

SPEED APPLICATION DEVELOPMENT AND DELIVERY WITH RED HAT AND F5

DATASHEET



CERTIFIED SOLUTION AREAS

- OpenStack solutions for enterprises
- Network functions virtualization solutions for telecommunications service providers
- Integrated Platform-as-a-Service solutions

OVERALL BENEFITS

- Rapid cloud deployment
- Faster time to market for cloud services and applications
- Improved customer satisfaction

SIMPLIFY CLOUD DEPLOYMENT WITH OPEN, INTEGRATED SOLUTIONS

Cloud technologies transform the way organizations do business. Innovative tools and platforms and nearly limitless scalability help to improve agility, automate processes, and speed development in ways that traditional infrastructure cannot. As a result, companies of all sizes, across all industries, are deploying cloud environments to promote digital evolution within their organization. In fact, Gartner predicts that up to 75% of all businesses will be digital by 2020.¹

Partners and industry leaders, Red Hat and F5 develop integrated, certified solutions for speeding application development and delivery with cloud environments. As the first open source software company to reach US\$1 billion in revenue, Red Hat delivers open software packages with predictable cost models.² Using an open, extensible framework, F5 helps organizations seamlessly scale cloud, datacenter, and software-defined networking (SDN) deployments to successfully deliver applications to anyone, anywhere, at any time.

Red Hat and F5 solutions accelerate large-scale, open, private cloud infrastructure setup and configuration, speed time to market for cloud services and applications, and improve customer satisfaction. Technical teams from both companies actively work together to keep solution certifications current and ensure complete component integration.

To help customers transition to cloud operations, Red Hat and F5 focus on three main solution areas: OpenStack® solutions for enterprises, network functions virtualization (NFV) solutions for telecommunications service providers, and integrated Platform-as-a-Service (PaaS) solutions for all organizations.

CERTIFIED OPENSTACK SOLUTIONS FOR ENTERPRISES

For enterprise organizations, Red Hat and F5 offer integrated cloud solutions based on the popular OpenStack cloud operating system. Certified with Red Hat® OpenStack Platform, the F5 OpenStack Load-Balancing-as-a-Service (LBaaS) plugin connects F5's BIG-IP application delivery controller (ADC) to OpenStack. Integration between F5 products and Red Hat OpenStack Platform director simplifies cloud implementation and operation and delivers consistent, repeatable resource provisioning.

Additionally, as the open software expert, Red Hat is uniquely positioned to support organizations in developing OpenStack-based cloud environments. Red Hat provides software support for Red Hat OpenStack Platform through predictable subscription delivery models that include not only software and support, but also updates, bug fixes, and access to a library of helpful resources.



facebook.com/redhatinc
@redhatnews
linkedin.com/company/red-hat

¹ John-David Lovelock, "Charting Business Success Using Forecasts and Market Models," Gartner Tech Growth & Innovation Conference, June 2016.

² Business Insider, "It's Official: Red Hat Is The First Open Source Company To Top \$1 Billion A Year," March 28, 2012, located at businessinsider.com/its-official-red-hat-becomes-the-first-1-billion-open-source-company-2012-3.

Red Hat and F5 OpenStack solutions provide the following benefits for enterprise organizations:

- **Simplicity.** These solutions are easy to integrate into your existing infrastructure and provide the scalability required for production-grade cloud environments.
- **Support.** Red Hat delivers enterprise-grade software support through an all-inclusive subscription model with predictable pricing.
- **Interoperability.** The F5 OpenStack LBaaS plugin supplies simple, reliable provisioning of application delivery and load balancing services within your Red Hat OpenStack Platform environment.

CERTIFIED NFV SOLUTIONS FOR SERVICE PROVIDERS

Red Hat and F5 deliver a certified NFV solution that meets the stringent requirements of service provider cloud environments. Based on Red Hat OpenStack Platform and F5 BIG-IP technology, the F5 NFV solution is rigorously tested to ensure reliable, stable, rapid operation. Proven reference architectures help you deploy high-performance, scalable NFV infrastructure. In fact, the F5 NFV solution scales to 40GBps per instance. Furthermore, the F5 iControl application programming interface (API) allows you to easily integrate the programmable BIG-IP platform into your current orchestration environment.

Key benefits of Red Hat and F5 NFV solutions include:

- **Certification.** Rigorous testing ensures these solutions deliver the interoperability, stability, and reliability service providers require.
- **Integration.** These solutions enable service providers to implement F5's BIG-IP platform within Red Hat OpenStack Platform cloud environments.
- **Open APIs.** F5's iControl API lets you integrate BIG-IP with existing network orchestration tools.

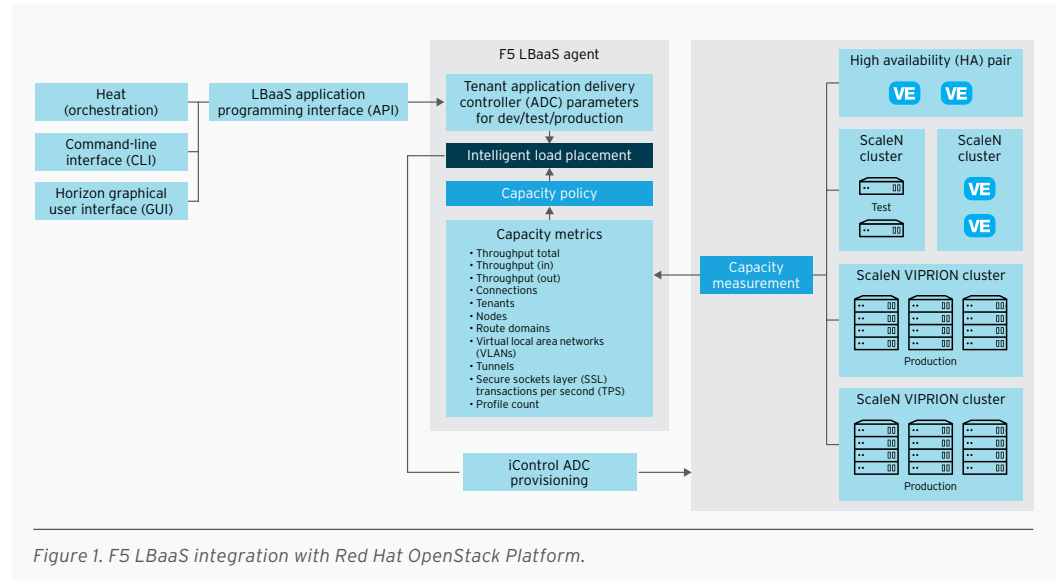


Figure 1. F5 LBaaS integration with Red Hat OpenStack Platform.

INTEGRATED OPENSIFT PLATFORM-AS-A-SERVICE SOLUTIONS

Based on Red Hat OpenShift Container Platform and the F5 BIG-IP platform, Red Hat and F5 provide combined PaaS solutions that help organizations build, test, and deploy applications more efficiently and effectively. Red Hat OpenShift Container Platform streamlines provisioning and setup of application infrastructure to support innovative development models. It also serves as a key tool for application code development. Integration with the BIG-IP platform allows F5 BIG-IP Local Traffic Manager (LTM) to be used within a Red Hat OpenShift Container Platform environment for advanced application delivery. This is accomplished using a tunneled connection to the OpenShift ramp node. Combining these two platforms also ensures consistent, standardized operation of both BIG-IP virtual editions (VE) and hardware appliances within development and test environments. As a result, applications can be analyzed for scalability, performance, and security across environments.

Red Hat and F5 PaaS solutions provide the following benefits:

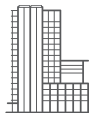
- **Innovation.** These solutions supply the infrastructure and tools needed for agile application development and advanced application delivery.
- **Consistency.** Standardized operation of BIG-IP virtual editions and hardware appliances simplify application delivery in PaaS environments.
- **Validation.** A unified environment lets you develop and test applications for scalability, performance, and security across platforms.



CONCLUSION

Together, Red Hat and F5 offer certified solutions for application programming, delivery, and deployment in cloud environments. By combining F5's large-scale application delivery platforms and Red Hat open source software, these solutions are simple to integrate and scale with predictable costs. Continuous collaboration ensures certifications are kept up to date and meet the current needs of both enterprise organizations and telecommunication service providers.

Visit connect.redhat.com/partners/f5-networks to learn more about Red Hat and F5's partnership and collaboration.



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.



facebook.com/redhatinc
[@redhatnews](https://twitter.com/redhatnews)
linkedin.com/company/red-hat

redhat.com
#F7636_0717_v1_KVM

NORTH AMERICA
1 888 REDHAT1

**EUROPE, MIDDLE EAST,
AND AFRICA**
00800 7334 2835
europe@redhat.com

ASIA PACIFIC
+65 6490 4200
apac@redhat.com

LATIN AMERICA
+54 11 4329 7300
info-latam@redhat.com

Copyright © 2017 Red Hat, Inc. Red Hat, Red Hat Enterprise Linux, the Shadowman logo, and JBoss are trademarks of Red Hat, Inc., registered in the U.S. and other countries. Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

The OpenStack® Word Mark and OpenStack Logo are either registered trademarks / service marks or trademarks / service marks of the OpenStack Foundation, in the United States and other countries, and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community.