



Комплексная платформа обеспечения защиты и доставки приложений и сервисов от F5 Networks

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Краткая информация о компании F5

Основана: **1996**

IPO: Июнь **1999**

Сотрудники: более **3,520**

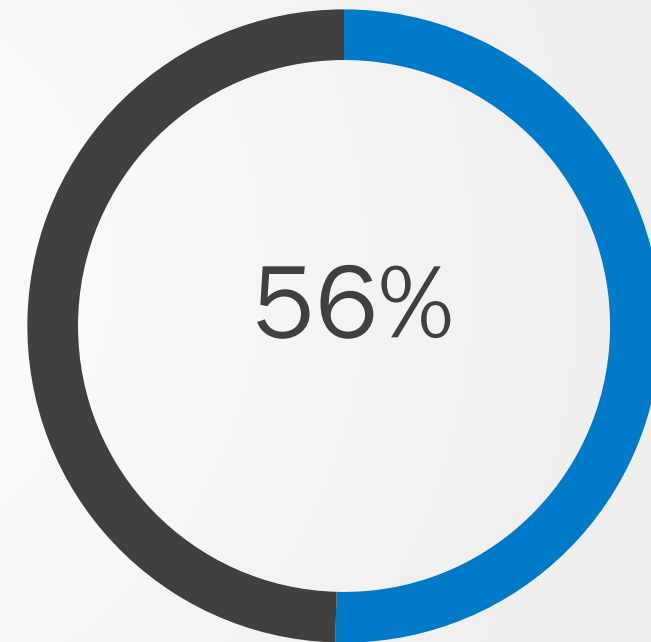
Головной офис: **Seattle, Wa**

Президент и CEO: [François Locoh-Donou](#)

Биржевой символ: **FFIV (NASDAQ)**

Офисы по всему миру: **32 страны**

Доля рынка «Контролеров
Доставки Приложений»



F5 Networks Positioned as a Leader in 2014 Gartner Magic Quadrant for Application Delivery Controllers

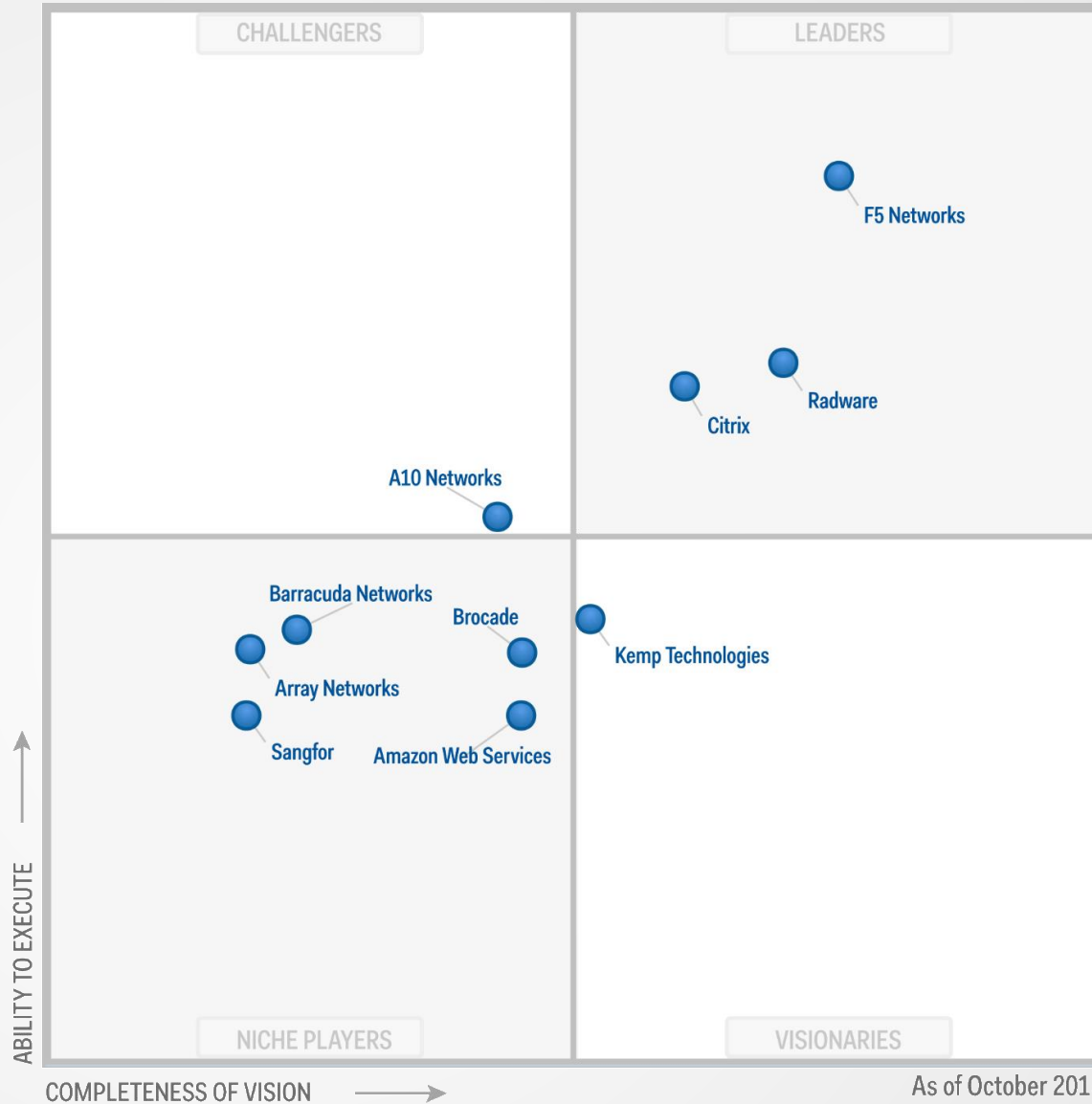
F5 is highest in execution and furthest in vision within the Leaders Quadrant.

Figure 1. Magic Quadrant for Application Delivery Controllers



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And in 2015 ...



As of October 2015

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And in 2016 ...

And last 10 Years also



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Состав Интеллектуальной Платформы F5 Networks

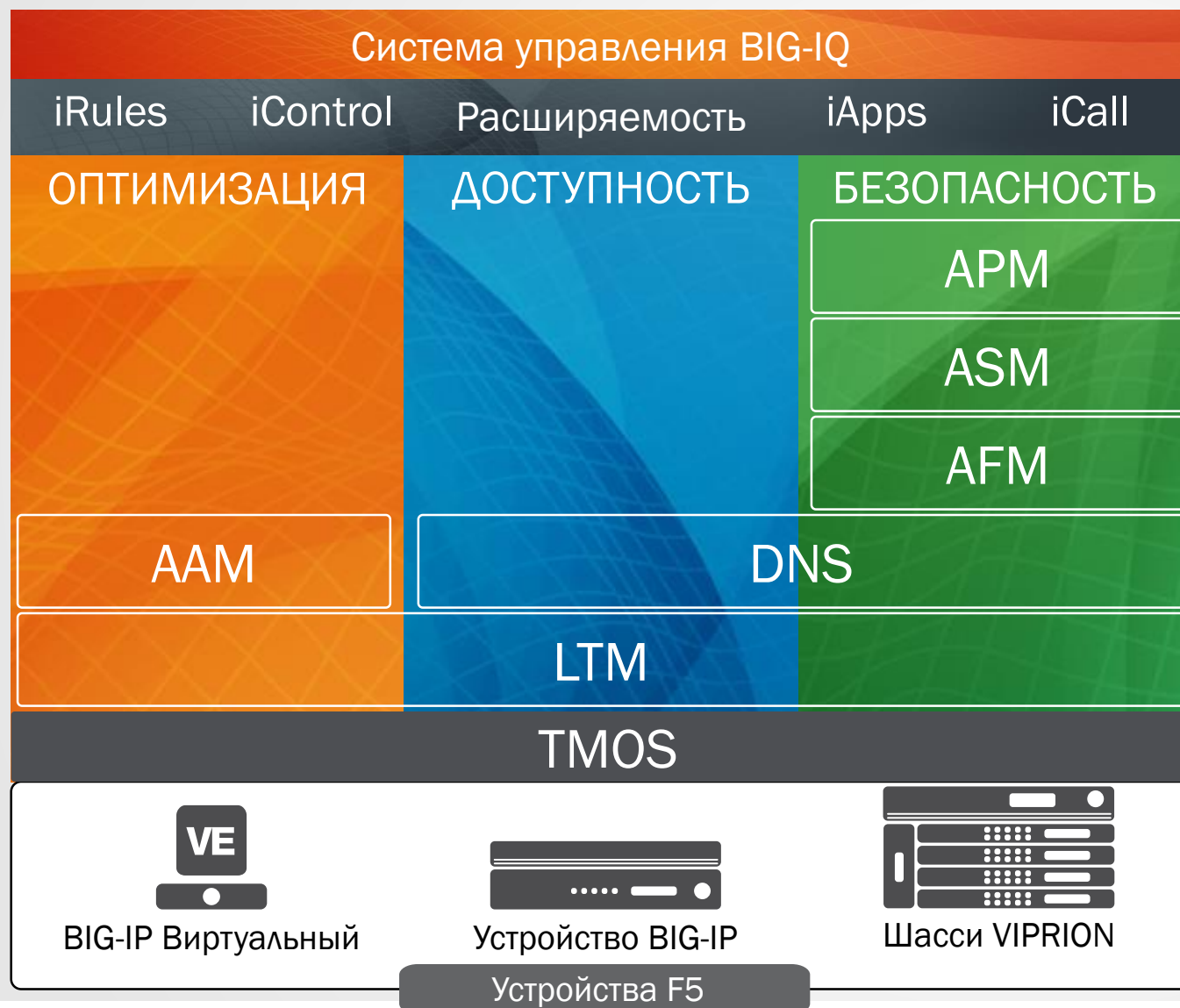
Непревзойденная Программируемость: Встроенная изменяемость расширяемой и программируемой архитектуры (iRules, iApps и iControl)

Функциональные Возможности: Предоставляют Динамическую Доставку приложений от ЦОДа до устройства

Масштабируемость и гибкость Приложения: Созданы для обеспечения изменяющихся требований производительности



Программные модули F5



- **LTM** – Балансировка и управление трафиком внутри ЦОД
- **DNS** – Управление нагрузкой и резервирование для распределенных систем
- **AAM** – Ускорение работы приложений
- **AFM** – Расширенный межсетевой экран
- **ASM** – Прикладной экран WAF
- **APM** – управление доступом и удаленное подключение

Application Solutions Setup



ICSA-certified
firewall



Access
control



Application
delivery controller



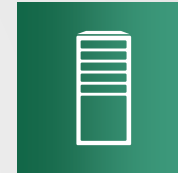
DDoS
mitigation



Web Application
Firewall



SSL
inspection



DNS
security

Products

Advanced Firewall Manager

- Stateful full-proxy firewall
- Логирование и отчетность
- TCP, SSL и HTTP прокси
- Защита от DDoS сетевого и сеансового уровня

Access Policy Manager

- Контроль доступа пользователей
- Упрощенная аутентификация, интеграция в инфраструктуру
- Защита пользовательских устройств, безопасный удаленный доступ
- Высокая производительность и масштабируемость

Local Traffic Manager

- Ведущий контроллер доставки приложений
- Производительность приложений
- Мониторинг доступности приложений

Application security manager

- Ведущий web application firewall
- Совместимость со стандартом PCI
- Virtual patching for vulnerabilities
- DDoS защита HTTP
- Защита IP

DNS

- Полномасштабное решение DNS защиты
- Глобальная балансировка нагрузки
- Signed DNS responses
- Выгрузка шифрования DNS запросов



**WHY F5 FOR
SECURITY?**



Why?

F5 SECURITY VISION



RISK BASED

CONTEXT AWARE

10010101

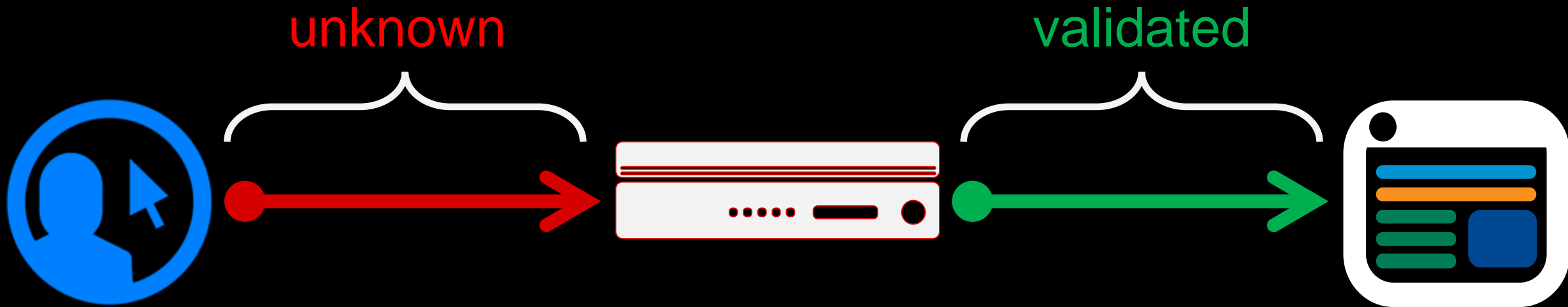


EVERY APP



How?

FAST, SECURE PROXY



UP TO 1.2 TBPS

What?

SAFE AND DEDICATED

unknown
user

ACCESS

validated
user



VALIDATED USER AND PROTOCOL BEHAVIOUR

What?

ENDPOINT

AWARENESS

unknown
devices

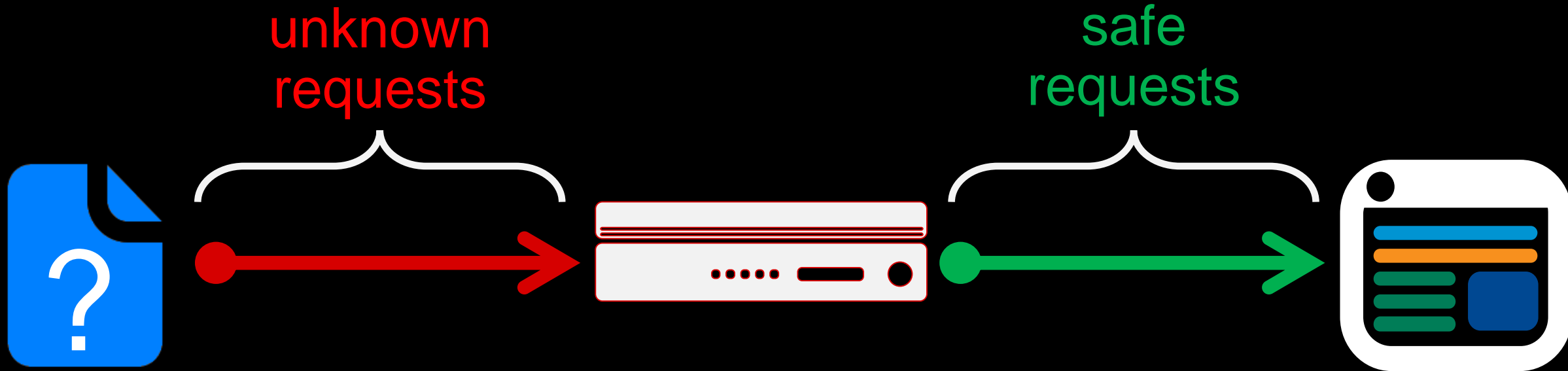
safe
devices



IDENTIFY AND BLOCK MISBEHAVING ENDPOINTS

What?

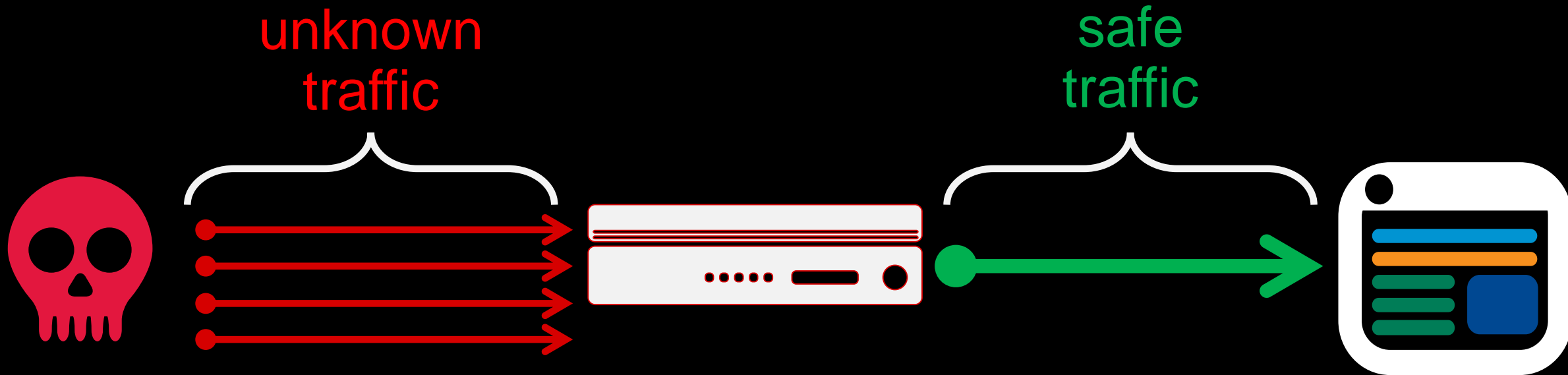
PROTOCOL AWARE



SECURITY UP TO LAYER 7

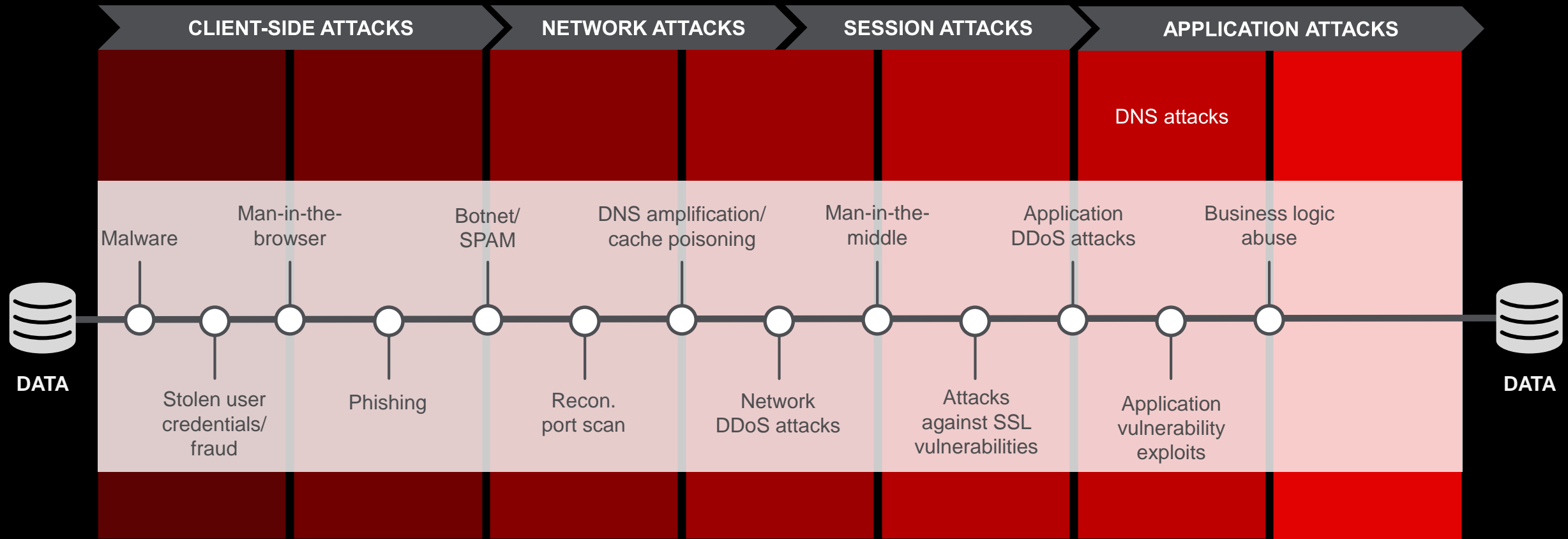
What?

INCREASED AVAILABILITY



ADAPTIVE LEARNING OF GOOD TRAFFIC

Today's Threat Landscape

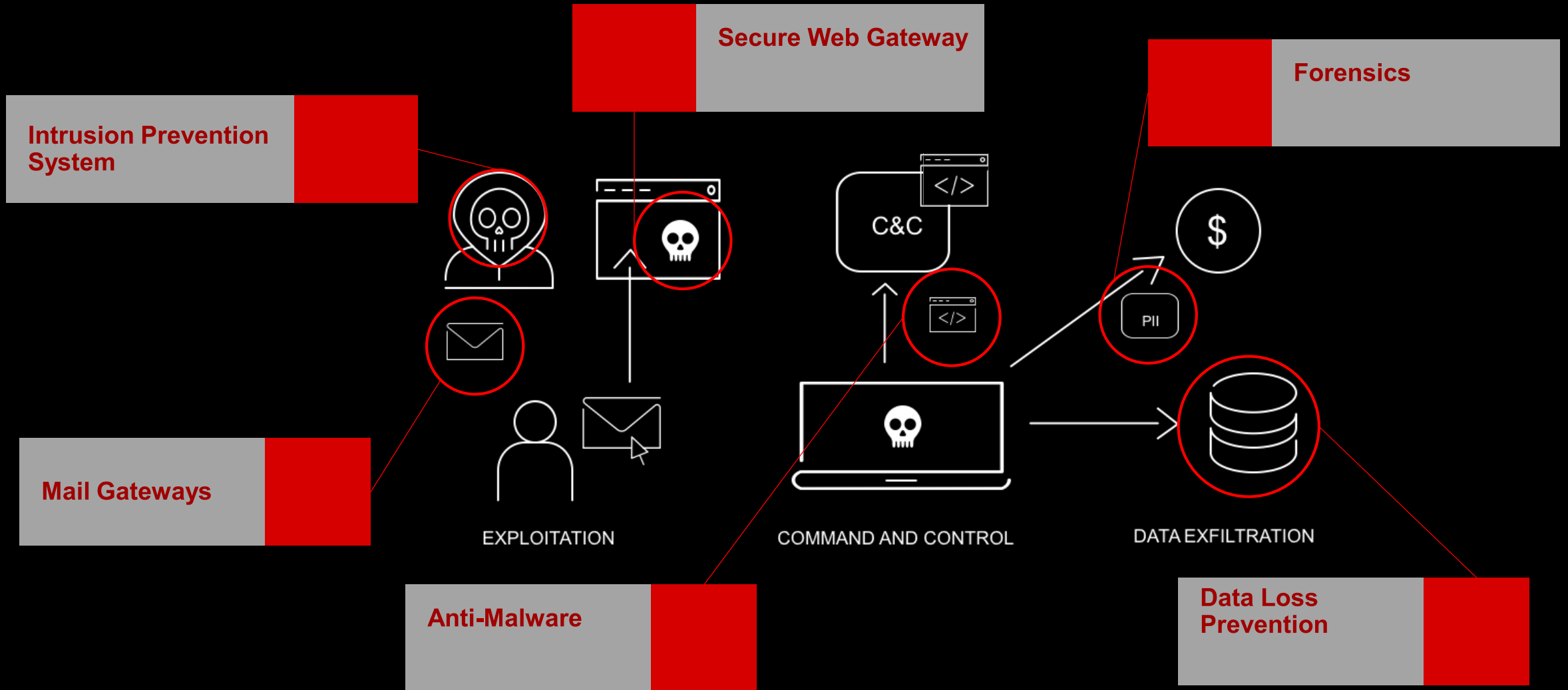


OWASP Top 10

SSL Orchestrator



Typical Network Security



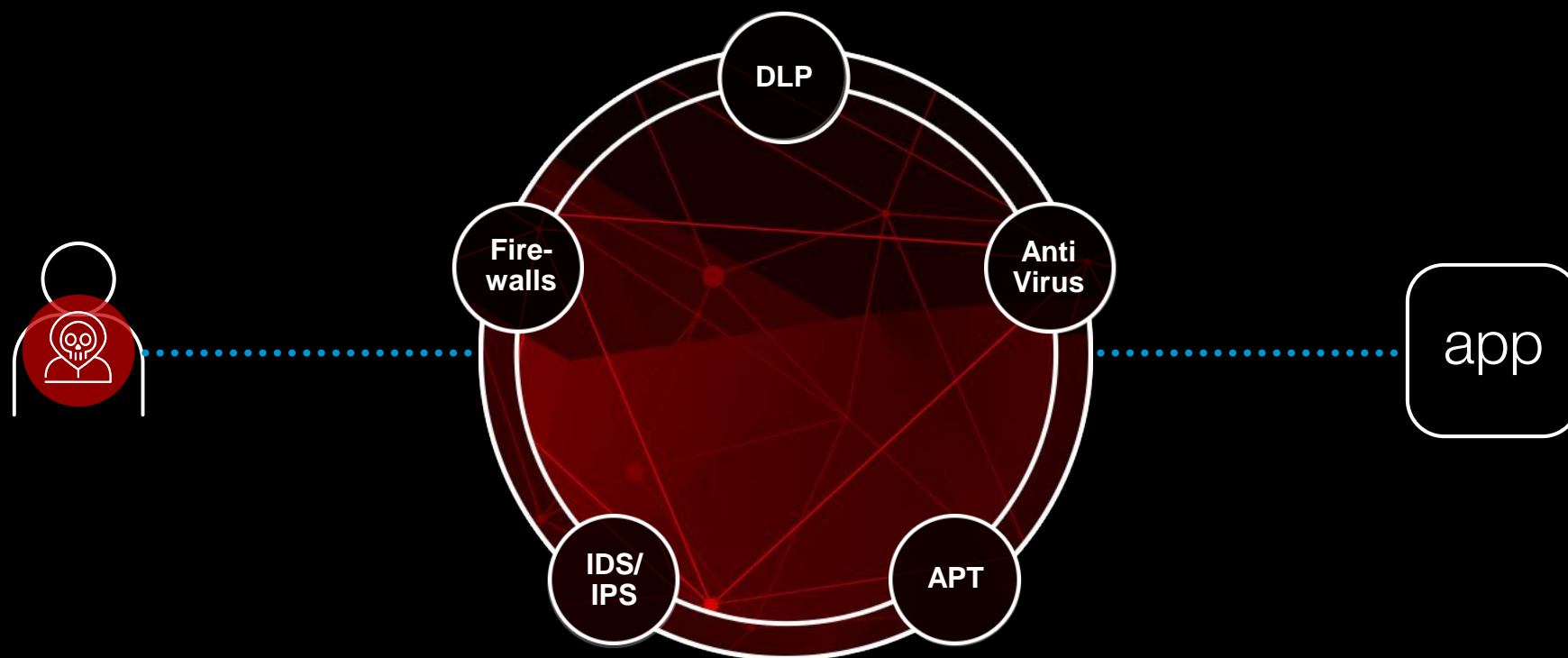
**SSL is growing,
and that presents
a challenge for
our customers.**



Privacy and security concerns are driving encrypted traffic growth, which is expected to represent 70 percent of all Internet traffic this year.

Encryption Creates Blind Spots in Your Network

making the security tools you trust and rely on less effective



Encryption Creates Blind Spots in Your Network

making the security tools you trust and rely on less effective



Significant performance loss with SSL across vendors

79%

**Next-Gen Firewall
Performance Impact**

75%

**Next-Gen IPS
Performance Impact**

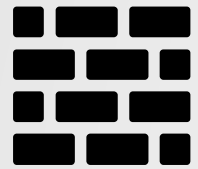
100%

**Threat Defense
No SSL Support**

Privacy and security concerns are driving encrypted traffic growth, which is expected to represent 70 percent of all Internet traffic this year.

Herculon SSL Orchestrator

Provides decryption and encryption of SSL traffic, enabling traffic inspection



Next-Gen
Firewall



Next-Gen
IPS



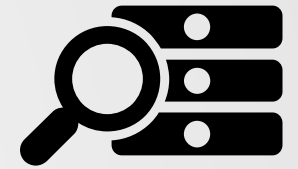
Malware
Protection



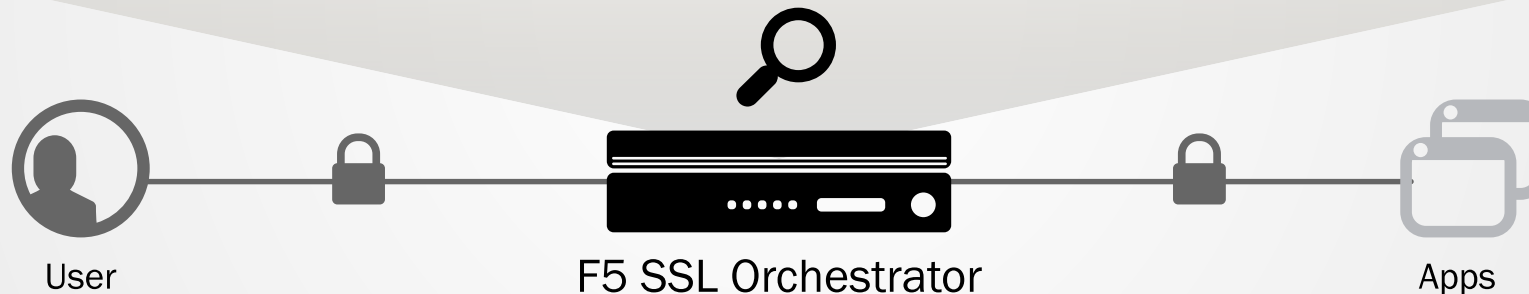
Secure Web
Gateway



UX
Monitoring

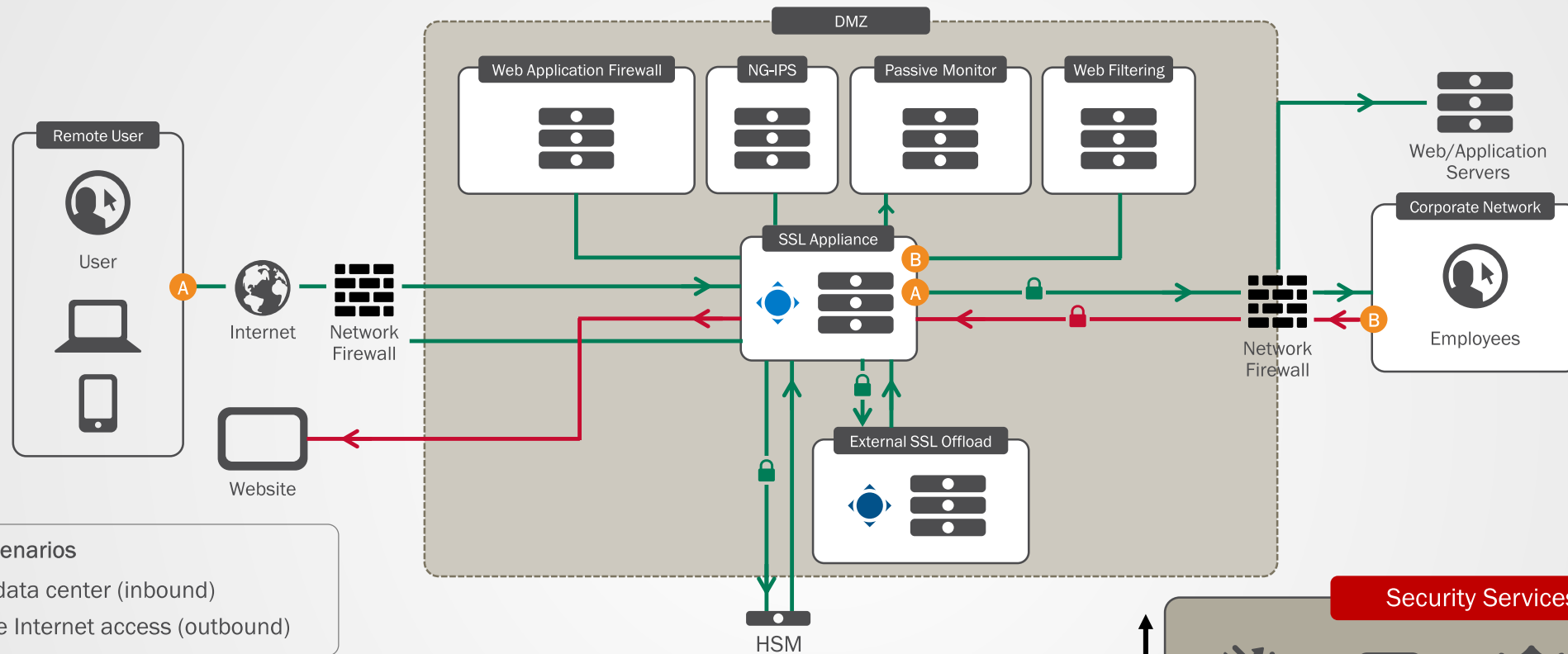


Other...



Eliminate the security blind spot

The SSL Visibility Vision



Customer Scenarios

- A** Internet data center (inbound)
- B** Corporate Internet access (outbound)

Strategic Point of Control

SSL Visibility

Cipher Diversity

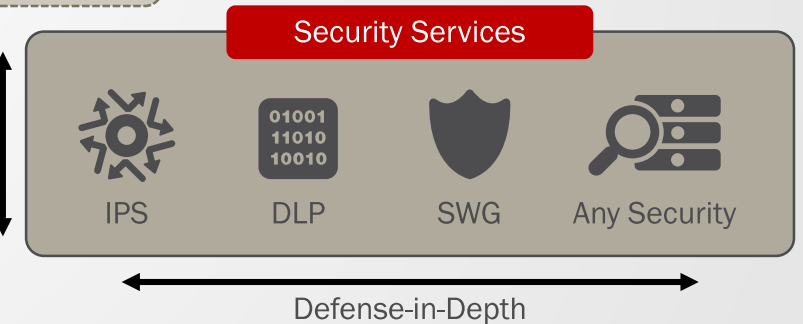
Secure Architecture

Performance

Key Protection

Corporate Internet Access, SSL Inspection, HSM, SSL Offload, NG-IPS, and Passive Monitoring

Scale-Out
for Growth



Policy-Based Dynamic Service Chaining

- Allows determination of decryption, OR selection of services based on connection context
- Policy based, dynamic

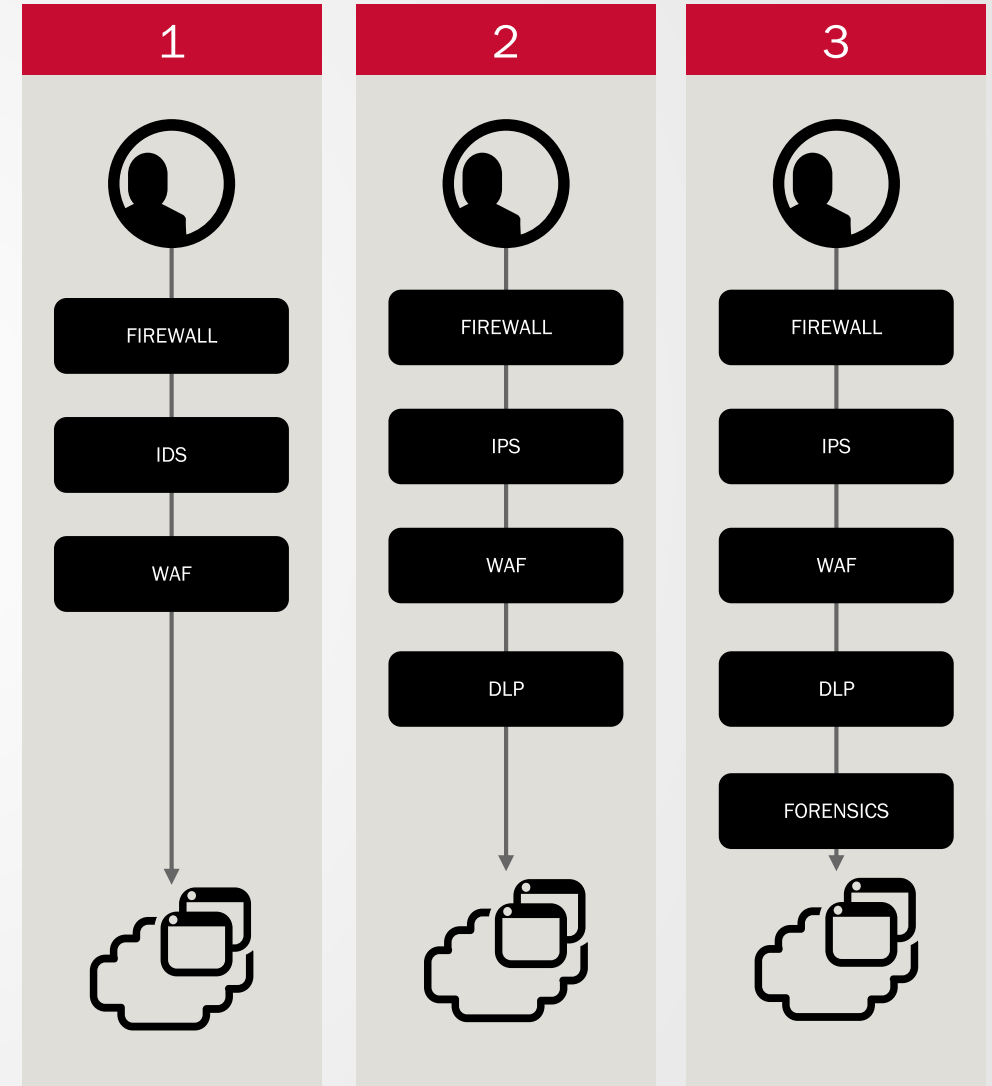
Classification Engine

- Source IP
- Destination IP
- IP intelligence
- IP geolocation
- Domain name
- URL filtering category
- Destination port
- Protocol

“We field over 12 different security services, and we struggle with using all of them effectively.”

“We (currently) chain the security services statically leading to over provisioning and investment overruns.”

“We want to pre-filter traffic going to (our firewall) so we make more effective use of them.”

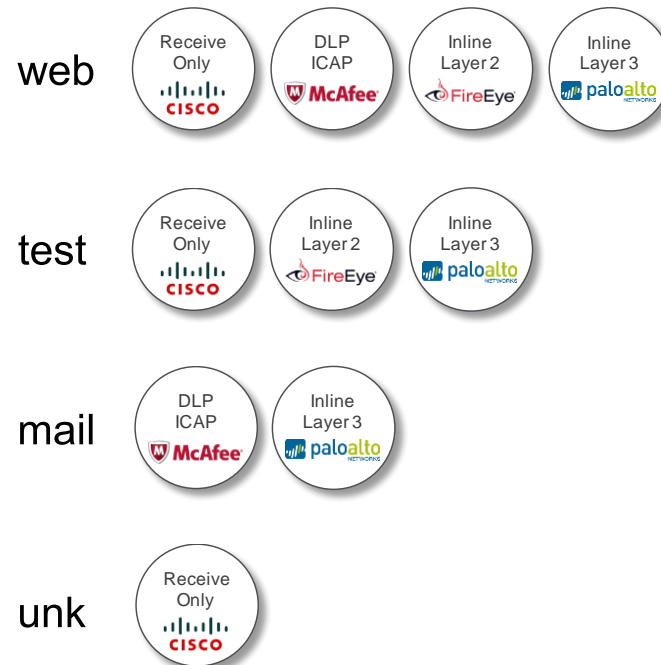


Security service chaining

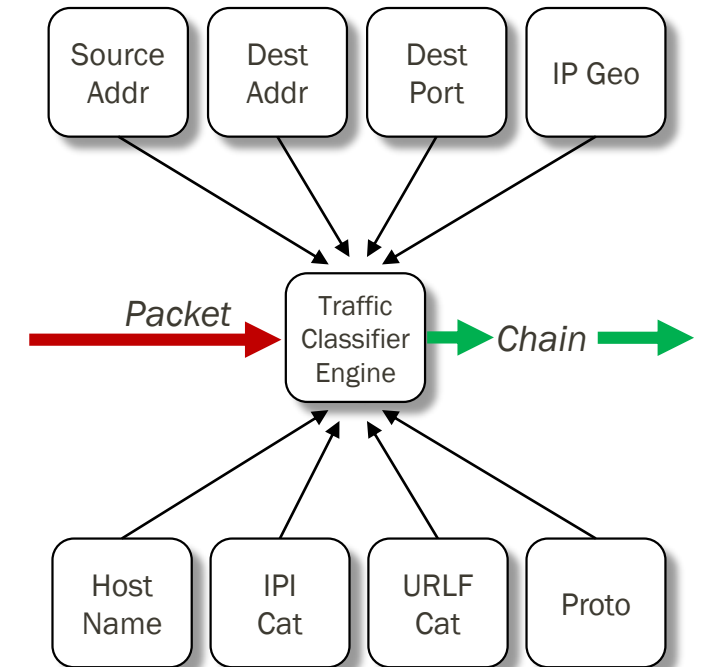
Create services



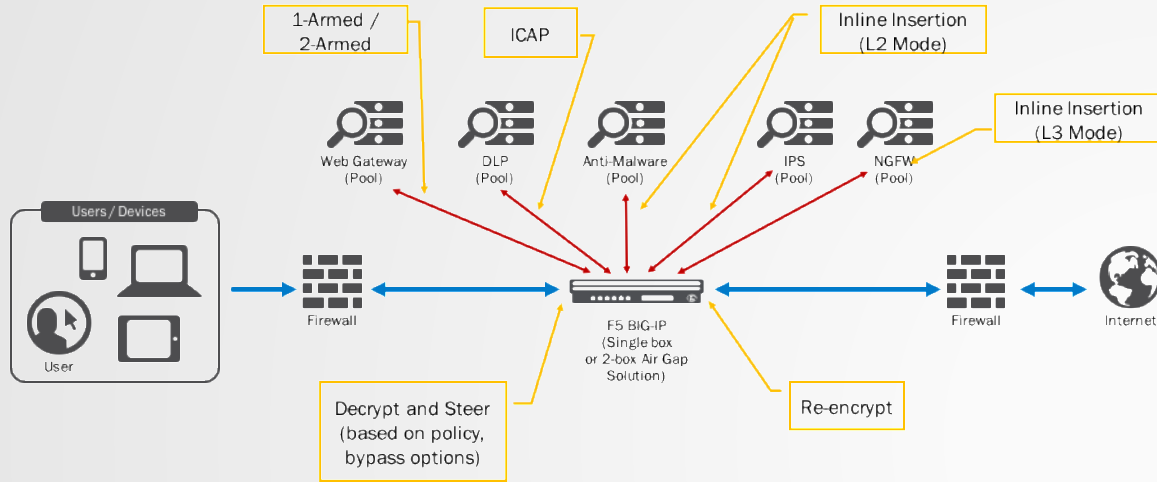
Chain services



Select services



Service Chaining



iApps » Application Services : Applications LX » SSLI_PB

General Properties | Inline Services | ICAP Services | Receive Only Services | Policies

My Network

Service Chains

Add | Delete

Name	Services
ServiceChain2	inlineService2 (Inline Service) ,ReceiveOnlyService2 (Receive Only)
ServiceChain1	inlineService3 (Inline Service) ,ReceiveOnlyService1 (Receive Only) ,inlineService2 (Inline Service)

TCP Service Chain Classifiers

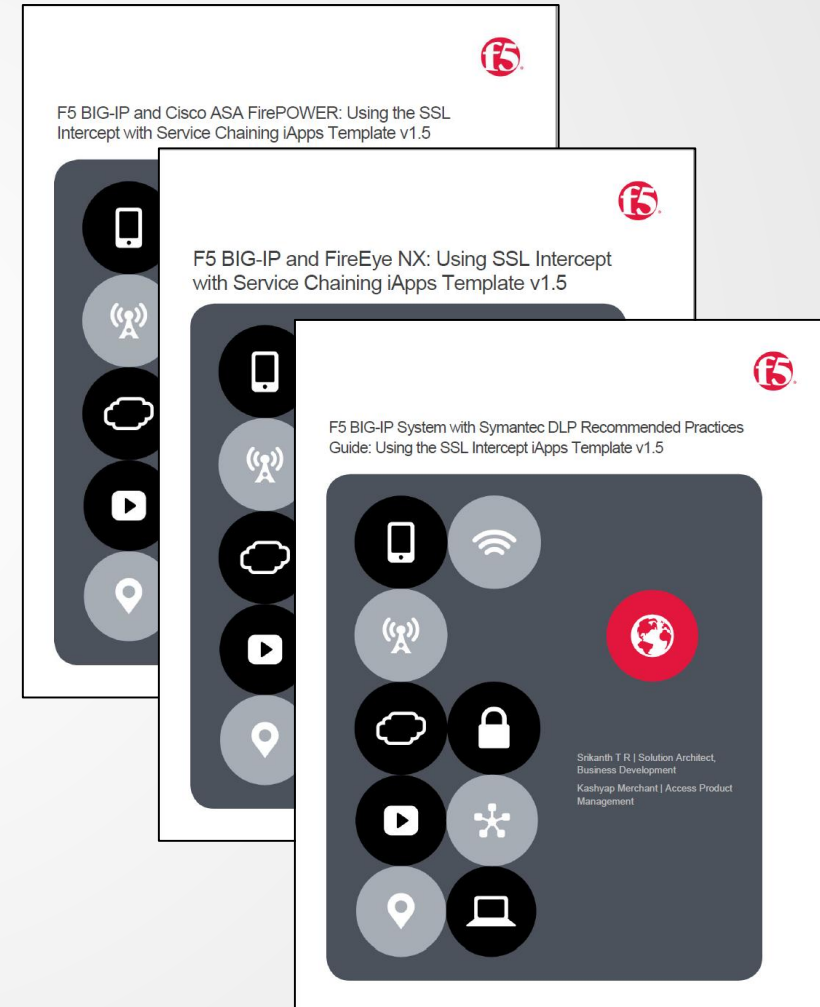
Service Chain Classifiers

Add | Delete

Name	Phase	Protoc...	Source	Destination	Service Chain
scc2	normal	all	Type IP Address Value 1.2.3.4	Mode Geolocation Type IP Address Value AF	sc1
scc1	normal	all	Type IP Address Value 1.2.3.4	Mode Address Type IP Address Value 4.5.6.7	sc1

SSL Orchestrator Partner Solutions

- Cisco
 - [F5 BIG-IP and Cisco ASA FirePOWER: Using the SSL Intercept with Service Chaining iApps Template v1.5](#)
- FireEye
 - [F5 BIG-IP and FireEye NX: Using SSL Intercept with Service Chaining iApps Template v1.5](#)
- Symantec
 - [F5 BIG-IP System with Symantec DLP: Using SSL Intercept with Service Chaining iApps Template v1.5](#)
- Ixia
 - F5 BIG-IP and Ixia iBypass Switch (coming soon)
- Palo Alto Networks
 - F5 BIG-IP and Palo Alto Networks Next-Generation Firewall: Using the SSL Intercept with Service Chaining iApps Template v1.5 (coming soon)

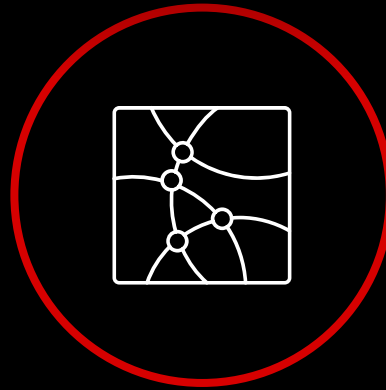


F5 SSL Orchestrator Solution Highlights



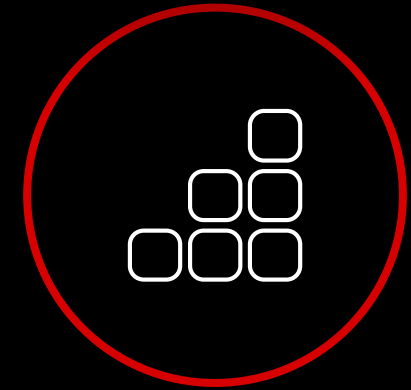
Gain visibility into SSL traffic

with centralized SSL decryption
across multiple security tools



Flexible deployment options

provide ease of integration with
unique network topologies

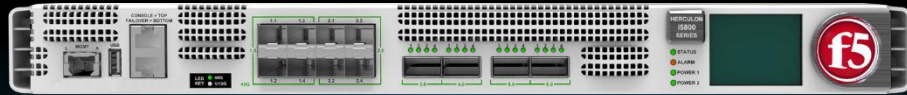


Dynamically chain services

based on context-based policy to
efficiently deploy security

F5 Herculon Product Portfolio

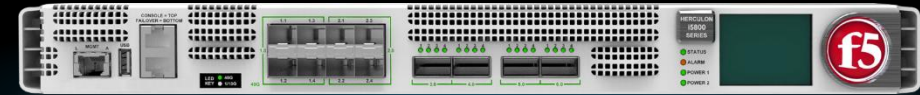
SSL Orchestrator



All-in-one solution designed to deliver increased visibility into encrypted traffic

- Converts customer to the “new security stack”
- Leverages and augments existing security investments
- Provides context-aware dynamic service chaining
- Enables easy service insertion

DDoS Hybrid Defender



Comprehensive DDoS protection, tightly-integrated on-premises and cloud

- Simplified user interface
- Multi-technique network protection
- Designed specifically for application protection
- Intelligently integrates off-site cloud scrubbing



Брошюры:
Сборник решений F5
+
Решения F5 по
безопасности



Solutions for an application world.