Secure cloud-native applications and APIs on Red Hat OpenShift

AI and ML-based application security with Fortinet and Red Hat

Build, launch, and scale secure applications

Modern application delivery incorporates a continuous cycle of developing and deploying applications at a rapid pace. Organizations today deliver speed and agility by automating the orchestration process and implementing a "Shift left" practice to embed security early in the software development lifecycle.

The Fortinet-Red Hat partnership enables innovative and high-performance security solutions on the Red Hat OpenShift Platform. The architectural approach of the Fortinet Security Fabric connects the FortiWeb solution to the OpenShift platform, allowing for dynamic build and adaptation to the evolving application infrastructure.

Fortinet FortiWeb solution is validated on Red Hat OpenShift to be adopted as a cloud-native network function early in the CI/CD lifecycle for organizations to instill and scale their multi-cloud and hybrid cloud applications with unparalleled security. Customers benefit from protection against known and unknown threats, integrations with leading CI/CD tools to secure application build cycles, automated policy enforcement for response actions, and overall compliance to security best practices using industry -leading benchmark baselines.

Red Hat OpenShift built a unified, automated CI/CD platform to develop, manage, and deploy cloud-native products across on-site and cloud environments. By creating key security applications as microservices, Fortinet enables delivery of new features and services to market faster while reducing downtime for end customers and maintaining infrastructure freedom.

FortiWeb takes a dual-layer approach to behavior detection, intended to block threats without limiting application access or increasing security management overhead. This dual-layer approach minimizes false positives by ensuring that only true attacks are blocked rather than every single anomaly, as can happen with application-learning-based WAFs. Furthermore, by leveraging a machine learning-based web application security approach, organizations gain protection against zero-day attacks.

Solution Profile

Machine learning and artificial intelligence establishes FortiWeb as a leading web application firewall solution that provides protection for enterprises building and deploying on Red Hat OpenShift environments. Using machine learning to model each application, FortiWeb defends applications from known vulnerabilities and from zero day threats. Using an advanced multi-layered approach, FortiWeb protects against the OWASP Top 10 and more.

> "Red Hat OpenShift provides a powerful foundation to develop and connect diverse workloads across the hybrid cloud, and now with Fortinet, Red Hat customers can leverage ready-to-use certified and supported application security solutions across their organizations."

Neil Prasad
Sr. Director Global Technology Alliances
Fortinet
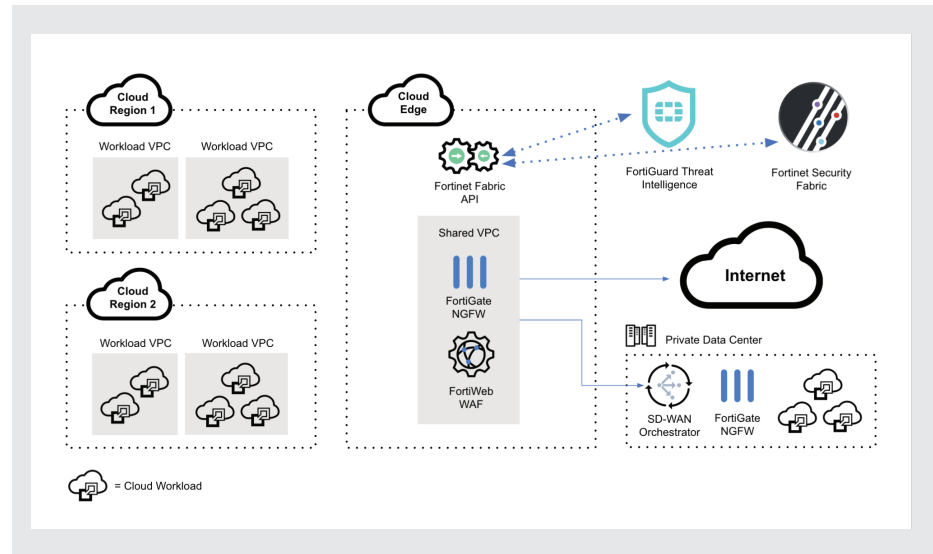
Key benefits

Fortinet FortiWeb built on Red Hat OpenShift Container Platform delivers:

Application Protection

Block known and zero-day threats to applications without blocking legitimate users and without the excessive management overhead that traditional application learning requires. Protecting against the OWASP Top 10 requires a combination of security controls. FortiWeb Cloud integrates positive and negative security model policies to provide the best web application security in the market.

API Protection

Protect your API endpoints with an automated positive security model only allowing access based on your API specification and additional out-of-the-box security policies.

Bot Mitigation

Block malicious bot activity without blocking bots that support legitimate business needs, such as search engines, or health and performance monitoring tools.

DDos Protection

Minimize downtime and ensure business continuity with FortiWeb Cloud DDoS protection for L3/4 and Layer7 attacks.
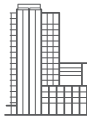
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About Fortinet

Fortinet secures the largest enterprise, service provider, and government organizations around the world. Fortinet empowers our customers with complete visibility and control across the expanding attack surface and the power to take on ever-increasing performance requirements today and into the future. Fortinet ranks #1 in the most security appliances shipped worldwide and more than 500,000 customers trust Fortinet to protect their businesses.

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.