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HPE ProLiant for Microsoft Azure Stack, Secured with Fortinet

HPE and Fortinet Enable Seamless and Secure Connectivity for HPE ProLiant for Microsoft Azure Stack Hub Implementations

Executive Summary

The HPE and Fortinet solution for Azure Hybrid Cloud combines the HPE ProLiant for Microsoft Azure Stack Hub with Fortinet products (FortiGate VM on Azure, FortiAnalyzer, FortiManager, and FortiEDR), to enable seamless and secure connectivity for hybrid cloud environments.

Solution Overview

For IT organizations supporting business transformation, the hybrid cloud offers an ideal solution for delivering the required service experience while maintaining control, ensuring performance, and assuring flexibility. A key element of a hybrid cloud solution is secure connectivity which enables the seamless interworking of on-premise or third-party resources of the cloud computing environment with the public cloud. The security features of the connectivity option are key to ensuring that integrity of the hybrid cloud infrastructure as well as the data and applications it supports are well-protected.

The performance of the hybrid cloud is also impacted by the connectivity given its importance in ensuring that workloads can function as expected and that management and orchestration operate across the networked environment.

For organizations selecting a hybrid cloud, it is critically important that the overall solution choice be made with all elements of the solution taken into consideration to ensure that the desired business outcomes—be they increasing agility, enhancing innovation or controlling costs are delivered.

The HPE and Fortinet solution for Azure Hybrid Cloud combines the HPE ProLiant for Microsoft Azure Stack Hub with the FortiGate VM on Azure, FortiAnalyzer, FortiManager, and FortiEDR, to enable seamless and secure connectivity for hybrid cloud environments in multiple solution configurations jointly validated by HPE and Fortinet to ensure functionality and compatibility.

The enhancements of HPE Azure stack's hubs with VNET to VNET peering capability allows a user to create a secure connection between two virtual networks in the Azure Stack environment. In addition to secure and encrypted connectivity across workloads, the FortiGate protects both ingress and egress communication with built-in security capabilities such as intrusion prevention system (IPS), web filtering, secure sockets layer (SSL) inspection, and automated threat protection. Lastly, the integrated solution enables centralized logging, centralized configuration management, and artificial intelligence (AI)-powered Endpoint Protection.

Product Overview

Fortinet FortiGate VM on Azure

The FortiGate VM on Microsoft Azure delivers next-generation firewall (NGFW)capabilities for organizations of all sizes, with the flexibility to be deployed as next-generation firewall and/or virtual private network (VPN) gateway. It protects against cyberthreats with high performance, security efficacy, and deep visibility.

A New Style of Partnering

Hewlett Packard Enterprise and Fortinet are collaborating in a fresh new way to bring increased value to customers like you.

We know that acquiring technology is only the first step in achieving a business goal. The technology pieces need to work together. They need to be tested. They need to provide rich functionality, quickly and effectively, so you can concentrate on your business needs.

To help satisfy these needs, Fortinet is a member of the HPE Partner Ready for Technology Partner program, an industry-leading approach to supply sophisticated integrated technologies in a simple, confident, and efficient manner. And, HPE is a member of Fortinet's Open Fabric Ecosystem that provides integrated solutions to customers for comprehensive end-to-end security.

By participating in each other's programs, both HPE and Fortinet have access to the other's tools, processes, and resources to help our joint customers accelerate innovation and transformation that brings value, achieves business needs, and increases revenue and market share.

HPE and Fortinet have collaborated to provide best-in-class and unparalleled protection from a comprehensive suite of network, and application security solutions across physical, virtual, and cloud environments.

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Hewlett Packard Enterprise Technology Partner Microsoft Azure Stack Tested SILVER PARTNER

FortiGate next-generation firewall technology enables security-driven networking (SDN), and combines a comprehensive suite of powerful security features. Application control, firewall, antivirus, intrusion prevential system (IPS), web filtering, and VPN along with advanced features such as an extreme threat database, vulnerability management, and flowbased inspection work in concert to identify and mitigate the latest complex security threats. The security-hardened FortiOS operating system is purpose-built for inspection and identification of malware.

Fortinet FortiAnalyzer

FortiAnalyzer provides deep insights into advanced threats through single-pane orchestration, automation, and response for your entire attack surface to reduce risks and improve your organization's overall security. Integrated with Fortinet Security Fabric, FortiAnalyzer simplifies the complexity of analyzing and monitoring new and emerging technologies that have expanded the attack surface, and delivers end-to-end visibility, helping you identify and eliminate threats.

Fortinet FortiManager

FortiManager supports network operations use cases for centralized management, best practices compliance, and workflow automation to provide better protection against breaches. It provides full visibility of your network, offering streamlined provisioning and innovative automation tools. Integrated with Fortinet Security Fabric, the security architecture and FortiManager's automation-driven network operations capabilities provide a foundation to secure and optimize network security, such as provisioning and monitoring software-defined wide-area networks (SD-WANs).

Fortinet FortiEDR

FortiEDR delivers real-time, automated endpoint protection with the orchestrated incident response across any communication device. It also includes workstations and servers with current and legacy operating systems, as well as manufacturing and operational technology (OT) systems—all in a single integrated platform, with flexible deployment options and a predictable operating cost.

HPE ProLiant for Microsoft Azure Stack

It is a pre-integrated, hybrid cloud solution that transforms on-premises data center resources into flexible hybrid cloud services. The solution provides a simplified development, management, and security experience that are consistent with Azure public cloud services. Co-engineered by HPE and Microsoft, the solution enables the easy movement and deployment of apps to meet security, compliance, cost, and performance needs.

Based on the industry-standard HPE ProLiant DL380 Gen10 Server platform, the HPE ProLiant for Microsoft Azure Stack solution is co-engineered by HPE and Microsoft to enable organizations to run Azure-consistent services on-premises in their own data center. Given that Azure and Azure Stack are application programming interface (API) compatible, customers can build applications once and deploy to either the Azure Stack or Azure Public Cloud, extending service offerings. HPE ProLiant for Microsoft Azure Stack is targeted at both enterprise customers and service providers who have the following needs:

- **Data sovereignty, security, and compliance:** Protecting the customer data and IP; meeting compliance needs
- **Performance:** Supporting high-performance analytics, Big Data, and low-latency applications
- **Edge and disconnected applications:** Providing connectivity to disconnected applications
- **Modern application development:** Deploying applications to either public or private cloud

Company Overview

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. Only the Fortinet Security Fabric platform can address the most critical security challenges and protect data across the entire digital infrastructure, whether in networked, application, multicloud, or edge environments. Fortinet ranks #1 in the most security appliances shipped worldwide and more than 455,000 customers trust Fortinet to protect their businesses. Both a technology company and a learning company, the Fortinet Network Security Institute has one of the largest and broadest cybersecurity training programs in the industry.

About Hewlett Packard Enterprise

Hewlett Packard Enterprise is the global edge-to-cloud platform-as-a-service company that helps organizations accelerate outcomes by unlocking value from all of their data, everywhere. Built on decades of reimagining the future and innovating to advance the way people live and work, HPE delivers unique, open, and intelligent technology solutions, with a consistent experience across all clouds and edges, to help customers develop new business models, engage in new ways, and increase operational performance. Learn more at hpe.com/partners/technology.

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