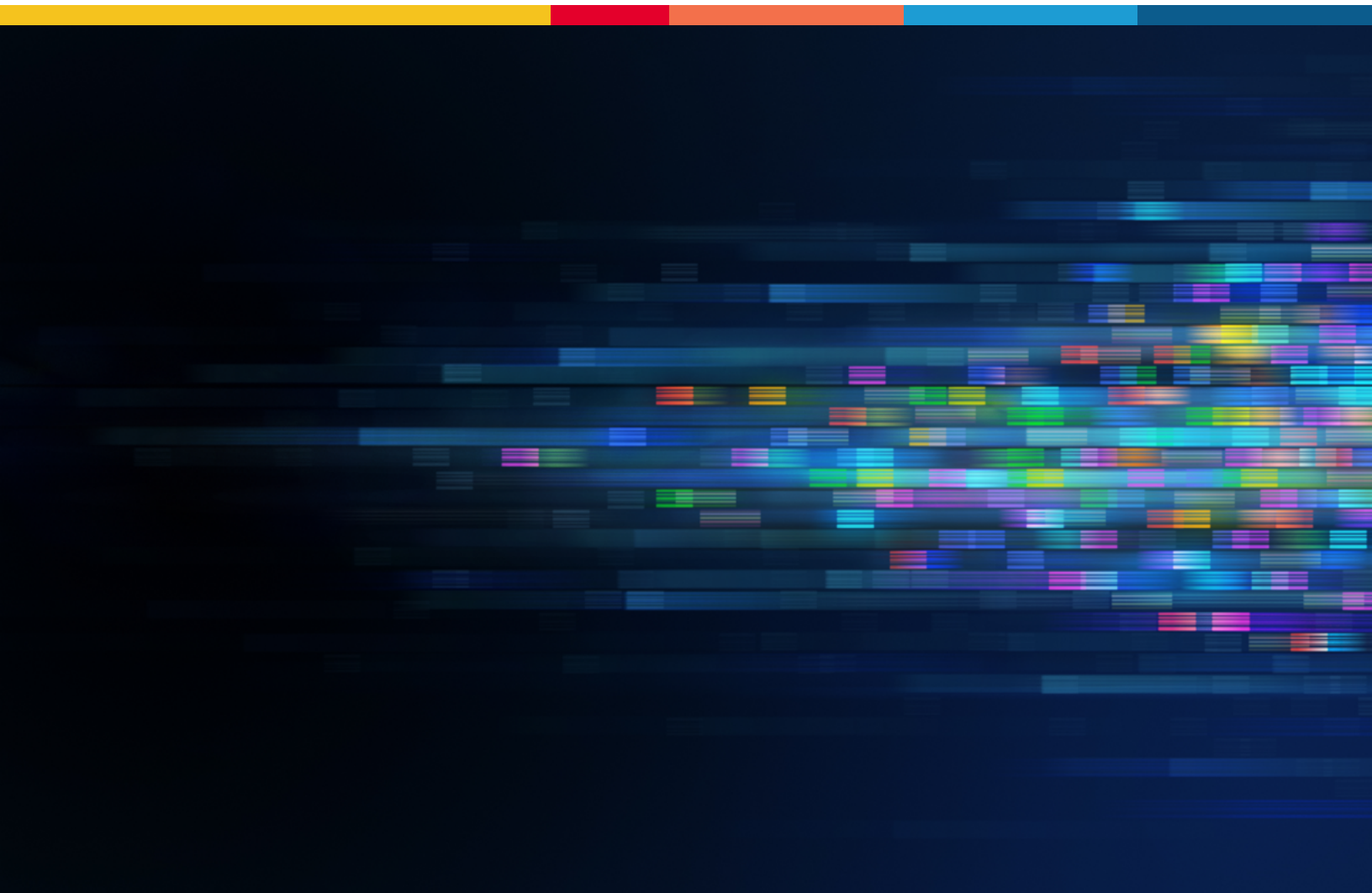




F5 and AppViewX ADC+ Integration

A single platform for comprehensive control of application services

March 2023



ABOUT THE SOLUTION

AppViewX ADC+ delivers one platform to control, manage, secure and enforce compliance for all your F5 BIG-IP and F5 NGINX application platform devices and services.

Orchestrating Application Services, Everywhere

Turbocharge your application delivery with AppViewX® ADC+®, a centralized, self-service management solution that provides intelligent orchestration and out-of-the-box automation workflows to ensure application access, availability and security.

AppViewX ADC+ offers a single interface to orchestrate:

- F5® BIG-IP® and F5 NGINX® Application Platform configurations
- ITSM, DDI, WAF, SSL, and other systems such as F5 Big-IQ®, Red Hat® Ansible®, HashiCorp® Terraform®, Jenkins® CI/CD, and more
- Hybrid multi-cloud infrastructure
- Security, risk and compliance policies, and more

F5 NGINX is a suite of commercial products that deliver enterprise capabilities to NGINX Open Source. With one platform to control, manage, secure and enforce compliance for all your BIG-IP and NGINX devices and services, operators are better able to maintain application access, availability and security across distributed infrastructure.

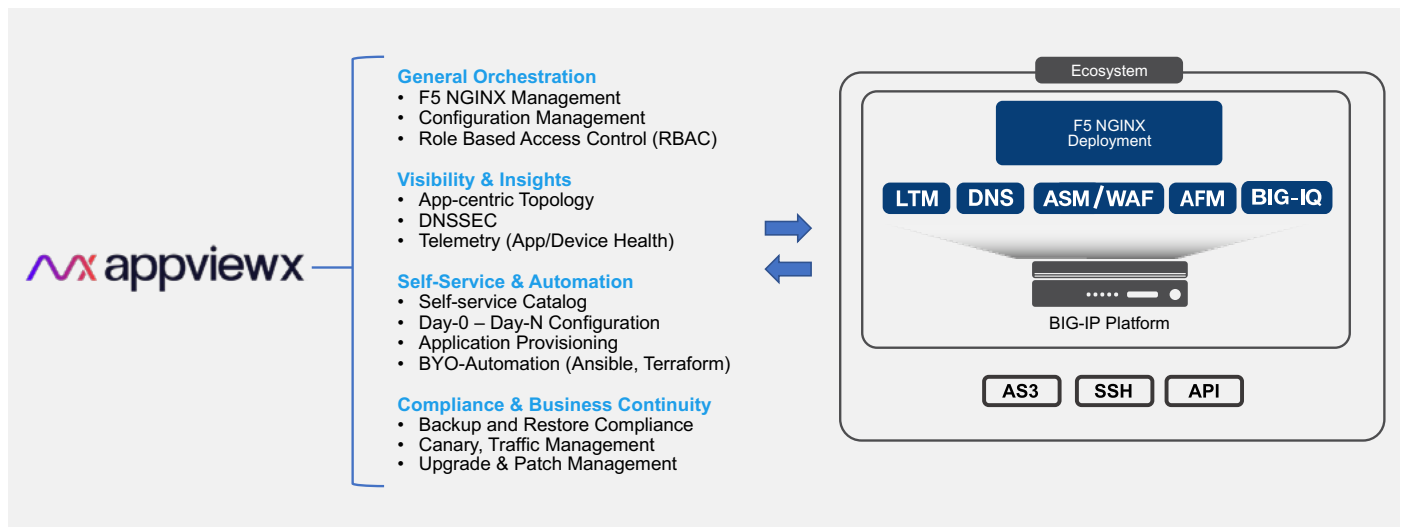


Figure 1: Automate, orchestrate and self-service your BIG-IP and NGINX solutions across hybrid multi-cloud application delivery infrastructure.

APPLICATION DELIVERY PERFORMANCE

NetOps, DevOps, and SecOps teams can centrally manage, provision, and configure BIG-IP and NGINX devices, including gaining essential visibility and control of traffic management, application availability and infrastructure configuration.

APP-CENTRIC VISIBILITY AND INSIGHTS

With application-centric visibility and object-level access control across hybrid infrastructures, operators are empowered to configure, deploy, and provision changes that are necessary to ensure application health, performance and security.

AUTOMATION AND ORCHESTRATION

Self-serviceable out-of-the-box workflows enable cross-functional teams to automate and orchestrate Day 0, 1, 2 and N application and infrastructure changes with one-touch provisioning from a single interface.

SECURITY AND RISK MITIGATION

AppViewX ADC+ gives operators one place to discover, monitor and remediate security flaws caused by policy violations, certificate expirations or misconfigurations. This enables users to stay on top of the latest updates for applications, systems, and devices to help prevent major network security breaches.

CENTRAL CONTROL
+ SELF-SERVICE
+ WORKFLOWS
= 95% AUTOMATION

Why F5 and AppViewX

Growth in the use of applications and services, along with the shift towards remote workers and increasingly mobile customers, is only made possible by automated processes and workflow orchestration. Manual processes simply are not able to continuously improve network and application access, availability and security to meet the needs of today's users. To support the speed, agility, and security that is required to deliver and support their applications, enterprises need a centralized orchestration solution for their application services. Together, F5 and AppViewX deliver precisely that, in a comprehensive solution that enables NetDevSecOps teams to self-service tasks and automate processes at scale.

AppViewX ADC+ enables F5 users to:

- Centrally manage F5 BIG-IP Local Traffic Manager™ (LTM), DNS, Application Security Manager™ (ASM), and Advanced Firewall Manager™ (AFM) modules
- Self-service up to 95% of F5 changes across the hybrid infrastructure with ITSM, DDI, WAF, and TSL/SSL integration
- Create baseline policies and automate infrastructure configuration change reviews and approvals
- Minimize security risks and meet compliance requirements with app-centric visibility and role-based access control
- Get the most out of their [F5 BIG-IQ™ Centralized Management](#) platform

Use Cases: Turbocharge Your BIG-IP and NGINX Solutions with AppViewX

Gain full visibility and control over your application delivery and security across hybrid/multi-cloud infrastructure in order to solve the following critical challenges, and much more.

[Watch the video](#)

USE CASE 1: APP-CENTRIC VISIBILITY

Operating a complex application delivery architecture across hybrid/multi-cloud network environments introduces a range of application access and availability challenges and security risks. To counter these challenges, AppViewX ADC+ provides a simplified, comprehensive view of your application topology with app-centric monitoring and visibility into the state, health, security, and performance of application services. As a result, users avoid downtime and prevent outages.

Example: LOAD BALANCER AS A SERVICE — To ensure maximum application reliability and availability, monitor key details of your NGINX ADCs, including connection status, configuration changes (made by whom), capacity, and performance.

[Download the white paper](#)

USE CASE 2: CENTRALIZED MANAGEMENT AND CONTROL

Without a unified and centralized console that encompasses management, self-service, automation, governance and visibility across diverse operating environments, often with hundreds of ADCs, operators are left in the dark. AppViewX ADC+ enables NetDevSecOps to centrally manage all ADC devices with a GUI-based RBAC-enabled dashboard that also proactively alerts operators of any problems and offers in-depth, detailed reports for a range of uses. As a result, users are able to quickly deploy multi-device policy updates, institutionalize best practices, tighten security with in-depth L4–L7 insights, and optimize systems to avoid issues before they affect applications.

Example: SELF-SERVICEABLE TRAFFIC MANAGEMENT OF F5 APPLICATION SERVICES — Get app-centric visibility and self-service capabilities for NetDevSecOps and App teams to manage application services with granular RBAC. You'll enjoy direct routes to high availability, easy provisioning, and improved uptime. [Visit the solution page](#)

USE CASE 3: CONFIGURATION COMPLIANCE

Operators are often challenged by the need to manage and enforce a range of network and security policies across diverse operating environments while delivering services at scale and complying with any number of mandates. AppViewX ADC+ delivers golden configuration workflows (with compliance alerts) to help eliminate misconfigurations and ensure application

availability, security and compliance. By helping accelerate the automation of application services and policy enforcement across hybrid/multi-cloud architectures, this solution can drive a 95% reduction of manual work and ensures faster and adaptive compliance across the entire apps portfolio.

Example: F5 GOLDEN CONFIG COMPLIANCE — Perform golden configuration checks and enforce configuration policies on all types of BIG-IP devices. [Watch the video](#) or [download the infographic](#)

Example: F5 CVE REPORTING — To reduce risk and ensure compliance, users can monitor, mitigate, and generate reports on application security vulnerabilities. [Watch the video](#)

USE CASE 4: AUTOMATED WORKFLOWS

The process of resolving millions of ADC configuration change requests submitted by multiple teams can be slow and time-consuming, and ultimately can delay application delivery or even become a security risk. AppViewX ADC+ includes an embedded service catalog that empowers app teams to automate millions of standard tasks. Self-service, zero-touch provisioning closes the door on human-induced errors, thereby reducing total cost of ownership (TCO) and improving time to value (TTV).

Example: WAF AUTOMATION — Your firewall rules either work perfectly, or you're losing money. By automating your defenses against known and unknown vulnerabilities, you can stay ahead of the latest attacks and protect your applications and data. [Learn more](#)

Example: DEVICE CERTIFICATE AUTOMATION — Automate certificate allocation/deallocation across network devices. [Download the white paper](#)

Example: AUTOMATE DELETION OF F5 APPLICATION SERVICES (ONE-TOUCH) — Decommission inactive F5 BIG-IP services and deliver significant cost savings.

Example: F5 IRULE® AUTOMATION — Run various automation workflows around iRules to provide a better, faster way to protect against vulnerabilities such as Log4J, etc. [Watch the video](#)

Example: DECLARATIVE AUTOMATION OF F5 LTM SERVICES VIA YAML — Close the gap between infrastructure, network and security teams and provide zero-touch provisioning of F5 VEs (On Hyper-V and Cloud).

Example: CLOUD SERVICES AUTOMATION — Move fast and stay safe by automating cloud services, including DNS by AWS, Amazon Route 53, BIG-IP DNS, and more.

USE CASE 5: ORCHESTRATION

The ubiquity of multi-vendor ecosystems and the prevalence for cross-functional teams to fall out of alignment somewhere along the application delivery chain rightly gives rise to

concerns around compatibility, security and compliance. AppViewX ADC+ adheres to an API-first orchestration approach to engage with a multitude of application delivery ecosystem providers. It is a true orchestrator of orchestrators, capable of integrating any given application ecosystem with Source Control Management (SCM), SDK, DevOps, Terraform, Red Hat Ansible, Red Hat OpenShift, ITSM, ChatOps, and more—all to accelerate and automate the onboarding and application delivery process.

Example: F5 CHANGE AUTOMATION WITH ITSM — Orchestrate ITSM and streamline service request changes across cross-functional teams and application delivery infrastructure.

Example: F5 GITOPS ORCHESTRATION — Simplify GITOps orchestration with GitLab, GitHub, and Atlassian Bitbucket to streamline your application delivery.

Example: API ORCHESTRATION OF APPLICATION SERVICES — API-first orchestration of application, DDI, and security services helps to improve application performance, security, and compliance, enabling operators to automate network access control decisions based on application behavior.

USE CASE 6: RAPID UPGRADE AND MIGRATION

The upgrade or migration process across a hybrid environment can be costly and time-consuming. AppViewX ADC+ provides workflows to upgrade and migrate ADCs by way of a single console with Canary/Blue-Green Deployment capabilities for multi-cloud/hybrid infrastructure. This enables operators to quickly automate and modernize network infrastructure for both greenfield and brownfield projects, with error-free deployments across L4-L7 layers.

Example: F5 DEVICE UPGRADES — Perform and validate a seamless patch or version upgrade to multiple F5 and/or NGINX devices (including BIG-IP VE or hardware) in parallel and with minimum downtime. [Watch the video](#) or [download the white paper](#)

Example: LEGACY ADC TO F5 MIGRATION — Simplify migration to modern F5 and NGINX from various legacy ADCs with easy-to-run, automated workflows.

Example: CANARY-BASED DEPLOYMENT — Move beyond complex, script-based application deployment tools and instead automate A/B testing using ADC+ Canary deployment workflow—no scripts or batch files required. [Watch the video](#) or [download the infographic](#)

Example: BLUE-GREEN BASED DEPLOYMENT — Manage geographically dispersed servers across identical production environments. [Watch the video](#) or [download the infographic](#)

USE CASE 7: SELF-SERVICE

Keeping up with a DevOps CI/CD pipeline capable of producing millions of change requests is exhausting, error-prone and costly. AppViewX ADC+ offers self-service forms for DevOps,

NetOps, and SecOps teams to automatically resolve repeatable requests, including: automating L4-L7 application delivery and security services such as LB/GSLB, DDI, DNS, WAF, and SSL/TLS; and reducing total time to delivery (TTD) change automation that integrates with ServiceNow, BMC Remedy, Jira, and more.

Example: BUILDING NEW LOAD BALANCING SERVICES — Application teams can now self-service F5 and NGINX provisioning for their network environment. [Watch the video](#)

Example: DDI AUTOMATION — Enhance the security, reliability and availability of enterprise applications by centrally orchestrating DNS, DHCP, and IP address management (IPAM) changes across the diverse network and cloud infrastructure. [Visit the solution page](#)

Learn More

[AppViewX ADC+ | website](#)

[Integrating F5 BIG-IP with AppViewX ADC+ | F5 blog](#)

[F5 BIG-IP Upgrade | AppViewX white paper](#)

[Orchestrate F5 BIG-IP and F5 NGINX in One Place | AppViewX white paper](#)

[Turbocharge Your Application Delivery | AppViewX white paper](#)

[ADC Lifecycle Management Platform | AppViewX solution brief](#)

