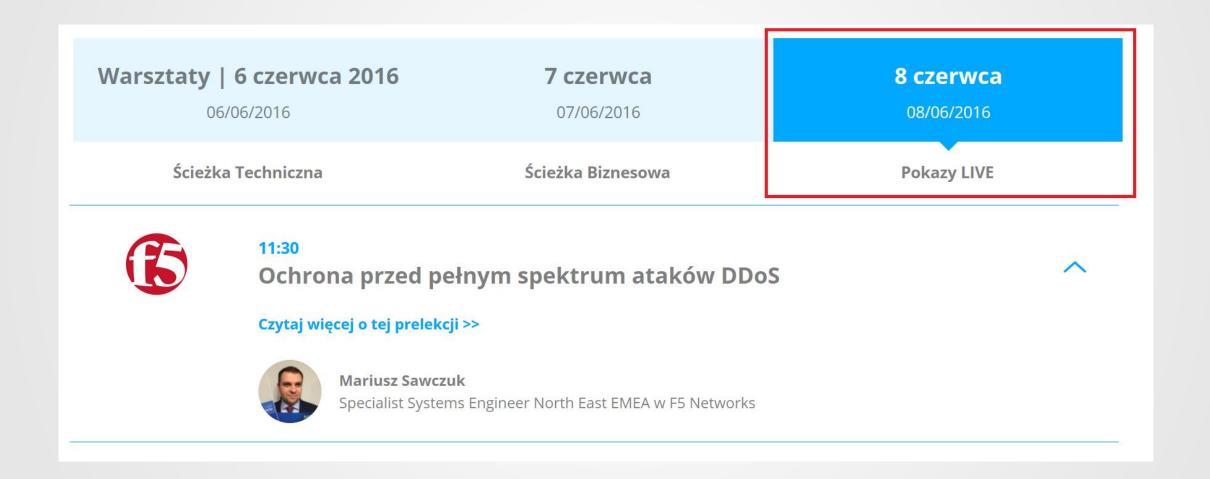


# Zarządzanie zasadami dostępu do aplikacji czyli F5 Access Policy Manager

Maciej Iwanicki, Systems Engineer

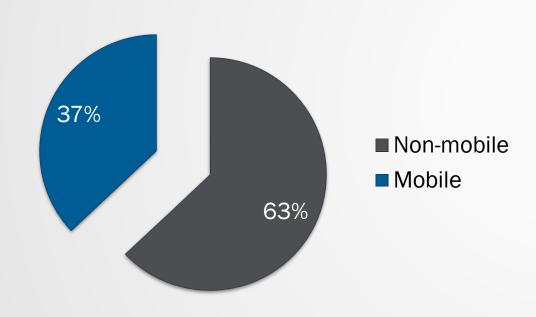
# Zapraszamy również jutro!



#### The "new norm" is a worldwide mobile workforce

#### Workforce by end of 2015

~1.3 Billion mobile workers by end of 2015





Source: Worldwide Mobile Worker Population 2011–2015 Forecast, IDC, December 2011

### Controlling and managing access more difficult than ever



Manage access based on identity

#### IT challenged to:

- Control access based on granular attributes, such as user-type and role
- Unify access to all applications (mobile, VDI, web, client-server, SaaS)
- Provide fast authentication and SSO
- Audit and report access and application metrics

# Authentication, authorization, and SSO to all apps with F5 Application Policy Manager (APM)



Context-aware policy enforcement



Scalability and performance



Access control over third-party SaaS



Simplified policy management

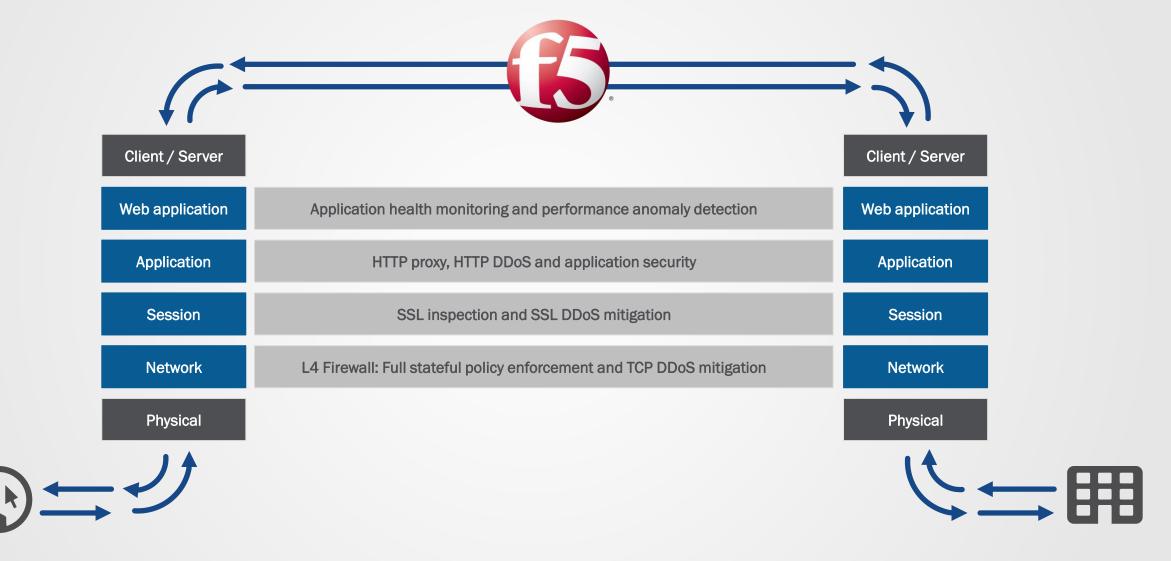
# Maintain complete visibility and control across applications and users



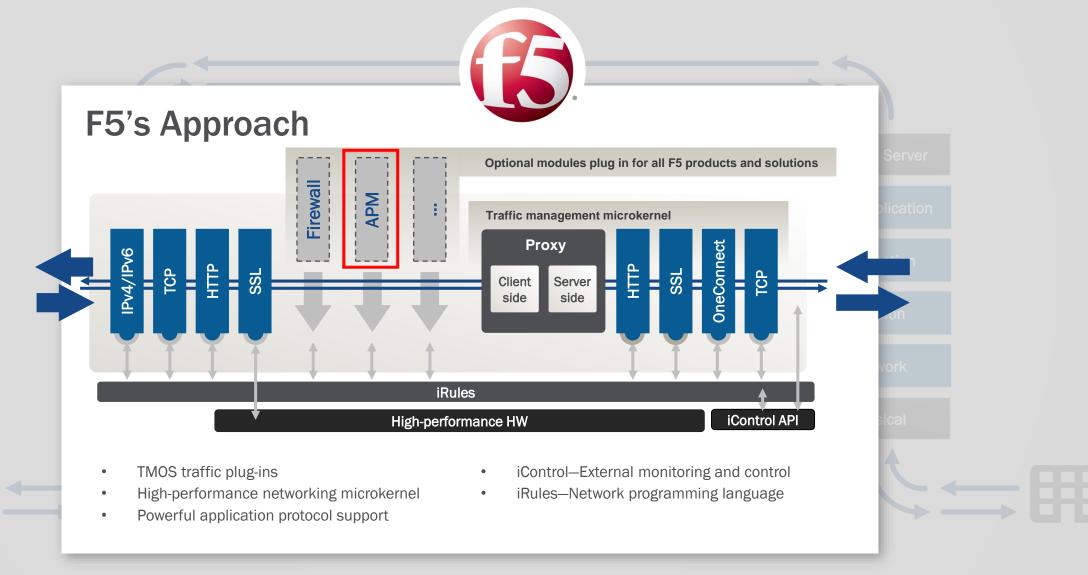
# Security at the critical point in the network



# **Full proxy security**



# **Full proxy security**

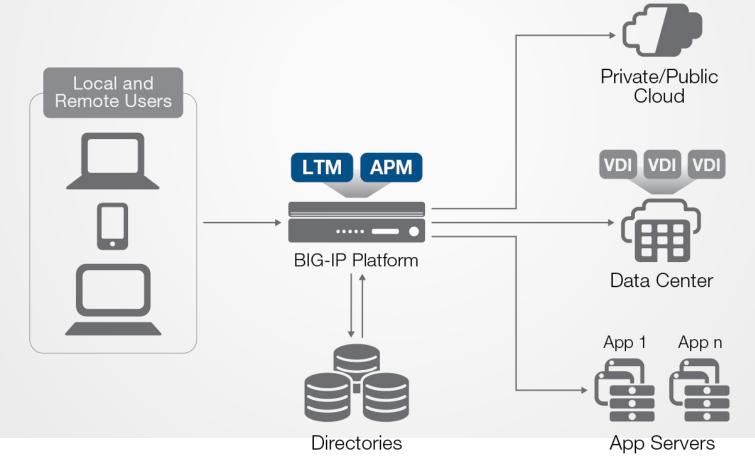


# **BIG-IP Access Policy Manager (APM)**

- Industry's most scalable access gateway
- Consolidates remote access, Web access management, enterprise mobility management, identity federation and secure web gateway in a single platform
- Protects against data loss, virus infection, and rogue device access

Replaces web access proxy tiers for common applications reducing infrastructure and management

costs



#### **BIG-IP APM**

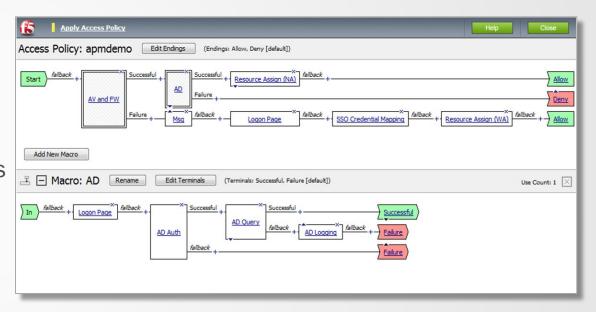
#### Unified access and control for BIG-IP

#### **Features**

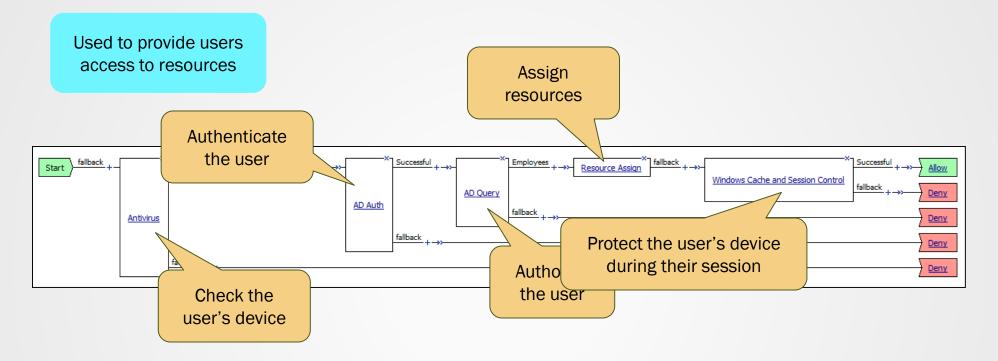
- Scales up to 2M users on a single device
- Centralizes single sign-on (SSO) and access control services
- Full proxy L4-L7 access control at BIG-IP speeds
- Adds endpoint inspection to the access policy
- Visual Policy Editor (VPE) provides policy-based access control
- VPE Rules programmatic interface for custom access policies
- Supports IPv6

#### **Benefits**

- Consolidates authentication infrastructure
- Simplifies remote, web, and application access control



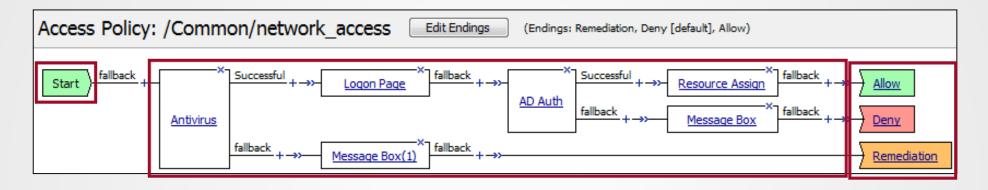
#### **Access Policies**



# Access Policy Components

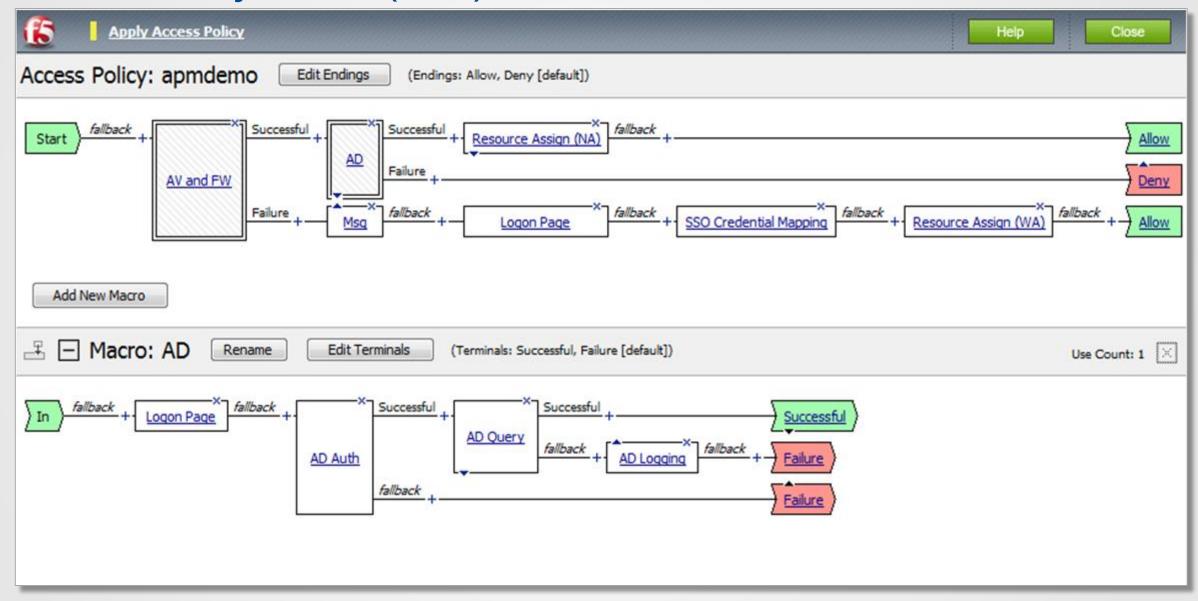
Each access policy has one starting point

An access policy can have multiple ending points

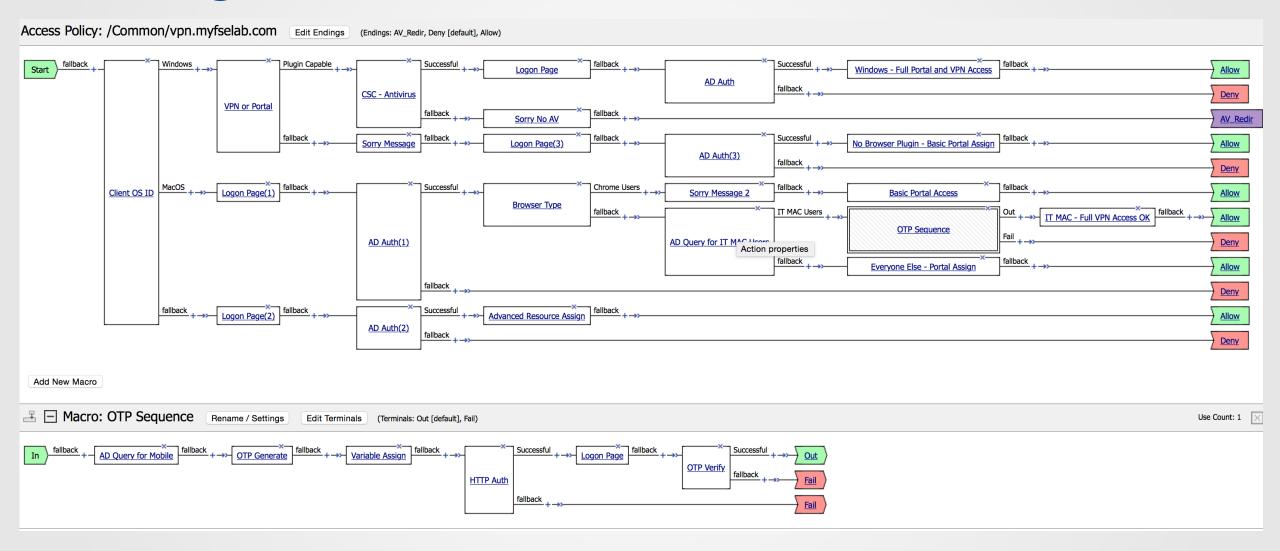


An access policy contains items and branches

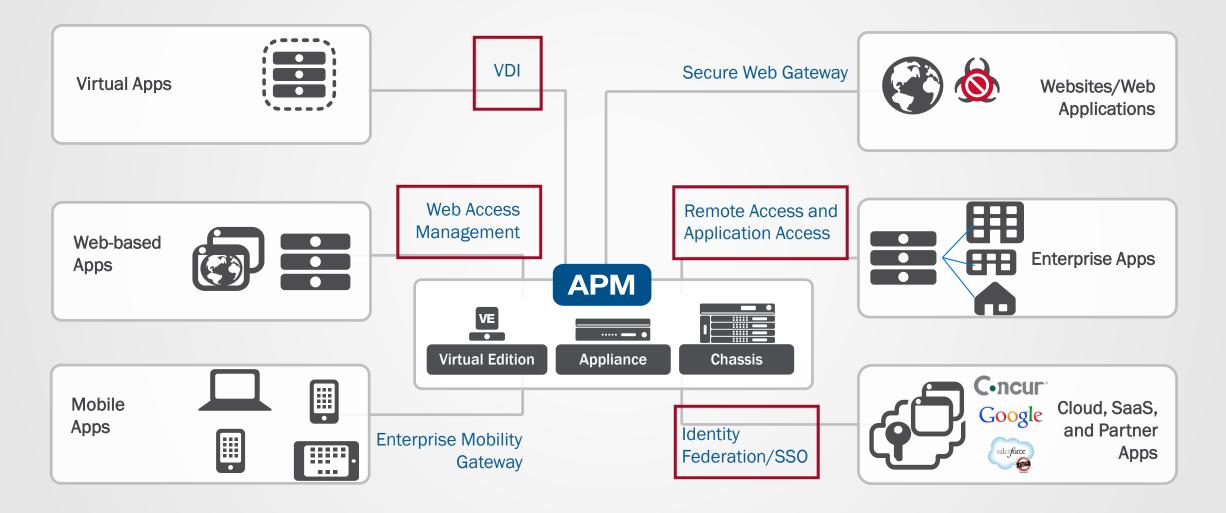
# **Visual Policy Editor (VPE)**



# **Building Access Policies with VPE**

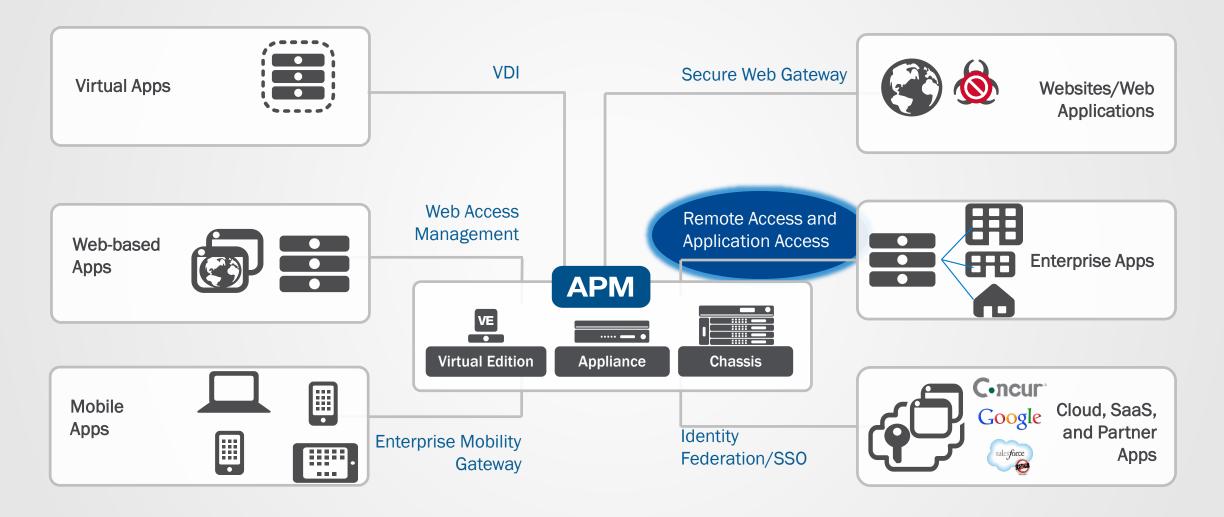


# F5 BIG-IP Access Policy Manager Drives Identity Federation, Single Sign On, and Adaptive Authentication

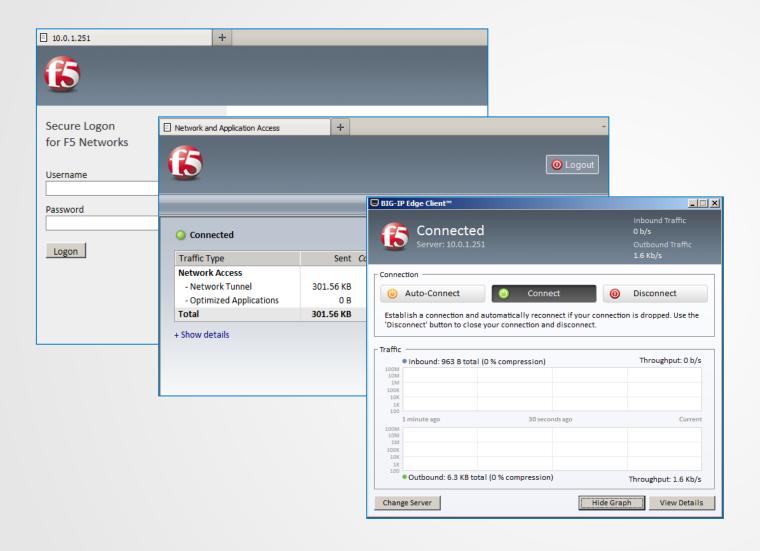


Remote Access and Application Access

# F5 BIG-IP Access Policy Manager Drives Identity Federation, Single Sign On, and Adaptive Authentication

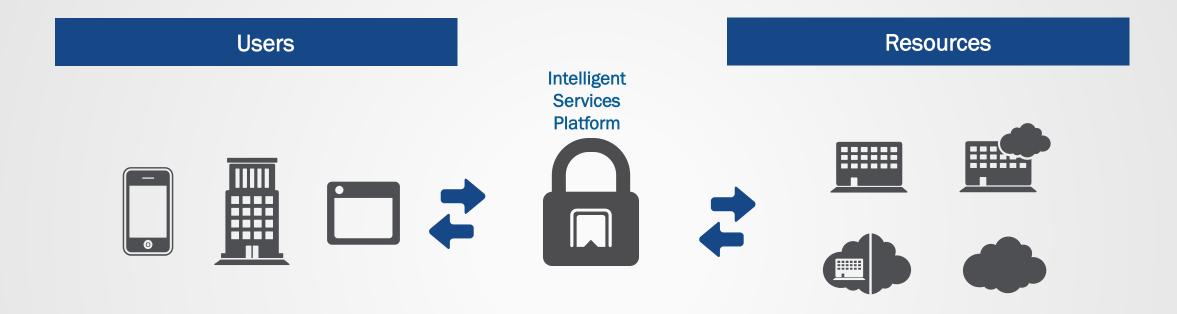


#### **APM SSL VPN**





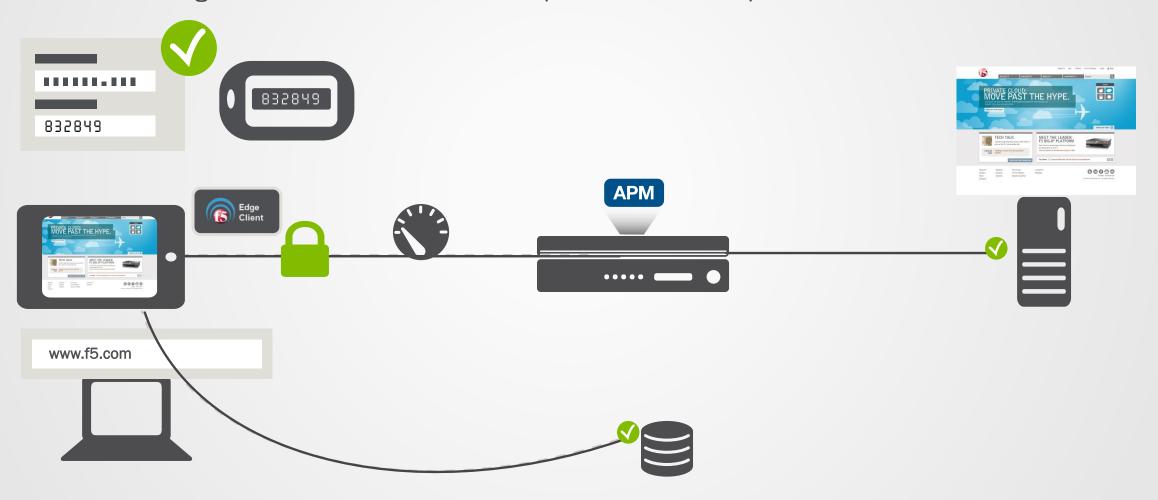
# Remote access and application access challenges



- Enabling secure remote access to corporate resources from any network, from any device
- Ensuring secure and fast application performance for remote users
- Protecting network resources, applications and data from malware, theft or hack, and/or rogue and unauthorized access

# Fast, secure remote access

- Fast and secure connections maximize productivity for global users
- Seamless integration minimizes cost and simplifies end user experience



# A Rich, Powerful Ecosystem of MFA Partners



































# **Logon Page**

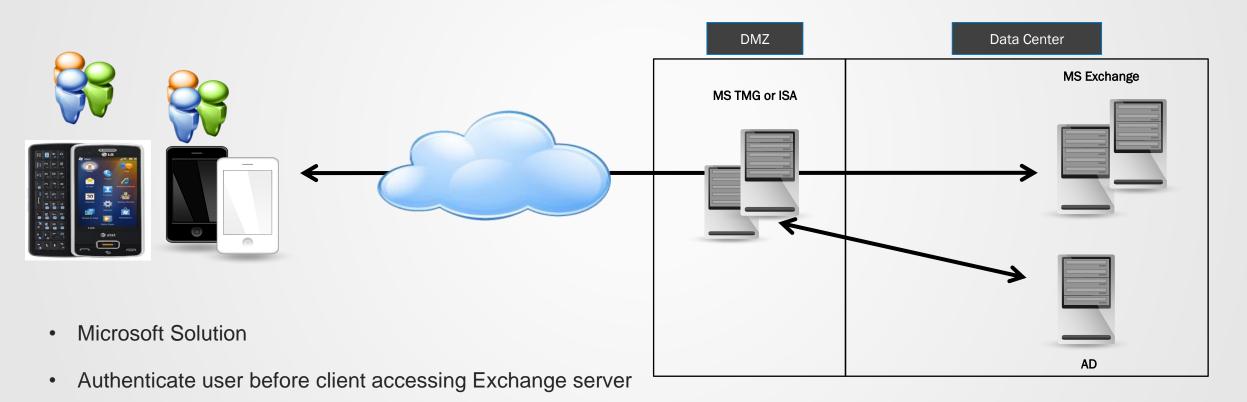
Customizable





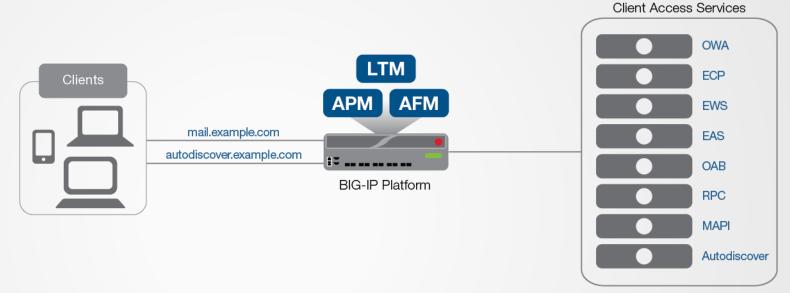


# ActiveSync, Microsoft Solution



- Exchange can verify deviceid
- AD group check and basic url filter can be implemented on TMG

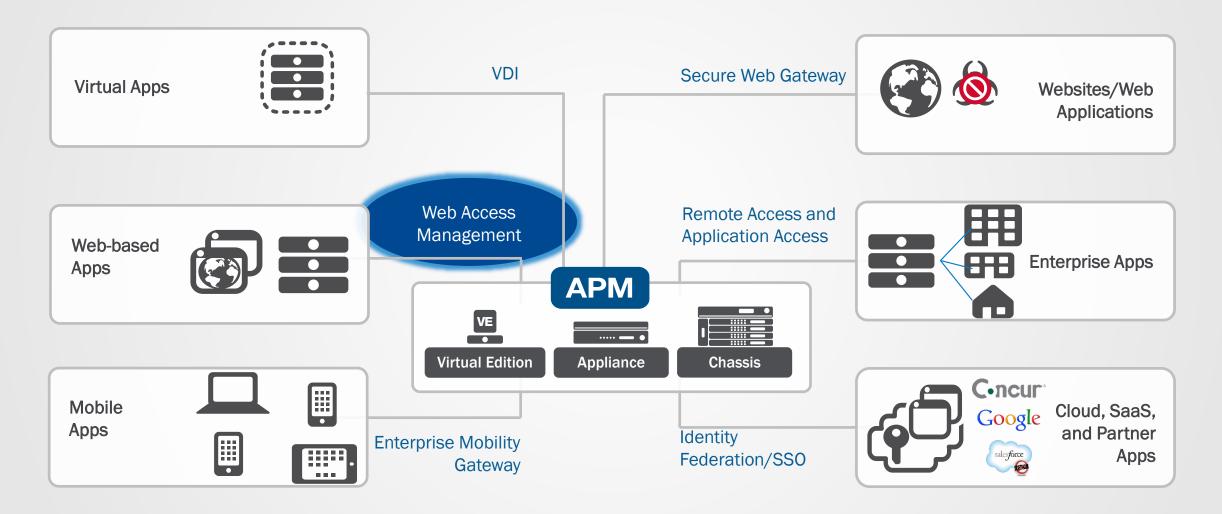
# ActiveSync, F5 BIG-IP APM Solution



- SSL Offload
- Verify and enable access based on
  - User /password, AD group membership
  - IP location, Deviceid, Devicestype, Useragent
  - Brute force detection
  - ActiveSync commands used
  - URI (allow acces request to /Microsoft-Server-Activesync)

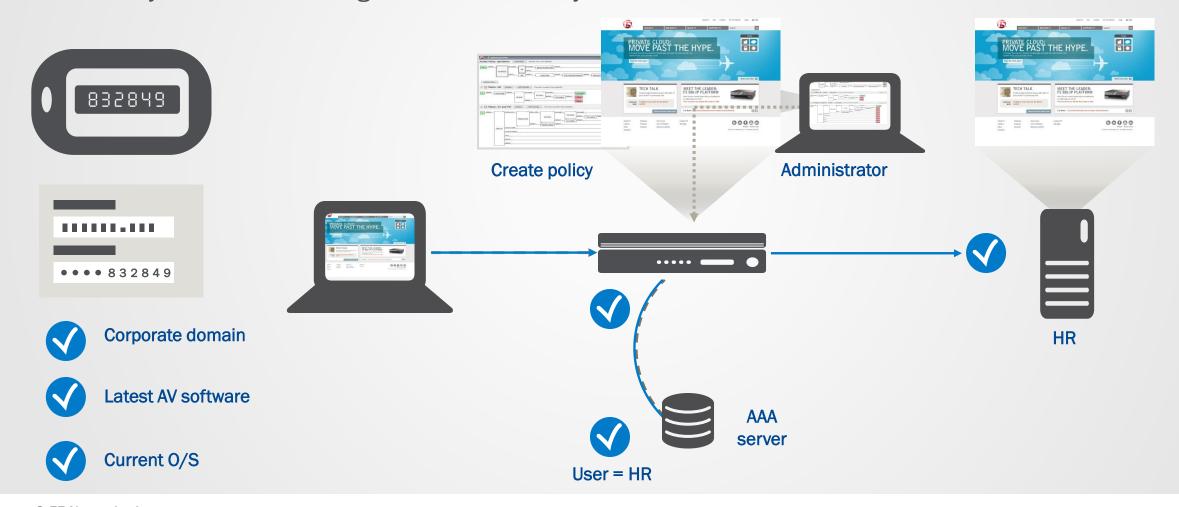


# F5 BIG-IP Access Policy Manager Drives Identity Federation, Single Sign On, and Adaptive Authentication



### **Enhanced Web Access Management**

- Proxy web applications to provide authentication, authorization, endpoint inspection, and more
- All Layer 4-7 ACLS through F5's Visual Policy Editor



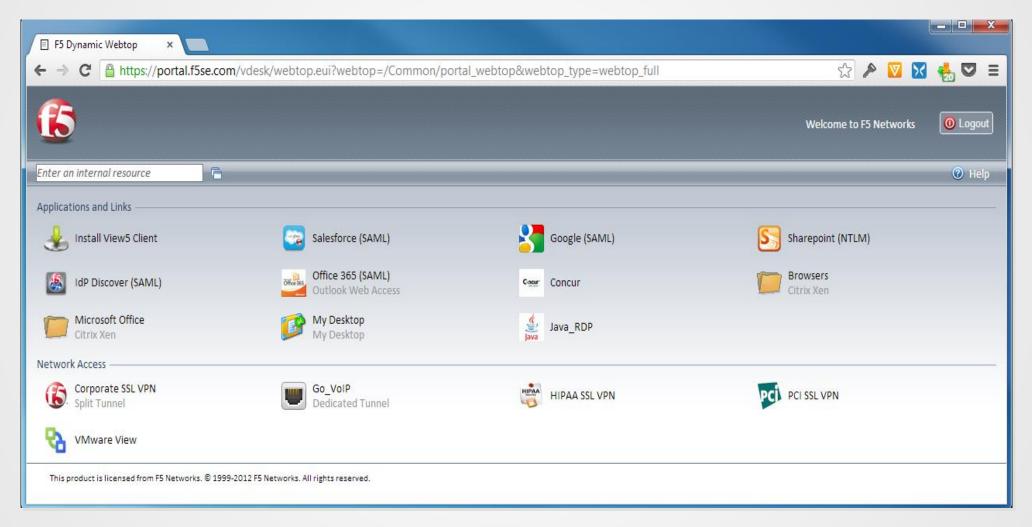
# **Application Authentication**

- Control / Authenticate a User on APM before he reaches Application
- Building Security Zones using Authentication

- Adding Authentication / one or two Factor when required
- https://www.f5.com
   → No authentication
- https://www.f5.com/intranet/
   → One Factor Authentication
- https://www.f5.com/intranet/HR/
   → Two Factor Authentication

Prerelease - Step-up Authentication... (12.1)

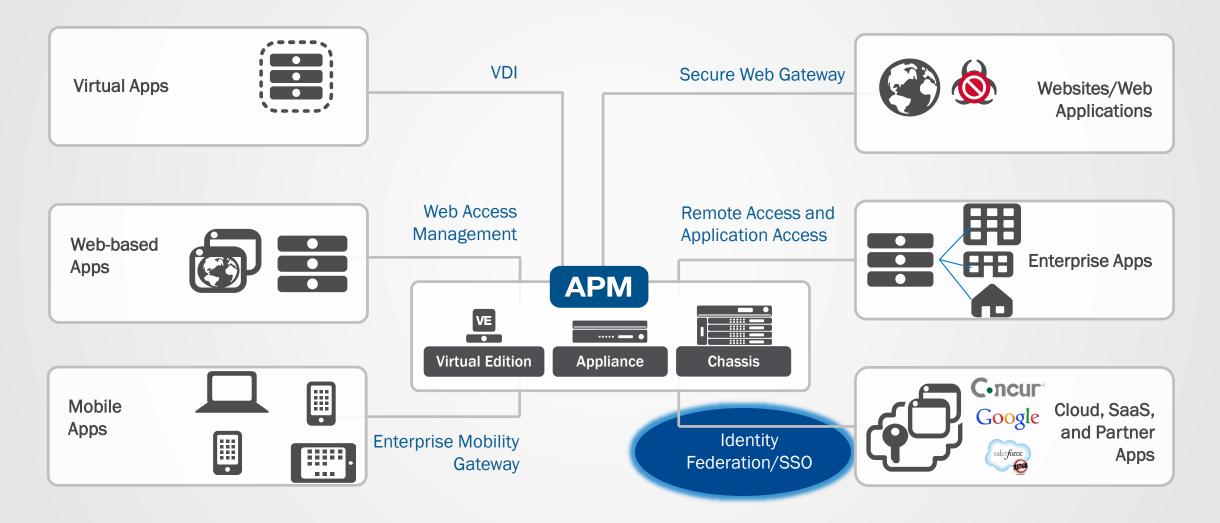
### Web portal



Web portal with access to only user authorized apps

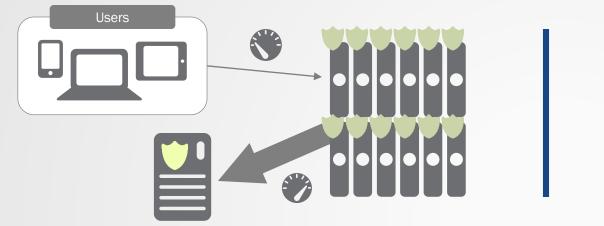
Identity
Federation and
Single Sign-on

# F5 BIG-IP Access Policy Manager Drives Identity Federation, Single Sign On, and Adaptive Authentication



# Single Sign-On (SSO) challenges

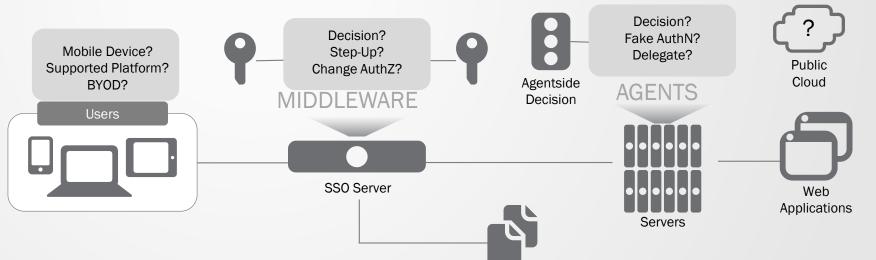
Too many agents or proxies



Users Control of the control of the

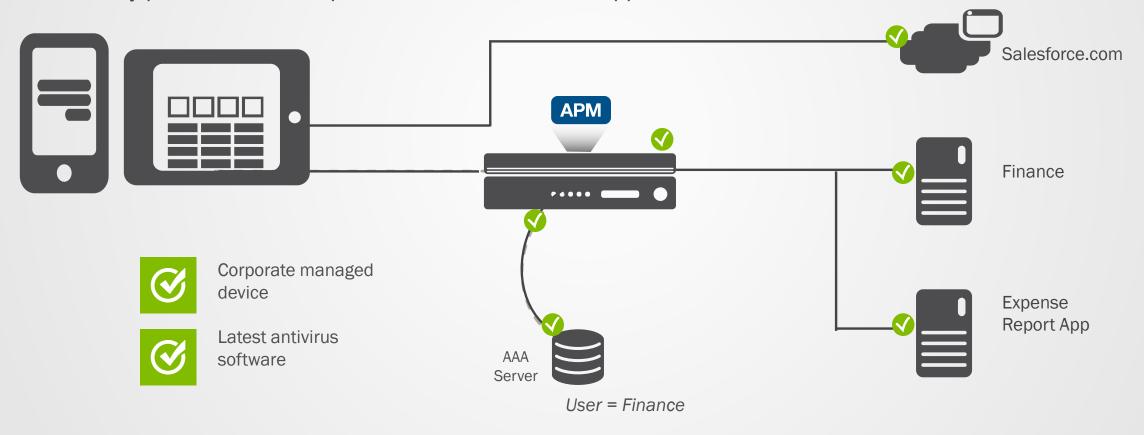
Adaptive Authentication? External Resource?

- Difficult to visualize single sign-on topology and deployment
- Single sign-on require flexibility

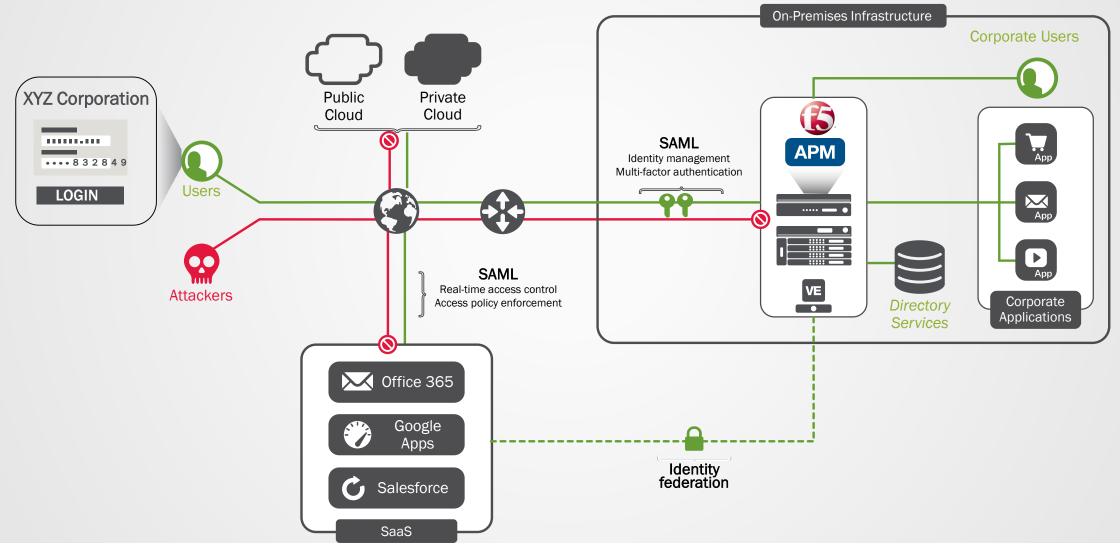


# **Identity Federation (SSO) benefits**

- Dramatically reduces infrastructure costs while increasing user productivity
- Provides seamless access to all web resources
- Enhances user experience
- Instantly provisions and de-provisions access to cloud apps

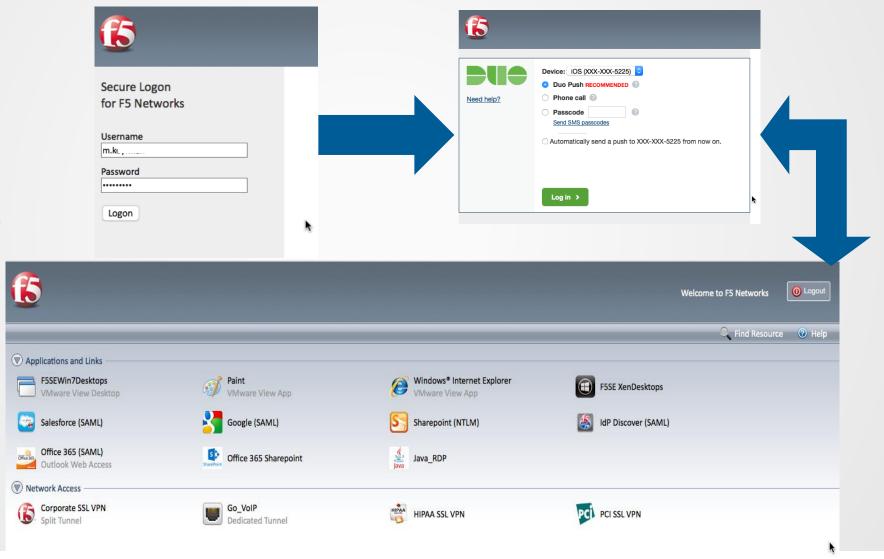


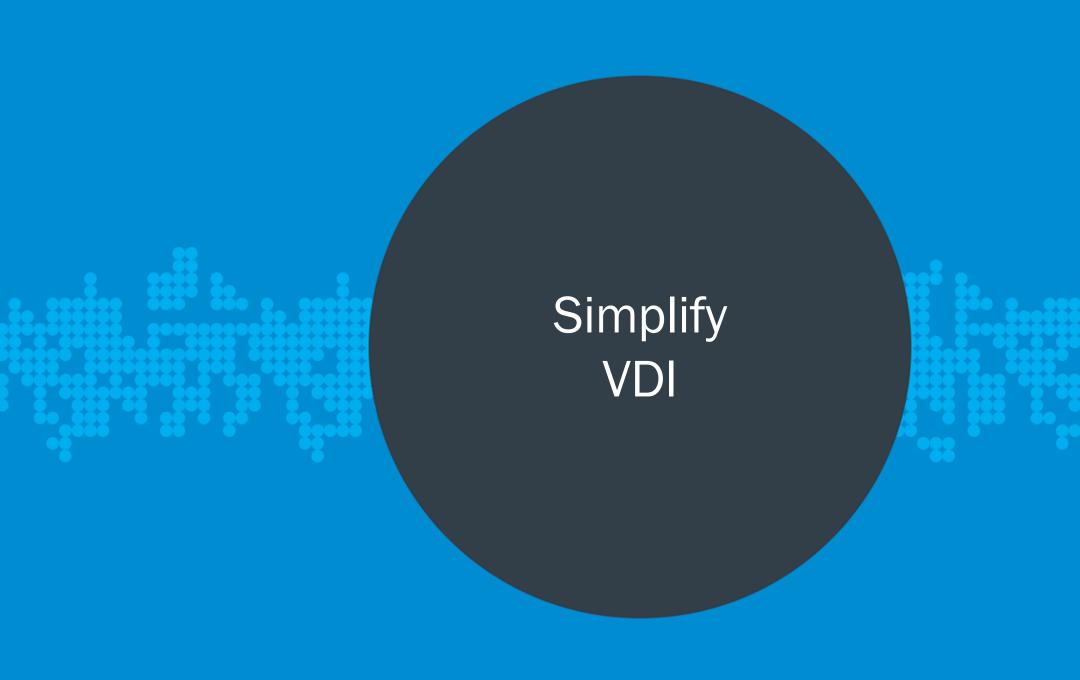
# BIG-IP APM Identity Federation/SSO with Adaptive Authentication



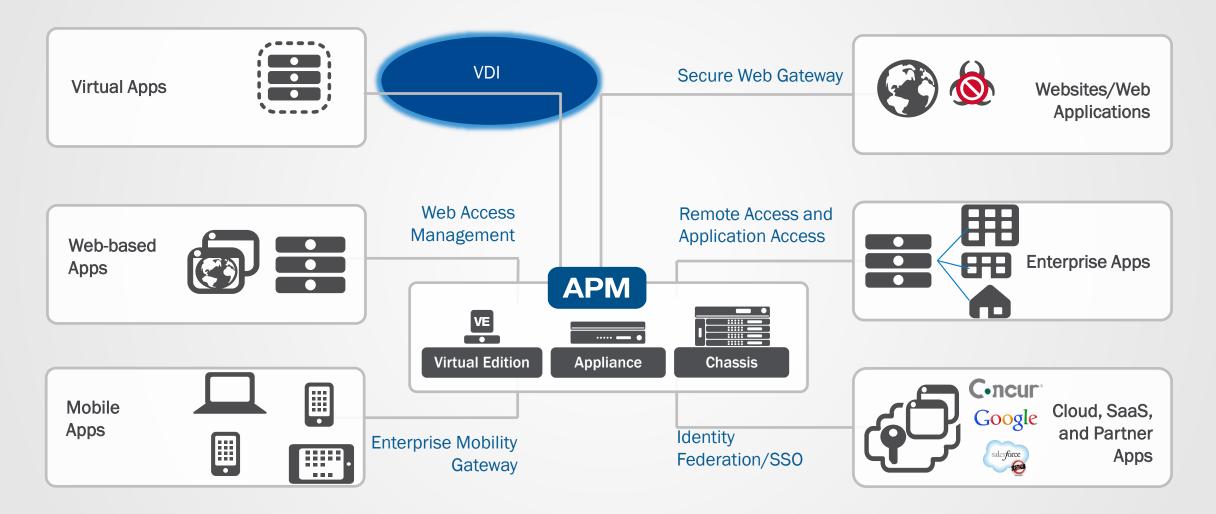
# APM's Webtop Unifies Access to All Apps, Including Those Using Identity Federation/SSO

APM's webtop including app access via identity federation, SSO, and adaptive authentication



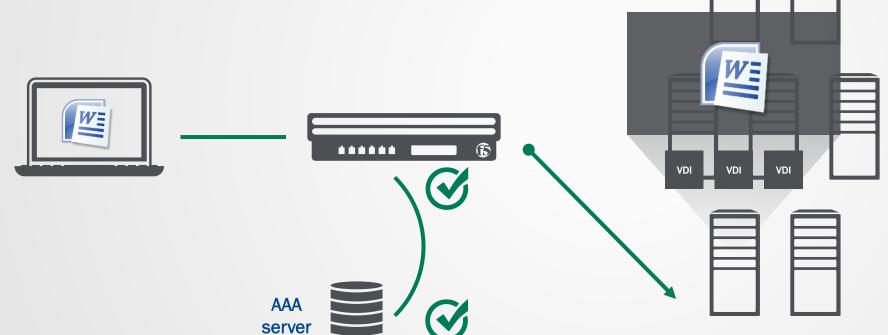


## F5 BIG-IP Access Policy Manager Drives Identity Federation, Single Sign On, and Adaptive Authentication



## Simplified VDI

- Improved scale and reliability
- Better user experience + SSO
- Simplified deployment
- Improved quality of real-time applications



Optimize the

your users

experience for

Simplify
 Infrastructure
 and reduce costs
 Unify access
 control and
 security

**CITRIX**°

XenDesktop

Microsoft

RDP

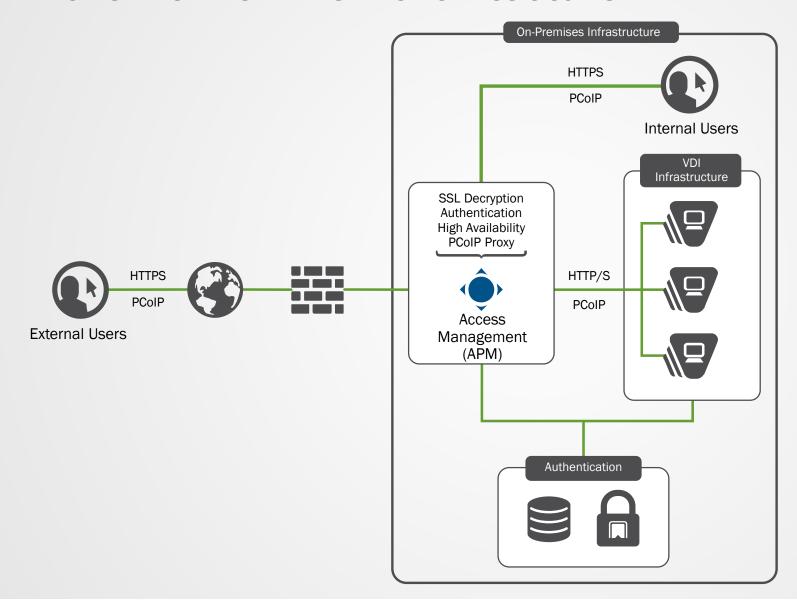
**m**ware

View



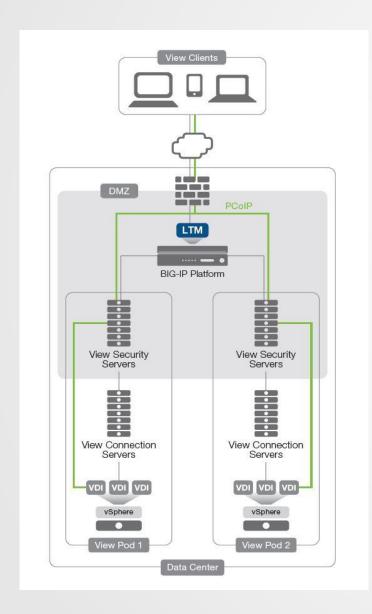
Virtual desktops

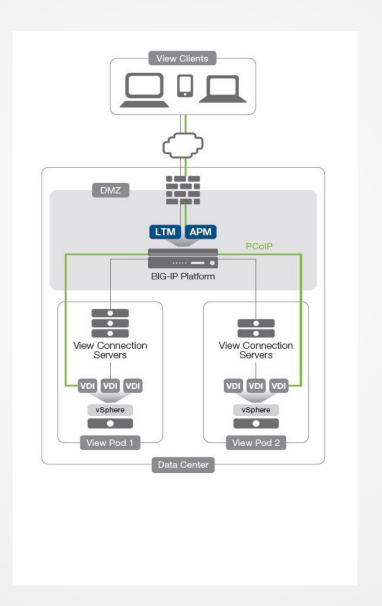
## **VMware Horizon View architecture**

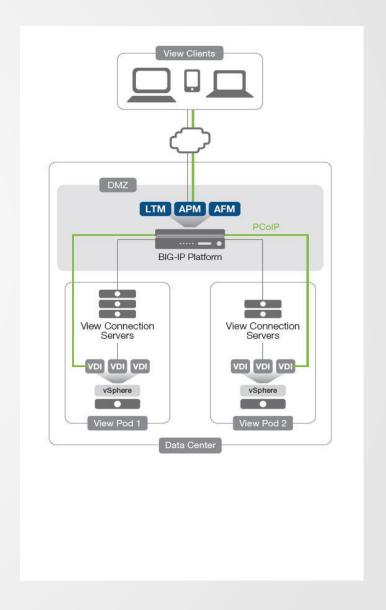




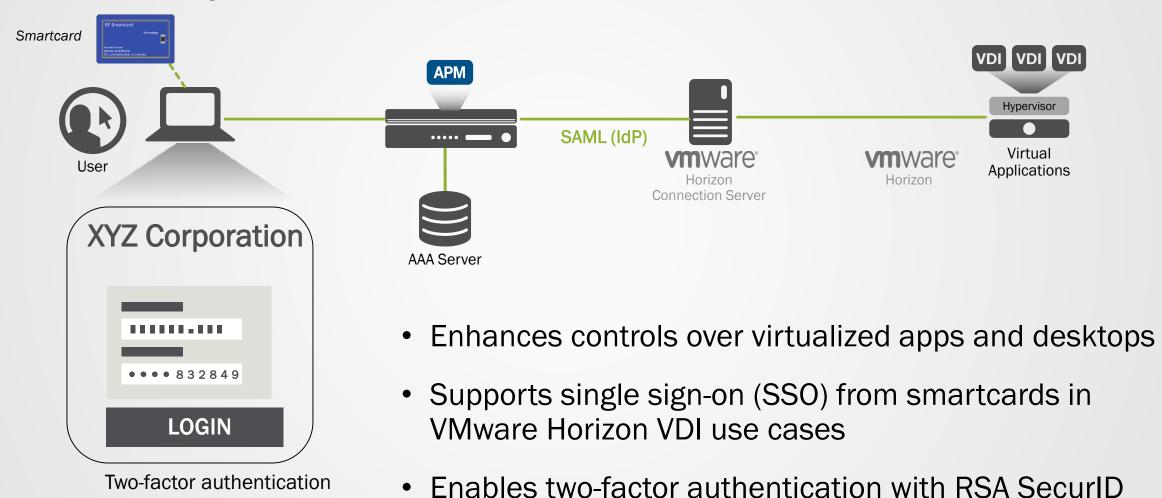
## **PCoIP Proxy – Simplify your architecture**







# Smartcard Single Sign-On (SSO) Support for VMware Horizon PCoIP Proxy



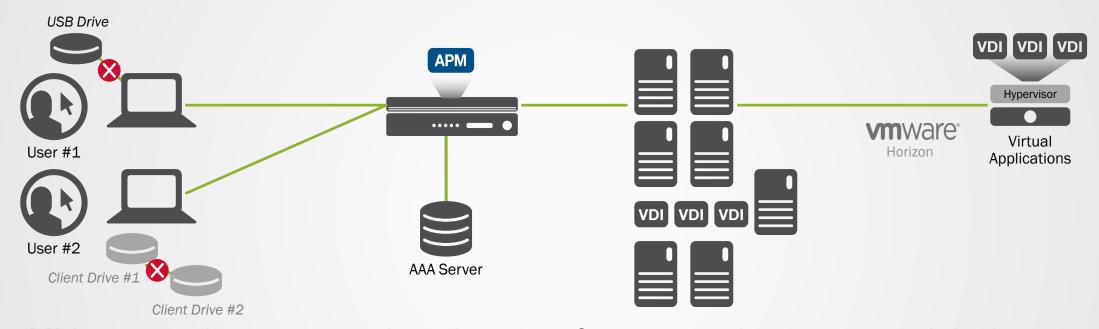
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and RADIUS

RSA SecurID

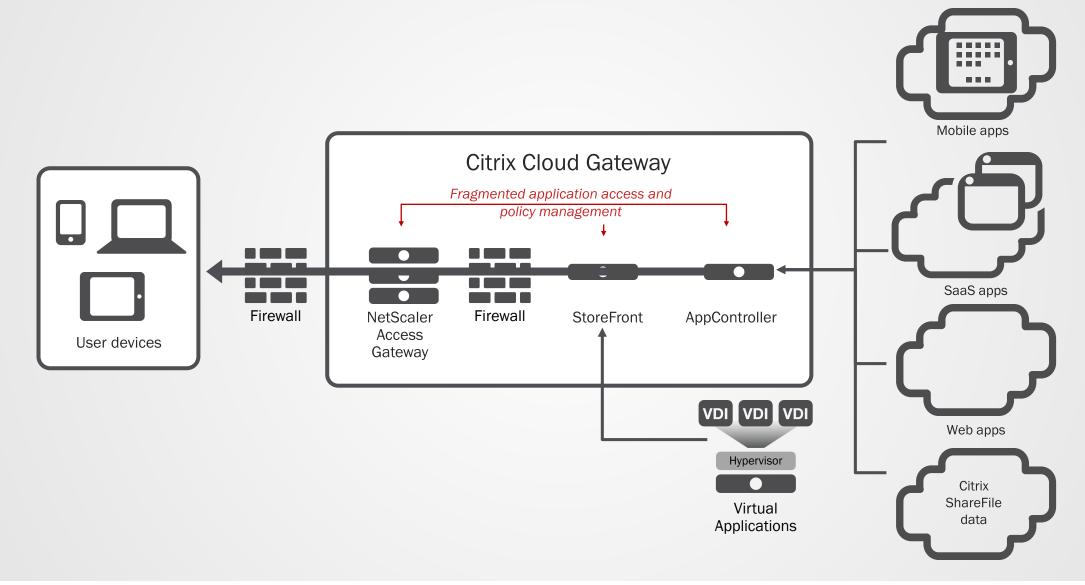
**RADIUS** 

## Support and Control USB Redirection and Client Drive Mapping for VMware Horizon



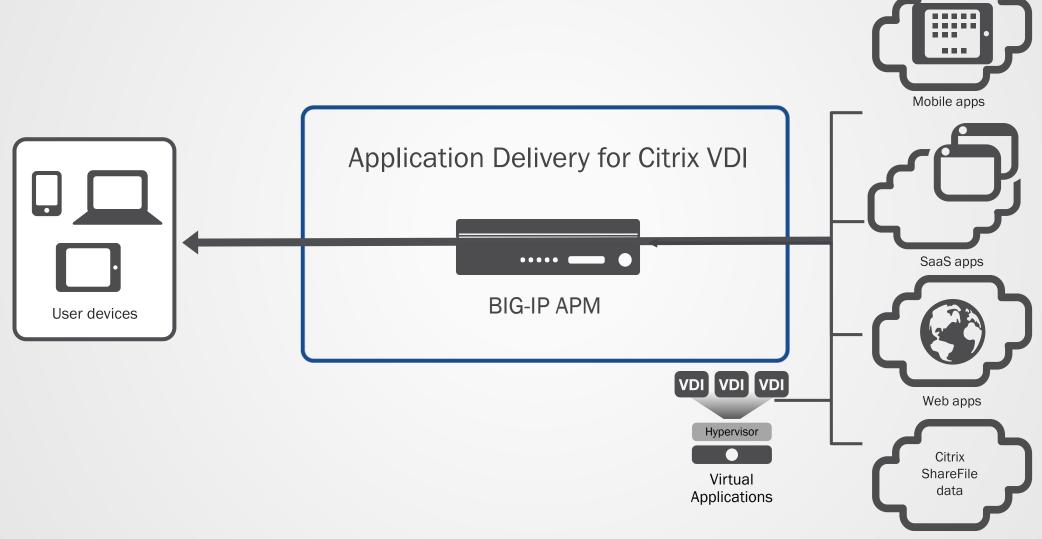
- Mitigates and protects against data loss for managed accounts and devices
- Empowers control via identity-aware, context-based policies over the use of USB devices by VMware Horizon users and their devices
- Also enables identity-aware, context-based control over client drive redirection for VMware Horizon users

## **Operational complexities of Citrix Cloud Gateway**



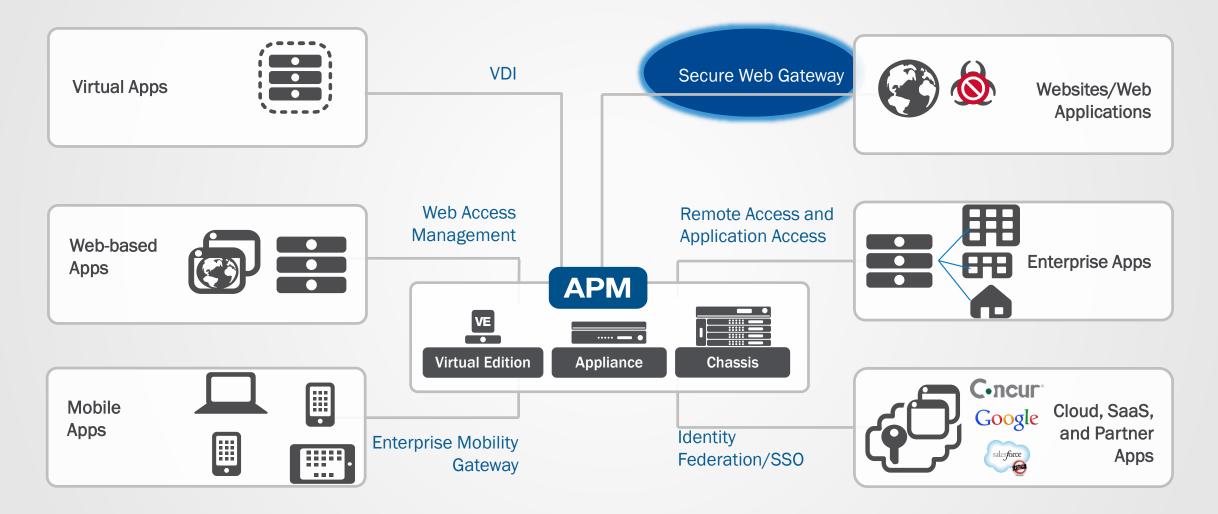
## **Application delivery for Citrix VDI**

Single Platform





## F5 BIG-IP Access Policy Manager Drives Identity Federation, Single Sign On, and Adaptive Authentication



## Web access is a necessary part of an employee's day



## So, web defense is a necessity today



Security
Against web-based threats and malware



Productivity
Controlling access to time-wasting
web sites



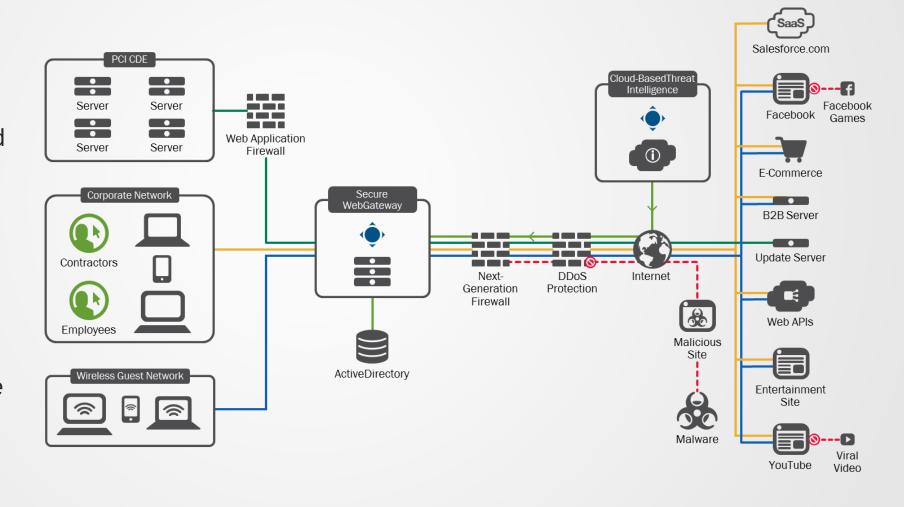
Accessibility
Managing web access and bandwidth
allocation



Compliance
With corporate acceptable use policies
(AUP) and regulatory policies

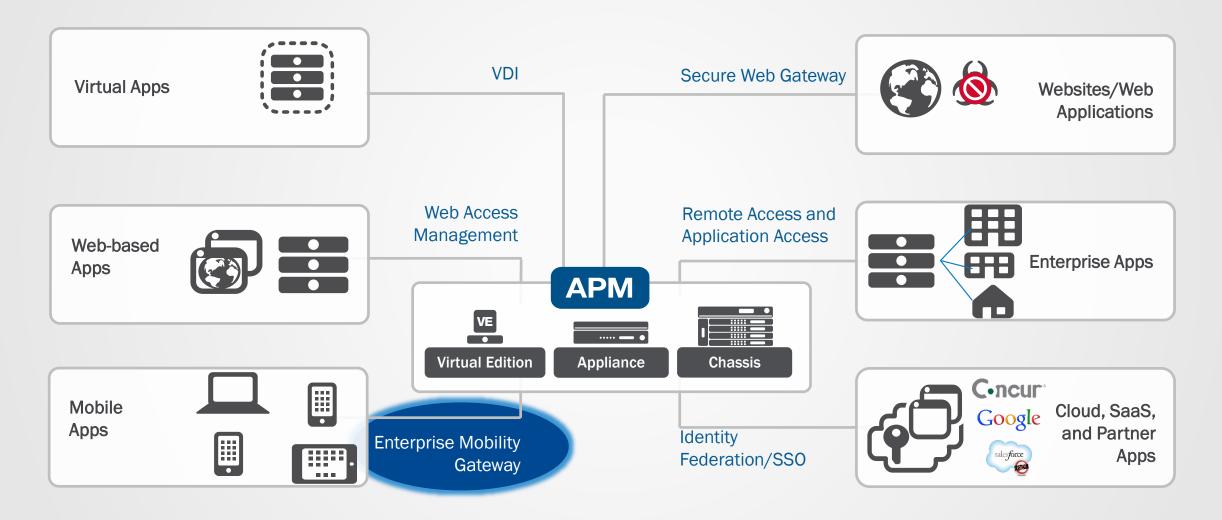
## F5's high-performance, on-premises secure web gateway

- URL categorization and filtering
- Web application controls
- Advanced web-based and embedded malware protection
- Fast SSL inspections and bypass
- Fast and effective threat detection (based on Websense ThreatSeeker)
- Detailed reporting and logging



Enterprise
Mobility
Management
(EMM)

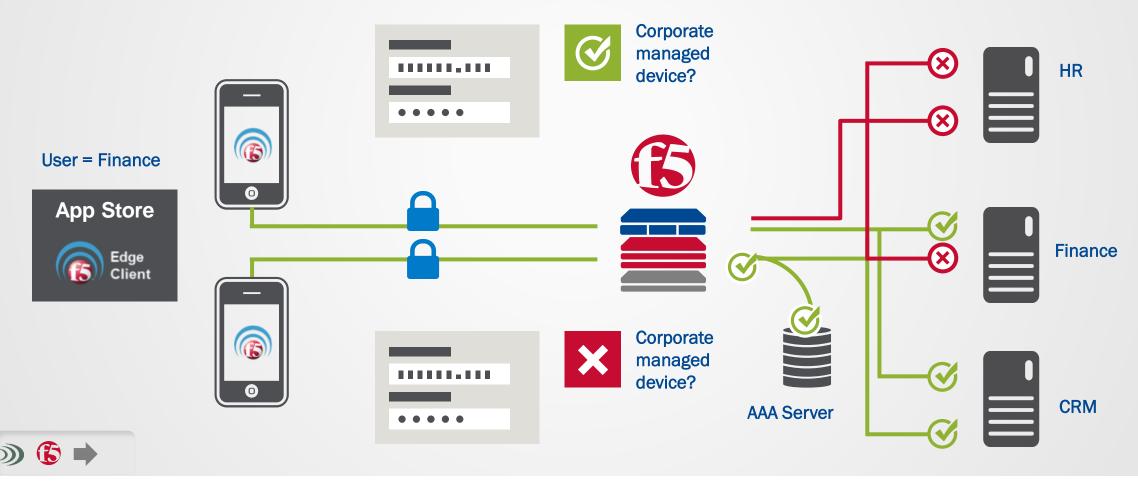
## F5 BIG-IP Access Policy Manager Drives Identity Federation, Single Sign On, and Adaptive Authentication

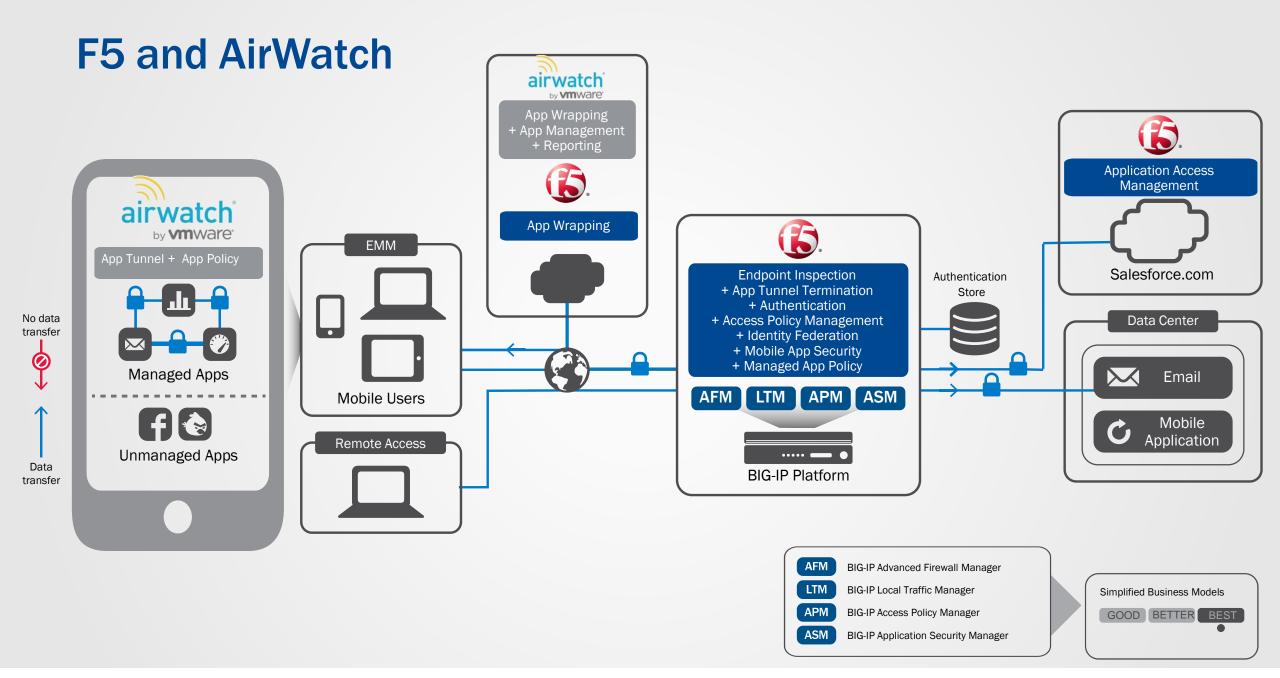


## **Enterprise Mobility Management (EMM)**

Ensure devices connect securely and adhere •
to a security posture baseline, regardless of
ownership

Reduce the risk of malware infecting the corporate network from corporate or personal mobile device



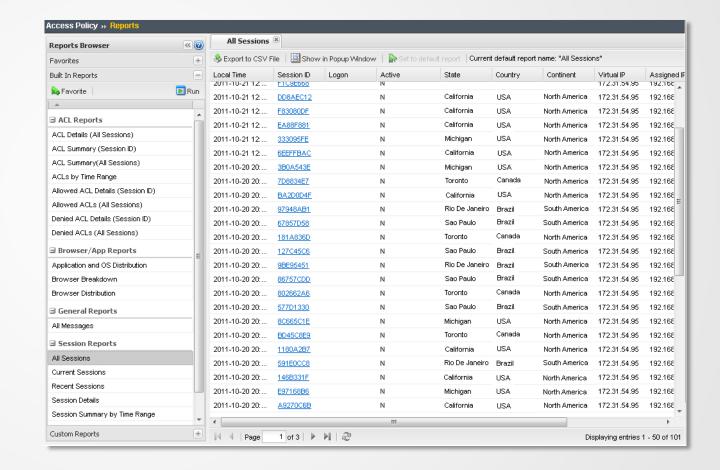




## Sample detailed report

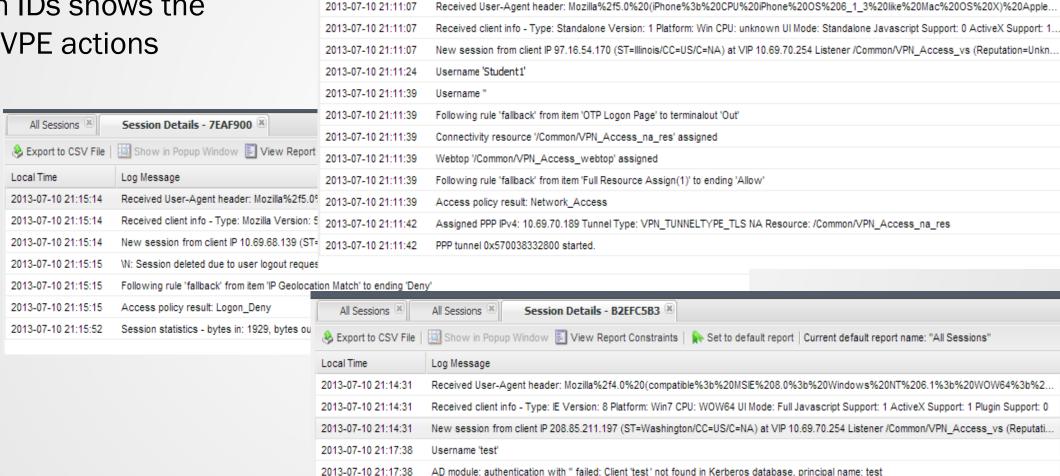
#### Gain a deeper understanding of:

- All sessions with geo-location
- Local time
- Virtual IP
- Assigned IP
- ACLs
- Applications and OSs
- Browsers
- All sessions
- Customize reports
- Export for distribution



### **Reporting in APM**

Clicking on individual Session IDs shows the flow of VPE actions



Session Details - 73767D84 🗵

Log Message

Show in Popup Window 📳 View Report Constraints | 🦍 Set to default report | Current default report name: "All Sessions"

© F5 Networks, Inc 57

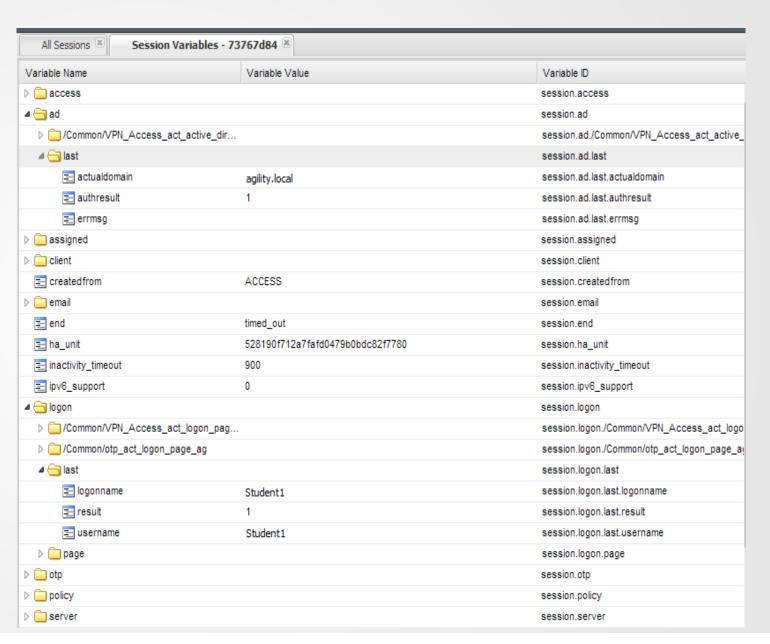
All Sessions X

Local Time

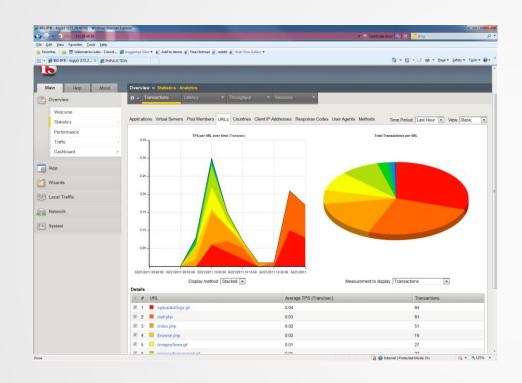
### Reporting in APM

Clicking on "View Session Variables" shows persession variables populated during the user's logon attempt

- AD results
- Antivirus info
- Browser info
- Resources assigned
- Mobile info
- Cert info
- Etc Etc Etc



## Access and application analytics



## Stats grouped by application and user

#### Provides:

- Business intelligence
- ROI reporting
- Capacity planning
- Troubleshooting
- Performance

#### Stats collected

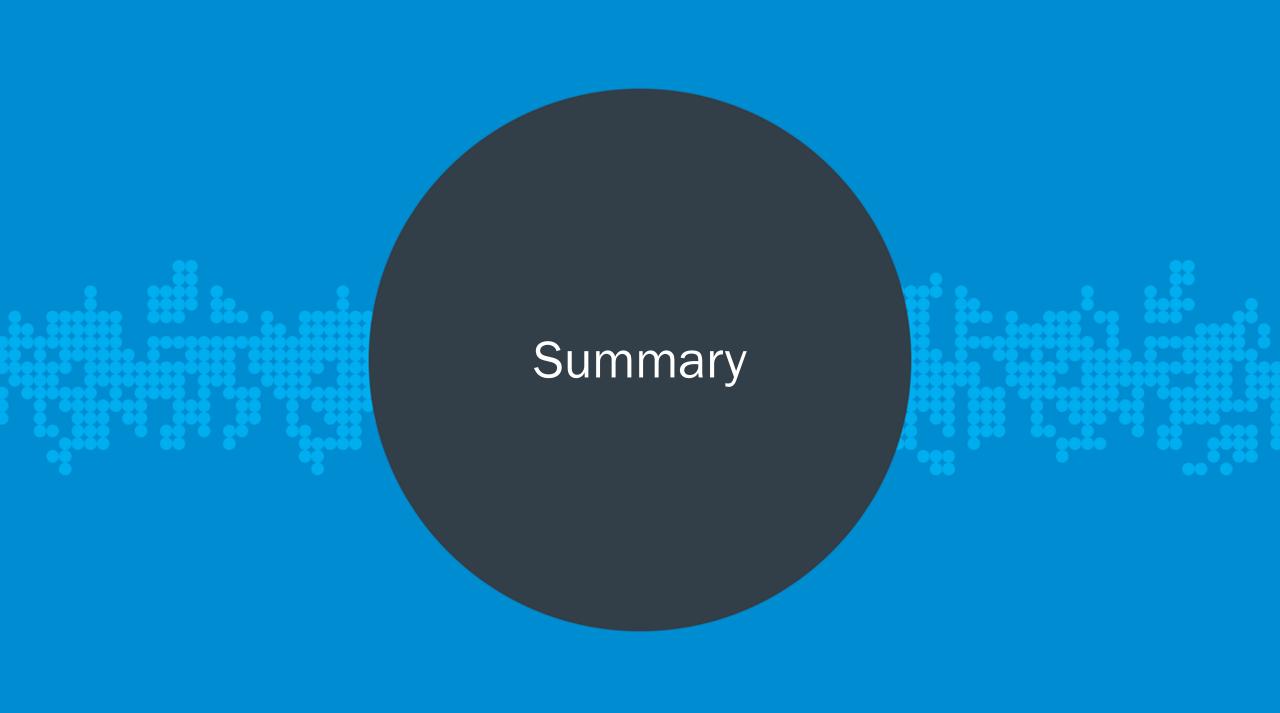
- Client IPs
- Client geographic
- User agent
- User sessions
- Client-side latency

- Server latency
- Throughput
- Response codes
- Methods
- URLs

#### **Views**

Virtual server

- Pool member
- Response codes
- URL
- HTTP methods



## **Solution Summary**

Unified Access solution

- Managing mobile applications & devices
  - Support BYOD initiatives
- Securing Web usage
  - Reduces malware risks
- Federating identity
  - Instantly provisions/deprovisions access to SaaS apps
- Secure accelerated remote access
  - Fast and safe remote connections



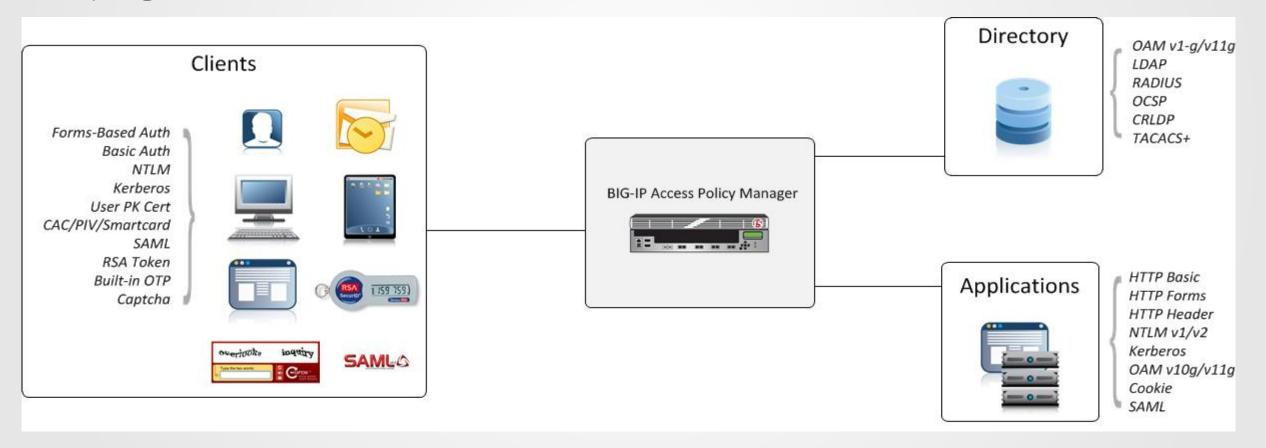


### Authentication All in One and Fast SSO

F5 BIG-IP Access Policy Manager

- APM is more than a remote access product
- APM benefits any application with a web front-end requiring authentication

- Many customers have a remote access product
- But few have good flexible web authentication



### What makes F5 IAM different









One-stop for all access policy

Integrates captured data into enforceable access and security policies



Solutions for an application world.

## Simplified business models and licensing

New Good, Better, Best (GBB) Bundle Offerings: Delivers greater value and future proofs your datacenter

#### Benefits

Make it easier to adopt advanced F5 functionality

Consolidate into fewer common configurations

Save when purchasing bundles

