



# **Endpoint Secure**

## **Endpoint Security**

## The Future of Endpoint Security

Certification of the Best Windows Antivirus Solution and "TOP PRODUCT" Award by AV-Test



**Recommended Windows Protection by** 







#### Enterprise-level endpoints face serious security challenges in a new era

Enterprise LAN endpoints and data have significant value to cyber criminals, putting endpoints, servers, software and hardware at serious risk of attack from complex and sophisticated viruses, ransomware and various other propagation modes. These serious endpoint security challenges as well as increasingly strict regulations on protection, management and applications make proactive endpoint protection critical.

#### o° Manual operation and maintenance increases the cost of defense

Traditional endpoint security products operate on common policies and characteristics, often based on more traditional organizational rules and operation regulations, designed to defend against threats from known sources. Organizations utilizing this more traditional approach to security, yet suffering attack from more complex and advanced threats, often experience an exponential increase in labor costs, while specialized enterprise O&M personnel have inadequate experience to effectively respond to the threat.



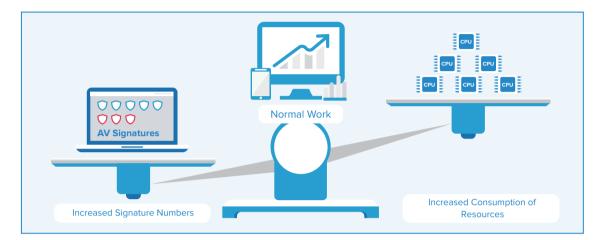
## Feature matching response to viruses is inadequate protection to new attack methods

In environments where there is constant risk from advanced threat, virus prevention methods utilizing the more passive antivirus database identification and response methods are often penetrated by newer viruses and ransomware. In addition, the limited capacity of local feature databases often fails to meet basic protection requirements against unknown and even some known viruses.



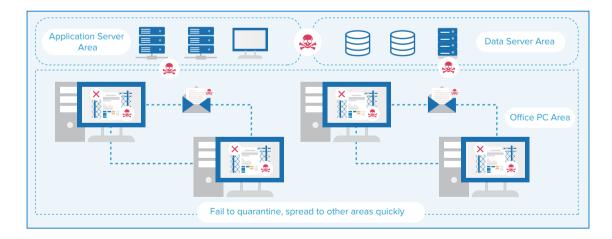
## (5) High-capacity antivirus feature databases lead to increased host computing resource costs

The gradual increase in quantity of antivirus feature databases increases the cost of endpoint storage and computing resources. When threat defense monopolizes a significant amout of work hours and employee effort, users are unable to focus on optimizationscenarios such as shifting to the cloud.



#### Outdated virus protection is incompatible with new propagation modes and virus environments

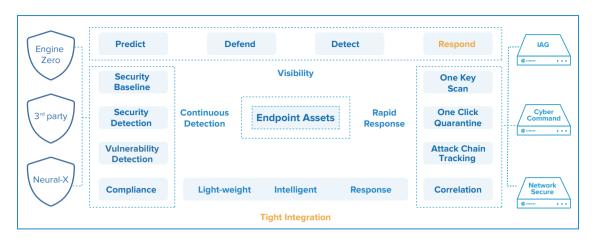
Virus killing based on the file isolation method is outdated, with failure allowing a single-point threat to spread quickly. New viruses and propagation modes are often able to bypass traditional antivirus products, which are not designed to adapt to new threats and environments.



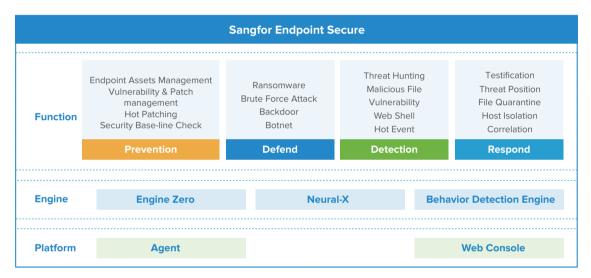
#### Sangfor Endpoint Secure

Sangfor's Endpoint Protection and Response platform (Endpoint Secure) provides the endpoint with a more detailed isolation policy, enabling more accurate search and destroy capabilities, sustainable detection capabilities and faster processing capabilities including prevention, defense, detection and response. Endpoint Secure is constructed through cloud linkage and coordination, threat information sharing and multi-level response mechanisms. Advanced threat response is immediate, with Endpoint Secure providing users with assistance dealing with any endpoint security problems by way of its new, light-weight, intelligent and instantaneous endpoint security system.



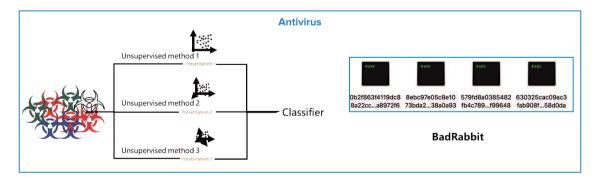


#### Architecture of Endpoint Secure





#### **Application Scenarios**



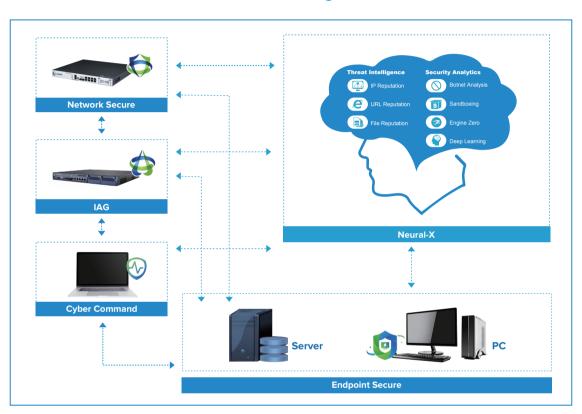
#### **Risk Scenario:**

Internal endpoints are widely deployed across multiple office networks. Attacks from unknown malware or ransomware significantly affect business critical applications, compromising the security of core organization data. Risk increases due to: 1. The lack of resources available to detect and respond to advanced and unknown threats prevent proactive defense. 2. Manual system management being inadequate when dealing with fast-moving and unknown threats - exposing the system to numerous attack surfaces.

#### **Endpoint Secure Application Effects:**

1. An AI core and the supplementation of the reputation database, gene and behavior analysis functions provides a 100% threat defense system capable of immediate and comprehensive detection and prevention.

2. Multi-dimensional innovative micro-segmentation technology and intelligent coordination of cloud-pipe-device functions provide immediate identification and response and comprehensive threat neutralization.



#### Device Linkage

#### **Risk Scenario:**

While most internal infrastructure utilizes firewall, intrusion prevention and other various border gateway devices, many gateway devices perform their own independent functions, preventing cohesive and effective security defense.

1. Gateway devices acting independently to prevent malicious attack means that once the boundary is breached, the malicious attacker propagates rapidly and can't be controlled.

2. Even if the external threat is known, effective shared linkage with the endpoint cannot be formed and endpoint control cannot be achieved.

#### **Application Effects:**

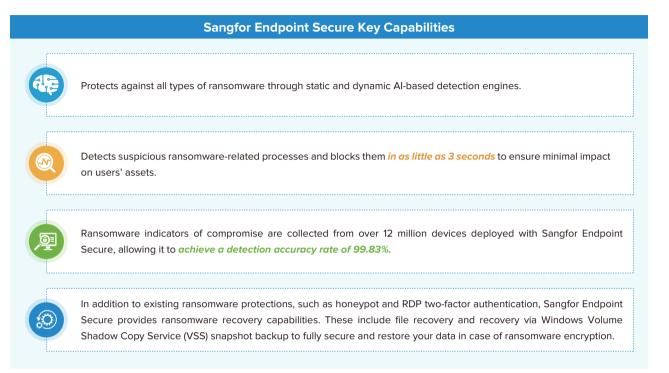
1. Endpoint Secure can be coordinated and linked with Sangfor Neural-X, Network Secure, IAG and Cyber Command to form a defense structure covering the cloud, boundary and endpoint, sharing the internal and external threat information in real time.

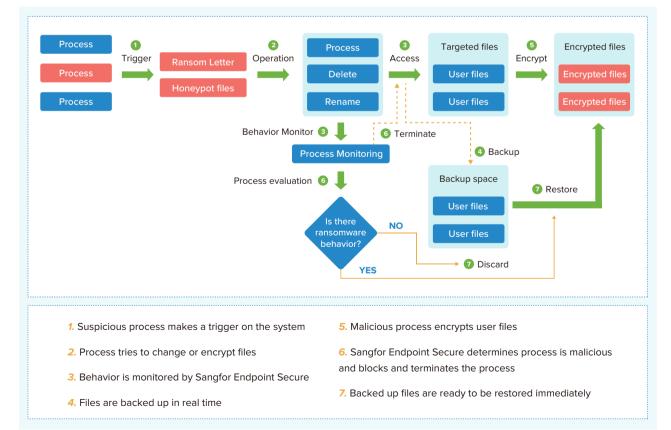
2. The Endpoint Secure intelligent linkage mechanism shares external threat information in a timely manner, allowing automatic response.



#### Advantages and Characteristics

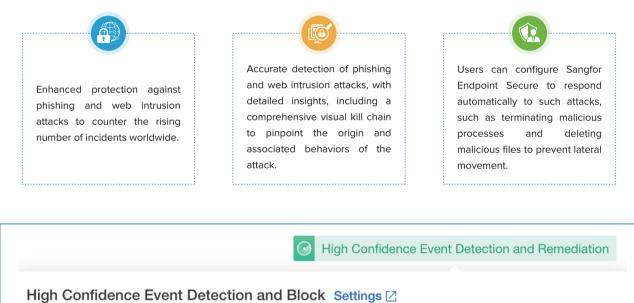
#### Ransomware Protection and Recovery





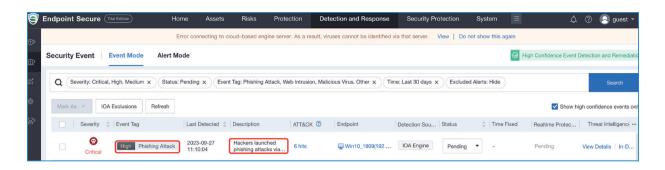
Basic Config Anti-Malware Realtime Protection Anti-Ransomware Trusted Files General Settings Vuln Remediate	© Restore Encrypted Files ×
🗱 Windows 💧 Linux	Files will be deleted if the backup repository does not have enough space. Please restore important files promptly. Destination Location Original Location
Ransomware Protection 🔒	○ Specified
Action       Auto Fix:     Auto Fix:     Auto Fix:     Auto Fix:	Files  Restore To Be Restored
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Password : Change Password	C(\Users\Administrator\Downloads\edr\ins 20.0MB To Be Rest 2023-09-22 1828:14 Copy     C(\Users\Administrator\Downloads\ass.ins 14.6MB To Be Rest 2023-09-22 1828:13 Copy
Backup Report Single File Size Limit: 50 MB Prease enter an integer between 1 and 100. Total Backup Size Limit: 2000 MB Please enter an integer between 1.000 and 10.000.	C.(Users)Administrator/Documents/deskto 4028 To Be Rest 2023-09-22 182812 Copy C.(Users)Administrator/Documents/deskto 4028 To Be Rest 2023-09-22 182812 Copy
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Backup Reposit Max Ratio of Total Backup Size to Disk Space 50 1/6 The actual backup size will be adjusted automatically if there is not-	Total: 27 (1)

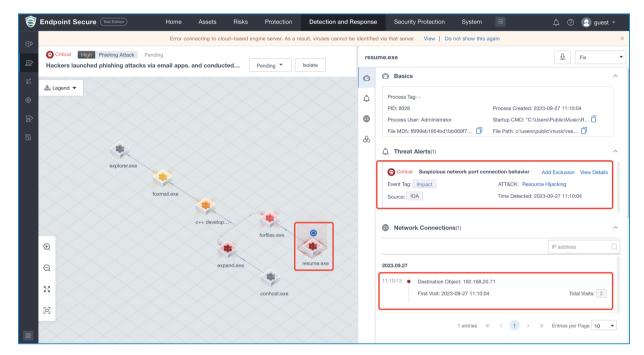
#### Phishing and Web Intrusion Protection with Automated Response

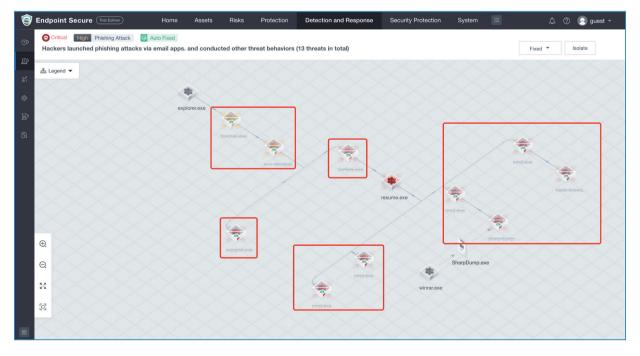












#### New Artificial Intelligent Antivirus Engine

Unlike traditional antivirus engines, Engine Zero has adopted artificial intelligence (AI) featureless technology, enabling effective identification of unknown viruses and variants, including those unlisted in the antivirus database.

Official performance testing conducted by AV-TEST awarded Sangfor Endpoint Secure a perfect 6 for Protection, Performance, and Usability, earning it the AV-TEST "TOP PRODUCT" award.



Detect Unknown Malware Accurately

**Complete Antivirus Protection for Business PCs:** 

	Industry average	July 2023	August 2023
Protection against 0-day malware attacks, inclusive of web and e-mail threats (Real-World Testing) 306 samples used	99.7%	100%	99.4%
Detection of widespread and prevalent malware discovered in the last 4 weeks (the AV-TEST reference set) 18,589 samples used	100%	100%	100%
Protection Score	6.0/6.0		

Figure 1. Sangfor Endpoint Secure Protect test results for Protection

#### **Antivirus Solution for Business Efficiency:**

	Industry average	July 2023	August 2023
Slowing-down when launching popular websites 65 websites visited	27%	24%	24%
Slower download of frequently-used applications 25 downloaded files	1%	1%	0%
Slower launch of standard software applications 70 test cases applied	9%	5%	5%
Slower installation of frequently-used applications 25 installed applications	19%	13%	12%
Slower copying of files, locally and in a network 9,772 files copied	3%	3%	2%
Performance Score	6.0/6.0		

Figure 2. Sangfor Endpoint Secure Protect test results for Performance



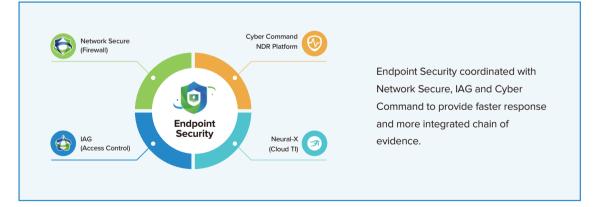
#### • High Compatibility •

Continuously protect the End of Support (EOS) OS system and provide hot patching function to protect None-Restart server.

Windows	· · ·	$\textcircled{\ }$	Red Hat	CentOS	O debian	SUSE.		
Windows	macOS	Ubuntu	Redhat	CentOS	Debian	SuSE	Oracle Linux	Other
• Windows XP SP3 *	• macOS 10.13	• Ubuntu 10	• RHEL 5	CentOS 5	• Debian 6	• SUSE 12	• Oracle Linux 5	<ul> <li>Red Flag Asianux</li> </ul>
• Windows 7 *	• macOS 10.14	• Ubuntu 11	• RHEL 6	CentOS 6	• Debian 7	• SUSE 11.X	<ul> <li>Oracle</li> </ul>	Server 4
• Windows 8 *	• macOS 10.15	• Ubuntu 12	• RHEL 7	CentOS 7	• Debian 8	• SUSE 15.X	Linux 6	• NeoKylin 5
• Windows 8.1 *	• macOS 11.x	• Ubuntu 13	• RHEL 8	CentOS 8	• Debian 9		<ul> <li>Oracle Linux 7</li> </ul>	• NeoKylin 6
• Windows 10	• macOS 12.x	• Ubuntu 14					<ul> <li>Oracle</li> </ul>	• NeoKylin 7
• Windows 11		• Ubuntu 16					Linux 8	• KylinOS 4
Windows Server 2003 SP2 *		• Ubuntu 18						• Ubuntu
Windows Server 2008 *		• Ubuntu 20						Kylin 18
Windows Server 2008R2 *								
Windows Server 2012								
• Windows Server 2016								
• Windows Server 2019								
Windows Server 2022								

\* The following Windows versions are no longer supported or receiving security updates from Microsoft.

#### Multi-dimensional Linkage



#### • Advanced threat analysis & respond with MITRE ATT&CK<sup>®</sup> •

Tactics: 5 Hit Te	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Command and Control	Exfiltration	Impact
	Command and Scri 1	Scheduled Task/Job 3		Masquerading 1					Ingress Tool Transfer 1		Resource Hijacking 1
		Valid Accounts 1		Obfuscated Files or 1					Application Layer P 2		
		Event Triggered Exe 1		BITS Jobs 1							
				Impair Defenses 1							

## (a) Edition and Features

	Feature/Module	Essential Edition	Ultimate Edition
	Vulnerability Scan	0	<b>O</b>
	Remediation	<b>Ø</b>	0
	Security Compliance Check	<b>Ø</b>	<b>O</b>
	Asset Inventory	<b>O</b>	<b>O</b>
Prevention	Asset Discovery	<b>Ø</b>	0
	Micro-Segmentation		<b>O</b>
	Hot Patching		<b>O</b>
	TOTP Authentication	<b>O</b>	<b>O</b>
	Endpoint Behavior Data & Log Collection		<b>O</b>
	Realtime File Monitoring	<b>O</b>	<b>O</b>
	Ransomware Honeypot	<b>Ø</b>	<b>O</b>
	Ransomware Protection	<b>Ø</b>	<b>O</b>
	Ransomware Backup Recovery	<b>O</b>	<b>O</b>
Protection	Ransomware Defense	<b>O</b>	<b>O</b>
i lottettion	Fileless Attack Protection		<b>Ø</b>
	End-of-Support Windows System Protection	<b>O</b>	<b>O</b>
	RDP Secondary Authentication (Anti-Ransomware)		<b>O</b>
	Trusted Processes (Anti-Ransomware)		0
	Key Directory Protection (Anti-Ransomware)		0
	Malicious File Detection	<b>O</b>	<b>O</b>
	APT Detection	<b>Ø</b>	0
	Brute-Force Attack Protection	0	<b>O</b>
	Improved Phishing and Web Intrusion Detection	<b>O</b>	0
	Coordinated Malware Response with XDDR		<b>O</b>
Detection	WebShell Detection		<b>O</b>
	Advanced Threat Detection		<b>O</b>
	Suspicious Login Detection	0	<b>O</b>
	Memory Backdoor Detection		0
	Reverse Shell Detection		0
	Local Privilege Escalation Detection		<b>O</b>
	Remote Command Execution Detection		0
	File Quarantine	<b>O</b>	0
	Endpoint Isolation	<b>Ø</b>	0
	File Remediation	0	0
	Virus Mitigation	<b>Ø</b>	0
Response	Automated Response to Phishing and Web Intrusion events	0	0
	Extended Detection, Defense and Response (XDDR)		0
	Threat Hunting		0
	Domain Isolation	<b>O</b>	0
	Process Blocking	<b>Ø</b>	0
	Script File Upload	<b>Ø</b>	0
Maintonance	USB Control	<b>Ø</b>	0
Maintenance	Unauthorized Outbound Access Detection	<b>O</b>	0
	Remote Support	<b>O</b>	<b>O</b>
	Application Blacklist		0
IT Governance	Software Metering		<b>O</b>
	Software Uninstallation		<b>O</b>

Ultimate Edition is recommended for device linkage scenario and advanced protection.

### SANGFOR ENDPOINT SECURE

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#### **AVAILABLE SOLUTIONS**

IAG - Internet Access Gateway Secure User Internet Access Rehaviour

Network Secure - Next Generation Firewall Smarter Al-Powered Perimeter Defence

**Endpoint Secure - Endpoint Security** The Future of Endpoint Security

Cyber Command - Network Detection and Response Smart Efficient Detection and Response

**TIARA - Threat Identification, Analysis and Risk Assessment** Smart Threat Analysis and Assessment

IR - Incident Response Sangfor Incident Response - One Call Away

Cyber Guardian - Managed Threat Detection & Response Service Faster Response Through Human/AI Collaboration

**HCI - Hyper-Converged Infrastructure** Fully Converge Your Data Center

**MCS** - Managed Cloud Services Your Exclusive Digital Infrastructure

VDI - aDesk Virtual Desktop Infrastructure Seamless Experience, Secure and Efficient

Access Secure - Secure Access Service Edge Simple Security for Branches & Remote Users

aStor - Enterprise Distributed Storage The Only Secured Data Storage You Need

SD-WAN Boost Your Branch with Sangfor



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