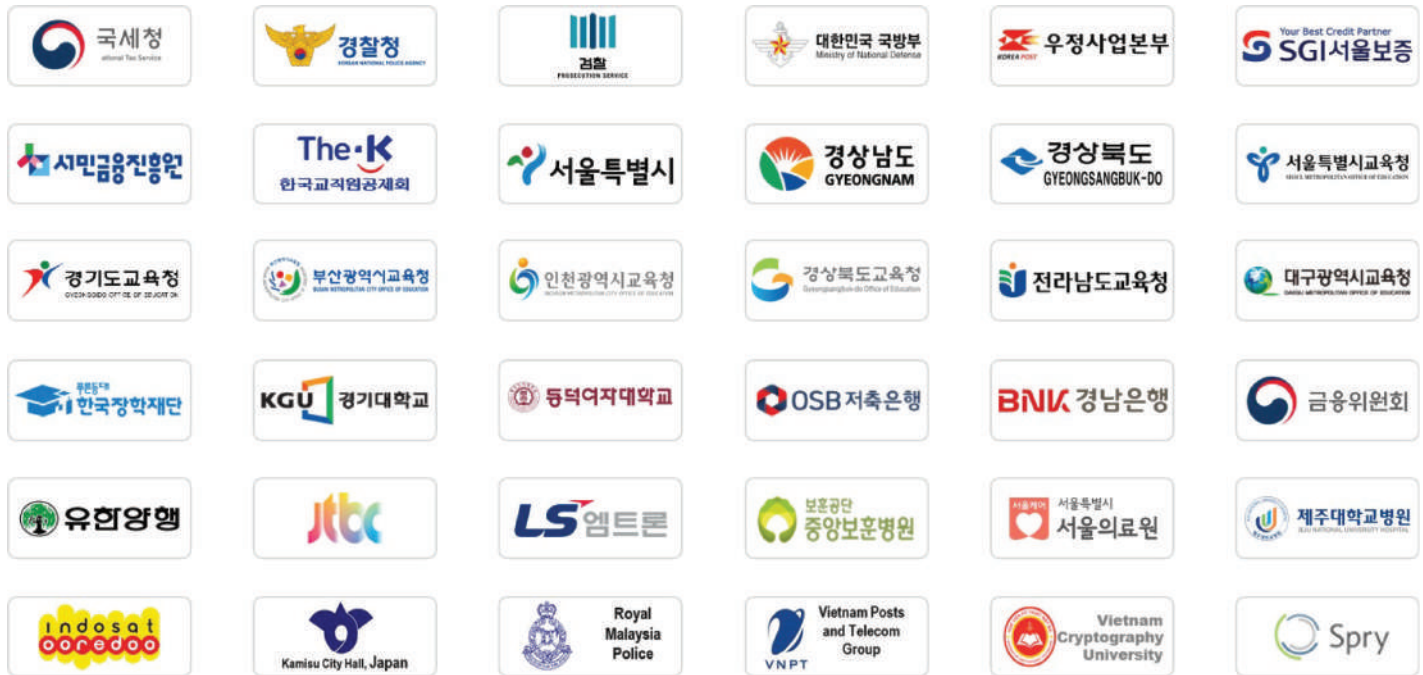
- Backup files to a secure folder inaccessible by normal processes at the last minute before file encryption
- Backup and execution at the kernel driver level, eliminating cross-application conflicts and performance degradation





## References

No. 1 for APT in Korea with more than 150 clients in Korea and abroad



## Certificates and Patents

NPCore holds international CC, GS certificate, and Innovative Product certificates, registered 13 patents, including 2 in the U.S. and 1 in Japan.



International CC Certificate

GS Certificate 1st Grade

Patent in US

Innovative Product Certificate