

SOLUTION BRIEF

Fortinet Cloud Security Solutions

Executive Summary

Organizations have realized that to achieve their digital acceleration goals of today and tomorrow, their applications must live anywhere needed to deliver on their business outcomes. This means that applications can live anywhere across data centers, multi-clouds, edge compute, and even Telco Clouds.

Unfortunately, such distributed and porous environments can result in significant complexity and risks on top of those already being faced by organizations, including cybersecurity skills and people resource shortages and lack of a cohesive, converged security solution. The result is significant headwinds and barriers to digital acceleration.

Fortinet Cloud Security Solutions deliver a unified platform that empowers organizations to achieve 360-degree defense-in-depth security from code to cloud to build, deploy, and run cloud applications across all deployments, wherever their applications will live.



Ninety-two percent of organizations are concerned about the volume of cloud security risks while 64% have little to no confidence in their organization's ability to handle cloud threats in real time.¹

Application Journey Challenges

Digital acceleration has led organizations to deliver faster and better application experiences and bring applications and data closer to users and devices. Previously, most people thought this application journey was unidirectional, migrating from on-premises to the cloud. However, many organizations now realize that application journeys are much more fluid in that applications can live anywhere from the data center to hybrid and multi-clouds to edge compute. The reason for this is simple: Applications need to live wherever they deliver the most optimal desired business outcomes. Such outcomes include customer experience, performance, cost optimization, and more.

Unfortunately, this fluid environment creates challenges for CIOs and CISOs alike. They must address even greater challenges securing their networks because of the now more porous environment. These challenges include increased operational complexity, visibility gaps, and an explosion of cloud platforms and tools.

These added challenges further exacerbate existing operational issues. According to the 2025 Cloud Security Report, a global survey of over 873 cybersecurity professionals conducted by Cybersecurity Insiders, the top challenges organizations face across multi-cloud environments are:

- Ensuring data protection and privacy for each environment (58%)
- Loss of visibility and control (55%)
- Lack of staff resources or expertise (53%)²

Organizations are also all at different stages of their application journey; many are still unsure where their application journey will take them. In response, Fortinet Cloud Security Solutions empower organizations with the flexibility to secure applications wherever they may be deployed and the flexibility to evolve as their application journey progresses.

Secure Data Center, Cloud, and Edge Compute Networks with FortiGate

FortiGate is a leading next-generation firewall (NGFW) solution deployed in the cloud and on-premises at physical and virtual data centers and private clouds. It is available as a high-end hardware appliance built for the demands of a data center or as a virtual appliance (FortiGate VM) that offers the flexibility to extend the same technology into virtual data centers and cloud networks.



For organizations looking to simplify their cloud operations further, FortiGate CNF is a cloud-native firewall service that allows organizations to offload the management of their cloud network security infrastructure and, in turn, lower costs. Security teams can then focus on the things that matter most: configuring policies and securing their cloud networks and applications.

All FortiGates are powered by FortiOS, the world's most widely distributed security operating system, regardless of the form factor. This provides consistent policies no matter where the application needs to be deployed, which often reduces operational complexities in multi-cloud and hybrid-cloud deployments.

Additionally, FortiGate firewalls are the only solution that delivers secure multi-cloud SD-WAN connectivity and can orchestrate between all cloud and hybrid-cloud instances to help provide the best application experiences possible. They are well-integrated with cloud-native connectivity services offered by major cloud service providers, including AWS Transit Gateway, Azure vWAN, and Google Cloud Network Connectivity Center.

Secure Web Applications and APIs with FortiWeb and FortiAppSec Cloud

FortiWeb web application firewall (WAF) protects business-critical web applications from attacks that target known and unknown vulnerabilities. Advanced machine learning (ML)-powered features improve security and reduce administrative overhead. Capabilities include anomaly detection, API discovery and protection, bot mitigation, and advanced threat analytics to identify the most critical threats across all protected applications. FortiWeb also offers threat analytics to consolidate raw event data into a clear picture of the most significant threats. FortiWeb is available as hardware, a virtual appliance, and a containerized solution.

For organizations wanting a cloud-hosted Software-as-a-Service (SaaS) deployment, Fortinet offers FortiAppSec Cloud, which simplifies and strengthens application security and delivery across hybrid and cloud environments. This SaaS platform secures network availability and accelerates application performance while delivering consistent security. The AI-driven engine detects zero-day exploits and separates benign users from potential threats, maximizing detection accuracy while minimizing false positives.

Gain Unparalleled Context and Visibility into Your Cloud and Cloud-Native Applications with Lacework FortiCNAPP

Lacework FortiCNAPP unifies fragmented tools into a single platform to simplify and strengthen cloud security. It empowers teams to maximize their impact on security with minimal time and effort by automatically connecting risk insights with runtime threat data, ensuring they prioritize and address the most critical security risks and active threats.

Offering both agentless and agent-based approaches, Lacework FortiCNAPP empowers organizations with unparalleled visibility into applications and workloads no matter where they live. Lacework FortiCNAPP ingests more data from your code, cloud accounts, Kubernetes, running workloads, and cloud logs than any competitor. It then contextualizes and organizes the data to identify risks and threats, including critical alerts to low-level signals.

The power of Lacework FortiCNAPP is its ability to comprehend data at scale using Fortinet-patented AI technologies. It automatically correlates these signals and events to understand their relationships and readily identify risks and active threats affecting your environment. For example, we generate attack paths that reveal multiple risks for a single entity, such as internet exposure, critical vulnerabilities, misconfigurations, exposed secrets, and any privileged IAM roles, all within a single view.

Lacework FortiCNAPP also automatically establishes a baseline of regular activity in your environment and alerts you when it detects significant changes or outliers. Our behavioral analysis differs because we do not rely on rules or patterns to identify known threats, as these can create excessive noise and overlook new attack patterns. Instead, it compares your past state to your present state every hour, looking for deviations from what is expected. This unique approach is so innovative that over 200 ML-related patents protect it.

The result for organizations is that Lacework FortiCNAPP delivers faster identification of issues and response times and better efficacy for security and SecOps teams.



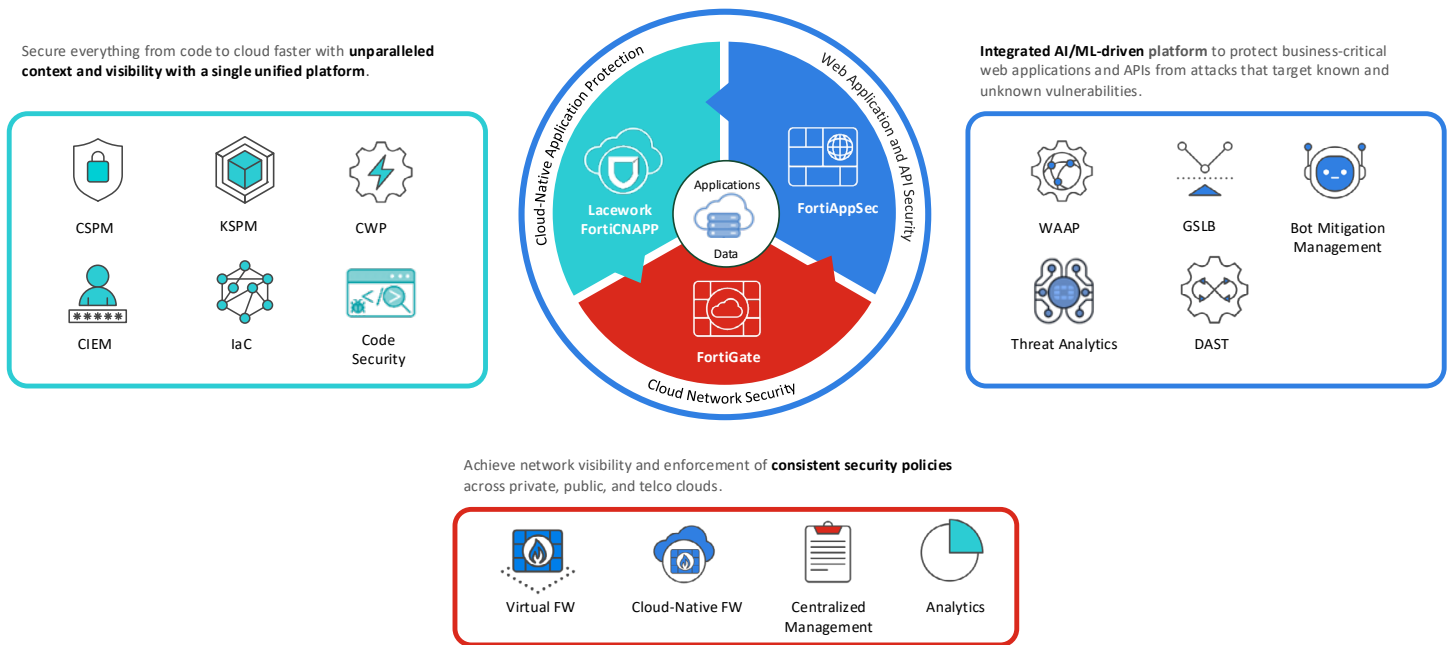


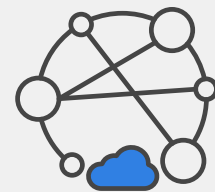
Figure 1: Fortinet delivers a unified platform from comprehensive, integrated code-to-cloud security

Secure and Optimized Application Delivery with FortiADC and FortiGSLB

FortiADC enhances your applications' scalability, performance, and security, whether hosted on-premises or in the cloud. Our advanced application delivery controller optimizes application performance and availability while securing the application with both its native security tools and by integrating application delivery into the Fortinet Security Fabric.

FortiADC provides unmatched application acceleration, load balancing, and web security, regardless of whether it is used for applications within a single data center or serves multiple applications for millions of users around the globe. FortiADC includes application acceleration, WAF, IPS, SSLi, link load balancing, and user authentication in one solution. The solution delivers availability, performance, and security in a single, all-inclusive license.

FortiGSLB Cloud is a DNS-based service that helps ensure business continuity by keeping applications online and available when a local area experiences unexpected traffic spikes or network downtime. FortiGSLB enables organizations to deploy redundant resources around the globe to maintain the availability of mission-critical applications.



"Ninety-seven percent of cybersecurity professionals want a single cloud security platform for consistent security policy across all cloud environments."³

Simplified and Secure Application Journeys

With broad coverage of application journey use cases and form factor options that allow organizations to deploy Fortinet Cloud Security Solutions anywhere their applications need to live, Fortinet helps organizations achieve their digital acceleration goals while lowering complexity and risks.

Integrated with the Fortinet Security Fabric, a broad, integrated, and automated cybersecurity platform backed by security intelligence and protection technologies from FortiGuard Labs, Fortinet's leading threat research and intelligence organization, Fortinet Cloud Security Solutions offer organizations centralized visibility and management, automation across all solution points, and intelligence sharing for the fastest response to threats. Ultimately, this reduces complexities, solves cloud cybersecurity skills and resource gaps, and increases security effectiveness.

Fortinet Cloud Security Solutions also support a wide range of deployment and consumption models. Our solutions are deployable directly from cloud marketplaces, as physical and virtual appliances, and as SaaS-based and cloud-native options. Additionally, our solutions are consumable, such as bringing your license (BYOL) and paying as you go (PAYG). As part of FortiFlex, which is well-suited for dynamic environments where flexible scaling is needed.

FortiFlex delivers usage-based security licensing that moves at the speed of digital acceleration. It offers a simple, transparent, points-based approach to provide organizations with flexibility and agility to right-size their cybersecurity services and spend. Organizations can freely deploy cybersecurity from Fortinet and scale them up, down, in, or out dynamically without excessive procurement cycles. When acquired through private offers from AWS, Azure, Google Cloud, and Oracle Cloud marketplaces, FortiFlex can help organizations draw down their committed minimum use obligations with these providers and extend the life of those dollars by up to 60 months.

Fortinet Secures Any Application on Any Cloud

Delivering consistent, secured, and optimized experiences for organizations to build, deploy, and run cloud applications across all data center, cloud, hybrid, and edge compute deployments, Fortinet empowers organizations to achieve their digital acceleration goals for today and tomorrow. We do this by offering cloud security solutions that are natively integrated across major cloud platforms and technologies alongside the ability to extend the Fortinet Security Fabric across anywhere applications live. Together, these can give organizations greater visibility and robust security effectiveness for reduced operational complexity. And, with consistent security policies across all hybrid and multi-clouds, centralized management, and FortiGuard-delivered protection and intelligence, Fortinet Cloud Security helps organizations eliminate security and operational challenges that stand in the way of digital acceleration success.

¹ [Cybersecurity Insiders](#), 2025 Cloud Security Report.

² Ibid.

³ Ibid.

