

























There's an app for (almost) everything!

EVOLVING IT LANDSCAPE AND CHALLENGES

Evolving Application Landscape



Explosion In Apps Demands Scalable Operations

- New app growth will increase 19% CAGR by 2021¹
- Enterprises have on average 200 apps² and smartphone users have more than 80 apps on their phone³



Increasing Web Application Attacks

- 36% with less than 25% of their apps protected with a WAF.²
- Web App Attacks are the #1 Source of Data Breaches (29%)⁴
- 3B Credentials Reported Stolen in 2016⁵

App Teams Require Fast Time to Market

- 40% of IT spend on apps today are based on DevOps Model⁶
- More than 70% of configuration and deployment steps are automated⁶

⁵Source: Shape 2017 Credential Spill Report

⁶Source: F5 2018 SOAD Report and 2017 State of DevOps Report

¹Source: Cisco Global Cloud Index (2016 – 2021)

²Source: F5 2018 SOAD Report

⁵Source: Techcrunch Jan 17 2018 article

Slido Survey

Does your company have DevOps or App Team?

Yes/ No / In Planning Stage



Percentage of DevOps who circumvent IT due to lack of self-service provisioning

65%

- Push-button provisioning is a requirement to satisfy today's need for speed.
- Self-service enablement was cited by 65% of DevOps as influencing their decision to 'go around' IT and seek out cloud or open source solutions.
- Avoiding IT means circumventing security, which puts the business and other systems at risk.

NetOps Needs To Collaborate With App Team

And Adapt Quickly To Automate and Deliver App Services To Internal Customers





- Fast and flexible instantiation
- Faster development & deployment
- Better alignment to capacity needs with autoscale



Development Integration and Openness

- Private and Public cloud platform support
- Deployment without deep domain expertise
- Greater automation through published REST APIs



Agility and Per-App Visibility

- Self-service deployments that conform to corporate standards
- Simplified upgrades
- App-centric performance and analytics

INTRODUCING BIG-IP CLOUD EDITION

Introducing BIG-IP Cloud Edition

Industry-Leading Application Services,

Now Easier To Use And Dedicated For Any App, Anywhere



Per-App VE

- Dedicated
- Right-sized
- Industry-Leading ADC & WAF



Enhanced BIG-IQ Management

- Per-App Analytics
- Autoscale and Multi-Cloud Presence
- Self-Service

Four Key Use Cases To Enhance Your Apps Delivery



Dedicated Services and Visibility For Apps

Easiest To Use And Operate



Cost Effective Security
Services For Next Tier
Of Apps

Best Protection For More Apps



Self-Service For App Team

Agile
App Services



AutoScale When Needed

On Demand Scalability

KEY FEATURES AND BENEFITS

Key Use Cases



Dedicated Services For Apps

Easiest To Use And Operate



Cost Effective Services For Next Tier Of Apps

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Self-Service For App Team

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AutoScale When Needed

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Deliver Dedicated F5 App Services For Each App

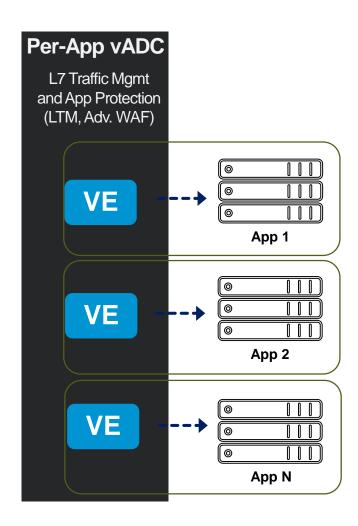
Break down barriers to deploying existing and new apps faster

Proven F5 Per-App Services For NetOps & App Teams

- Industry-leading dedicated traffic management and app protection for existing apps
- Cost effective F5 app services for the next tier of apps

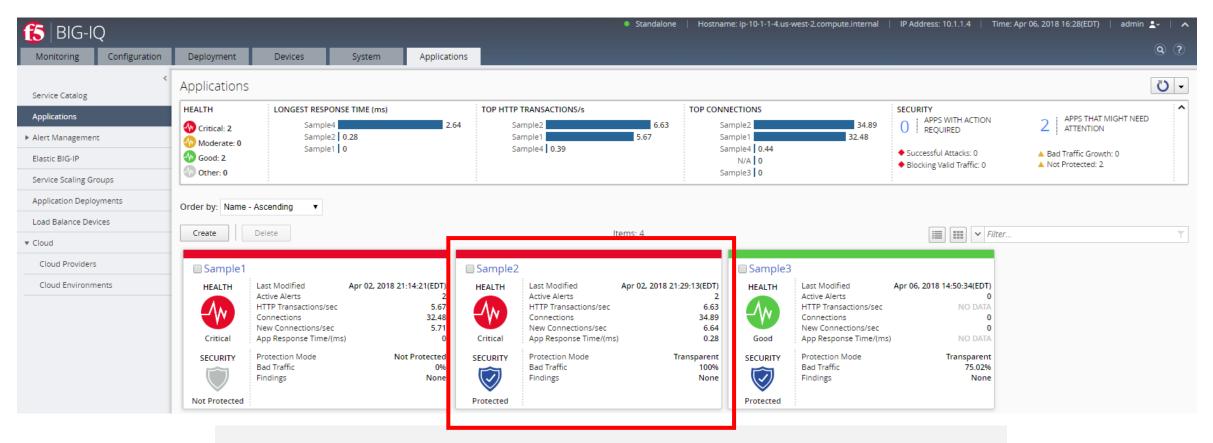
Benefits

- Right-sized to enable per app deployment of services
- Isolation of service failure reduces impacts to business operations
- Improved productivity with automated provisioning
- Advance protection for all apps



Comprehensive, Easy To View Application Dashboard

Drill Down To App Health, Key Metrics and Events/Alerts

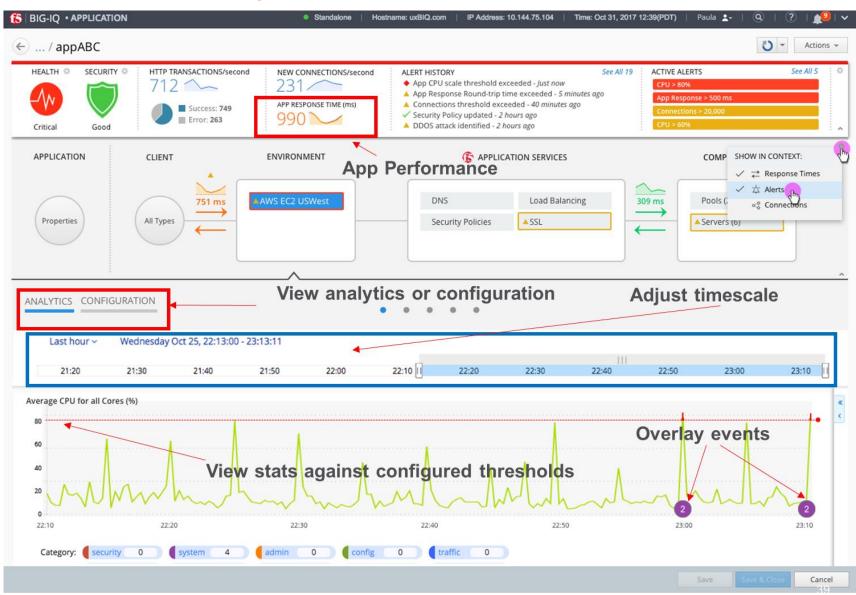


- Quick dashboard view of applications
 - Drill down to specific app
 - App health, performance stats, and security status

UI subject to change

Application Specific Analytics For App Team

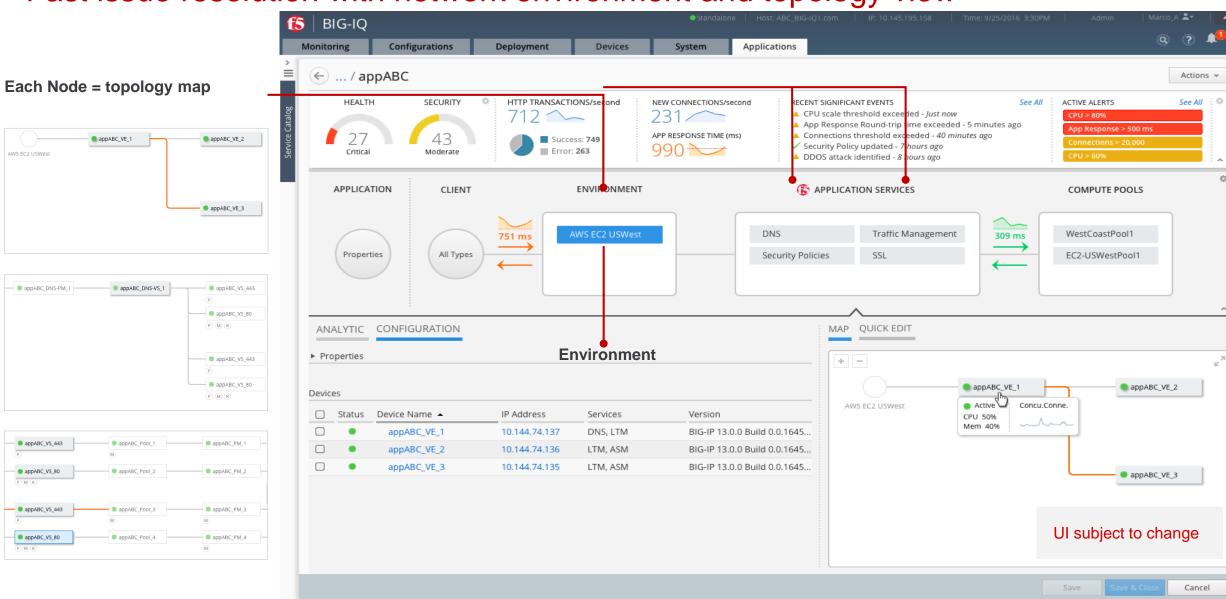
Fast issue resolution with granular per-app analytics



UI subject to change

Application Specific Analytics For NetOps Team

Fast issue resolution with network environment and topology view



Key Use Cases



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AutoScale When Needed

On Demand Scalability



Percentage of developers aware they are pushing vulnerable code into production, but are not actively doing anything about it.

IBM & Arxan | Mobile & IoT Study 2017

44%

- 28% of organizations consider the difficulty of securing applications one of their top security challenges.
- When developers move at speed, security is often sacrificed.
- Providing security 'on demand' reduces the risk of developers forgoing security entirely or turning to external, unproven solutions

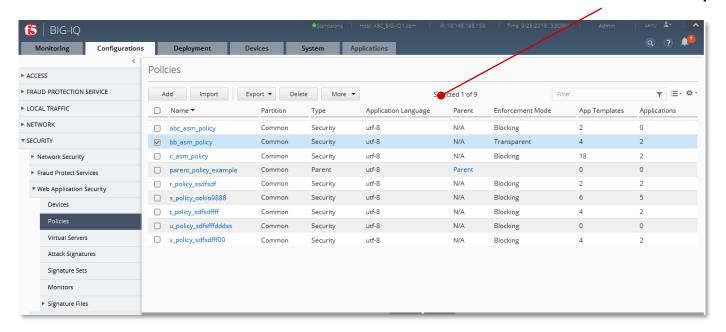
App Team Uses Approved Security Policies

NetOps/SecOps Publishes WAF Policies For Specific Apps

List of WAF policies

Deploy WAF Confidently

- Existing or new security policy is attached to app template
- WAF policy deployed automatically for each app



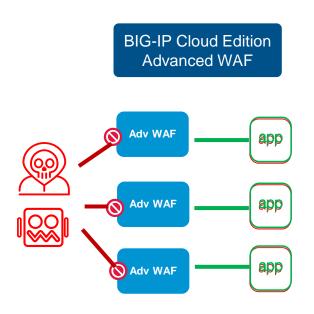


Enforces the selected WAF policy for this template

UI subject to change

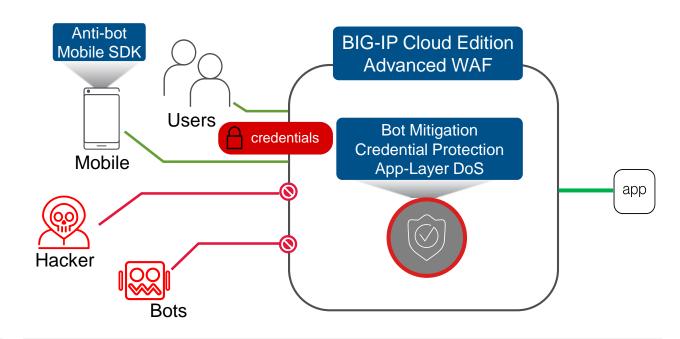
Advanced Protection For More Applications

Reduce Security Risk For All Apps



Protect All Applications

- Prevent attacks, takeover, or data exfiltration through unprotected web and mobile apps
- Stop L7 DDoS attacks that impact app performance and availability
- Centralize polices and audit logs ensure consistency for compliance reporting



Advanced Protection: Stop New, Evolving Attacks

- Only leading per-app advanced WAF to protect against sophisticated attacks
- Policy builder auto-tunes blocking for a wide range of attacks
- Proactive bot detection and mitigation
- Prevention of credential theft and stuffing

Key Use Cases









Dedicated Services For Apps

Easiest To Use

And Operate

Cost Effective Services For Next Tier Of Apps

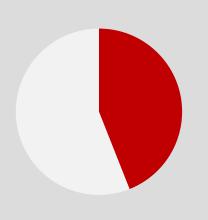
Percentage of production outages caused by upgrades and migration retection of applications For More Apps

Self-Service For App Team

> Agile **App Services**

AutoScale When Needed

> On Demand Scalability



Percentage of production outages caused by upgrades and migration of applications

51%

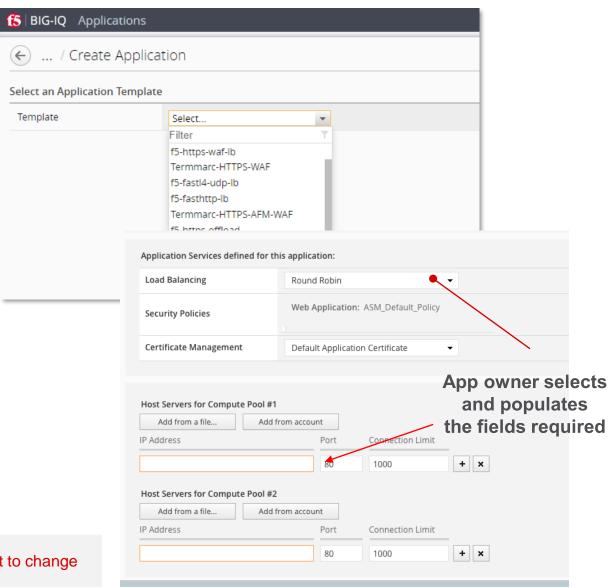
- Continuous Integration (CI) is part of the DevOps
 philosophy and requires automated testing of applications
 before delivery. Too often applications are tested in a
 vacuum, without the application services that will be used
 in production
- The average BIG-IP hosts 123 virtual servers. Customers are often reluctant to upgrade or apply patches because of the potential for disaster.

App Team Uses Simple Templates To Deploy New Apps

Self-Service Provisioning In Seconds

Pre-Built And Approved App Templates For Easy Deployment

- Catalog of templates for common deployments
- Templates based on approved policies/ configurations
- Easy deployment via GUI or single API
- No networking expertise needed



UI subject to change

Key Use Cases



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Easiest To Use And Operate



Cost Effective Services For Next Tier Of Apps

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AutoScale When Needed

On Demand Scalability In Multi Cloud Environment



Percentage of customers that requires auto scaling support in multi cloud environment

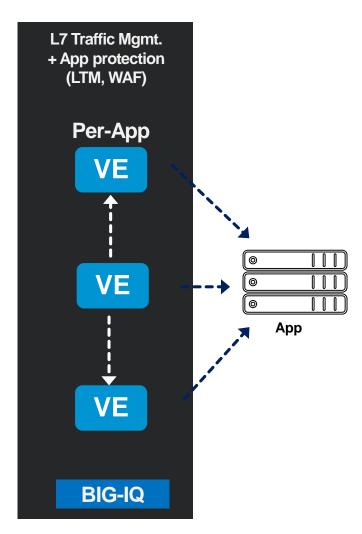
63%

- Customers often opt for resources on demand to reduce overall TCO.
- Most customers are looking for a solution that supports autoscaling in multiple environment, including private cloud, public cloud and on-premise data centres.

Highlight Autoscaling Of App Services

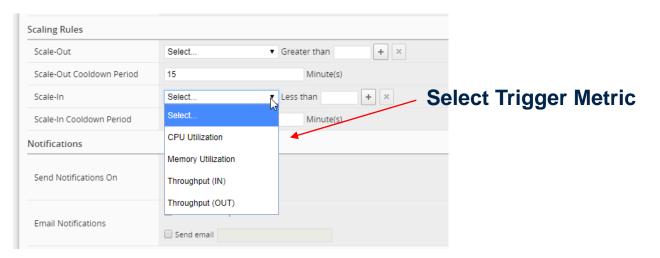
On Demand Scalability With No Need To Overprovision

- Quick response to increased load with autoscaling of app services and security
- Auto-scale based on threshold policies
- Once traffic peak subsides, additional instances are spun down



Autoscaling Of App Services

- Template-based autoscaling policies
- Trigger based on CPU, memory, throughput - in/out
- Manual scale-out for pre-planned events
- Supported in VMware and AWS*







* - Additional environments planned

BIG-IP Cloud Edition Availability In Public/Private Clouds

Providing consistent app services across cloud environments

Private Cloud















Public Cloud

⁻ Full enablement of CE lifecycle management. Other clouds planned. # - ACI Unmanaged Mode.

SUMMARY

Summary – BIG-IP Cloud Edition Delivers...

- Dedicated F5 App Services for each app
- Comprehensive, easy to view analytics for each app
- Best protection for more apps to close security gaps
- Simple app templates for app teams to deploy services in seconds
- Policy based autoscale to quickly meet capacity needs

Easy-To-Use F5 Per-App Services For Any App, Anywhere

WE MAKE APPS

