



FortiOS 6.4

Effective Security-Driven Networking



In the reality of today's market, digital innovation is a necessity. From moving faster and more efficiently, to operating in uncertain environments at a global scale, it all starts with the network.

Organizations and branches need both high-performance networks and strong security. The Fortinet Security-Driven Networking solution is an integral component of the Fortinet Security Fabric, which enables complete visibility and provides automated threat protection across the entire attack surface. Powered by a single operating system, it delivers industry-leading security and unmatched performance, all while reducing complexity.

FortiOS is a security-hardened, purpose-built network operating system that is the software foundation of FortiGate, and the entire Fortinet Security Fabric. Designed to deliver tightly integrated and intuitive security and networking capabilities across your entire network, FortiOS delivers everything from core network functionality to software-defined wide-area networking (SD-WAN) to best-in-class security that protects organizations end-to-end, including the ability to extend the Fortinet Security Fabric to third-party solutions using application programming interfaces (APIs) and Security Fabric connectors.

Seamless automation and orchestration built into FortiOS allows organizations to overcome resource and skills gaps, and achieve desired digital innovation outcomes without compromise.

Fortinet continues to enhance the Fortinet Security Fabric with FortiOS 6.4, the latest version of its operating system, with over 300 new features and capabilities.

For Security-Driven Networking customers, FortiOS 6.4 further simplifies network operations and SD-WAN deployments.



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Secure SD-WAN

The Fortinet Secure SD-WAN solution delivers improved user experience and simplified operations at the WAN edge by integrating next-generation firewall (NGFW) and Secure SD-WAN in a single offering.

With FortiOS 6.4, customers can now further simplify their SD-WAN deployments through intuitive orchestration in FortiManager. The new SD-WAN Orchestrator helps customers configure, manage, and monitor SD-WAN deployments on FortiGates. This greatly reduces complexities and resource demands in environments with multiple SD-WAN instances

Working in conjunction with FortiManagement Center 6.4, customers are able to benefit from enhanced analytics and visibility of their SD-WAN deployment. The resulting visibility enables customers to identify and troubleshoot quality of experience (QoE) issues per application in real time, ensuring that organizations and their users get the most out of their SD-WAN deployment.

Fortinet understands that digital innovation is a journey, and journeys take time. To help customers undergoing their transformation at the WAN edge, Fortinet enables customers to have both old and new networks coexist. Through innovations delivered in FortiOS 6.4, customers can reuse existing VRF-based segmentation to reduce the complexity and effort required to redesign their networks. Using FortiOS 6.4, FortiGates can establish neighbor connections with other FortiGates and routers, and the learned routes can be placed into different VRF tables, according to the settings of the neighboring FortiGates and routers. Ultimately, this provides a smooth migration path for any deployment models, from flat network to highly segmented ones.

Additionally, FortiOS 6.4 introduces a number of SD-WAN operational improvements such as SD-WAN zones that allow customers to apply firewall policies to individual or groups of SD-WAN interface members using different zone assignment.

Secure Access

Fortinet Secure SD-Branch enables customers to converge their security and network access, extending the benefits of the Fortinet Security Fabric to their distributed branches. Secure SD-Branch is comprised of Fortinet Secure SD-WAN, FortiNAC network access control, FortiSwitch, and FortiAP to deliver consolidation of branch services for network edge and device edge protection.

FortiOS 6.4 further simplifies Secure SD-Branch deployments with operational and management enhancements including tighter integration of FortiAP with the Security Fabric. FortiAP now shows up in the Fabric topology map, enabling customers with a greater degree of centralized management and visibility.

Additionally, spectrum analysis is now part of the FortiGate E-series GUI. This puts key information such as detected interferences at customers' fingertips to improve troubleshooting and operational decision-making.

Part of digital innovation considerations are the use of the latest in technologies and standards. With FortiOS 6.4, customers can now leverage IPv6 over wireless traffic using FortiGates and FortiAP in their Security Fabric.



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Next-generation Firewall

FortiGate NGFWs enable security-driven networking and consolidate industry-leading security capabilities such as intrusion prevention (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.

The Fortinet NGFW solution can help organizations reduce their attack surface through segmentation of their environment. With FortiOS 6.4, customers can now maximize internal segmentation and visibility through support of normal traffic VDOMs, extending the management-only VDOM support already available in FortiOS.

Lastly, to help organizations simplify their network operations, FortiOS 6.4 also delivers a number of time-saving enhancements that include consolidation of policy configurations such as those for IPS rules, and enhancements to better secure web gateway deployments using FortiGates.

Services and Subscriptions

FortiOS 6.4 delivers several new and enhanced services and subscriptions for the Fortinet Security Fabric to help customers better operate and secure their networks.

New with FortiOS 6.4 are service entitlement for SD-WAN orchestrator in FortiManagement Center, IP Address Management (IPAM) as a cloud-based service to help customers better manage DHCP and DNS usage in their environment by automatically assigning IPs to FortiGates that do not overlap, and an Internet-of-Things (IoT) service that can help customers reduce their attack surface through automatic identification, segmentation, and policy enforcements of IoT devices.

The Fortinet Security Rating subscription service helps organizations achieve compliance and correct deficiencies and risks by providing visibility and checks against compliance and best-practice standards. This service also allows for benchmarking against other industry-peer organizations. FortiOS 6.4 enhances the Security Rating capability with an operations-centric view to help networking staff better prioritize and manage their environments.

The new services are available as part of FortiGuard Enterprise and 360 Protection bundles, and as a la carte subscriptions that customers can use to customize their services.

Digital innovation requires a broad, integrated, and automated cybersecurity platform that only the Fortinet Security Fabric can provide. FortiOS 6.4 advances the Fortinet Security Fabric with greater security while delivering even more simplicity and automation to help customers better deploy, operate, and maintain network operations, security, and secure SD-WAN throughout their organization.



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