

F1Security UWSS



General Information

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Since

October 2012

Staff

90

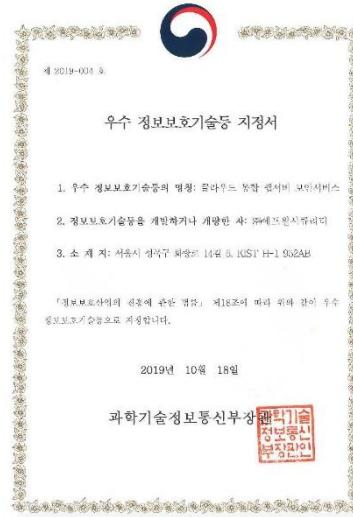
Information Security Consulting Service

- ISMS, PIMS, ISO27001 certification consulting
- Web penetration test and malware analysis
- Privacy Consulting, Survey and analysis of information security trends

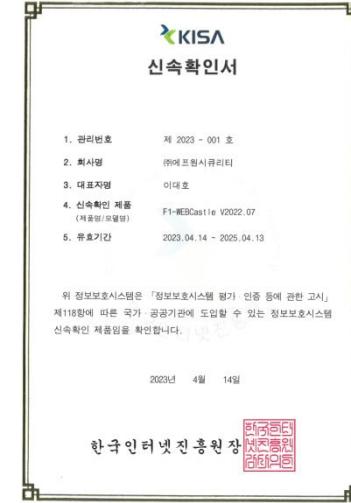
Web Security Solution / Service

- Unified Web Security Service (UWSS)
- Software Web Firewall (WEBCastle)
- WebShell detection solution (WSFinder)
- Web Malware URL Detection Solution(WMDS)

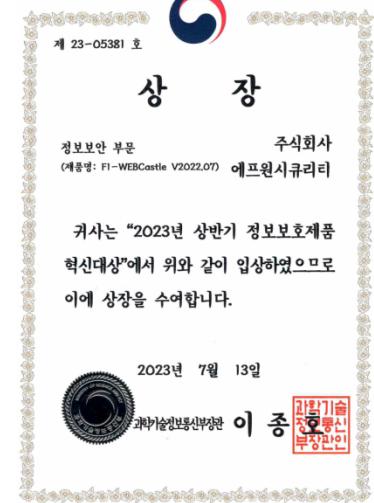
Excellent information
protection technology
design



National security
certification
confirmation



Information
Protection Product
Innovation Award



New Criteria for Web Security

UWSS enables global **cloud security services**
as an all-in-one SECaaS platform.

*SECaaS : Security as a Service



 **WSFinder**
**Malicious Web Shell
Detection and Deletion**
Anti-Web Shell



 **WebCastle**
Defend against web attacks
Web Application Firewall

 **WMDS**
**Destination Web server distributes
malicious code to proactively detect
and respond to site malware.**
Websites Malware Scanner
Web Malware Detection System

01

It's hard to find products offering comprehensive web security for increasingly complex systems.



02

Many businesses lack experts with web security expertise and experience.

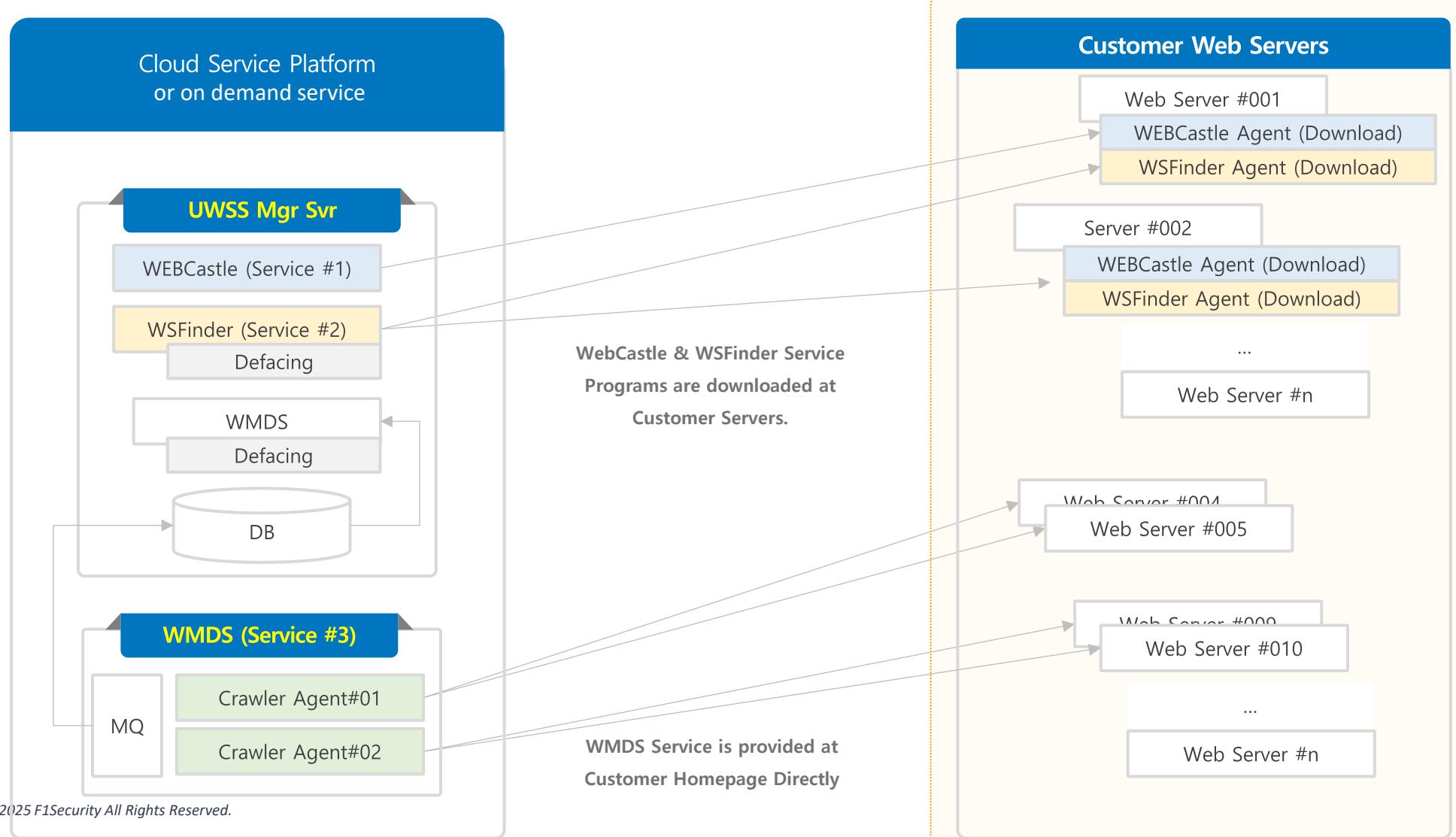


03

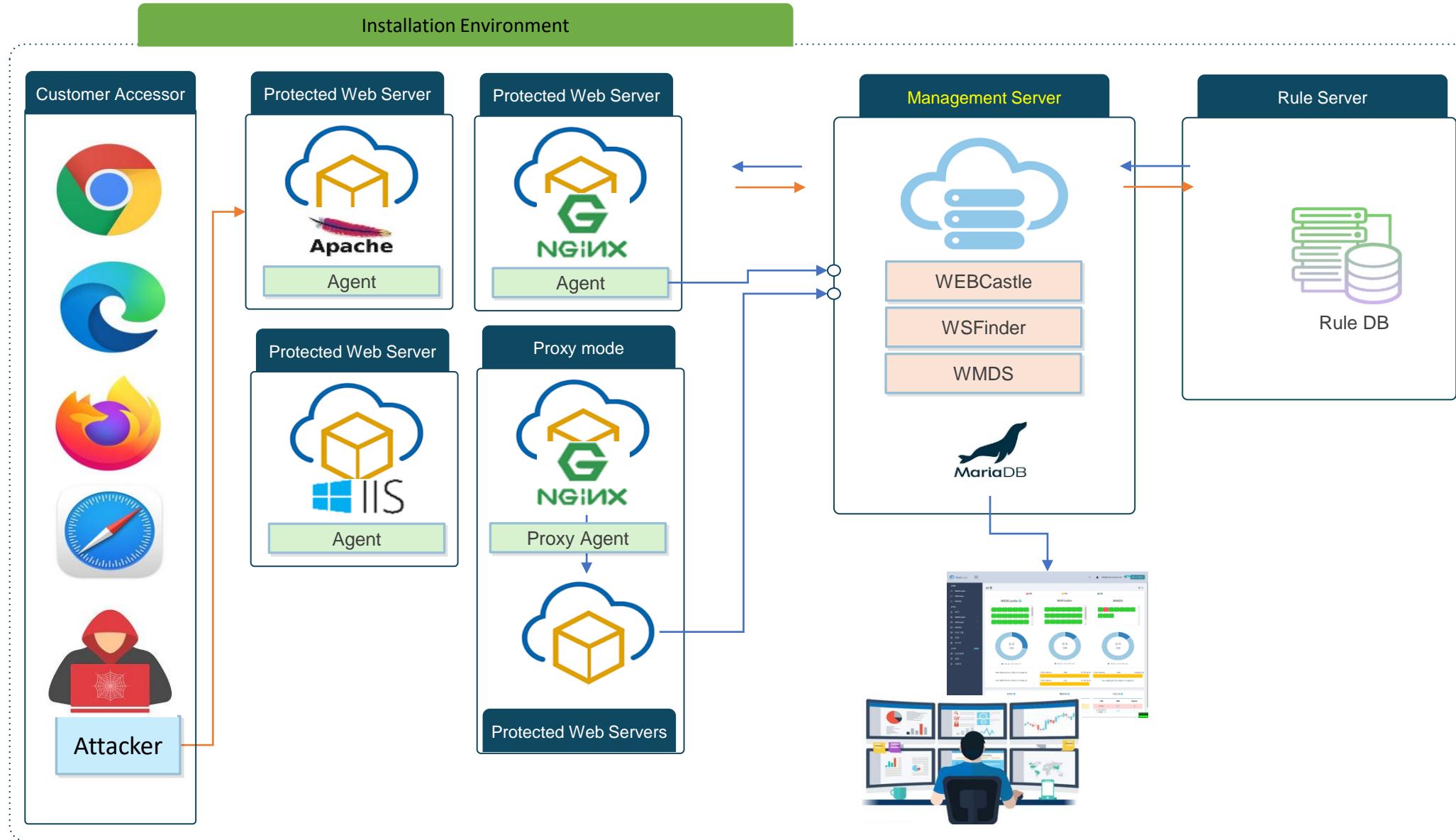
Reliable web security products can be an expensive problem.



1. UWSS is SW installation type product
2. consists of management server and agent program installed on web server
3. web firewall, web shell detection, and malware detection functions provided



1. A software-based solution optimized for cloud environments.
2. Agent-based installation on web servers, enabling immediate deployment without additional network configuration or changes.
3. Security policies can be applied and centrally managed with just agent installation, even for globally distributed web servers.
4. Integrates all essential web server security features, including web firewall, web shell detection, and malware detection, All-in-One
5. Applied as a filter on web servers, allowing decryption and security policy enforcement on encrypted web traffic (HTTPS) without requiring an additional decryption solution.
6. Security policies and patterns are processed at the server level, avoiding network load.
7. Enables easy application of individual security policies per web server.
8. Fully compatible with ModSecurity CRS, with continuous detection pattern updates.
9. Also offers a proxy-mode web firewall as an alternative to inline/gateway mode, which can be integrated and managed with the agent type.
10. After the initial one-time agent installation, updates can be performed without service interruptions.



What is WEBCastle?

 WebCastle

Web Application Firewall(WAF)

What is a Web Firewall?

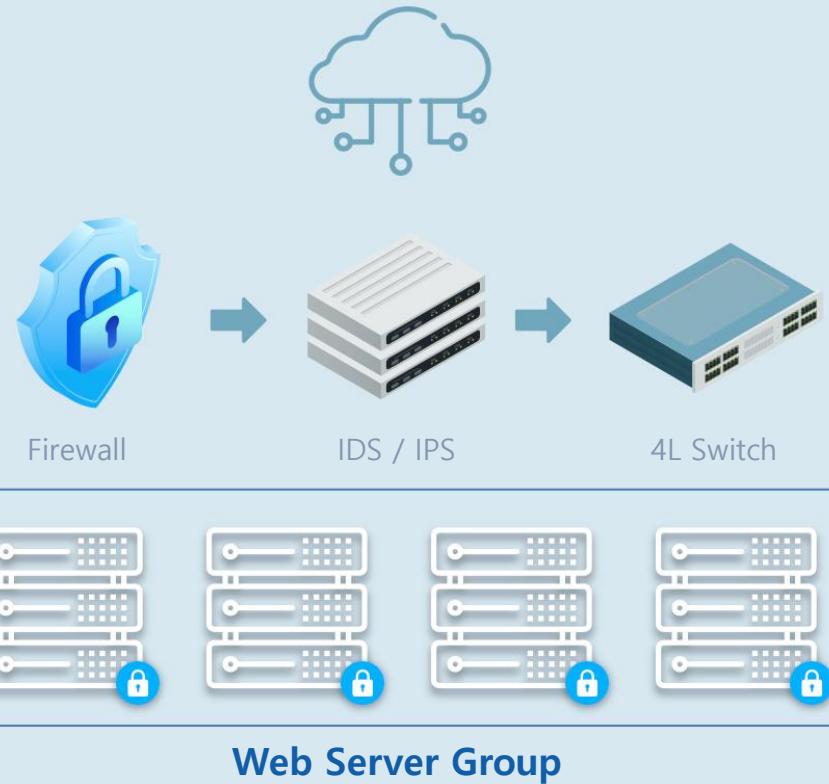
A Web Firewall specializes in web application security, unlike network firewalls. It is a security method that detects and responds to attacks on websites or servers, such as SQL Injection and XSS.

In addition to existing web attack response functions, it prevents information leakage, illegal access, and forgery.

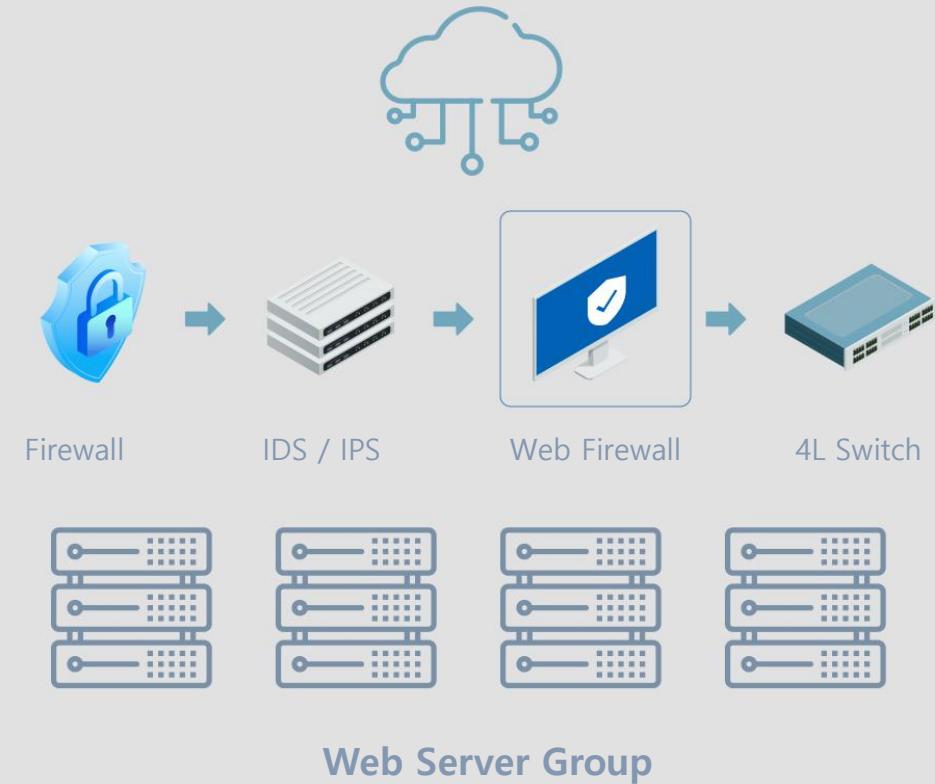
Developed specifically for web application defense, it prevents the exposure of web security vulnerabilities and blocks malicious code from being uploaded from outside. (Protecting web vulnerabilities was originally a function of a web scanner by means of secure coding.)



Software-based firewall (S/W)



Appliance-based firewall (H/W)



Firewall systems installed directly on the Web server

Faster throughput

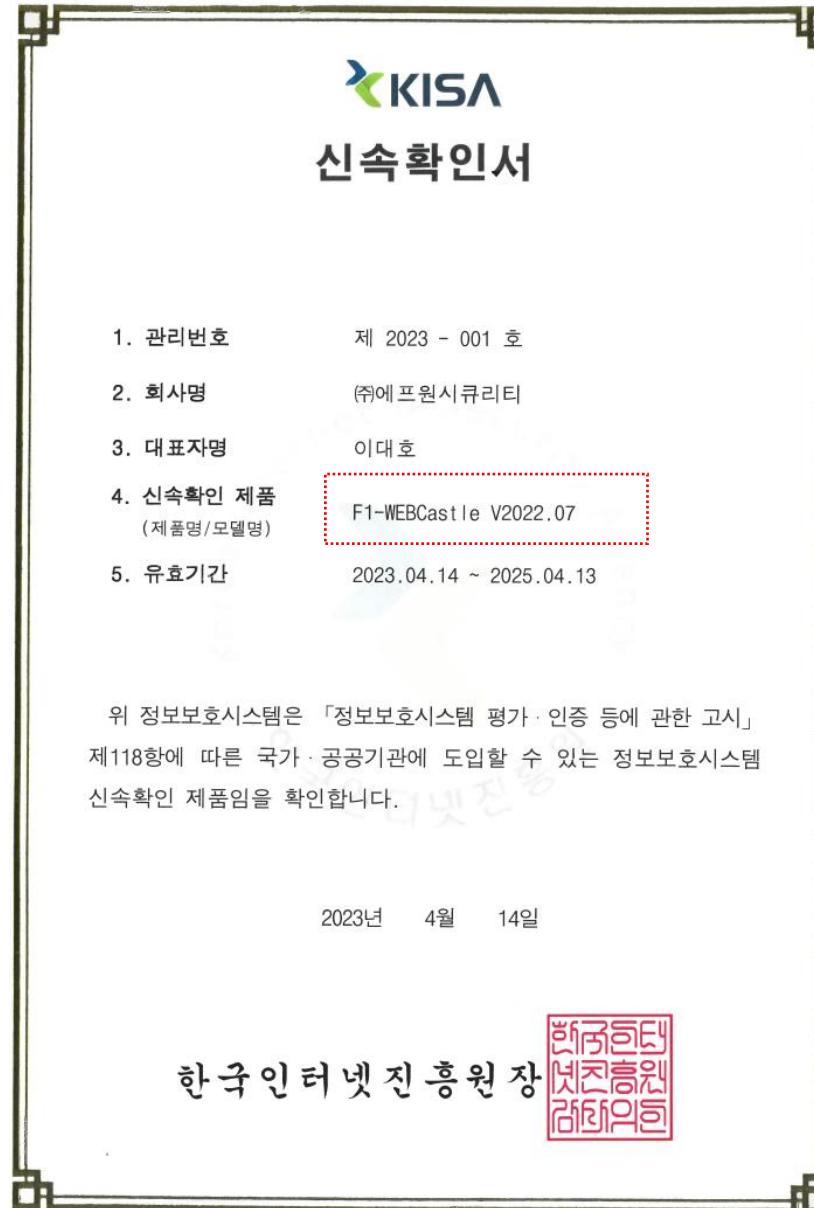
compared to H/W Appliance Firewalls.

An H/W Appliance Web Firewall slows down due to increased traffic when processing Secure Sockets Layer (SSL) data.

The S/W approach operates at the filter level within the web server for **faster SSL data processing**.

Software-driven web firewalls are excellent in environmental responsiveness, integrated control, reliability, and pricing.

National Security Certification



F1Security's **WEBCastle** product was approved by Korea Internet & Security for **CC Certification** in 2023, ensuring it meets global standards for information security products.

What is WSFinder?

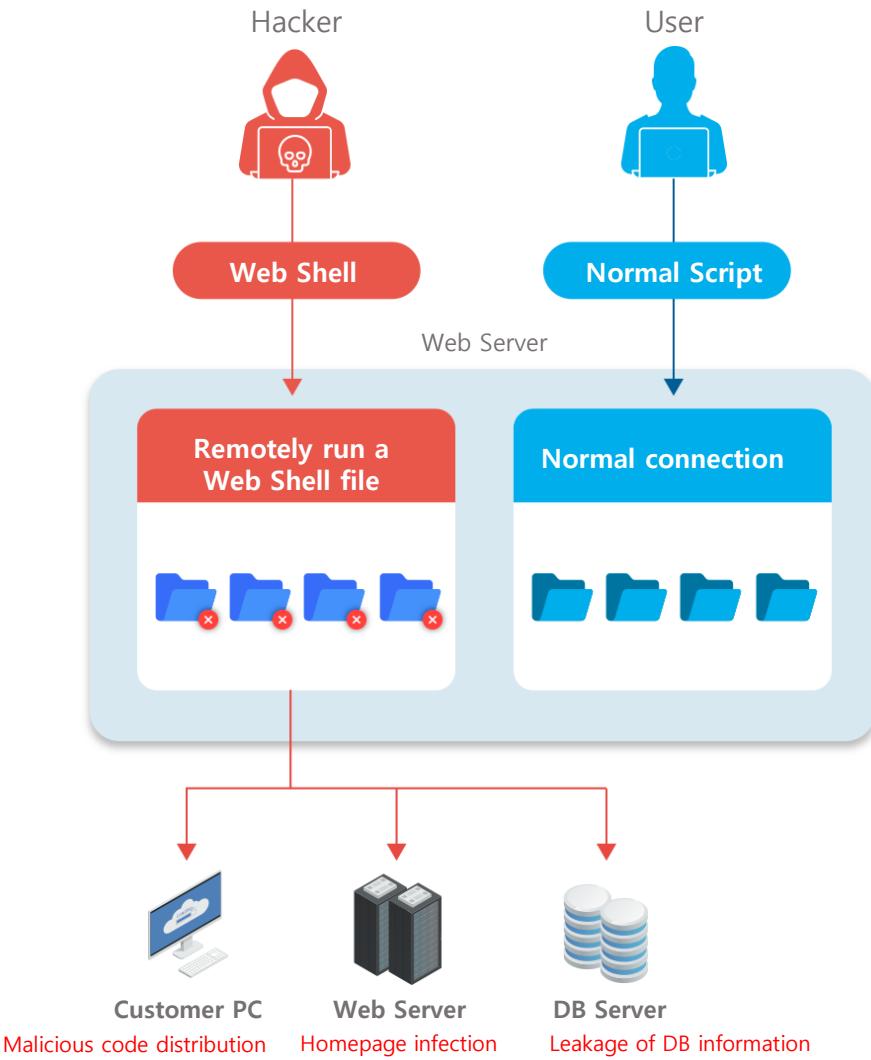
 WSFinder

What is Webshell?

Webshell is a code that can send commands to a system through an upload vulnerability.

The webshell allows attackers to command a web server remotely, using web script files (asp, php, jsp, cgi) they create.

WSFinder is a means to defend against webshell Advanced Persistent Threats (APTs).



WSFinder

WSFinder is the most widely-used APT solution for websites, based on advanced technology and expertise in the field, and developed for both effectiveness and user convenience.



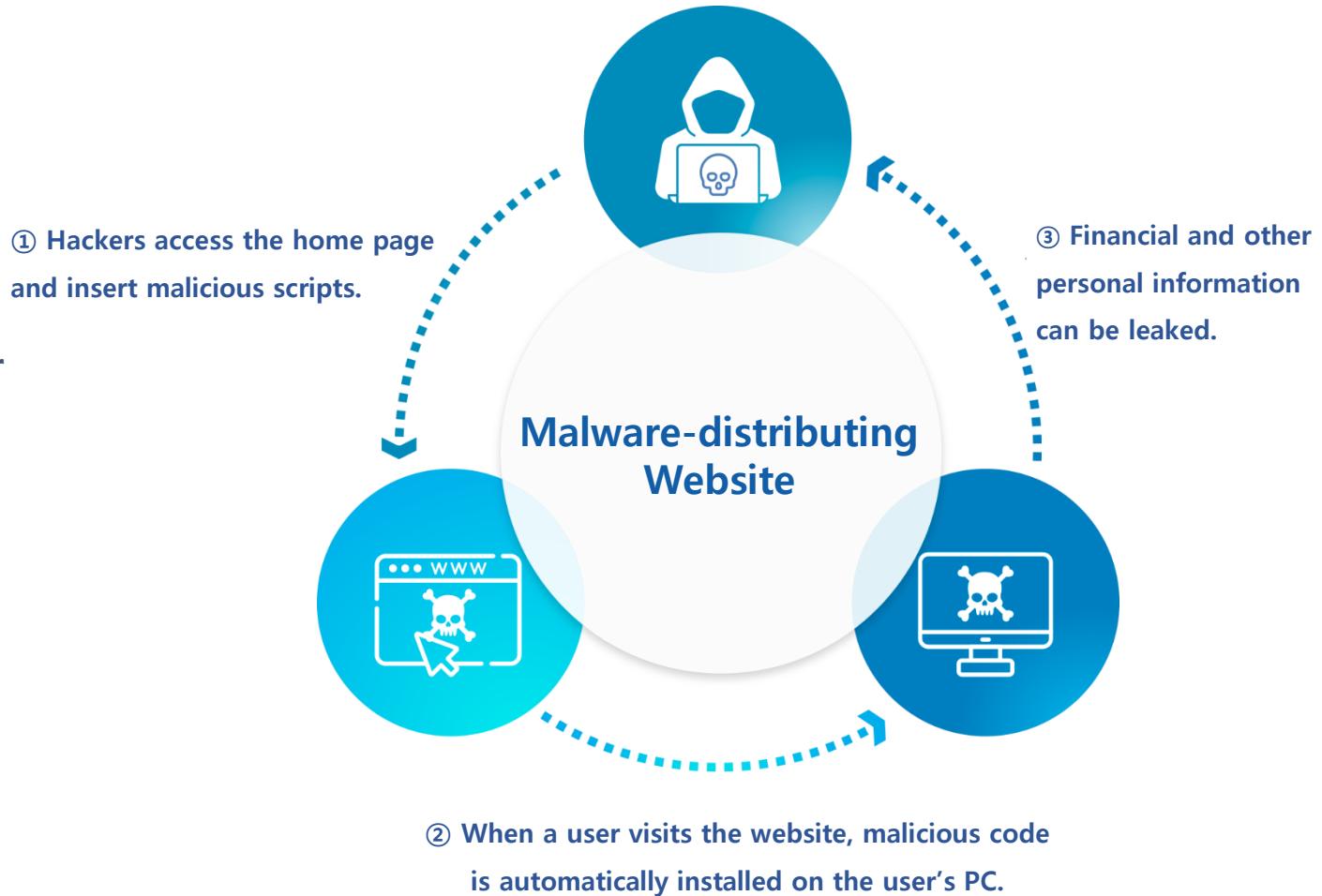
What is WMDS?

 WMDS

What is a malware distributing website?

If you access a website that distributes malware, your computer can be infected with malicious code.

Just by accessing such a website, your system can be infected with malware such as ransomware (which has recently caused problems globally).

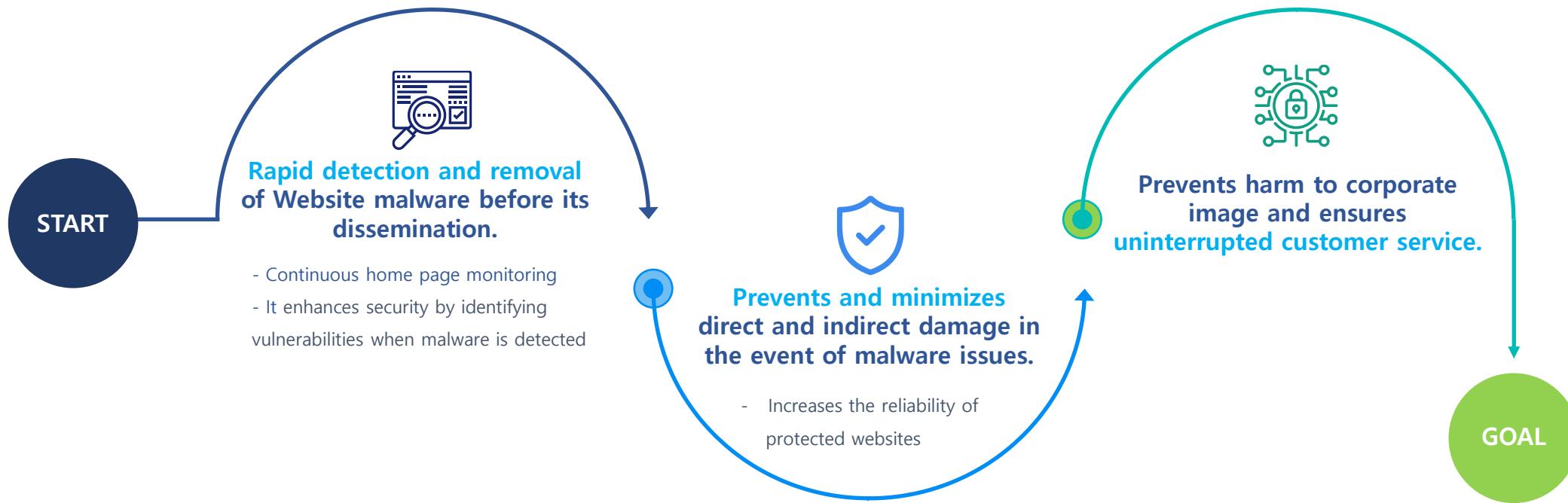


F1-WMDS Benefits

F1-WMDS Solution

Web Malware Detection System

It is a system that regularly checks websites for the presence of code that distributes malware and removes malware before it spreads. Before deployment, it notifies the system administrator or control system to take appropriate action.



Business Model & References

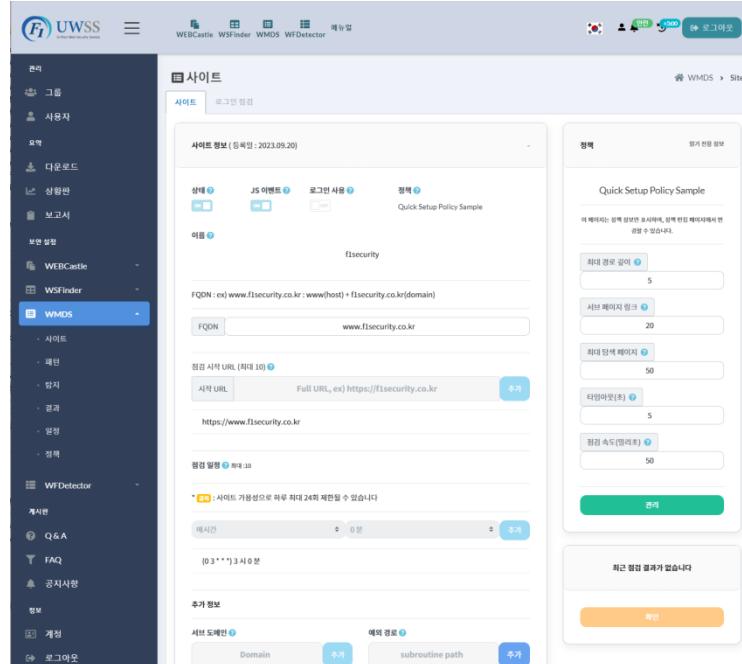


BM1. Korean Government (KISA) Project to Support SMBs.



1. F1-WMDS

Provide 4 million homepage Malware infection diagnosis

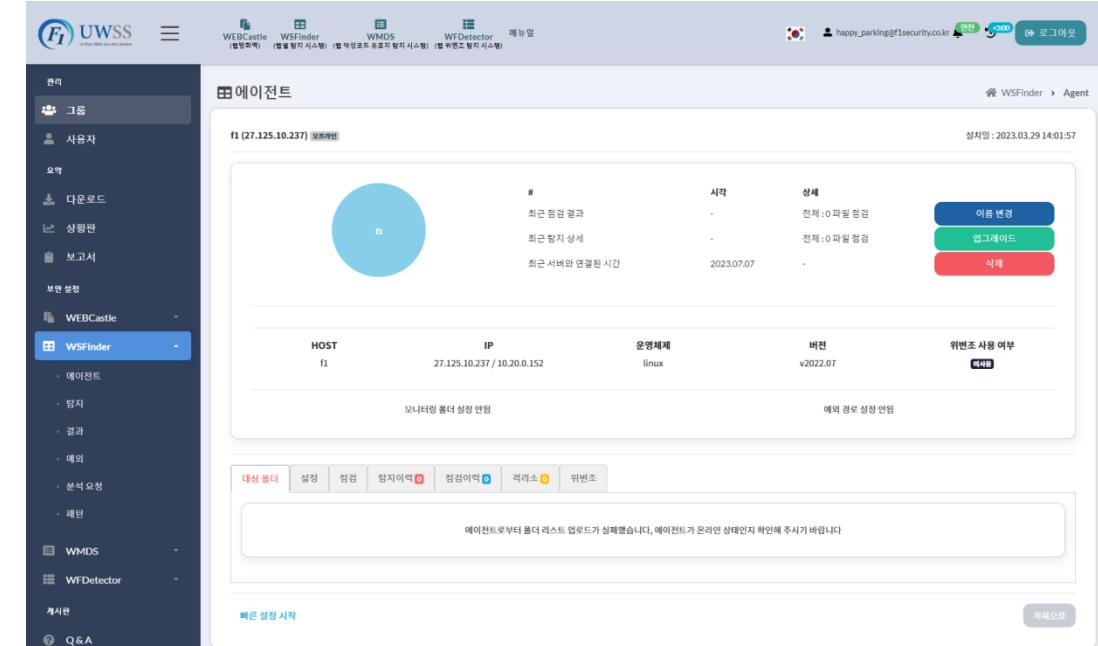


The screenshot shows the F1-WMDS interface for site analysis. It includes a sidebar with navigation links like '사이트', '로그인 정보', '사용자', '정책', ' WSFinder', 'WMDS', 'WFDetector', 'FAQ', '공지사항', '정보', and '로그아웃'. The main panel displays '사이트 정보' (Site Information) for 'f1security' with a timestamp of '2023.09.20'. It shows '상태' (Status) with icons for JS 이벤트 (JS Events), 로그인 사용 (Login Usage), and 정책 (Policy). A 'Quick Setup Policy Sample' section is present. Below this, there are fields for 'FQDN' (www.f1security.co.kr) and '사이트 URL' (Full URL: https://f1security.co.kr). A '정책 설정' (Policy Configuration) section includes fields for '최대 경로 길이' (Max Path Length: 5), '서버 페이지 링크' (Server Page Link: 20), '최대 담백 페이지' (Max Bait Page: 50), '타입아웃(초)' (Typeout (sec): 5), and '최대 속도(밀리초)' (Max Speed (ms): 50). A '검색' (Search) button is at the bottom. A note at the bottom left says '사이트 기능으로 하루 최대 24회 제한될 수 있습니다' (Site function limit: up to 24 times a day).

- F1Security has been performing KISA project, covering all 4 million korean web site every year since 2017
- They use F1-WMDS to diagnose
- 24 X 365 Monitoring & Analysis

2. F1 - WebCastle & WSFinder

Provide web security tool to 5,000 Korean SMEs Annually



The screenshot shows the F1-WSFinder interface for monitoring an agent. It includes a sidebar with navigation links like '관리', '그룹', '사용자', '정책', ' WSFinder', 'WMDS', 'WFDetector', 'FAQ', '공지사항', '정보', and '로그아웃'. The main panel displays 'f1 (27.125.10.237) [로제팅]' with a timestamp of '설치일: 2023.03.29 14:01:57'. It shows '최근 점검 결과' (Recent Check Results) with '전체: 0 파일 검증' (Total: 0 file checked), '최근 탐지 상세' (Recent Detection Details) with '전체: 0 파일 검증' (Total: 0 file checked), and '최근 서비스 연결된 시간' (Recent Service Connection Time: 2023.07.07). Below this, there is a table with columns 'HOST', 'IP', '운영체제', '버전', and '위변조 사용 여부'. The table shows one entry: 'f1' with IP '27.125.10.237 / 10.20.0.152', 'linux' as the operating system, 'v2022.07' as the version, and '위변조 사용 여부' (Man-in-the-middle usage: 확인) checked. A note at the bottom left says '모니터링 풀더 설정 연동' (Monitoring folder setting synchronization) and '예외 경로 설정 안됨' (Exception path setting not set). A '대상 풀디' (Target Pool) section includes checkboxes for '설립' (Establish), '정검' (Regular check), '탐지이력' (Detection history), '검침이력' (Inspection history), '각리스' (Geolocation), and '위변조' (Man-in-the-middle). A note at the bottom right says '예이전트로부터 풀더 리스트 업로드가 실패했습니다. 예이전트가 온라인 상태인지 확인해 주시기 바랍니다' (Failed to upload folder list from the agent. Please check if the agent is online). A '빠른 설정 시작' (Quick setup start) button is at the bottom right.

- F1Security has been performing KISA project , covering 5,000 korean company every year since 2017
- They use F1 Srvice : Web Firewall(F1-WAF) & Webshell detection (F1-WSFinder)



F1Security's Role

- Product & Service Supply
- Installation & Tech. Assistance
- Product Defect Repair

Products & Services

- Software Solution
- API Service
- SDK package
- SaaS

Types of Products & Services

- UWSS
- WEBCastle (WAF)
- WSFinder (Webshell detection solution)
- WMDS (Website malware detection)
- Homepage defacing detection

F1Security's Partners



Provide Secure Service for Partners

- E-Commerce
- Logistics Distribution
- Mobile Services
- ERP

Partners' Customers



SME

SMALL & MEDIUM ENTERPRISES



Thank You

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