

**SOLUTION BRIEF**

# FortiGate and HYAS Security Protection

## Incorporating Protective DNS for Enhanced Security and Visibility, Utilizing Infrastructure Expertise and Communication Pattern Analysis To Deliver Risk-based Verdicts for Any Domain That a Human or Device Is Attempting To Reach Out To

### Executive Summary

Fortinet and HYAS have partnered to deliver an industry-leading security solution by integrating the FortiGate next-generation firewall and HYAS Protect to provide enterprises with enhanced security leveraging Protective DNS.

### Challenge

Enterprises need to deal with attacks before they happen and not after informing their board of directors. Domain Name System (DNS) provides logical enforcement to do just this.

With ransomware, phishing, botnets, and malware campaigns, hackers attempt to gain a foothold inside the network, as they need to communicate with C2, known as “command and control,” to execute their attacks.

Protective DNS complements the FortiGate next-generation firewall (NGFW) by providing visibility and blocking attacks at the DNS layer. The partnership between Fortinet and HYAS enables enterprises to leverage their FortiGate investments and protect against an expanding attack surface.

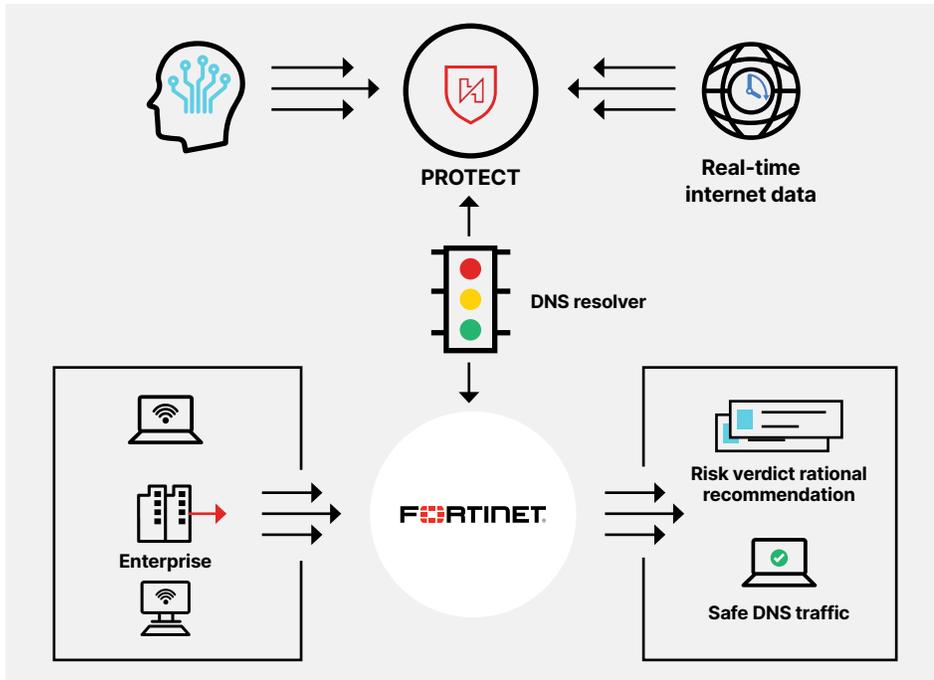
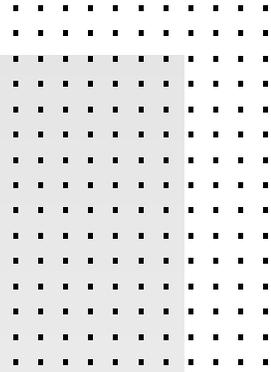


Figure 1: HYAS Fortinet diagram.



### Joint Solution Components

- Fortinet FortiGate Next-generation Firewall
- HYAS Protect, Protective DNS

### Joint Solution Benefits

- A new level of visibility into risk, using historical domain data and real-time analysis of communication patterns to any domain
- Block connections to malicious infrastructure before adversaries can use it. Confidently mitigate against future attacks at the DNS layer
- Real-time domain truth, leveraging artificial intelligence (AI)/machine learning (ML) to maintain updated telemetry of bad actors, as they move around in the shadows, maintaining a spotlight on their movements
- Enhance FortiGate efficacy against advanced attacks and enable enterprises to amplify the value of their FortiGate investments



HYAS and Fortinet have partnered to deliver an industry-leading security solution to address the rapidly growing cybersecurity challenges being faced today. The integration of HYAS' Protective DNS product into the Fortinet FortiGate is enabled through the Fabric-Ready Program in the Fortinet Open Fabric Ecosystem.

The HYAS Protect integration with the Fortinet FortiGate improves enterprise security by incorporating enhanced Protective DNS. The platform detects communication with malicious URLs/domains and enables alerts to be sent to FortiSIEM or FortiSOAR. Additionally, those domains can be blocked at the DNS layer. HYAS Protect combines infrastructure expertise and multi-variant communication pattern analysis to deliver reputational verdicts for any domain and infrastructure, identifying and preempting attacks.

## **HYAS Protect**

The HYAS Protective DNS service acts as the enterprise's DNS resolver as DNS requests are forwarded through the Fortinet FortiGate. Requests are analyzed against the HYAS unique data lake of adversary infrastructure data, to provide risk-based verdicts on domains/URLs that humans and devices are attempting to communicate with. Whether it's protecting the corporate or the production network, HYAS Protect easily integrates into both, adds unique value, and can identify, block, and mitigate even intricate and elaborate attacks.

## **Fortinet FortiGate**

FortiGate NGFWs enable security-driven networking and consolidate industry-leading security capabilities such as intrusion prevention system (IPS), web filtering, secure sockets layer (SSL) inspection, and automated threat protection. Fortinet NGFWs meet the performance needs of highly scalable, hybrid IT architectures, enabling organizations to reduce complexity and manage security risks.

## **Joint Use Cases**

### **Use Case 1: Corporate Workplace Protection**

#### **Incorporating Protective DNS**

Fortinet FortiGate integration with HYAS Protect adds a Protective DNS service that introduces an additional layer of network security. Whether it's protecting the corporate or the production environment, HYAS Protect easily integrates into both, adds unique value, and can identify, block, and mitigate even intricate and elaborate attacks, together with the FortiGate and the Fortinet Security Fabric.

### **Use Case 2: Production & IoT Device Protection**

#### **Enhance security operations**

Utilize high-fidelity alerts within security analytics platforms such as FortiSIEM or FortiSOAR to gain granular visibility and analysis into DNS traffic, as well as bolstering the effectiveness of security operations, while reducing noise related to false positives.

## **About HYAS**

HYAS is a world-leading authority on cyber adversary infrastructure and communication to that infrastructure. While much of the cybersecurity industry is still reacting to the emerging actions of bad actors, HYAS takes a preemptive stance and leverages its infrastructure knowledge to stop attacks before they can get started. We exist to outmaneuver any bad actors who choose to stand in the way of progress. To ensure executives have the confidence to take their organizations wherever they need to go.



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