



AhnLab Managed Security Service for MS Azure

Jan. 2019

COMPANY AT A GLANCE

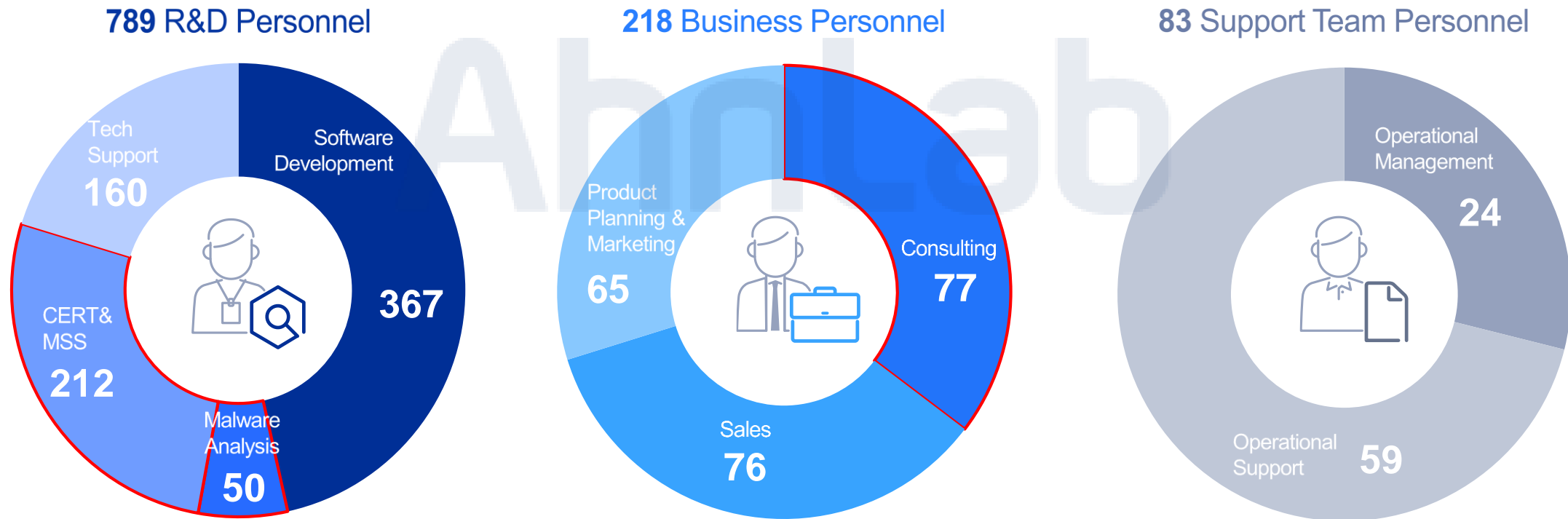
Name	AhnLab, Inc.
Foundation	March 15, 1995
Headquarters	South Korea
Revenue	USD 147.6 Mil. (2017)
KOSDAQ-listed	Sep. 13, 2001
CEO	Chijung Kwon
Employees	1090
Global Operations	China, Japan
Business Portfolio	Endpoint security for enterprises and consumers Network appliance solutions Web security solutions Transaction security solutions Managed Security Services



Employees

1,090 Total Employees

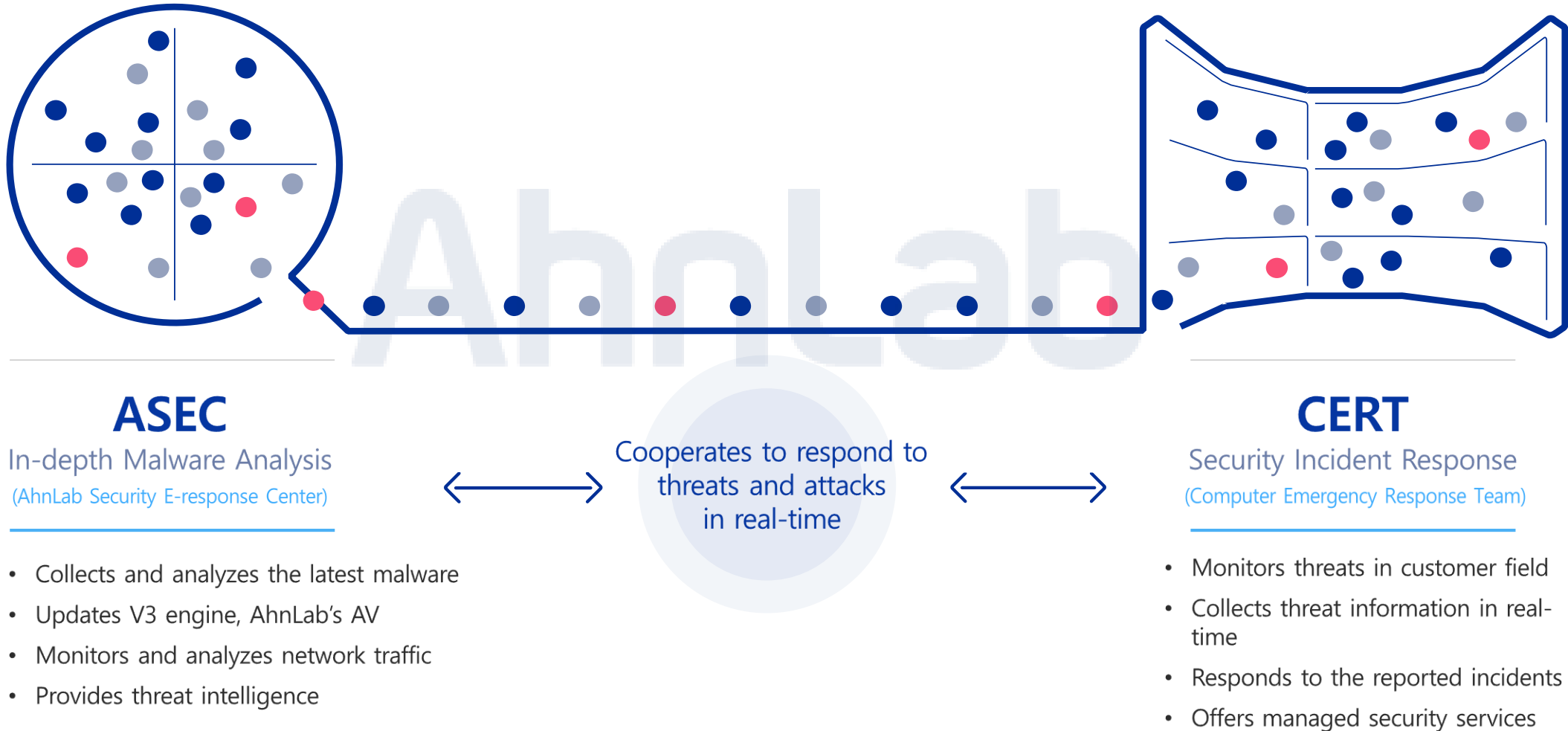
Over 70% of all employees are dedicated to research and development



* As of August, 2018

24/7 Threat Monitoring and Response

through in-house malware analysis team and computer emergency response team (CERT)



Shared Responsibility for Cloud Security

There are certain area belongs to customers in the Security Responsibility defined by Azure. It should be prepared and covered by yourself. How do you make it work?

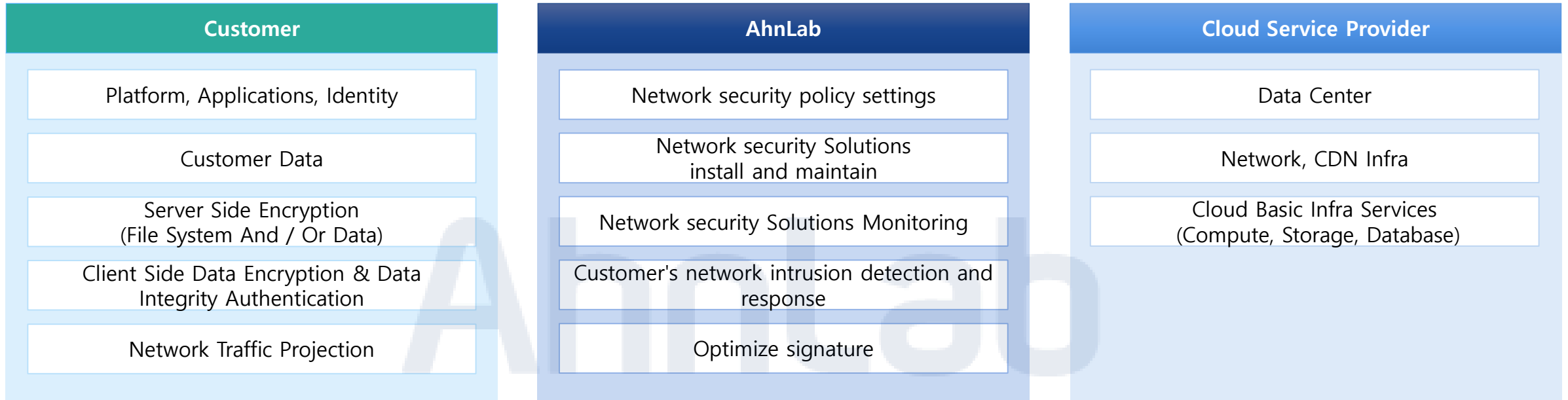
On-Premises	IaaS	PaaS	SaaS
Users	Users	Users	Users
Data	Data	Data	Data
Applications	Applications	Applications	Applications
Operating System	Operating System	Operating System	Operating System
Network	Network	Network	Network
Hypervisor	Hypervisor	Hypervisor	Hypervisor
Infrastructure	Infrastructure	Infrastructure	Infrastructure
Physical	Physical	Physical	Physical

Customer Responsibility

Cloud Provider Responsibility

Managed Security Area

Based on security responsibility model Azure offered, AhnLab defined managed security area to provide qualified services to our customers.

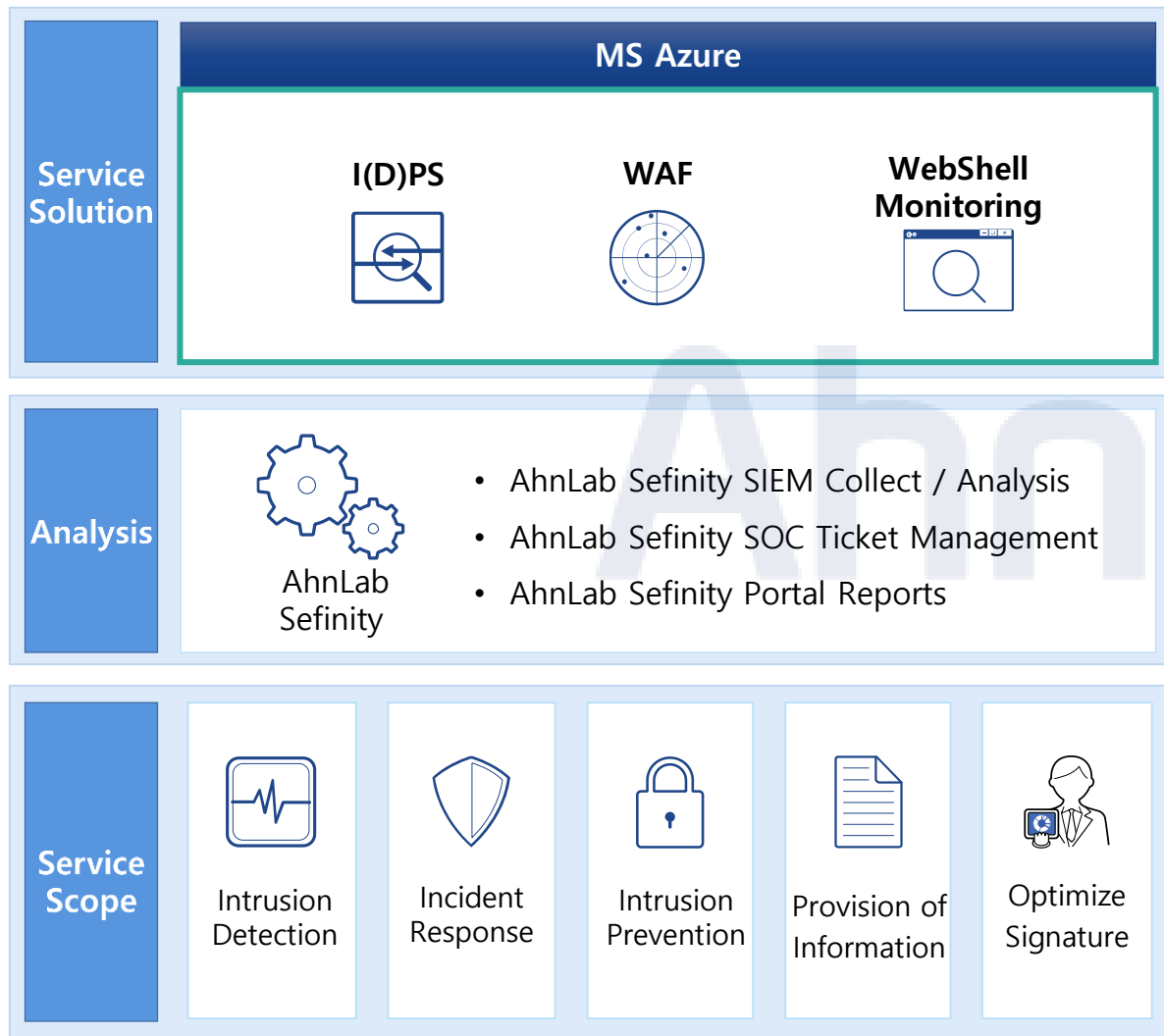


Detection Coverage

Next Generation Firewall (Available in 1Q, 2019)	IDS / IPS	WAF	Web Shell
L2~L7 Layer	The overall detection network (L3~L7 Layer)	Optimized detecting Web attacks (only L7 Layer)	Specialized services in detecting Web Shell

AhnLab MSS Model & Scope

In order to detect cyber attacks possibly lead to serious incidents, AhnLab MSS observe security threats and incidents real-time basis.

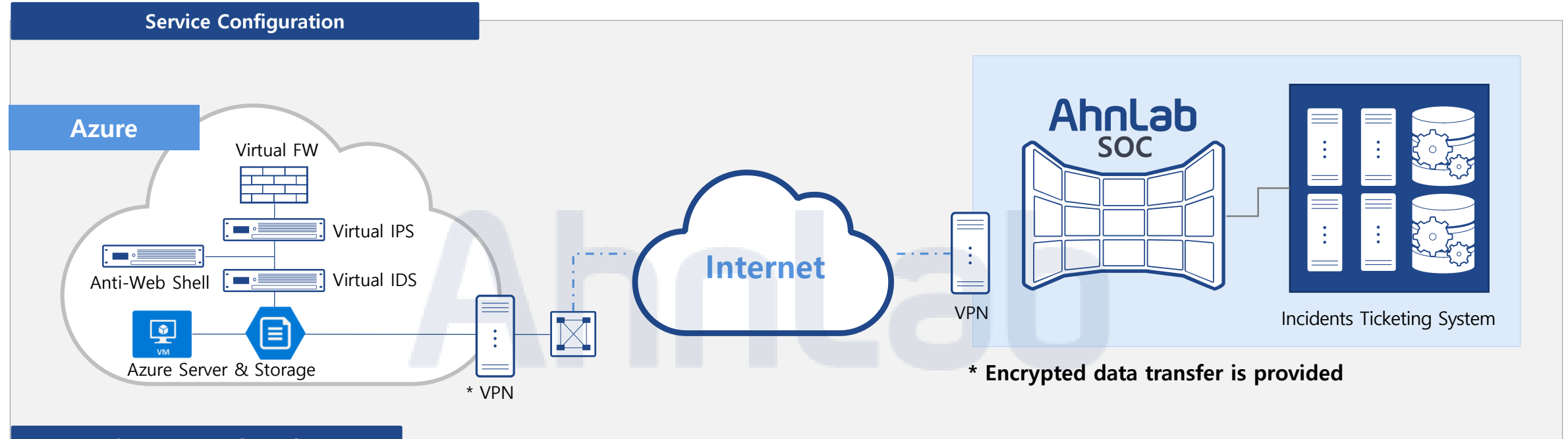


Service Scope	Service details
Intrusion Detection	<ul style="list-style-type: none">- 24X365 Security Control- Event Monitoring/Analysis
Incident Response	<ul style="list-style-type: none">- 24X365 Event monitoring- Analyzing & Responding Event- Responding Security Issues
Intrusion Prevention	<ul style="list-style-type: none">- Various threat information- Terms of outsiders open port, check
Provision of Information	<ul style="list-style-type: none">- Regular Security Trend & Incident Cases- Security Contents, Zero Day vulnerabilities etc.
Optimize Signature	<ul style="list-style-type: none">- Intrusion prevention which are tailored precisely to customer systems

General Configuration of Managed Security Services for Cloud

AhnLab log collector on the Cloud collects data from solutions(virtual FW, IPS, and Anti-Webshell) and transfers to AhnLab Sefinity SIEM, which provides real-time data for intelligence analytics.

Service Configuration

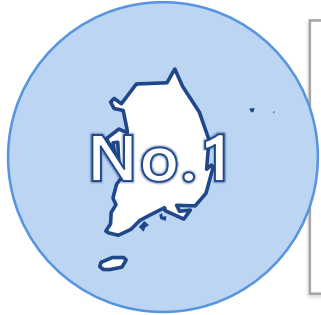


Major Supported Vendors



AhnLab
Security Operation Center





First-Mover In Korea,

- AhnLab launched MSS for the Cloud as a first mover in Korea (Oct 2015)
- Providing MSS with Media, Games, Contents, Manufacturing, more than 20 Various Industry Customers
- **Deliver MSS to Global Enterprises with 300 Cloud computing servers**



Cloud Native MSS *Experts*

- **AS for a Cloud native MSSP, AhnLab has a self-made response system against a variety of attacks**
- AhnLab has a specialty for monitoring threats and incidents on the public Cloud
- By embracing Third-Party Solutions on the Cloud, **AhnLab has multiple detection scenarios and own methodology**

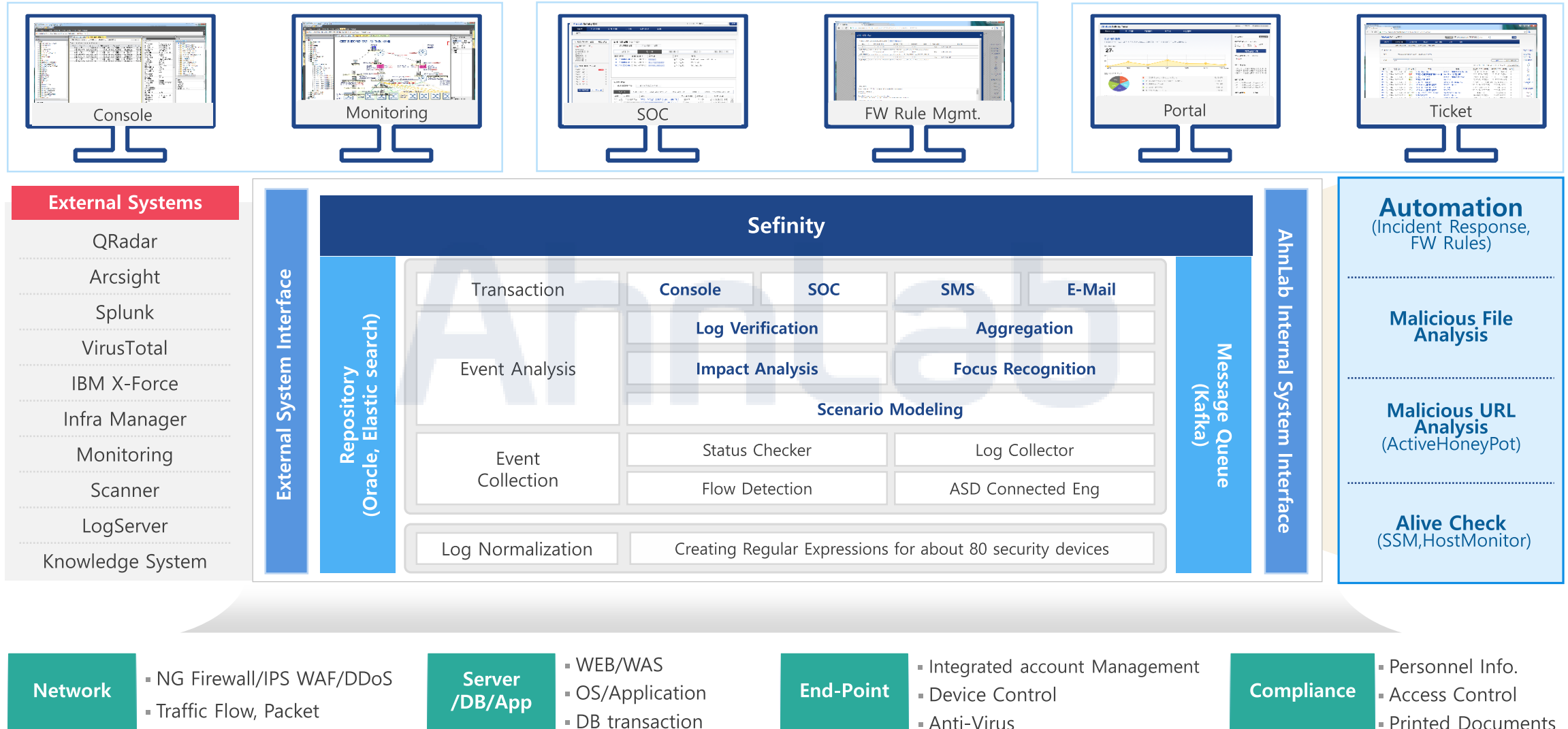


Dedicated R&D for *Analytics and MSS Platform*

- AhnLab A-CERT provides **premium services** like penetration test, malware analysis, forensic, incident response, etc)
- **Develop Machine Learning/AI-based Analytics** for intelligent automatic response (Minimize Human Errors)

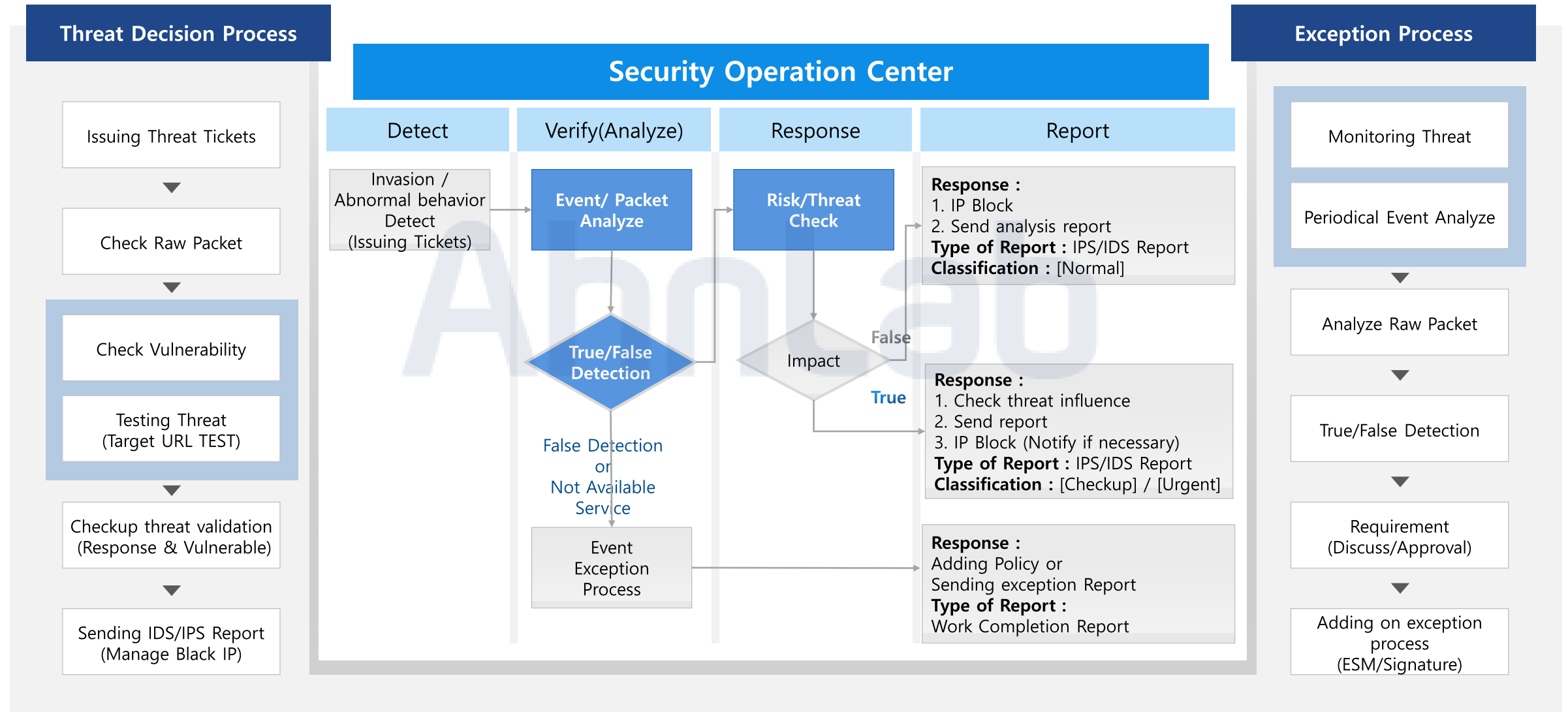
AhnLab MSS Platform, Sefinity

AhnLab Managed Security Service delivered by Sefinity SIEM • SOC • Portal • Threat Intelligence.



Threat Response Process

Decide risk level and analyze threats on the knowledge-based system. We are enhancing our service with AI-based correlation analytics.



Threat Response Process

AhnLab developed Ticket Management System is developing with automation and orchestration technology.

AhnLab Sefinity SOC

Logout DASHBOARD [Help] Customer Search

Dashboard Ticket Mgt Customer Management Report Knowledge Base Operation Configuration

Summary Security devices log receiving status

My Tickets/Reports 정태윤

Ticket in progress 0

Analysis Event 0

Security Policy 0

System Failure 0

Intrusion Incidents 0

Customer Service 0

Asset Management 0

Customer Monitoring 0

Scheduled report

10/24 Tue TODAY 0

10/25 Wed 0

10/26 Thu 0

10/27 Fri 0

10/28 Sat 0

10/29 Sun 0

10/30 Mon 0

My Ticket Box

My Report List

Tickets (Last 24 hours)

Tickets by Process Tickets by Ticket Type

New (0) Acknowledged (64) Processing (4) Reviewing (2) Closed (6028)

Type	Issue Date	Status	Customer	Subject	System
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Reports (Last 24 hours)

Status of sending report Status of scheduled report

Regular (16) Intrusion Response (0) Intrusion Incident Analysis (0) Technical Support (1) System Failure (0) Vulnerability Analysis/Assessment (0)

Type	Customer	Subject	Status	Reporter	Issue Date
Periodica			Send promptly		2017-10-24 09:14:46
Periodica			Send promptly		2017-10-24 09:14:39
Periodica			Send promptly		2017-10-24 09:11:11
Periodica			Send promptly		2017-10-24 09:10:17
Periodica			Send promptly		2017-10-24 09:04:33
Periodica			Send promptly		2017-10-24 09:01:18

AhnLab Sefinity Portal

MSS Business Division C 02-31-722-7777

Threat Report

AhnLab CERT is sending you a threat report as below.

Threat Summary

Customer	ADPLATFORM	Risk Level	General
Scenario	DS-XSS	Vulnerabilities	No vulnerability
Ticket No.	R17101117403803155	Firewall Response	Not Blocked
Issued Time	2017-10-11 17:41:06		

Detail Info

	IP	Port	Country	Proxy IP	Detection Time
Src IP Info			KOR	10.44.21.173	2017-10-11 17:39:39
Dst IP Info	10.44.21.67	8080		52.11.99.129	

Security Solution

(us-west-2)_AhnLab_AWS_DSM_S_247.164)

Event Information

XSS attack is detected from the domestic IP range

Attack Syntax

<script>alert(1)</script>.html

CERT Respond & Recommendation

Availability of Vulnerabilities

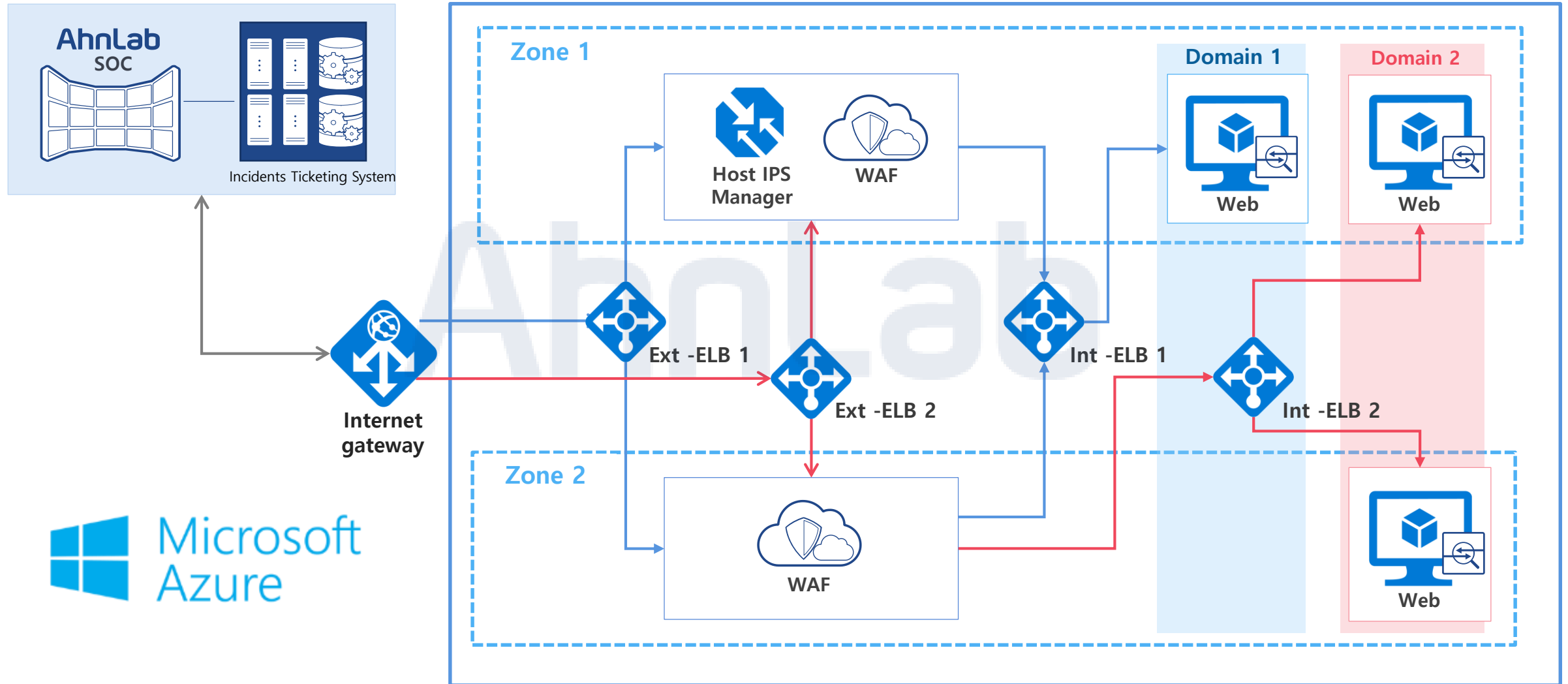
Customer Confirmation & Recommendations

It is recommended to block the IP address

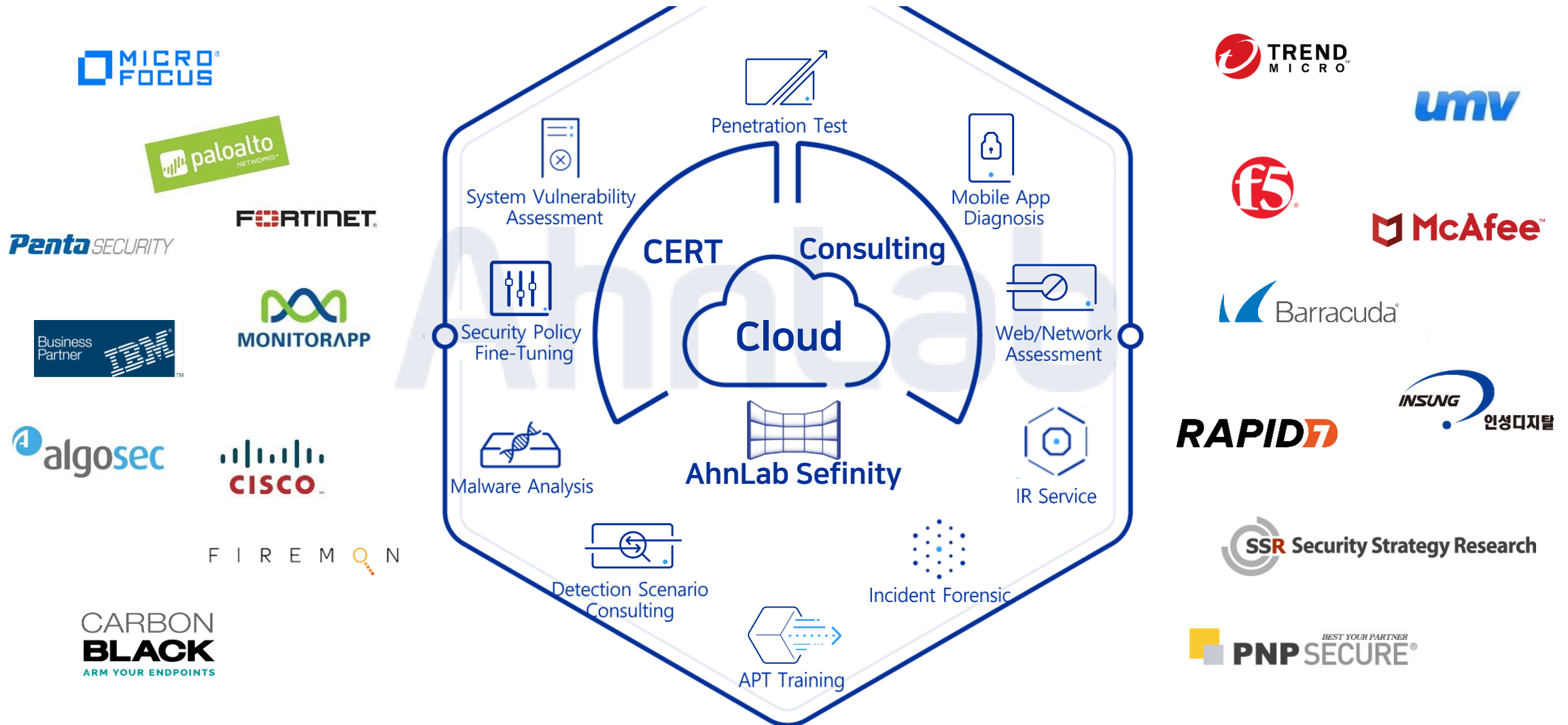
Security System Event

Solution	Event Name	Count	Action
DeepSecurity Manager	Generic Cross Site Scripting(XSS) Prevention	1	Accept

Example



AhnLab MSS Eco-System



Thank you.

More Security More Freedom