



# F5 FIPS-Certified Software-Based Application Delivery Services

## CHALLENGES

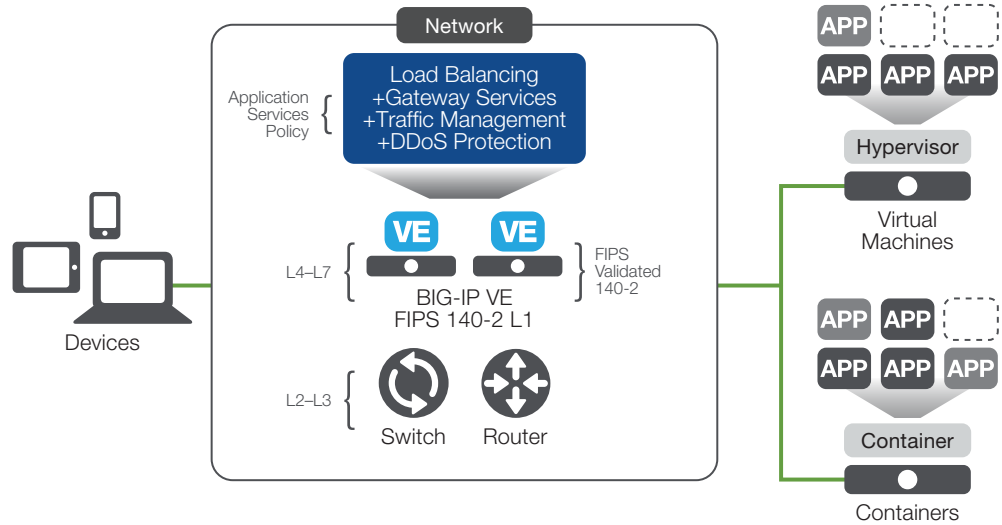
- Increase in US Government FIPS 140-2 requirements
- DoD contractors and subcontractors must safeguard Controlled Unclassified Information(CUI) with NIST SP 800-171 controls by December 2017
- Financial customers face rigid PCI DSS 3.0 requirements
- Adopting virtualized, SDN, or cloud data centers can require a software application delivery solution

F5 application and security services help customers in regulated industries achieve compliance while ensuring their applications are available, optimized, and protected. F5 FIPS-Certified BIG-IP Virtual Edition (VE) is an advanced software application delivery solution that incorporates a FIPS 140-2 Level 1 validated cryptographic module. Organizations can now extend compliance in virtual, SDN, and cloud environments, simply and cost-effectively.

FIPS 140-2 is the mandatory security standard for hardware, software, and firmware solutions in systems that use cryptography to encrypt sensitive but unclassified information. In U.S. government procurement, all solutions that use cryptography must complete FIPS 140-2 validation. There are levels associated with achieving compliance with FIPS 140-2, and all require the use of a NIST-certified cryptographic module. FIPS 140-2 Level 1 can be achieved by incorporating a software-based certified module; no specific physical security mechanisms are required. FIPS 104-2 Level 2 adds the requirement that the module must include features that would show evidence of tampering or locks, and can typically be achieved by using a hardware security module (HSM). F5 provides Level 2 compliant solutions with BIG-IP FIPS hardware appliance models that integrate a Level 2 certified HSM. For more information, please see the F5 certification page, <https://f5.com/about-us/certifications>.

**KEY BENEFITS**

- Unified platform—BIG-IP can consolidate a FIPS-certified cryptographic module with application delivery solution that has SSL key and certificate management on a single device
- High-performance SSL with industry-recommended standards
- Secure resources—F5 solutions safeguard the integrity of businesses by keeping corporate resources safe and protecting corporate brands
- Low-cost software and FIPS-certified solution in VMware, AWS, and Azure environments



F5 FIPS-Certified BIG-IP VE is available as standalone LTM, AFM, or as part of Better or Best licensing.

**BIG-IP Virtual Edition Features**

- Software application delivery platform that provides L7 traffic management and redirection, SSL/TLS offload and visibility, load balancing, and DDoS protection
- Complies with NIST Special Publication(s) 140-2, 800-171, and 800-53r4 in the protection of confidential, unclassified information (CU)
- High-performance version supports up to 40G throughput
- Certified on VMware ESXi, Microsoft Hyper-V, Amazon Web Services (AWS) and Microsoft Azure
- Integrates with VMware vRO/vRA and NSX

**Resources**

**NIST References:**

- [Cryptographic Module for BIG-IP® Module FIPS 140-2 Non-Proprietary Security Policy](#)
- [NIST Certificate](#)

**AskF5 Support:**

- [Overview of the FIPS 140-2 Level 1 compliant mode for BIG-IP VE](#)

For more information, please contact your F5 representative: [f5.com/products/how-to-buy](https://f5.com/products/how-to-buy) or (888) 88BIGIP.

