f5 + **vm**ware

Delivering Private Clouds with F5 and VMware

We are in a fast-changing, new world of computing and mobility. End users routinely switch between mobile devices, tablets, and laptops—and require seamless access to their software and documents at the same time. These users want to be confident in the security of their information and in the connectivity of all their devices without having to think about it.

F5 and VMware have teamed up to give end users the best experience possible, whether in a public or private cloud. The VMware vRealize Suite, VMware NSX, and F5® BIG-IP® capabilities provide a sophisticated solution to the challenges of cloud computing, network virtualization, and management across multiple virtual and cloud environments.

Building a Private Cloud

As the leader in the virtualization world, VMware is the platform of choice for many Fortune 500 companies. With the VMware vRealize Suite with VMware NSX, you get a comprehensive operational model for networking that forms the foundation of the software-defined data center (SDDC).

VMware vRealize Suite

The VMware vRealize Suite is an enterprise-ready, cloud management platform built for the hybrid cloud. It delivers and manages infrastructure and applications quickly while maintaining IT control. To create a private cloud with the VMware vRealize Suite, the application owner defines the applications and resources they require, which include computing, storage, networking, security, and availability. The required components are then grouped to create a logical application.

F5 integrates with VMware vRealize Suite across the following components when creating private clouds:

- **vRealize Operations** provides intelligent management—health, performance, capacity, and configuration—across physical, virtual, and cloud infrastructures.

- **vRealize Log Insight** delivers log management with intuitive dashboards, sophisticated analytics, and third-party extensibility.

- **vRealize Network Insight** provides traffic analytics and virtual network visibility for micro-segmentation planning and deployment, as well as NSX troubleshooting and remediation.

- **vRealize Business for Cloud** automates cloud costing, consumption analysis and comparison, and enables you to efficiently deploy and manage cloud environments.

- **vRealize Automation** enables IT automation through the creation and management of personalized infrastructure, applications, and custom IT services.

- **Blue Medora vRealize Operations Management Pack** for the BIG-IP platform extends vRealize Operations by enabling system administrators to gain comprehensive visibility and insights into the performance, capacity, and health of their BIG-IP workloads running on VMware.

VMware NSX

VMware NSX is a leading network virtualization platform for the software-defined data center. It provides logical abstraction of the physical network and reproduces networking services in software. NSX also allows customers to create entire networks through software and embed them in the hypervisor layer. All network components can be provisioned in minutes, without the need to modify the application.

NSX enables seamless automation, orchestration, and provisioning of SDDC application services. Through a proxy architecture, the BIG-IP platform integrates with NSX network segments to expose a rich set of F5 application services to both network and virtualization operators. The BIG-IP platform delivers Software-Defined Application Services (SDAS) within NSX network virtualization for a reliable, enterprise-class application experience.

Why F5 and VMware?

Since 2002, VMware and F5 have partnered to provide best-in-class solutions that deliver applications to anyone, anywhere, and at any time.

F5 and VMware offer:

- An engineered solution stack that is fully integrated, fully tested, and fully proven

- A complete suite of application delivery services on premises and across clouds

- Low total cost of ownership, especially for large enterprises

- Integration with VMware vRealize cloud management products for unified automation and a "day-two" operations management solution

- Ongoing joint research and development

Together, F5 and VMware deliver automated processes with components that provide an orchestrated solution for mobility and security issues.

Conclusion

F5 solutions fully integrate with the VMware vRealize Suite and VMware NSX, allowing customers to simply provision, configure, deploy, monitor, and automate F5 devices in private cloud deployments—reducing deployment times. This product integration offers component interoperability and a complete solution that ensures fast, secure, and available applications when and where you need them.

For more information about F5, VMware vRealize Suite, and VMware NSX, visit f5.com/vmware and vmware.com/go/f5alliance or contact your F5 or VMware sales representative.