Migrate to the Cloud with AWS and F5

Migrate applications to AWS and retain the same level of security, reliability, and scalability you already depend on.

Slow/Complex Migration

- Architectural complexity

- Increased operational strain

- Lack of standardization
  and control

Application Security

- Native cloud architecture
  vulnerabilities

- Advanced threats

- Regulatory compliance

Visibility

- Insufficient application visibility

- Isolated analytics

- Security risk mitigation

What to Expect

Migrating to the cloud is about increasing efficiency, getting to market faster, and reducing application costs. Cloud migrations can also come with new architectural complexities—and new known and unknown risks. Attack surfaces can increase, sensitive data can require updated or new governance models, and migrating to the cloud doesn't automatically mean your application will be always on.

Success Hinges on Planning

Enterprise security, regulatory compliance, and application-specific workflow migrations require thoughtful planning. Migrating existing security and traffic management polices significantly lessens the burden of rebuilding proven solutions. Successfully migrating existing policies to the cloud reduces time and cost when you can choose the same solutions for your on-premises and cloud applications.

The goal? To accelerate and simplify your cloud migration by using consistent security and app services across the enterprise while leveraging the skills of teams who already keep the business running smoothly.

Take Trusted Services to AWS

The same F5® BIG-IP® services relied on by thousands of enterprises are available on AWS. Migrate existing services, polices, and profiles for a rapid cloud migration strategy. F5's advanced application and security services offer a highly effective way to secure, scale, and simplify application solutions for your AWS migration strategy. Similarly, the same F5 NGINX services relied on to power over 400M web sites can be moved onto AWS from a traditional on-premises design. In addition, NGINX provides a path to modernization along with migration.

- Streamlines migration through reusable policies and automated services

- Provides extensive options across cloud providers, solutions and partners

- Complements cloud-native services with app security and intelligent traffic management across hybrid environments

Deploying F5 Solutions on AWS

F5 technology compliments AWS's cloud architecture by offering deep security and advanced traffic management solutions.

F5 technology modules make up the AWS migration solution and can run as separate instances or all on the same instance. They're available on F5® BIG-IP® Virtual Edition (VE) virtual machines, running in public and private clouds. Bringing together existing infrastructure with F5 and AWS, hybrid cloud solutions ensure consistent application and security services across traditional and cloud environments—helping minimize the operational complexity and maintenance overhead caused by independent technology systems. F5 offers these solutions in packages to support deployments ranging from small-to-medium to very large enterprises.

F5® BIG-IP® Local Traffic Manager™ (LTM) provides load balancing, persistent session states, TLS, and all other advanced traffic management capabilities.

F5® Advanced Web Application Firewall™ (Advanced WAF) provides best in-class protection from cloud application exposure and attacks.

F5® NGINX Plus provides enterprise features such as advanced application load balancing, SSL termination, and monitoring. Trusted by the largest sites in the world and integrated with AWS services, NGINX Plus delivers your applications with more control and less complexity in AWS regions worldwide.

F5's event-driven scripting language, F5® iRules®, provides enhanced flexibility to manage application traffic and customize the functionality of the BIG-IP systems.

As an integral component of F5® Automation Toolchain, F5® Application Services 3 Extension (AS3) gives application owners and DevOps engineers flexible, low-overhead access for managing application-specific configurations of BIG-IP. Combined with the controls of iRules, you can tailor your BIG-IP solutions to meet any CI/CD cloud application needs.

The F5 AWS Cloud Migration Solution is available in a flexible package to suit any migration or hybrid deployment to the cloud.

Migration process and best practices validated by both F5 and AWS Architects

- BIG-IP Migration Pattern

- BIG-IP Migration Guide

F5 AWS Migration Solution Use Cases

Quickly and Securely Migrate Your Applications to AWS with F5 Solutions

SIMPLIFY MIGRATIONS BY USING EXISTING SOLUTIONS

F5 BIG-IP Platform

One way to simplify is to leverage existing policies and deployment guides with F5 iRules, REST APIs, and Cloud Solution Templates. F5 also offers a quicker way to migrate using tested and validated solutions through deployment guides, Cloud Solution Templates, and Automation Toolchain.
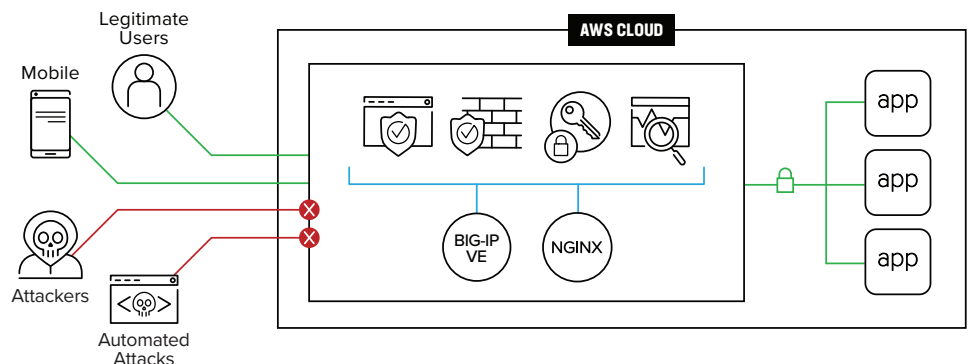
Figure 1: Streamline migration through reusable policies, automated services, and intelligent traffic management across hybrid environments.
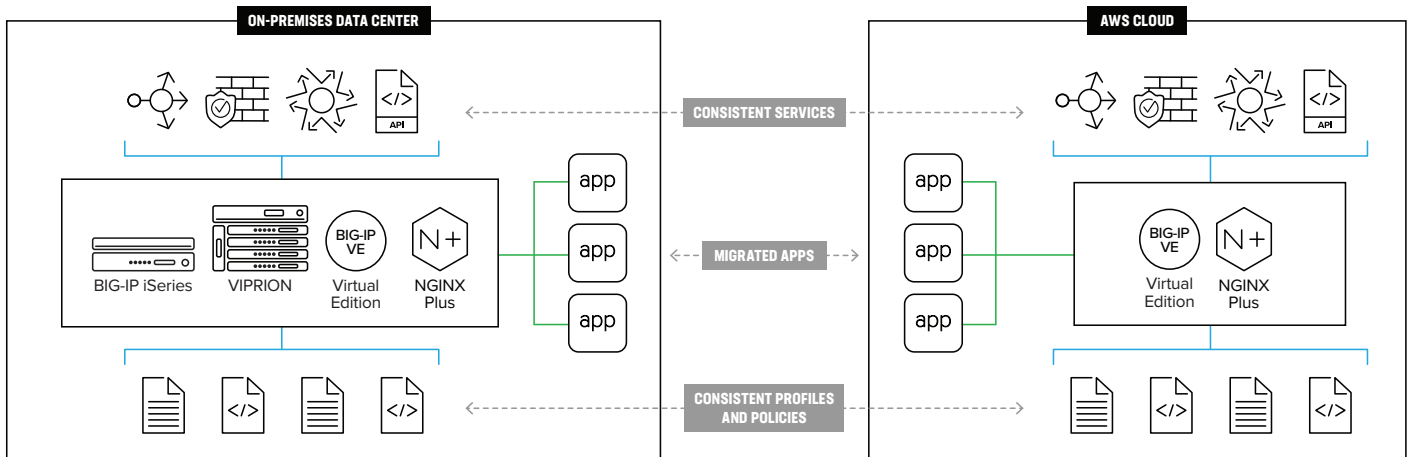
ADVANCED APPLICATION SECURITY

F5 Advanced WAF or NGINX App Protect

Reduce risk while maintaining compliance and control with F5 Advanced WAF. Replicate on-premises security policies in the cloud, including consistent cross-environment visibility into app performance.

Figure 2: Protect your applications in the cloud from incoming threats, including sophisticated phishing and bot attacks.

Why F5 for Your AWS Migration?

F5 technology provides an adaptable and agile hybrid or cloud-agnostic application service architecture for your AWS deployments. This allows organizations to ensure quality of service and manageability, apply enterprise-wide business policies and rules to content delivery, support increasing traffic volumes, deliver applications securely, enjoy operational efficiency and cost control, and remain flexible to future application and infrastructure changes. The result is elegant and powerful solutions to protect you from security threats, network failures and traffic congestion, while providing an optimized architecture for the future.

Promotional Credits

Purchase BIG-IP VE / NGINX on AWS Marketplace (or ELA) and you'll receive AWS credits up to $25,000 based on the number of annual subscriptions you procure. Promotional credits subject to change. Talk to your local F5 representative or channel partner for more details.

F5 BIG-IP VE / NGINX Subscriptions	AWS Credit
2-3	$5,000
4-9s	$15,000
10+	$25,000

To learn more, please contact us or visit www.f5.com/aws.