Virtualization is critical to maintaining an adaptable network and accomplishing the scale, consolidation, and business continuity demanded by today’s advanced application infrastructures. F5 can help you achieve data center virtualization with virtual editions that provide an agile, flexible, and efficient way to deploy and optimize application services.

Using F5® BIG-IP® virtual editions (VEs), you can deploy F5 software defined application services™ (SDAS) fabric in hybrid, virtual, and cloud environments. With virtual editions available for all F5 market-leading BIG-IP and BIG-IQ™ products, you can rapidly provision intelligent services across the data center and into the cloud—with the same code, advanced application services, and breadth of features as F5 leading hardware systems.

**Key benefits**

**Deploy with increased agility**
Quickly and easily spin up and spin down the leading application delivery services when and where you need—in the data center or into the cloud.

**Optimize application services more efficiently**
Rapidly provision and consolidate application services on your existing servers, unlocking the broadest feature density with a virtual footprint.

**Provide the ultimate in flexibility**
Get the most flexible deployment options in the industry, with support across all major virtualization platforms for both private and public cloud.
Flexible, High-Performing vADCs for Hybrid Data Centers

Provide the ultimate in flexibility and performance by deploying SDAS fabric on a combination of physical and virtual Application Delivery Controllers (ADCs) in your hybrid data center. Adding virtual ADCs to your data center is ideal for cloud bursting, splitting large workloads, and supporting tiered levels of service. Whether you are transitioning from a physical to a virtual deployment model or migrating from a private data center to the cloud, F5 has the physical and virtual ADCs to help you achieve your goals.

With a hybrid data center, an F5 physical ADC is deployed at the network edge to handle high volume and high throughput functions while virtual ADCs are aligned with specific applications that share similar resources.
Achieve a Software Defined Data Center

Migrate to a software defined data center (SDDC) with elasticity, application mobility, and flexible deployment options for virtual environments and the cloud. An SDAS fabric can be deployed on virtual ADCs to achieve a dynamic, scalable, and flexible SDDC for private and public cloud architectures. An SDDC is ideal for accelerated application deployments, enabling dynamic changes in the data center, and keeping security close to the applications.

For enterprise SDDCs, a BIG-IP VE is dynamically deployed for each application, providing true elasticity, application mobility, and resource and fault isolation that can scale as your network requirements grow.

Deploy BIG-IP in your lab

The BIG-IP Lab Virtual Edition gives you a cost-effective way to stage and test all of the enterprise BIG-IP modules in your lab environment. Because BIG-IP Lab VE is identical in functionality to the production BIG-IP product versions, you can move your applications and application infrastructure from staging to production seamlessly. Deploying BIG-IP application delivery services in your lab is not only a safe way to test advanced configurations before deploying into production, but also to complete certifications and train engineers.
Automated, On-Demand VE Deployments with BIG-IQ Device

F5® BIG-IQ™ Device provides automated deployment and centralized license management for BIG-IP virtual edition instances. Adding BIG-IQ Device to manage your multiple BIG-IP VE licenses gives you the ability to automate large-scale virtual ADC deployments in the private or public cloud. With BIG-IQ Device, you can spin up and provision groups of VEs from a single license pool on demand, and then when resource requirements decrease, spin down the VE and return it to the license pool for future use. VE license pools are available in increments of 25 instances.

For multi-tenancy or large-scale virtual application deployments, VEs can be purchased in packs of 25 instances with a BIG-IQ Device to provision and manage the licenses as you spin up and spin down instances.

Deploy Mission-Critical Applications in the Amazon Web Services Cloud

When you use BIG-IP VEs in the Amazon Web Services (AWS) cloud, you get the flexibility and scalability you want—and the performance you need. Utilizing these two technologies together provides the following benefits:

- **Simplified cloud migration**—Take full advantage of cloud resources as needed, then retreat within the data center as application performance allows.

- **Applications available on demand**—Provide on-demand application availability by seamlessly “bursting” your application workloads to the AWS cloud.

- **Flexible licensing models**—Pay as you go for just what you need, while the performance and acceleration features in the BIG-IP platform help reduce your overall consumption requirements.
Move applications transparently to the AWS cloud from your local data center utilizing the BIG-IQ AWS connector in concert with BIG-IP VE. Expand and contract your application infrastructure on-demand to address seasonal spikes in application utilization.

Specifications

**Performance**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>L7 requests per second</td>
<td>325,000</td>
</tr>
<tr>
<td>Connections per second L4/L7</td>
<td>100,000 / 100,000</td>
</tr>
<tr>
<td>Throughput L4/L7</td>
<td>10 Gbps / 10 Gbps</td>
</tr>
<tr>
<td>Maximum connections</td>
<td>10M</td>
</tr>
</tbody>
</table>

**SSL**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum SSL TPS</td>
<td>3,400</td>
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<tr>
<td>SSL throughput</td>
<td>4 Gbps</td>
</tr>
</tbody>
</table>

**Software compression**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum software compression throughput</td>
<td>4 Gbps</td>
</tr>
</tbody>
</table>

Note: Version 11.4 F5® BIG-IP® Local Traffic Manager™ (LTM) maximum performance with 8 core 16 GB memory system (Dell R620, Intel® Xeon® CPU E5-2670 @ 2.60GHz)
Supported Hypervisors and Linux Distributions

F5 offers the most flexible deployment options in the industry, with support across all major virtualization platforms for both private and public cloud.

<table>
<thead>
<tr>
<th>Hypervisor/Platform</th>
<th>VE Lab</th>
<th>VE 25M</th>
<th>VE 200M</th>
<th>VE 1G</th>
<th>VE 3G</th>
<th>VE 5G</th>
<th>VE 10G</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMware vSphere</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
<td></td>
<td>●</td>
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<tr>
<td>KVM and Community Xen</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Citrix XenServer</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<td>●</td>
</tr>
<tr>
<td>Microsoft Hyper-V</td>
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<td>●</td>
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<td>●</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amazon AWS</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

● = New in v11.4  ● = New in v11.5

- VMware ESXi 5.5, vCloud Director 5.1
- Citrix XenServer 6.2 and Community Xen 4.2
- KVM on CentOS/RHEL 6.4, Ubuntu 13.04, Debian 7.1
- Microsoft Hyper-V on Windows Server 2012 R2
- Amazon Web Services EC2

F5 BIG-IP Virtual Editions: Simplified Licensing

F5 virtual editions are available for all BIG-IP modules and can be purchased by throughput tier from the 10M non-production lab license to the 25M, 200M, 1G, 3G, 5G, and 10G production licenses.

Meeting your applications’ needs in a dynamic environment has never been easier. F5’s Good, Better, Best provides you with the flexibility to provision advanced modules on-demand, at the best value.

- Decide what solutions are right for your application’s environment with F5’s reference architectures.
- Provision the modules needed to run your applications with F5’s Good, Better, Best offerings.
- Implement complete application flexibility with the ability to deploy your modules on a virtual or physical platform.
Get Started Today

See for yourself how BIG-IP virtual editions can provide an agile, flexible, and efficient way to deploy and optimize application services.

Download the free BIG-IP LTM VE trial

Start testing how you can make your application fast, secure, and available with BIG-IP LTM VE. Download a 90-day trial of BIG-IP LTM VE now.

Get a full evaluation license

Request a free evaluation license to gain access to the latest versions of F5 virtual editions.

Try BIG-IP VEs in the AWS Cloud

Access the AWS Marketplace to try BIG-IP VEs with pay-as-you-go hourly billing.

F5 Global Services

F5 Global Services offers world-class support, training, and consulting to help you get the most from your F5 investment. Whether it’s providing fast answers to questions, training internal teams, or handling entire implementations from design to deployment, F5 Global Services can help ensure your applications are always secure, fast, and reliable. For more information about F5 Global Services, contact consulting@f5.com or visit f5.com/services.

DevCentral

The F5 DevCentral™ user community of 120,000+ members is your source for the best technical documentation, discussion forums, blogs, media, and more related to Application Delivery Networking.
More Information

To learn more about the BIG-IP family of products, visit f5.com to find these and other resources:

Datasheets
BIG-IP Local Traffic Manager
BIG-IP Global Traffic Manager
BIG-IP Advanced Firewall Manager
BIG-IP Application Security Manager
BIG-IP Access Policy Manager
BIG-IP Application Acceleration Manager
BIG-IP Carrier-Grade NAT
BIG-IP Policy Enforcement Manager

Web page
Platforms

Case Studies
Content Management Provider Helps Customers Reap Cloud Advantages
Ardenta Creates a Multi-Tenanted IT Infrastructure with F5 ADCs

White papers
Creating a Hybrid ADN Architecture with Both Virtual and Physical ADCs
BIG-IP Virtual Edition Products—The Virtual ADCs Your Application Delivery Network Has Been Missing