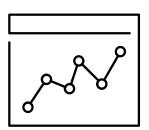


## There's an app for (almost) everything!

# EVOLVING IT LANDSCAPE AND CHALLENGES

#### **Evolving Application Landscape**



## **Explosion In Apps Demands Scalable Operations**

- New app growth will increase 19% CAGR by 2021<sup>1</sup>
- Enterprises have on average 200 apps<sup>2</sup> and smartphone users have more than 80 apps on their phone<sup>3</sup>



## Increasing Web Application Attacks

- 36% with less than 25% of their apps protected with a WAF.<sup>2</sup>
- Web App Attacks are the #1 Source of Data Breaches (29%)<sup>4</sup>
- 3B Credentials Reported Stolen in 2016<sup>5</sup>

## App Teams Require Fast Time to Market

- 40% of IT spend on apps today are based on DevOps Model<sup>6</sup>
- More than 70% of configuration and deployment steps are automated<sup>6</sup>

4Source: Verizon 2017 Data Breach Investigations Report

<sup>5</sup>Source: Shape 2017 Credential Spill Report

<sup>6</sup>Source: F5 2018 SOAD Report and 2017 State of DevOps Report

 $<sup>\</sup>stackrel{\langle }{\longleftrightarrow}$ 

<sup>&</sup>lt;sup>1</sup>Source: Cisco Global Cloud Index (2016 – 2021)

<sup>&</sup>lt;sup>2</sup>Source: F5 2018 SOAD Report

<sup>&</sup>lt;sup>5</sup>Source: Techcrunch Jan 17 2018 article

## Slido Survey

Does your company have DevOps or App Team?

Yes/ No / In Planning Stage



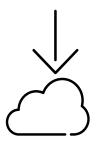
Percentage of DevOps who circumvent IT due to lack of self-service provisioning

# 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** 

**Best Protection For More Apps** 



Self-Service For App Team

Agile
App Services



AutoScale When Needed

On Demand Scalability

#### Deliver Dedicated F5 App Services For Each App

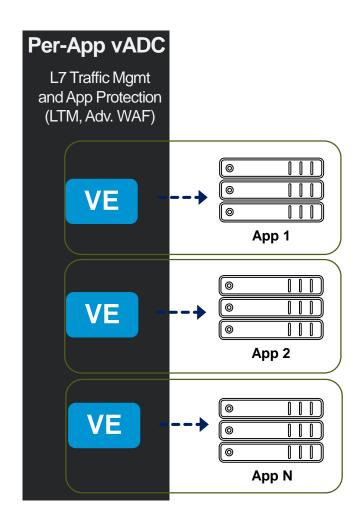
Break down barriers to deploying existing and new apps faster

#### 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

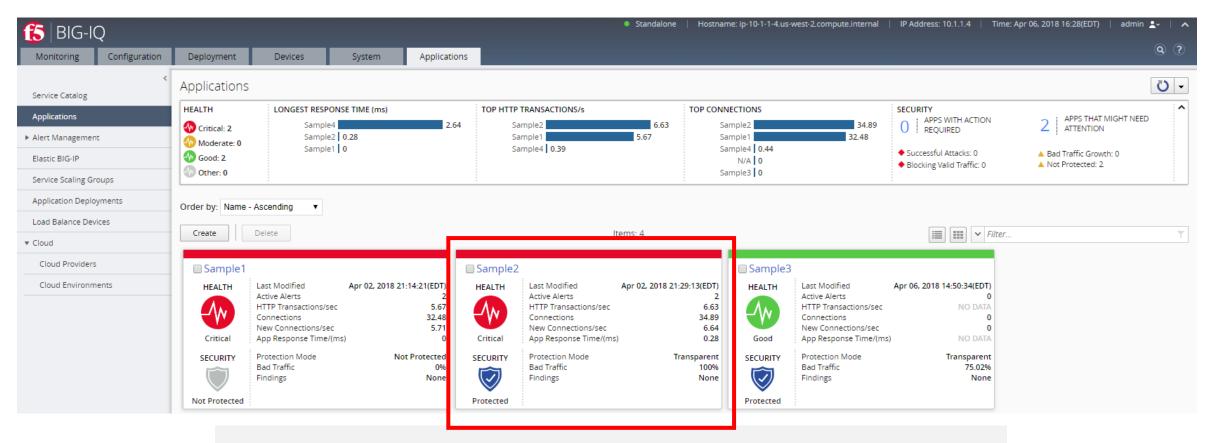
#### **Benefits**

- 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

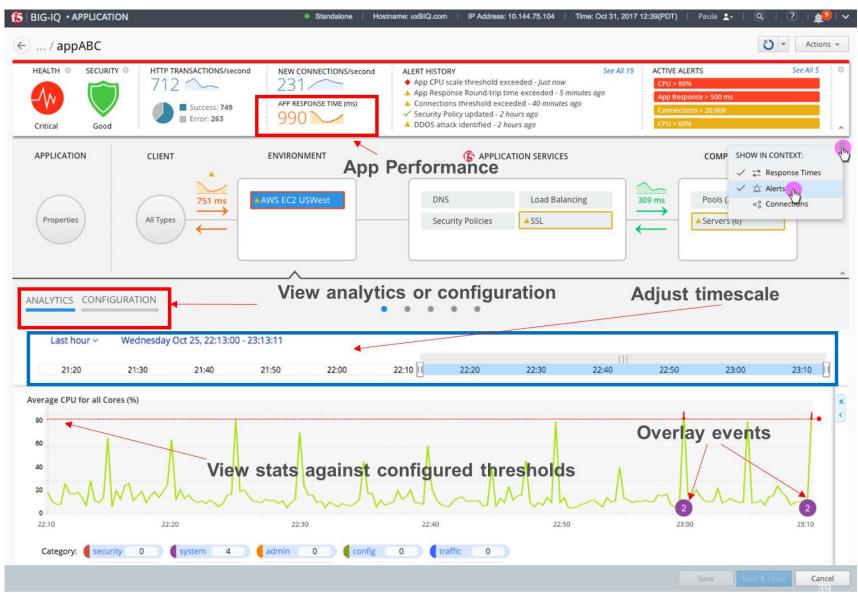


- Quick dashboard view of applications
  - Drill down to specific app
  - App health, performance stats, and security status

UI subject to change

#### **Application Specific Analytics For App Team**

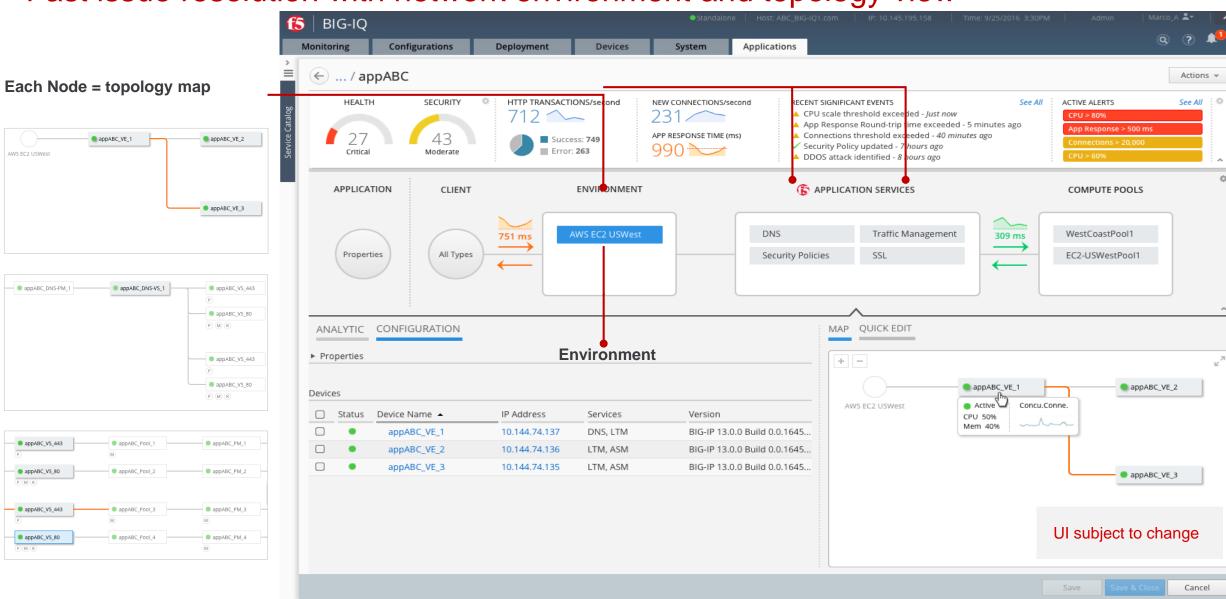
Fast issue resolution with granular per-app analytics



UI subject to change

### **Application Specific Analytics For NetOps Team**

Fast issue resolution with network environment and topology view



## **Key Use Cases**



**Dedicated Services 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



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

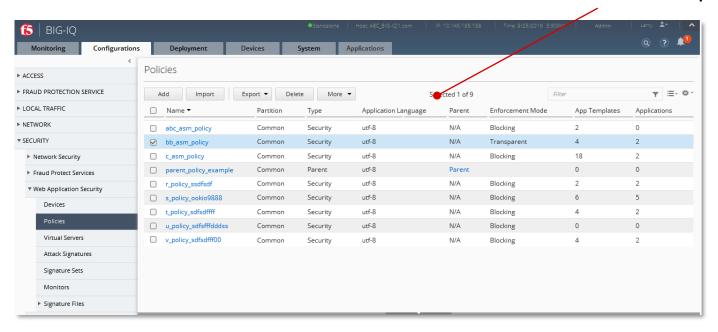
## **App Team Uses Approved Security Policies**

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



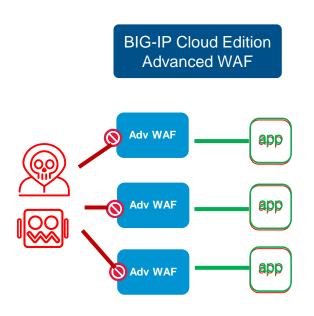


Enforces the selected WAF policy for this template

UI subject to change

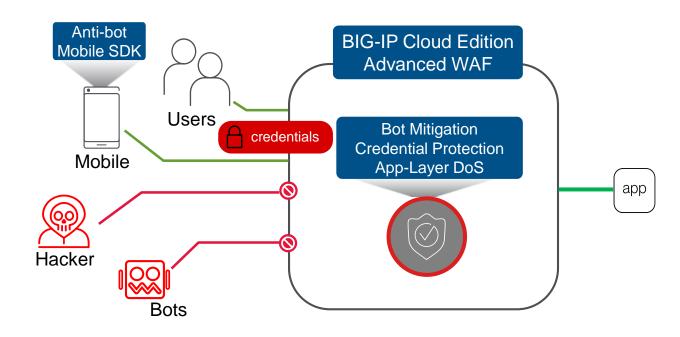
#### **Advanced Protection For More Applications**

#### 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

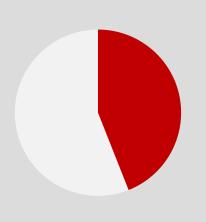
Percentage of production outages caused by upgrades and migration retection of applications For More Apps

**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%

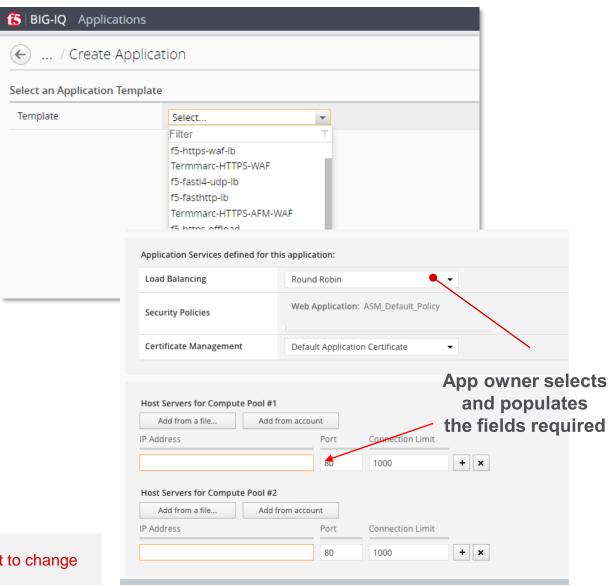
- Continuous Integration (CI) is part of the DevOps
   philosophy and requires automated testing of applications
   before delivery. Too often applications are tested in a
   vacuum, without the application services that will be used
   in production
- The average BIG-IP hosts 123 virtual servers. Customers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



Dedicated Services For Apps

Easiest To Use And Operate



**Cost Effective Services For Next Tier Of Apps** 

**Best Protection For More Apps** 



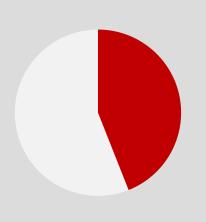
Self-Service For App Team

Agile
App Services



AutoScale When Needed

On Demand Scalability In Multi Cloud Environment



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

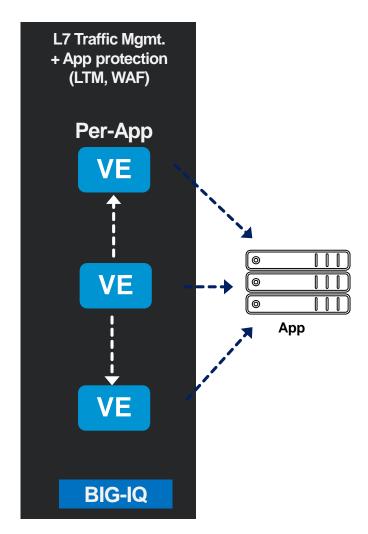
# 63%

- 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**

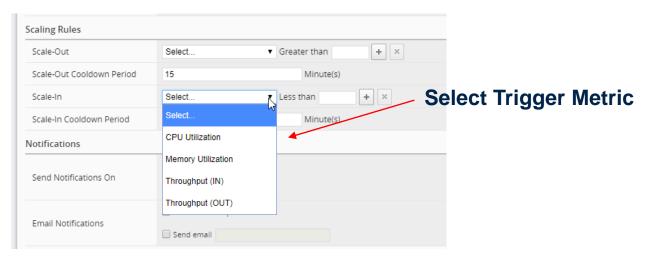
#### On Demand Scalability With No Need To Overprovision

- 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**

<sup>-</sup> 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

