

RSA®Conference2015

Singapore | 22-24 July | Marina Bay Sands

SESSION ID: SPO-F01

Securing Dispersed Networks

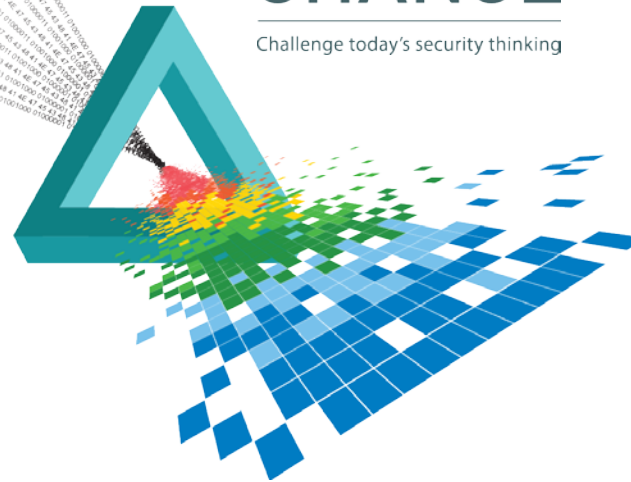
Sanjay Ramnath

Senior Director, Security
Barracuda Networks

@barracuda

CHANGE

Challenge today's security thinking



Dispersion is Rampant

SaaS



Office365



CRM

Virtualization



App



App



Public Cloud/IaaS



Web App



Web App



Mobile Devices



Headquarters



Remote Office



Branch Office



ATM



Remote Users



Cloud Apps

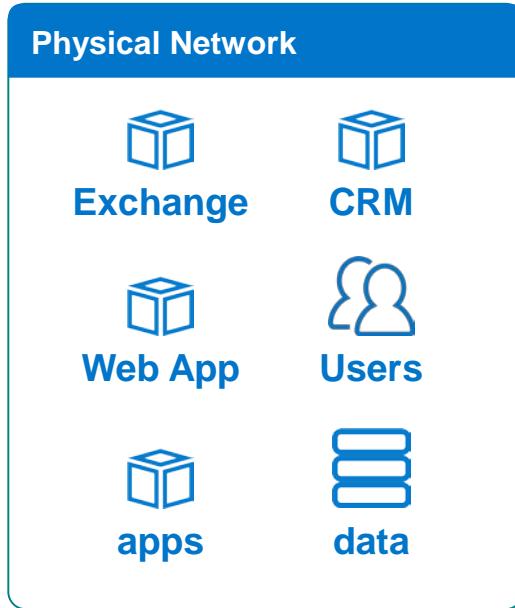
Drivers of Dispersion

- ◆ Application Dispersion - The Cloud
- ◆ Network Dispersion - Distributed Networks
- ◆ User Dispersion - Mobility
- ◆ Application Delivery Dispersion - Virtualization

Application Dispersion – The Cloud

- ◆ Move to SaaS drives Network & Application Security
 - ◆ Business apps that were on the “LAN” are moving to the cloud
 - ◆ Need business quality Internet access to business applications
- ◆ Move to Public Cloud drives Network & Application Security
 - ◆ Application delivery model changes

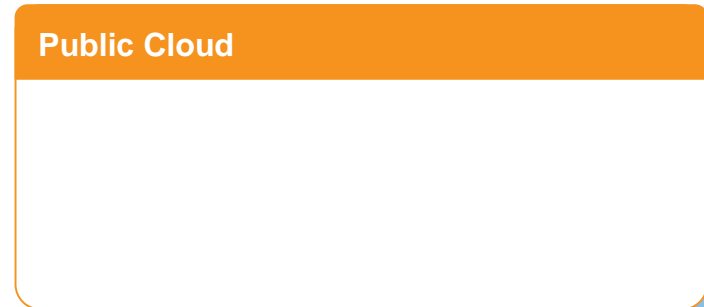
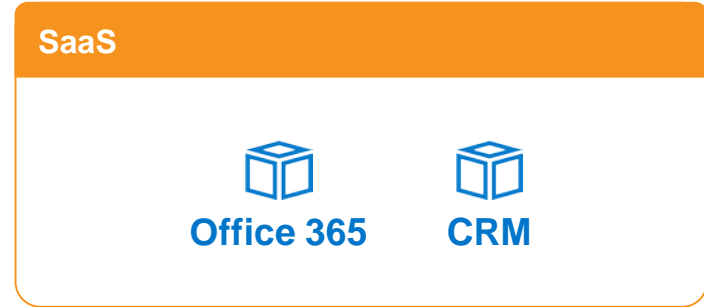
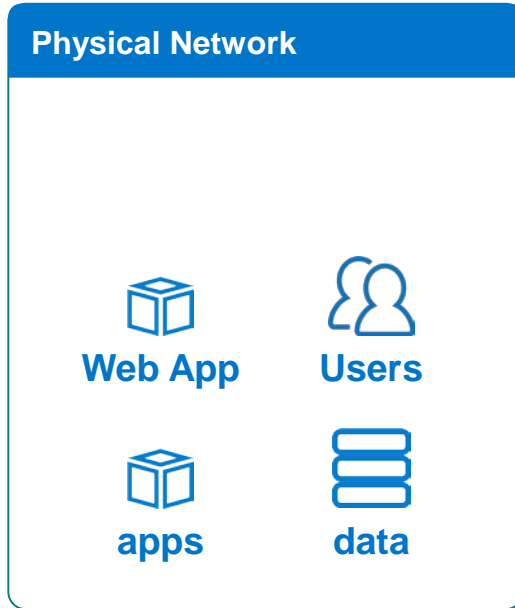
Application Dispersion – The Cloud



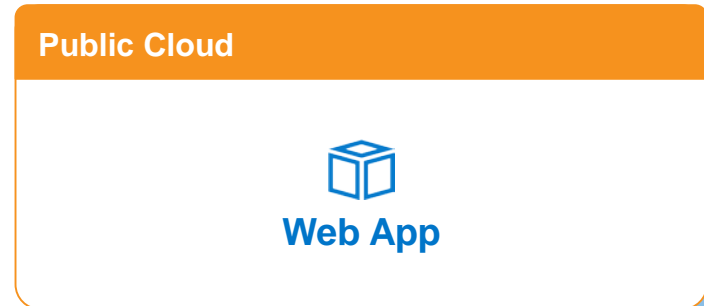
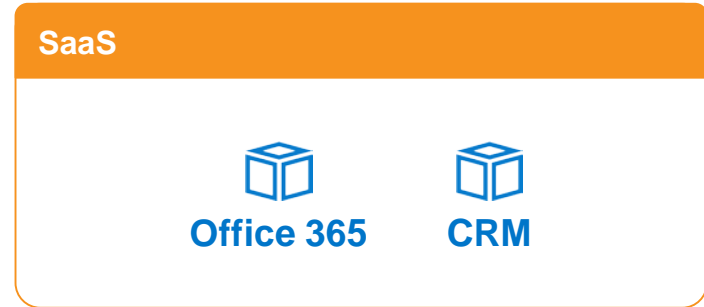
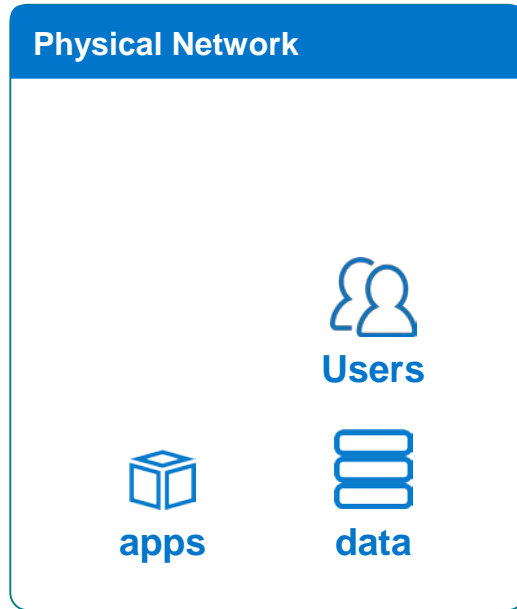
SaaS

Public Cloud

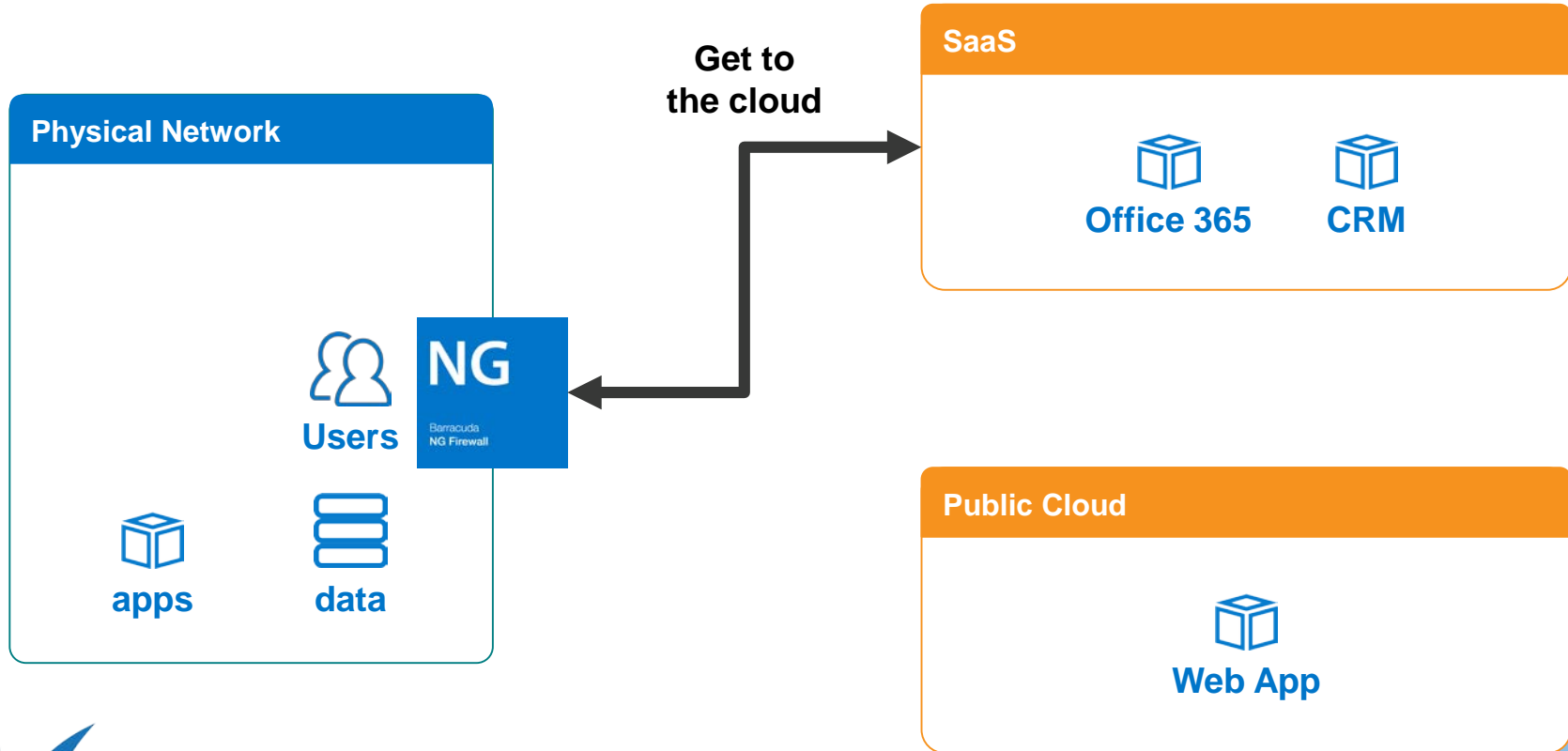
Application Dispersion – The Cloud



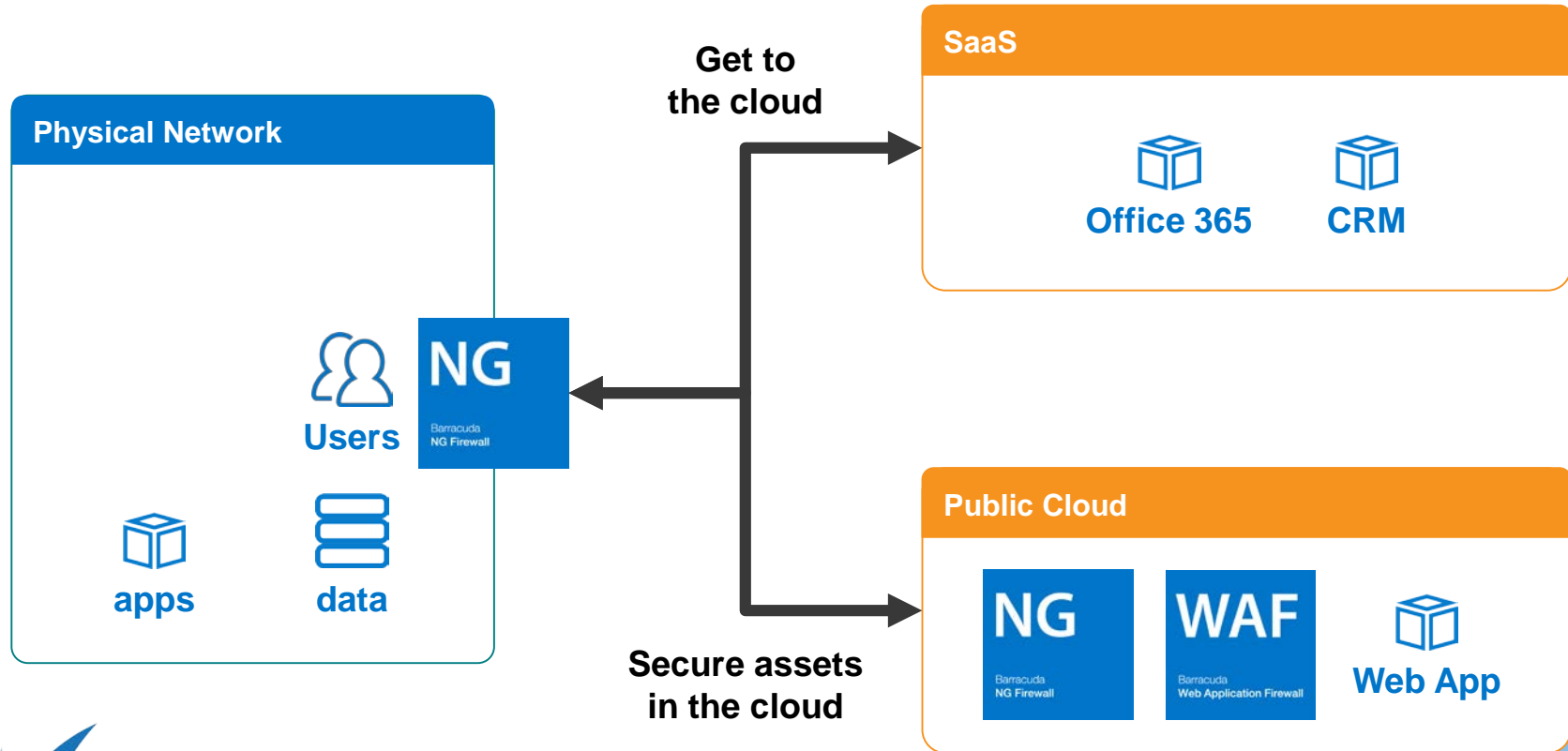
Application Dispersion – The Cloud



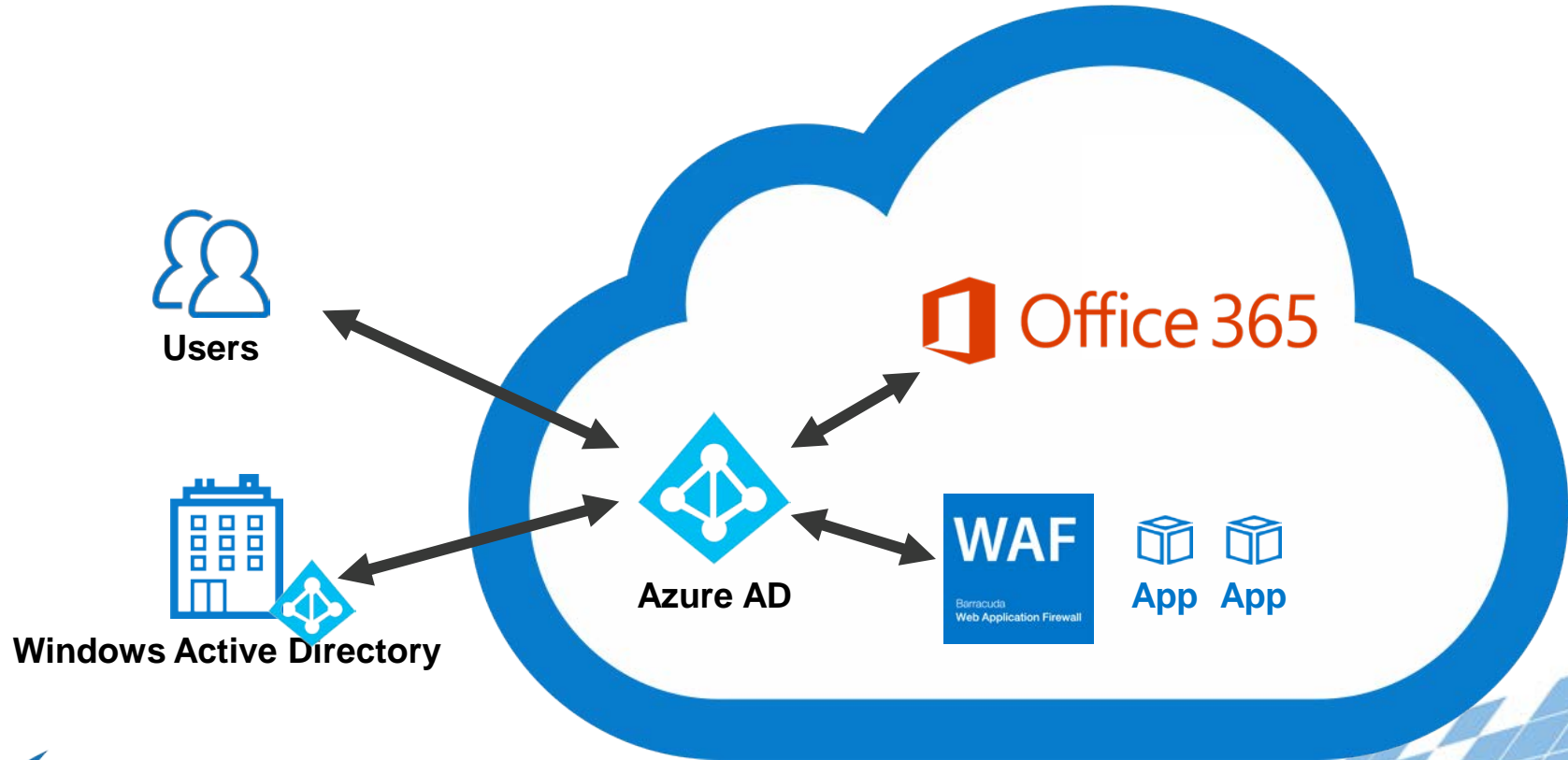
Application Dispersion – The Cloud



Application Dispersion – The Cloud



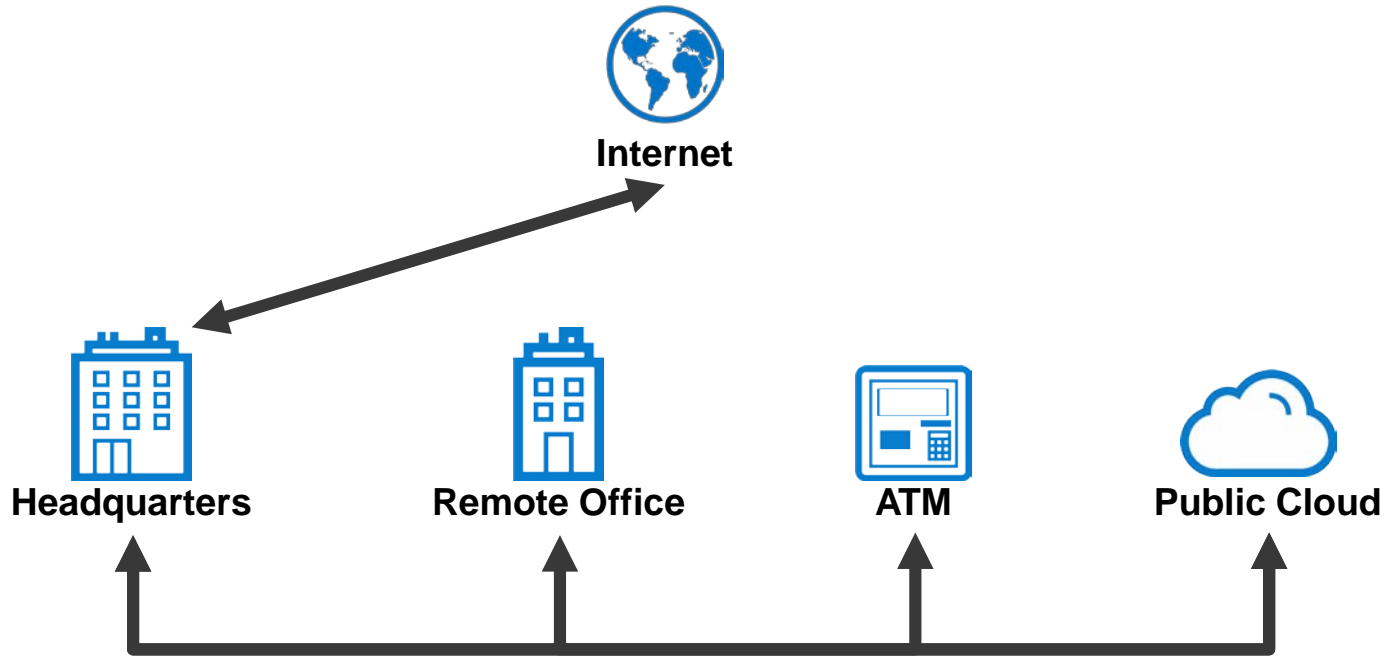
Azure AD – Single Sign-On to Internal Apps



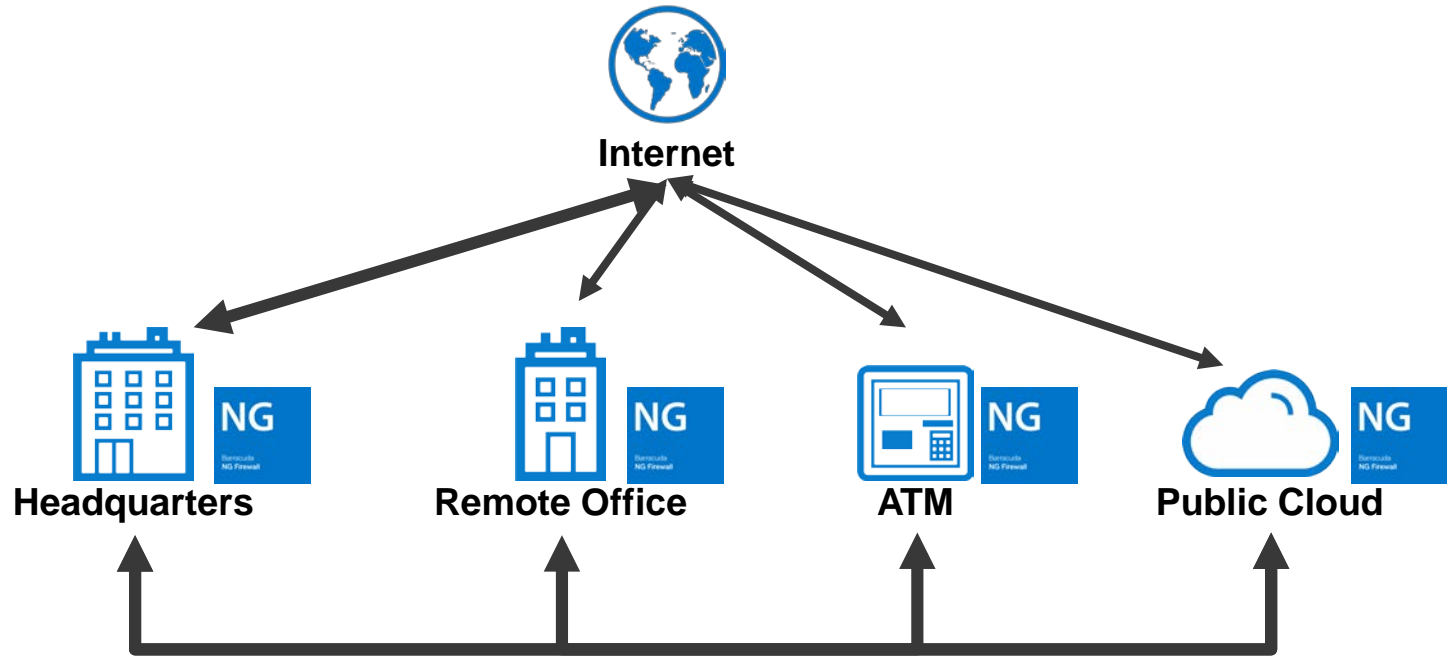
Network Dispersion – Distributed Networks

- ◆ Traffic is not backhauled anymore
 - ◆ Cloud apps are accessed from local breakouts
 - ◆ Need business quality Internet access at all locations
 - ◆ Central Management is key

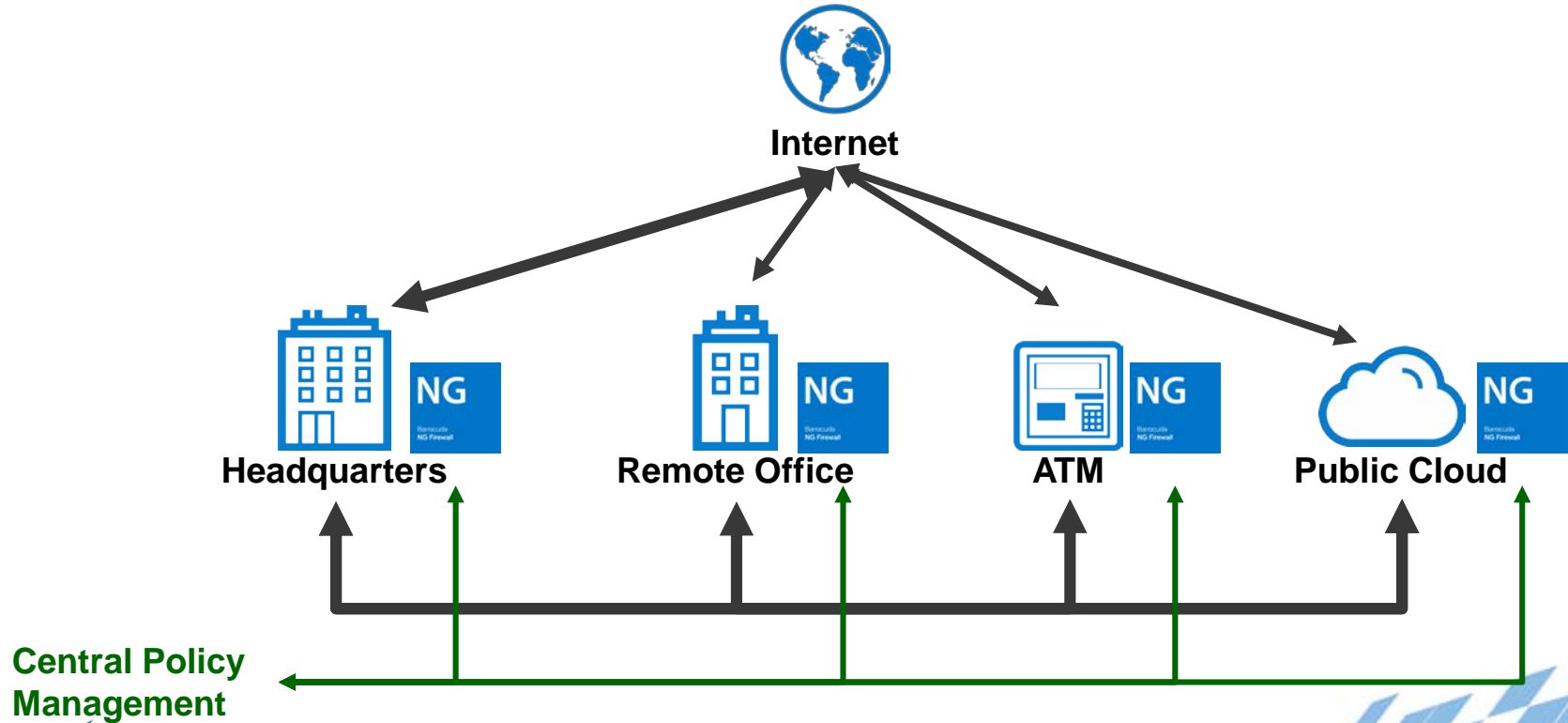
The Old World – Backhauling



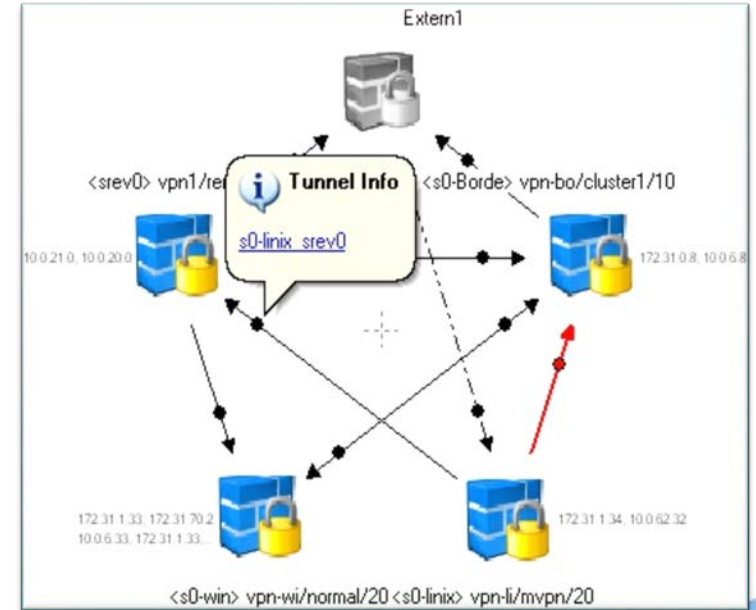
The Old World – Backhauling



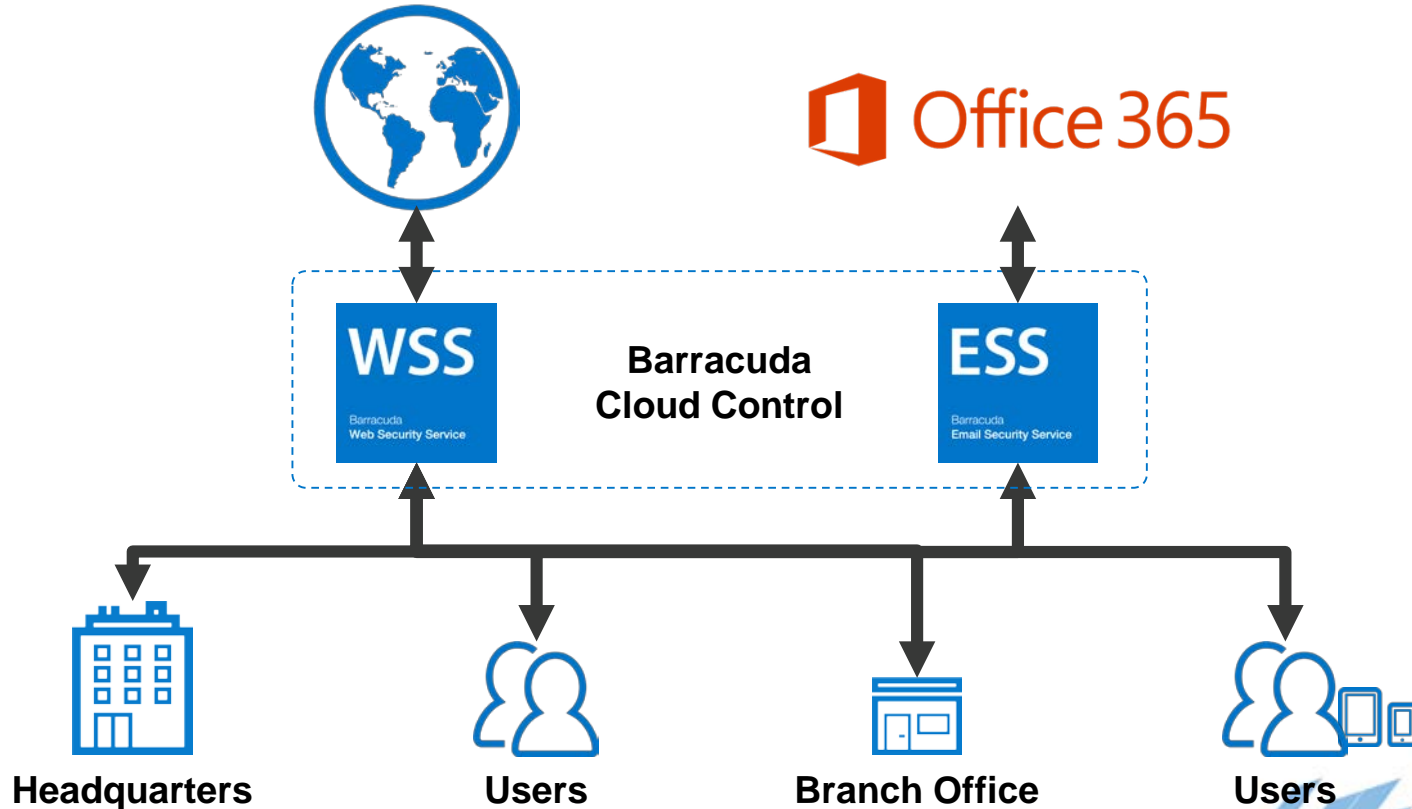
The Old World – Backhauling



Network Dispersion – Central Management



Network Dispersion – SaaS

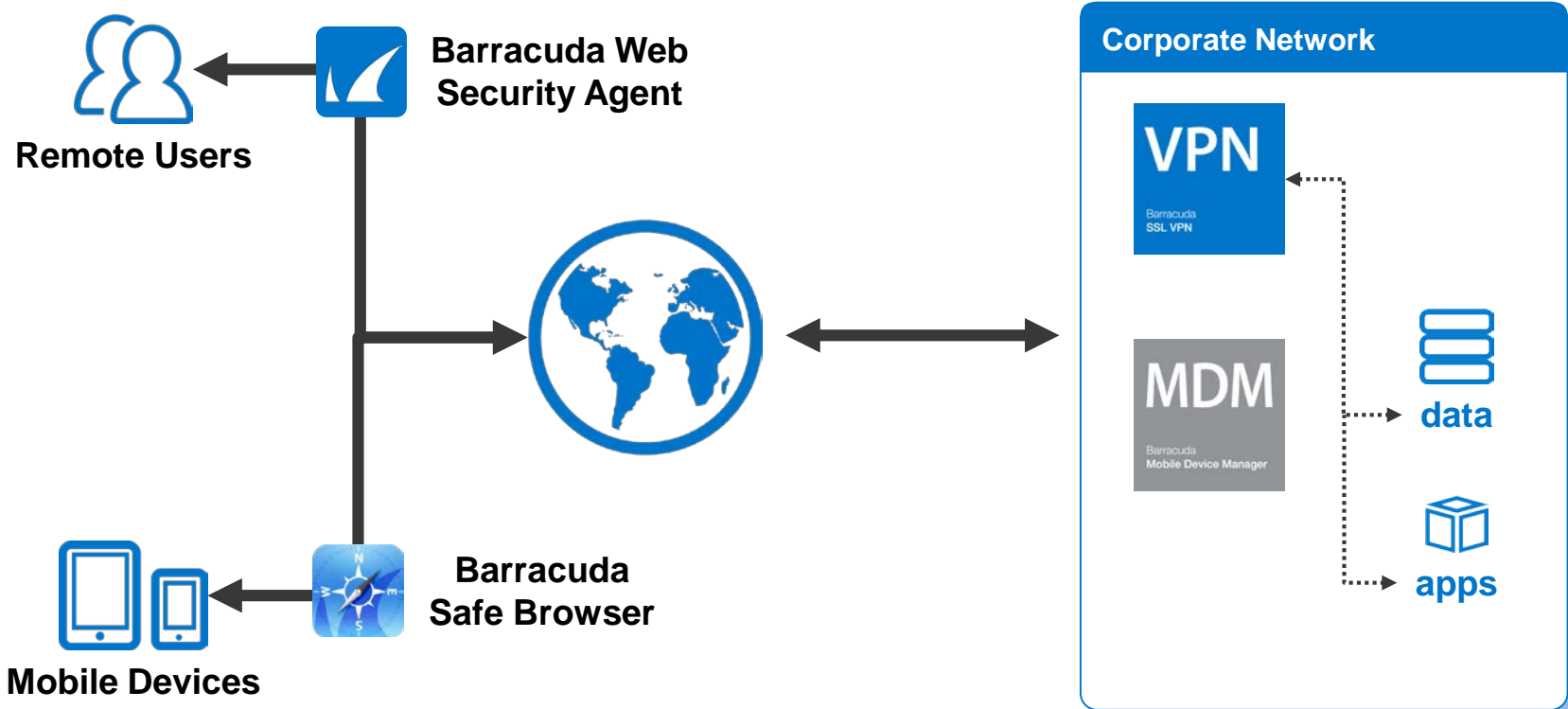


User Dispersion – Mobility User Dispersion

A man in a dark suit and tie is multitasking. He is holding a pen in his right hand, talking on a mobile phone held to his left ear, holding a tablet in his left hand, and a laptop is open in front of him. The background is dark and textured.

- ◆ Impact
 - ◆ BYOD devices restrict “heavy” endpoint deployment
 - ◆ Lightweight endpoints with intelligent cloud + premises backend
- ◆ New requirements
 - ◆ Remote filtering
 - ◆ Integrated policy/reporting for web filtering inside and outside the firewall
 - ◆ Mobile VPN access control and portals
 - ◆ Cloud access to internal resources – even when hosted in private clouds
 - ◆ Mobile device management
 - ◆ Device security posture, configuration of security services, and application management

User Dispersion



User Dispersion – Centralized Monitoring

Web Security Signed in as: Demo Guest [Sign Out](#) English (US)

Cloud Control Mobile Devices Signed in as: Demo Guest [Sign Out](#) English (US)

Community Account Support

Backup > Web Security > Email Security > Archiver > Mobile Devices >

Dashboard **Devices** Installed Applications Audit Log

Devices ?

BNID + - Apply [Refresh](#) [Export to CSV](#)

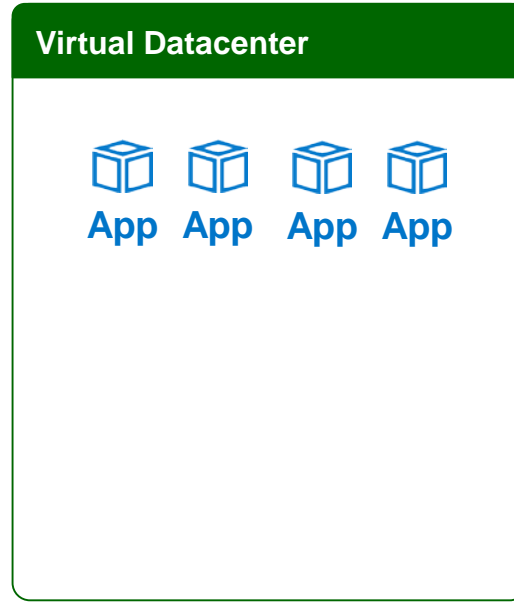
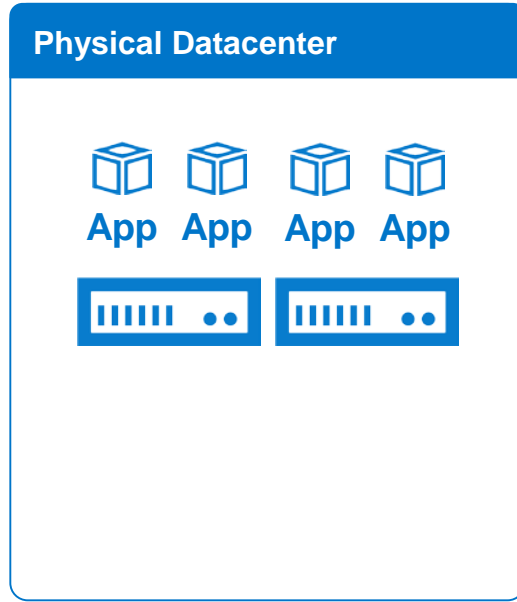
[Message](#)
[Clear Passcode](#)
[Lock](#)
[Query](#)
[Check-in](#)
[Group](#)
[Unenroll](#)
[Wipe](#)
[Delete](#)

BNID	Device Name	User	Device Type	Phone #	Group	Last Seen	Status
11-10076	Barbara's iPad	Guest	iPad	-		Apr. 20, 2015, 5:21pm	Active
11-10087	Barbara's iPhone	Guest	iPhone	692555555		Apr. 20, 2015, 5:04pm	Active
11-13590	Betty's Android ...	Guest	Tablet	-		Apr. 20, 2015, 5:48pm	Active
11-10077	Betty's iPhone	Guest	iPhone	721555555		Apr. 20, 2015, 5:17pm	Active
11-13591	Brian's Android ...	Guest	Phone	670555555		Apr. 20, 2015, 5:15pm	Active
11-13624	Brian's Android ...	Guest	Tablet	-		Apr. 20, 2015, 5:40pm	Active
11-10080	Brian's iPad	Guest	iPad	-		Apr. 20, 2015, 5:59pm	Active
11-10062	Brian's iPhone	Guest	iPhone	210555555		Apr. 20, 2015, 5:46pm	Active

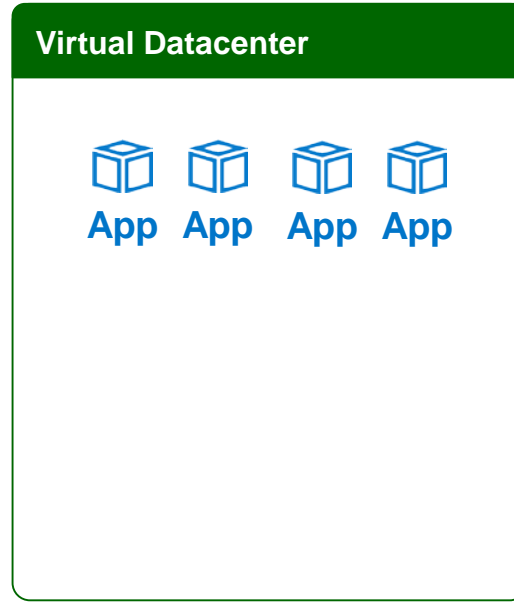
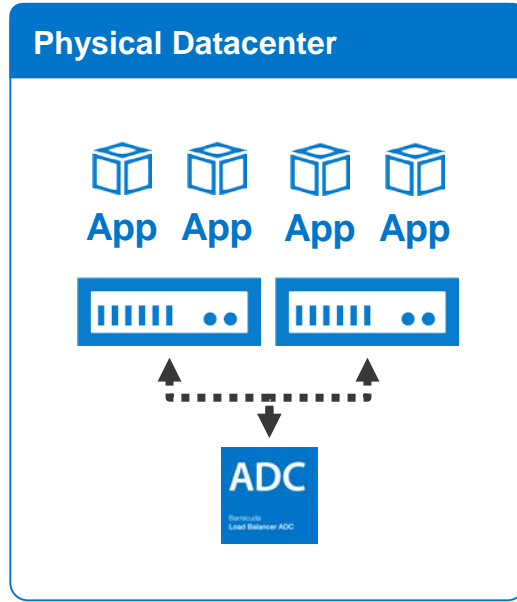
App Delivery Dispersion – Virtualization

- ◆ Impact
 - ◆ Data Centers span Physical, Virtual and Public Cloud
 - ◆ Application traffic flows are non-deterministic
- ◆ New requirements
 - ◆ Connectivity
 - ◆ Secure, bandwidth optimized connectivity across all surfaces
 - ◆ Application Security
 - ◆ Application security that can migrate with the application
 - ◆ Traffic Distribution
 - ◆ High throughput traffic distribution across virtual infrastructures

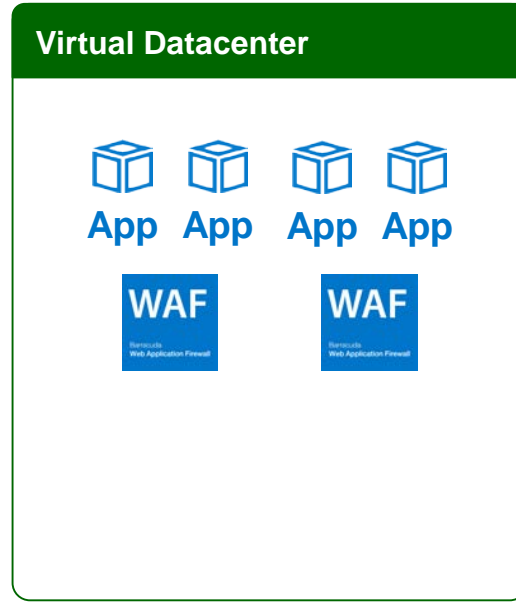
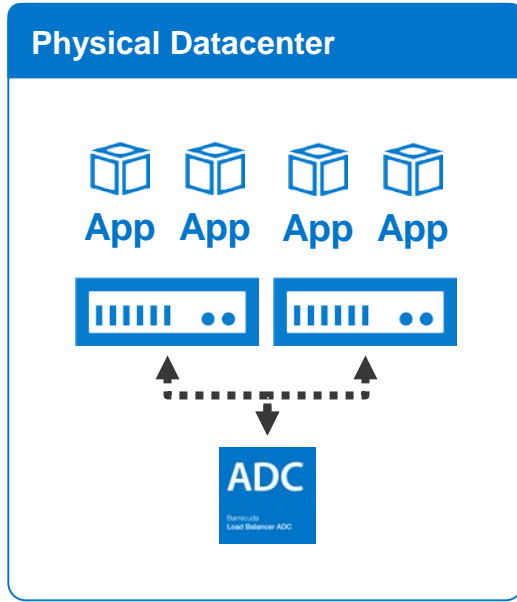
App Delivery Dispersion – Virtualization



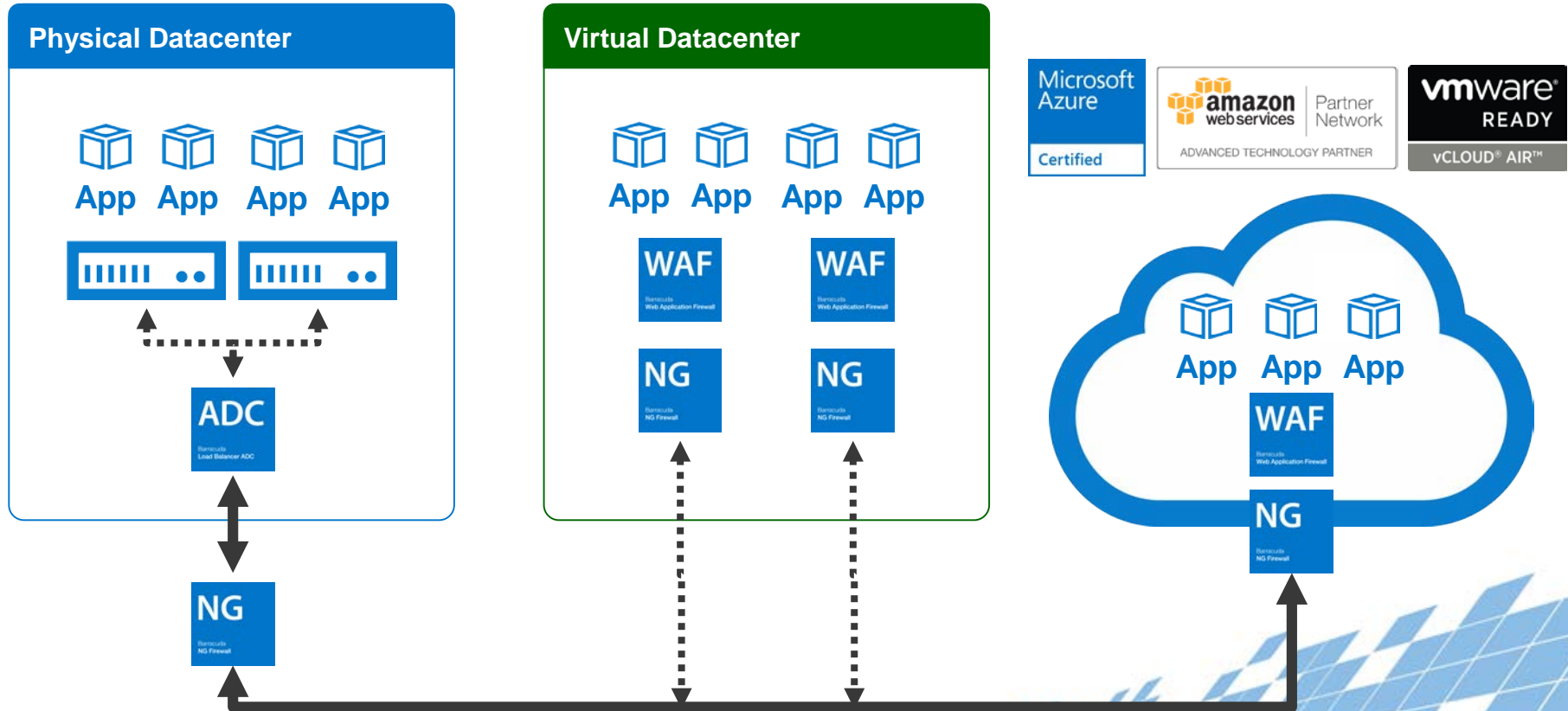
App Delivery Dispersion – Virtualization



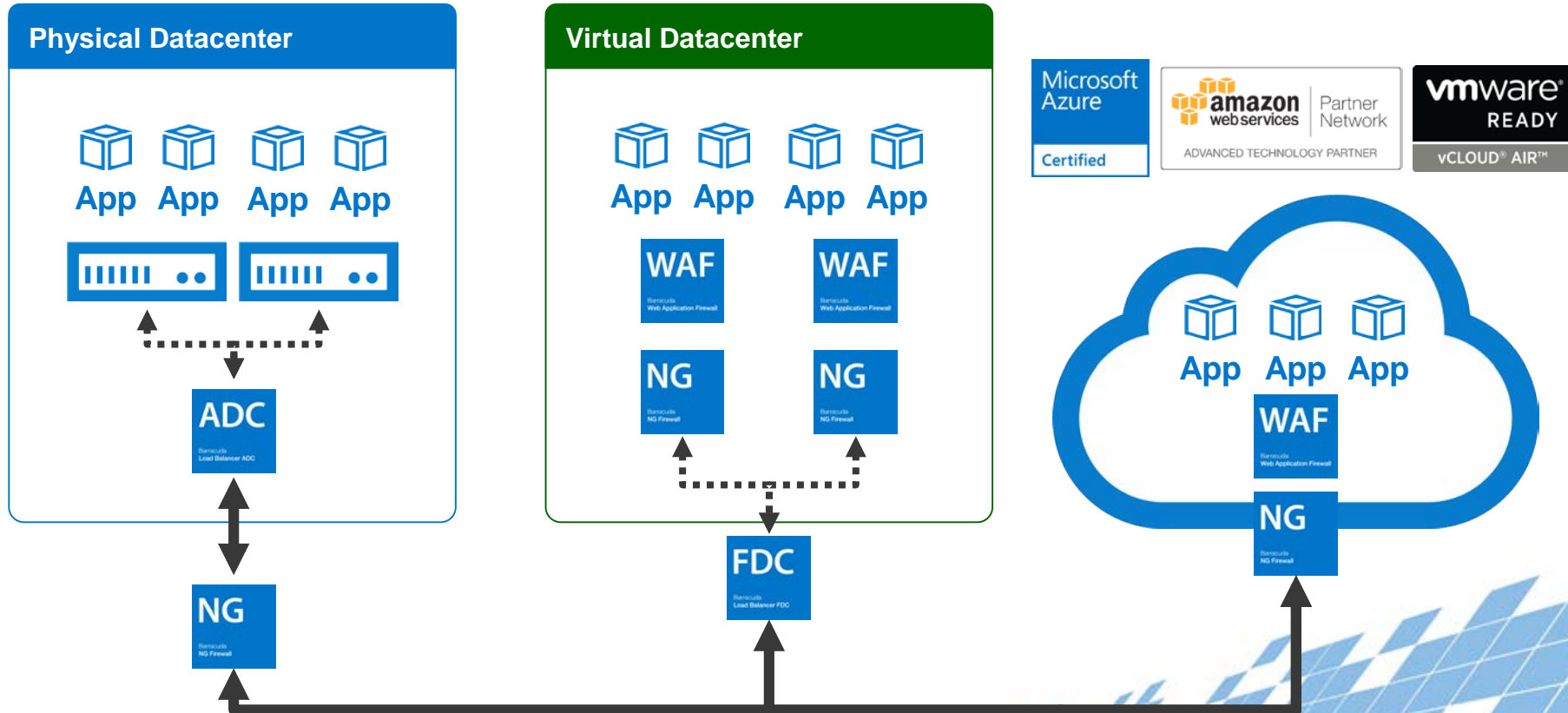
App Delivery Dispersion – Virtualization



App Delivery Dispersion – Virtualization



App Delivery Dispersion – Virtualization



Secure Dispersed Networks

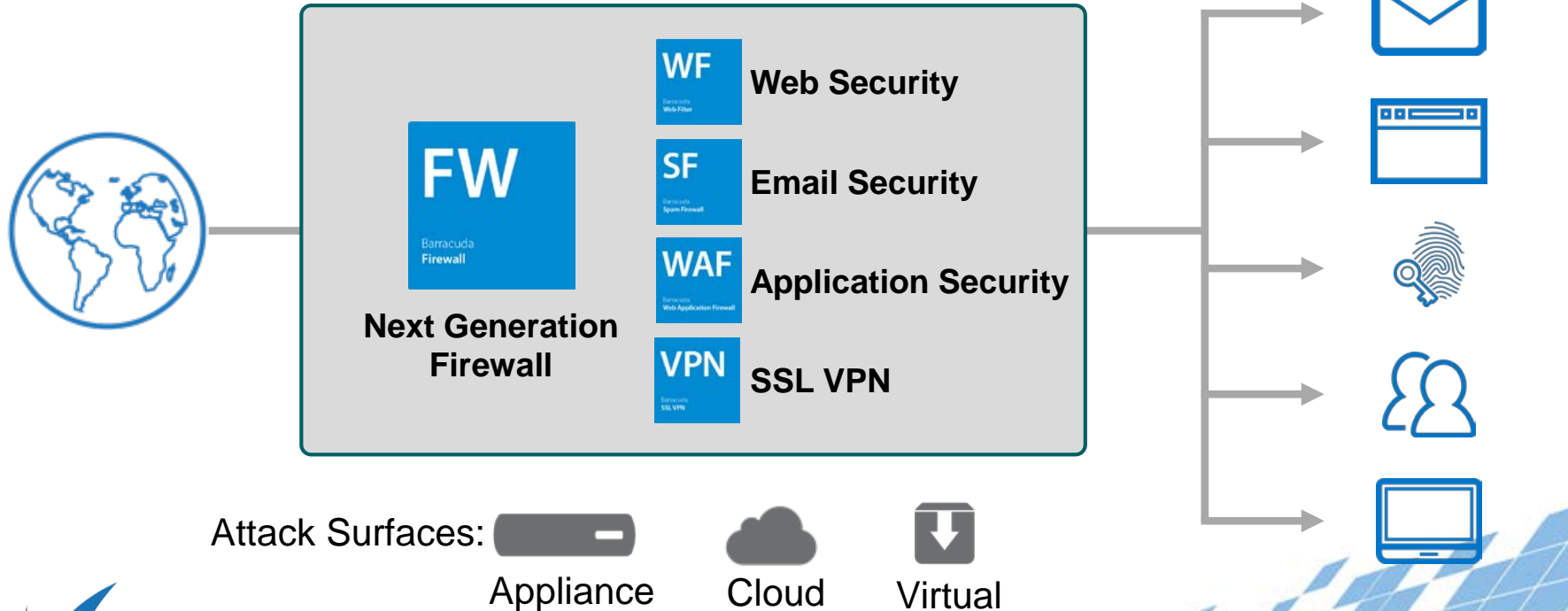
- ◆ Secure all network threat vectors
 - ◆ Extend to remote locations, users and applications
 - ◆ Cover all deployment surfaces – Physical, Virtual, Cloud
 - ◆ Centrally manage and monitor



TOTAL
THREAT
PROTECTION

Barracuda Total Threat Protection

Central Management and Reporting



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Thank You

