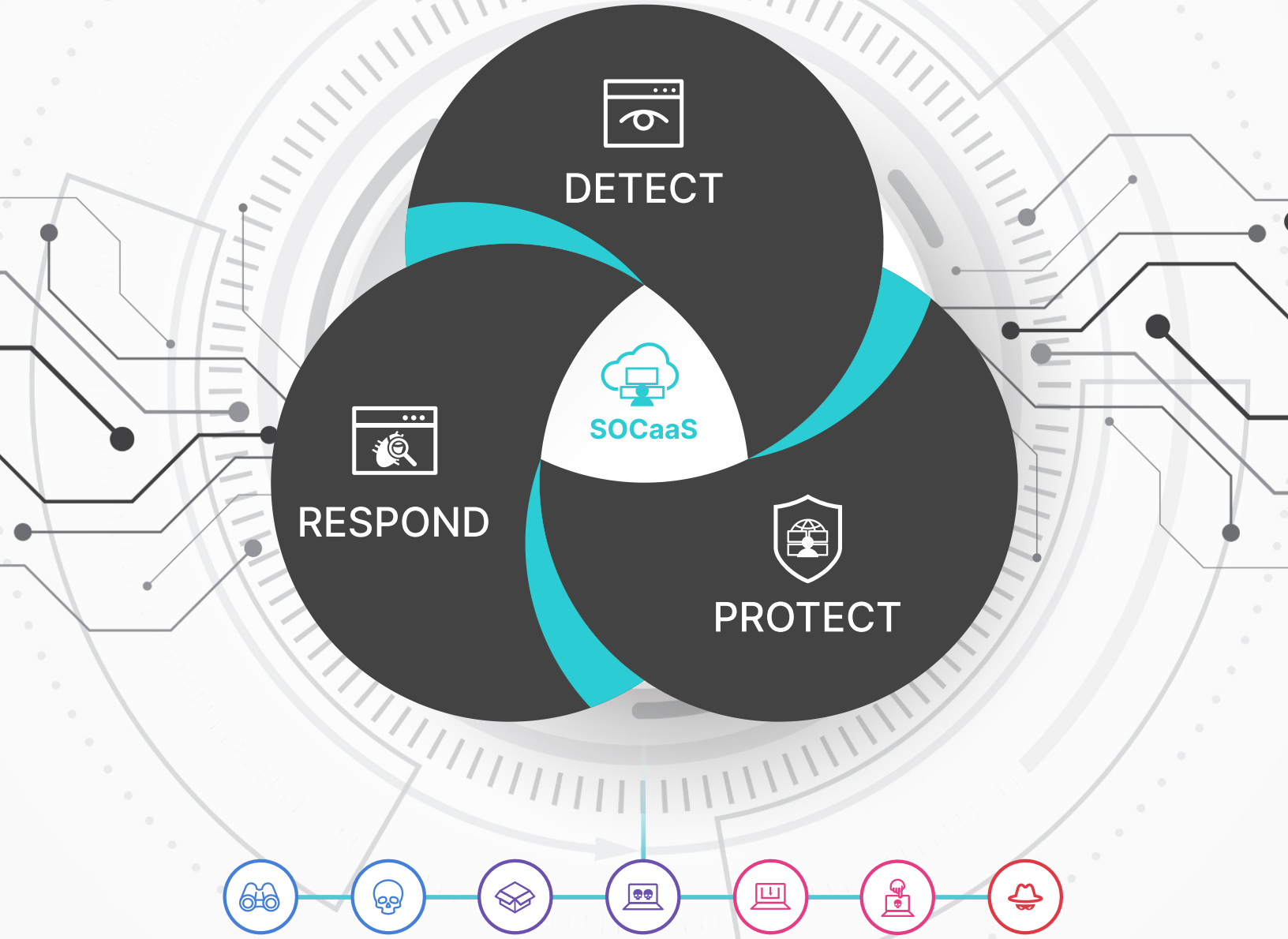
FORTINET

SECURITY OPERATIONS CENTER AS A SERVICE

Augment your SOC with automation & Fortinet experts



Q4/2023

Service at a Glance

Use Case Coverage

- Compromised Hosts
- Malware Detection
- Unauthorized Access
- Policy Violation
- Botnet / C&C
- Lateral Movement

Operations & Integration

- 24×7 Monitoring & Triage
- Cloud Service Portal
- Reports
- Quarterly Business Review
- Integrated with FortiSASE
- Integrated with Managed FortiGate Service
- Integrated with FortiClient Forensic Service
- Powered by FortiGuard & SOAR
- Driven by Security Experts

Hardening Best Practices

- Logging Best Practices
- Health Monitoring
- Security Posture Review

What is SOCaaS ?

Fortinet's **Security Operation Center-as-a-Service (SOCaaS)** is a cloud-based managed security monitoring service that analyzes security events generated from Customer's FortiGate and other Fabric Products, performs alert triage, and escalates confirmed threat notifications.

How does it work?

Subscribe

To **subscribe** to SOCaaS, simply purchase the FortiGate subscription license through a licensed reseller and register it to FortiCloud.

Onboard

Fortinet security experts work with you to onboard your entitled devices into the SOCaaS. During the onboarding phase, a review takes place to assess and address any security gaps that may exist.

Incident Response

After the devices are successfully onboarded, the SOC team works round the clock, 24×7×365, to collect and analyze incoming logs. Their main goal is to identify any confirmed or suspicious activity. Initially, the SOC analyst triages these activities, determining their level of priority. Once confirmed, the incidents are escalated back to the customer's SOC team for further action.

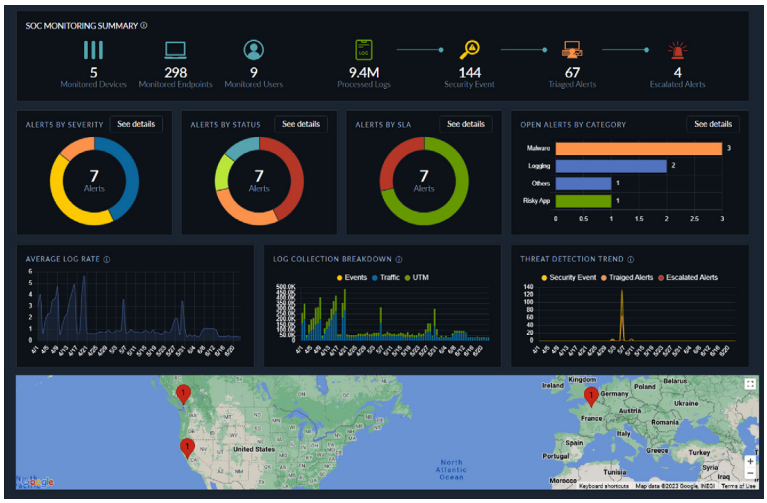
When combined with **Managed FortiGate Service**, customers gain the valuable expertise of a trusted security advisor who can help enhance their SOC and NOC capabilities. The Managed FortiGate Service team is then equipped to take swift action in response to any SOCaaS escalated incidents on behalf of the customer.

This includes effectively containing and responding to the incidents, providing peace of mind and seamless incident management.

How does my SOC integrate with SOCaaS?

SOCaaS serves as an extension of your SOC team, bolstering your current operations with dedicated and highly skilled security experts available **24×7**.

As a customer, you have a straightforward process for handling escalated incidents through the cloud Service Portal.



The SOCaaS Service team works closely with you, providing guidance for incident containment and remediation. Once the incident is resolved, the ticket can be closed. You have complete visibility of the service status through the portal, allowing you to collaborate directly with Fortinet security experts in real-time.Furthermore, you can download reports, request Quarterly Business Review meetings, and schedule security posture assessment reviews with the SOC team.

For urgent escalations, email notifications and phone calls can be set up on an as-needed basis to ensure prompt communication and action.

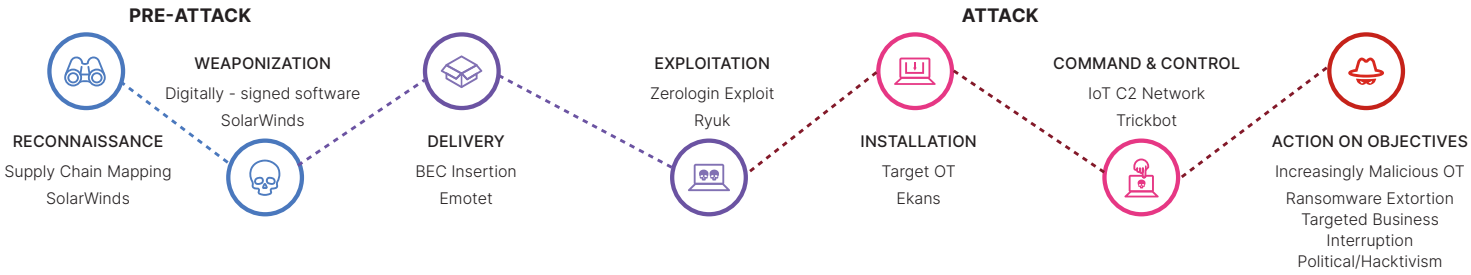
Threat Focus Areas

Preparation	Attacker can enter the network, perform malicious transfers, and go undetected due to mis-configuration.
Reconnaissance	Attacker probes the victim's infrastructure and gains insights into vulnerable access points.
Initial Access	Attacker gains initial foot hold of the victim's network through successful spear-phishing attacks.
Execution	Attacker is able to execute commands or scripts on a local server.
Persistence	Attacker is able to maintain a foothold on a victim vulnerable server by replacing legitimate code or adding start-up code.
Privilege Escalation	Attacker is able to exploit weaknesses on the Victim's network to gain access to root or admin account.
Defense Evasion	Attacker is able to hide or disguise their presence by disabling security software or encrypting sessions.
Credential Access	Attacker has obtained username and passwords for the accounts associated with members of senior management.
Discovery	Attacker has obtained full control of the victim's server and has gained significant information regarding infrastructure assets and privileged accounts.
Lateral Movement	Attackers is able to move through the network from system to system by using legitimate credentials or installing remote access code.
Collection	Attacker has gained access to local files or database stores and is gathering confidential data.
Command and Control	Attacker has full remote control over a victim's asset.
Exfiltration	Attacker is using stealth techniques to remove confidential data form the victim's network.
Impact	Attacker is using disruptive or stealth techniques to hide their presence and data exfiltration exploits.

Order Information

Product	Description	Managed Service SKU
	FortiGate SOCaaS Subscription	FC-10-[FortiGate Model]-464-02-DD
	Managed FortiGate Service	FC-10-[FortiGate Model]-660-02-DD
	FortiSASE + Forensics + SOCaaS	FC2-10-EMS05-676-01-DD
		FC5-10-EMS05-759-01-DD
	FortiGuard Forensics + SOCaaS	FCx-10-EMS05-537-01-DD
		FCx-10-EMS05-538-01-DD
		FCx-10-EMS05-539-01-DD

Cyber Kill Chain



SOC Use Cases for IT

SOCaaS IT Monitoring Use Cases are powered through the enablement of FortiGuard Security Services on the FortiGate. The FortiGate must have a valid FortiGuard Security Services Licenses and corresponding security profiles are used in a policy.

- The minimum requirement is the FortiGuard ATP Bundle (IPS, Anti-Malware, Application Control Protection)
- Leveraging SOCaaS out-of-the-box monitoring capabilities is highly recommended to use the FortiGuard UTP bundle (ATP + Web Filtering, IP & Botnet C&C, DNS Security).

PREPARATION

FortiGate Best Practices

Use cases which detect misconfigurations, gaps in visibility & detection, and logging problems.

Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
Device Logging Problems	FortiGate | FortiSASE	Not applicable	✓
Device misconfigurations (Tuning Preventive Controls)	FortiGate | FortiSASE	UTM logs	✓

RECONNAISSANCE

Reconnaissance

Use cases which detect techniques actively or passively gathering information.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1595	Active Scanning	FortiGate | FortiSASE	Traffic, IPS	✓

SOC Use Cases for IT

DELIVERY

Initial Access

Use cases which detect compromised websites, applications, remote access, services or phishing attacks.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1133	External Remote Services	FortiGate | FortiSASE	IPS, Traffic, VPN	✓
T1189	Drive-by Compromise	FortiGate | FortiSASE	Traffic, Web Filtering, DNS Filtering, IPS	✓
T1190	Exploit Public-Facing Application	FortiGate | FortiSASE	IPS	✓
T1566	Phishing	FortiGate + FortiSandbox	AV, Sandbox, DNS and Web Filtering	✓

EXPLOITATION

Execution

Use cases which detect when unauthorized code or software is enabled on a system.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1072	Software Deployment Tools	FortiGate | FortiSASE	Application Control, Traffic	✓
T1059	Command and Scripting Interpreter	FortiGate | FortiSASE	Application Control, Web and DNS filtering, Traffic	✓
		FortiClient + MS Windows	MS Windows Application events	✓
T1203	Exploitation for Client Execution	FortiGate | FortiSASE	IPS	✓

SOC Use Cases for IT

EXPLOITATION

Credential Access

Use cases which detect attempts to steal credentials such as keyloggers or credential dumping attacks.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1083	File and Directory Discovery	FortiGate | FortiSASE	IPS, Traffic	✓
T1110	Brute Force	FortiGate | FortiSASE	IPS, Traffic	✓

Discovery

Use cases which detect when attackers are attempting to gain knowledge about system and internal networks.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1018	Remote System Discovery	FortiGate | FortiSASE	IPS, Traffic	✓
T1046	Network Service Scanning	FortiGate | FortiSASE	IPS, Traffic	✓
T1083	File and Directory Discovery	FortiGate | FortiSASE	IPS, Traffic	✓
T1087	Account Discover	FortiClient	MS Windows Application Events	✓
T1135	Network Share Discovery	FortiGate | FortiSASE	IPS, Traffic	✓

SOC Use Cases for IT

EXPLOITATION

Defense Evasion

Use cases which detect when attackers are attempting to circumvent protection controls.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1070	Indicator Removal on Host	FortiClient + MS Windows	MS Windows Application Events	✓
T1211	Exploitation for Defense Evasion	FortiGate | FortiSASE	IPS	✓
		FortiClient	FortiShield & Anti Exploit	✓
T1212	Exploitation for Credential Access	FortiClient	MS Windows Application Events	✓
T1497	Virtualization / Sandbox Evasion	FortiClient + FortiSandbox	Malware Execution	✓
T1548	Abuse Elevation Control Mechanism	FortiClient + MS Windows	MS Windows Application Events	✓
T1562	Impair Defenses	FortiClient + MS Windows	FortiShield + MS Windows Application Events	✓

Privilege Escalation

Use cases which detect attempts to gain higher-level permissions on a system or network.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1078	Valid Accounts	FortiClient + MS Windows	MS Windows Application Events	✓
T1548	Abuse Elevation Control Mechanism	FortiClient + MS Windows	MS Windows Application Events	✓

SOC Use Cases for IT

INSTALLATION

Lateral Movement

Use cases which detect attempts to gain unauthorized access to systems on a network from a presumably trusted source on the same network.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1021	Remote Services	FortiGate | FortiSASE	Traffic	✓
		FortiClient + MS Windows	MS Windows Application Events	✓
T1072	Software Deployment Tools	FortiGate | FortiSASE	Application Control, Traffic	✓
T1210	Exploitation of Remote Services	FortiGate | FortiSASE	IPS	✓
T1534	Internal Spearphishing	FortiGate + FortiSandbox	Anti-Virus, Web Filtering	✓
T1570	Lateral Tool Transfer	FortiGate + FortiSandbox	IPS, Anti-Virus, Traffic	✓

Persistence

Use cases which detect attempts to keep access to systems across restarts, changed credentials, and other interruptions that could cut off adversary access.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1176	Browser Extensions	FortiGate | FortiSASE	Traffic	✓
T1133	External Remote Services	FortiGate | FortiSASE	IPS, Traffic, VPN	✓
T1136	Create Account	FortiClient + MS Windows	MS Windows Application Events	✓

SOC Use Cases for IT

COMMAND & CONTROL

Collection

Use cases which detect techniques used by attackers to gather information for the purpose of exfiltration.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1602	Data from Configuration Repository	FortiGate | FortiSASE	Traffic, IPS	✓

Command & Control

Use cases which detect suspicious traffic originating from internal system to external destinations.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1001	Data Obfuscation	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1008	Fallback Channels	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1071	Application Layer Protocol	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1092	Communication Through Removable Media	FortiClient	USB Device Control	✓
T1095	Non-Application Layer Protocol	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1104	Multi-Stage Channels	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1105	Ingress Tool Transfer	FortiGate + FortiSandbox	IPS, AV, Traffic	✓
		FortiClient + FortiSandbox	Anti-Virus	✓
T1132	Data Encoding	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
		FortiClient + MS Windows	MS Windows Application Events	✓
T1219	Remote Access Software	FortiGate | FortiSASE	Traffic & Application Control	✓
T1568	Dynamic Resolution	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1571	Non-Standard Port	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1573	Encrypted Channel	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓

SOC Use Cases for IT

ACTIONS ON OBJECTS

Exfiltration

Use cases which detect techniques that adversaries may use to steal data and avoiding detection while removing it.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1041	Exfiltration Over C2 Channel	FortiGate | FortiSASE	IPS, Web and DNS Filtering, Traffic	✓
T1048	Exfiltration Over Alternative Protocol	FortiGate | FortiSASE	Traffic, DNS Filtering	✓
T1052	Exfiltration Over Physical Medium	FortiClient	USB Device Control	✓
T1537	Transfer Data to Cloud Account	FortiGate | FortiSASE	Traffic, Application Control, Web Filtering	✓
T1567	Exfiltration Over Web Service	FortiGate | FortiSASE	Traffic, Application Control, Web Filtering	✓

Impact

Use cases which detect techniques that adversaries may use to disrupt availability or compromise integrity by manipulating business and operational processes.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T1486	Data Encrypted for Impact	FortiClient	Ransonware Protection	✓
T1498	Network Denial of Service	FortiGate | FortiSASE	IPS	✓

SOC Use Cases for OT

The FortiGuard Operational Technology (OT) Security Service includes both application control and Intrusion Prevention Signatures (IPS) for industrial applications and protocols. The OT signatures are only updated if the FortiGate has a valid FortiGuard OT Security license. IPS and application security profiles should also be used on policies. In addition to OT Monitoring Use Cases, IT Use Cases are also applicable to OT networks.

DELIVERY

Initial Access

Use cases which detect compromised websites, applications, remote access, services or phishing attacks.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T0819	Exploit Public-Facing Applications	FortiGate | FortiSASE	IPS (OT Signatures)	✓
T0866	Exploitation of Remote Service	FortiGate | FortiSASE	IPS (OT Signatures)	✓
T0886	Remote Services	FortiGate | FortiSASE	Traffic and Application Control	✓

EXPLOITATION

Discovery

Use cases which detect when attackers are attempting to gain knowledge about system and internal networks.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T0846	Remote System Discovery	FortiGate | FortiSASE	Traffic and Application Control	✓

SOC Use Cases for OT

INSTALLATION

Lateral Movement

Use cases which detect attempts to gain unauthorized access to systems on a network from a presumably trusted source on the same network.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T0866	Exploitation of Remote Service	FortiGate | FortiSASE	IPS (OT Signatures)	✓
T0891	Hardcoded Credentials	FortiGate | FortiSASE	Traffic and Webfilter	✓
T0886	Remote Services	FortiGate | FortiSASE	Traffic and Application Control	✓

Persistence

Use cases which detect attempts to keep access to systems across restarts, changed credentials, and other interruptions that could cut off adversary access.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T0891	Hardcoded Credentials	FortiGate | FortiSASE	Traffic and Webfilter	✓

ACTIONS ON OBJECTS

Inhibit Response Function

Use cases which detect techniques that adversaries may use to alter security controls in place.

MITRE ID	Monitoring Use Case	Fabric Device	Protection Features and Log Sources	Availability
T0814	Denial of Service	FortiGate | FortiSASE	IPS DOS Policy	✓

The Fortinet Security Fabric

The Fortinet Security Fabric is at the heart of the Fortinet security strategy. It is a platform organically built around a common operating system and management framework to enable broad visibility, seamless integration and interoperability between critical security elements, and granular control and automation.

Broad

visibility and protection of the entire digital attack surface to better manage risk.

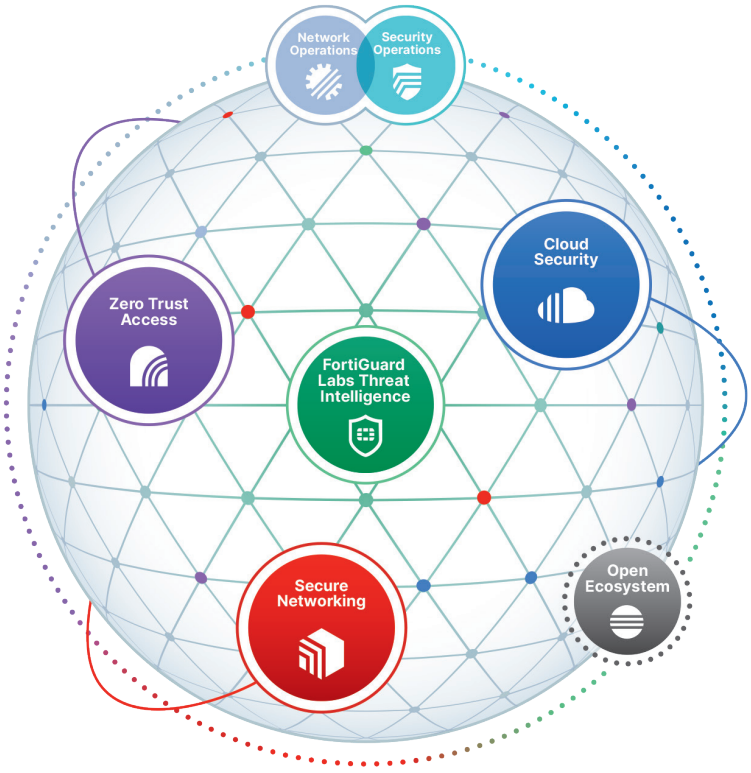
Integrated

solution that reduces management complexity and shares threat intelligence.

Automated

self-healing networks with AI-driven security for fast and efficient operations.

Learn more at www.fortinet.com/corporate/about-us



Broad Portfolio of Solutions to Protect Your Digital Attack Surface

Zero Trust Access

- ZTNA Agent
- Authentication
- MFA/Token
- SASE

Secure Networking

- Network Firewall
- SD-WAN
- SD-Branch
- Web Proxy
- Wi-Fi
- Switching
- 5G/LTE
- Network Access Control
- And More...

Cloud Security

- Cloud-Native Protection
- DevSecOps
- Cloud Firewall
- SD-WAN for Multi-cloud
- WAF
- Email Security
- ADC/GSLB
- Anti-DDoS
- CASB

Network Operations

- Network Management
- Network Orchestration
- Network Monitoring
- Cloud Management
- Digital Experienc Monitoring

Security Operations

- Endpoint (EDR XDR)
- Automation: SIEM/SOAR
- Managed SOC & MDR
- DRPS, EASM
- Deception

Open Ecosystem

- Fabric Connectors
- Fabric API
- Fabric DevOps
- Extended Ecosystem
- 490+ Open Ecosystem
- Integrations

Visit Fortinet.com for more details.

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