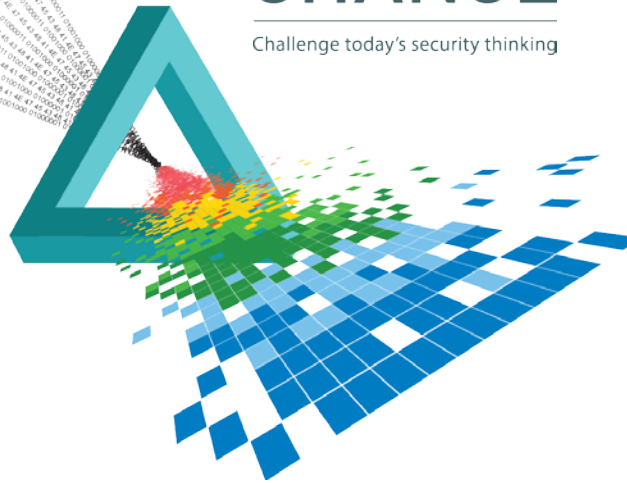
RSAConference2015

Singapore | 22-24 July | Marina Bay Sands

CHANGE

Challenge today's security thinking



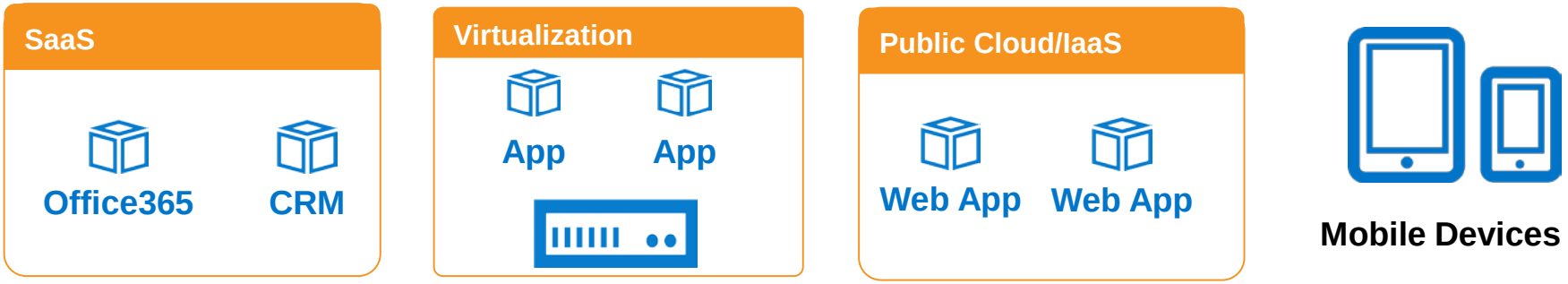
SESSION ID: SPO-F01

Securing Dispersed Networks

Sanjay Ramnath

Senior Director, Security
Barracuda Networks
@barracuda

Dispersion is Rampant



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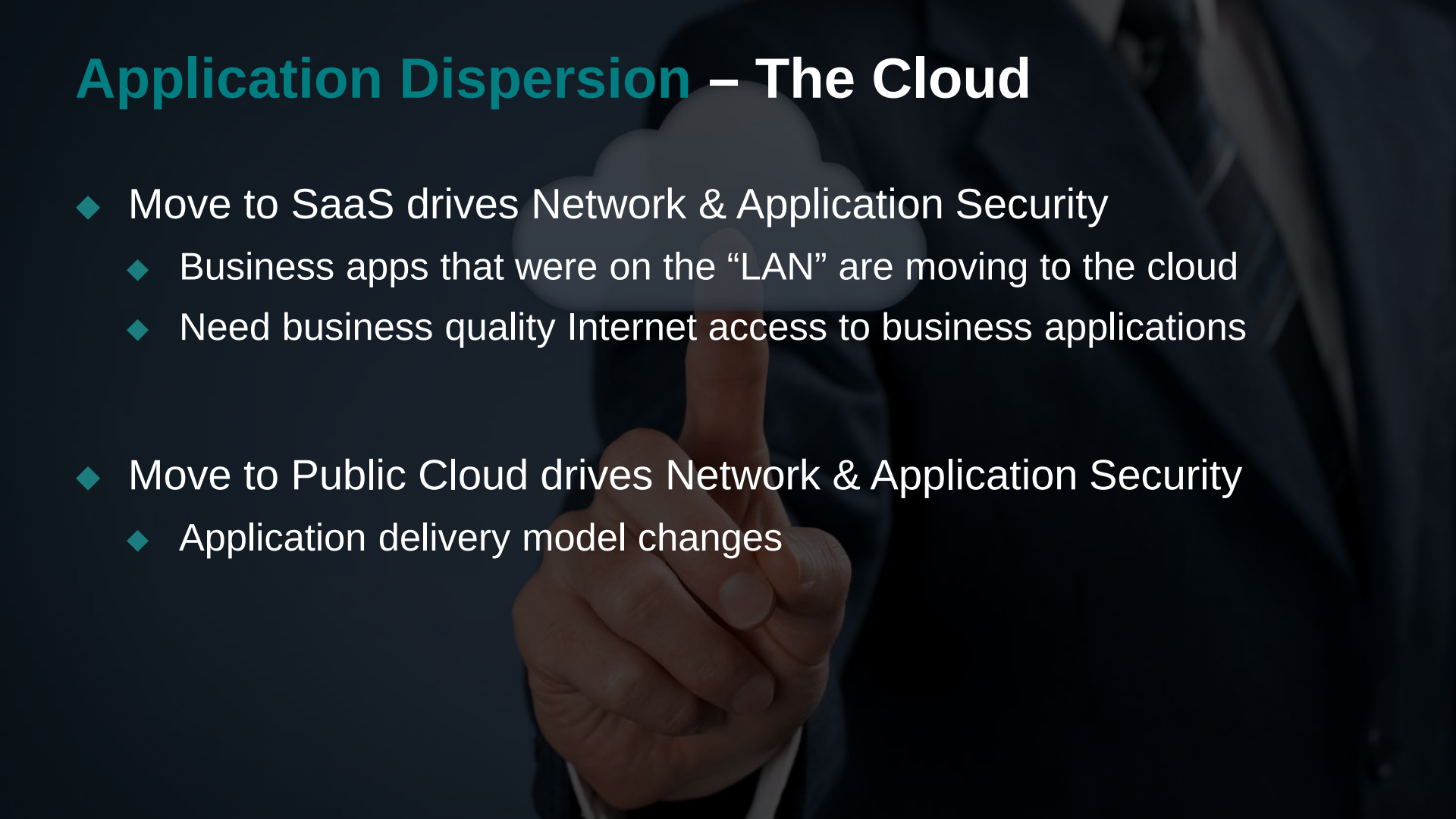
Drivers of Dispersion

- 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

Physical Network

Exchange

CRM

Web App

Users

apps

data

SaaS

Public Cloud

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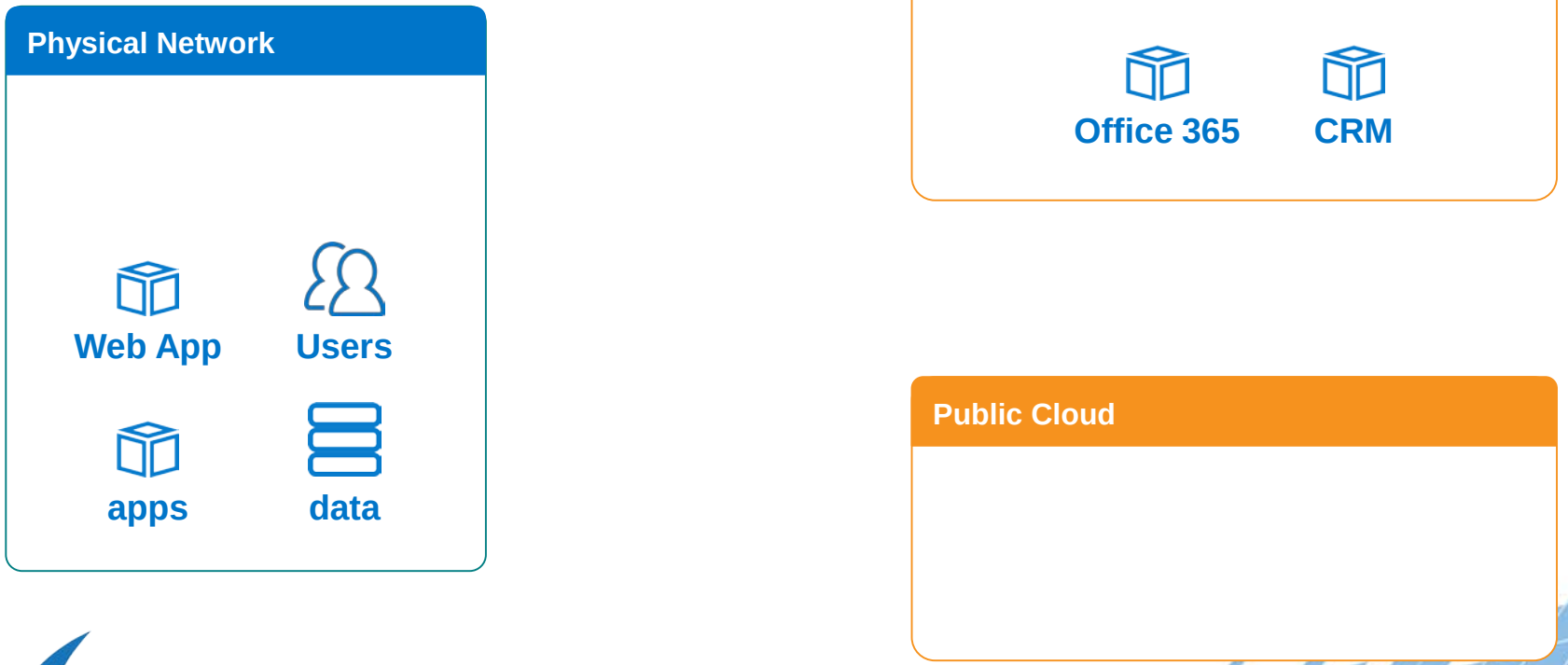
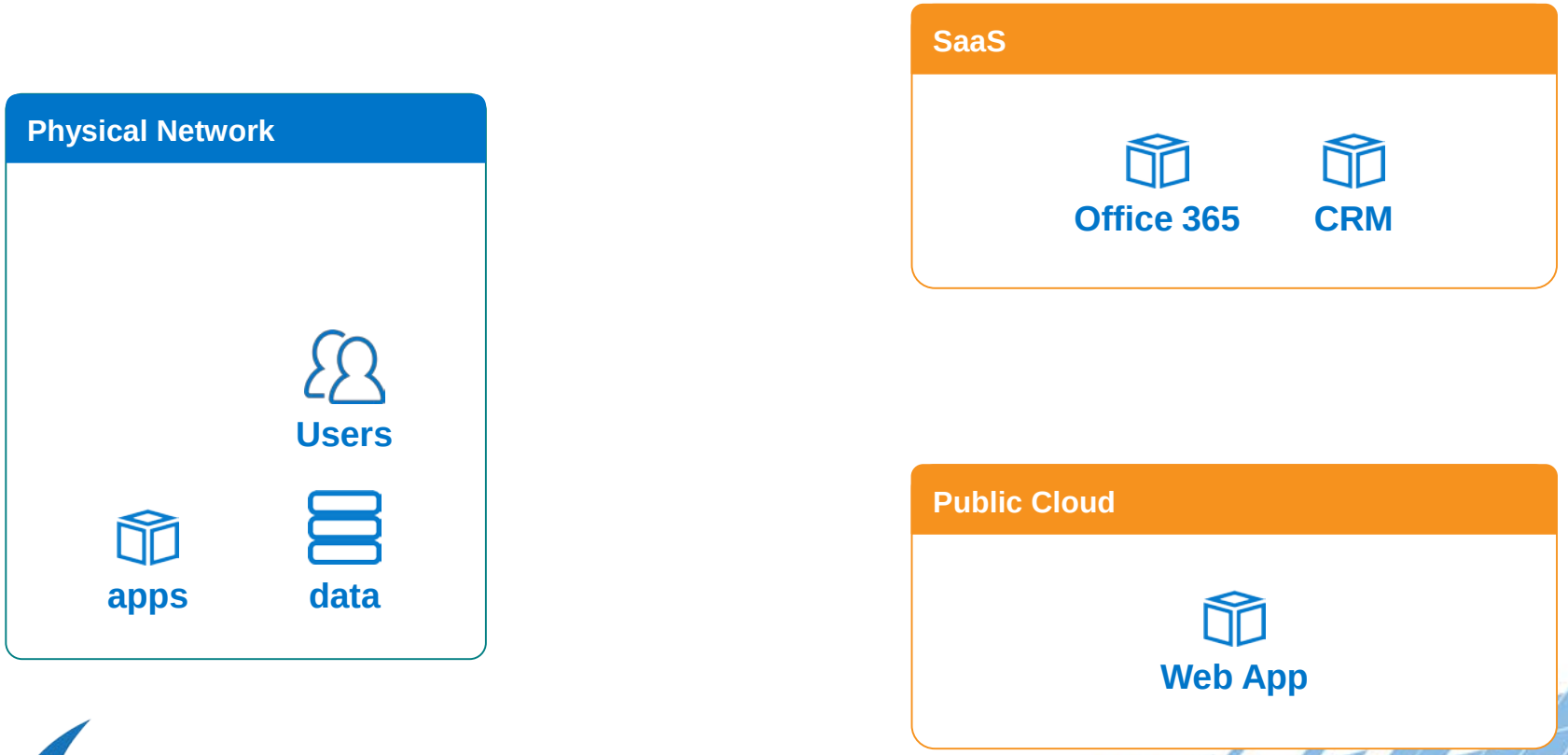
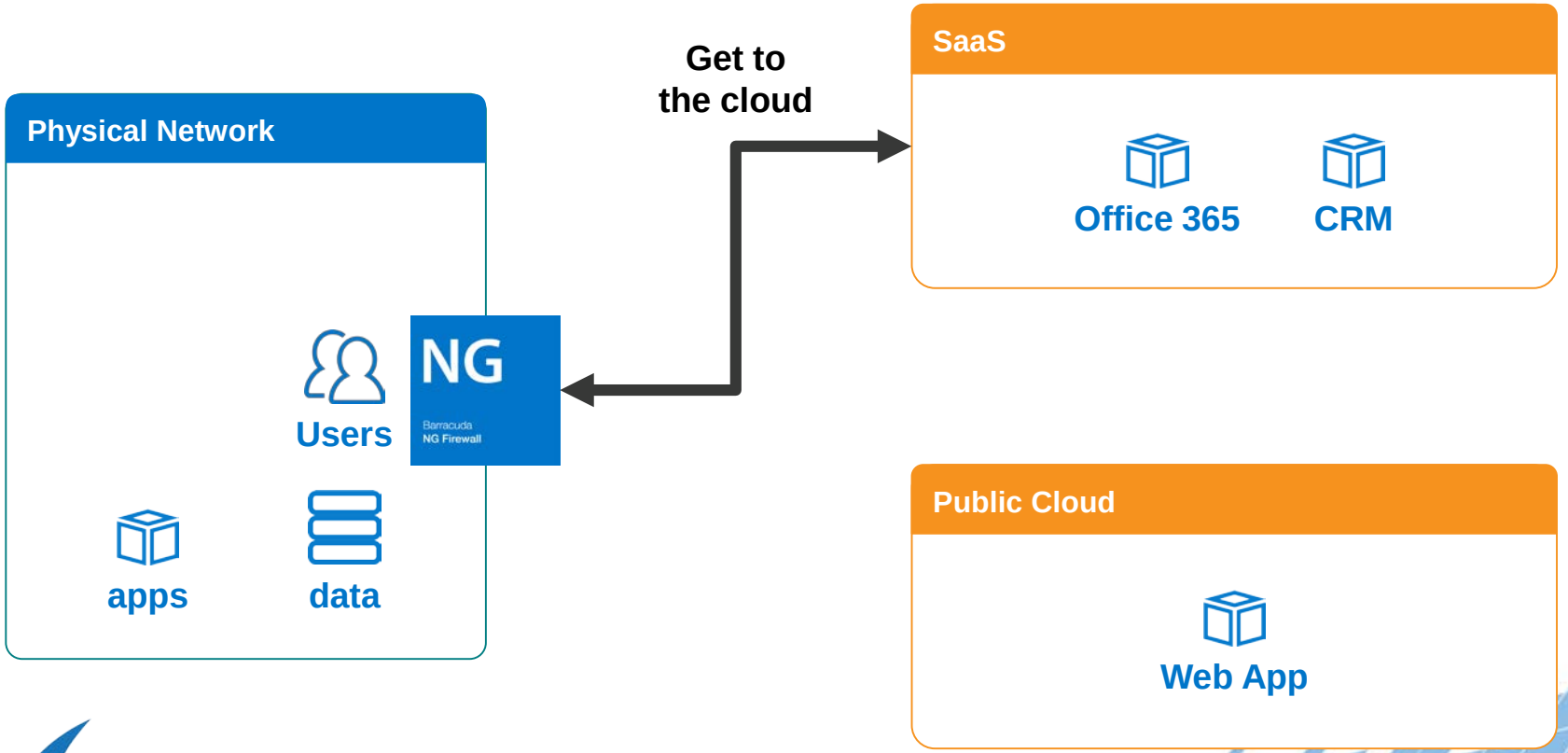
Application Dispersion – The Cloud



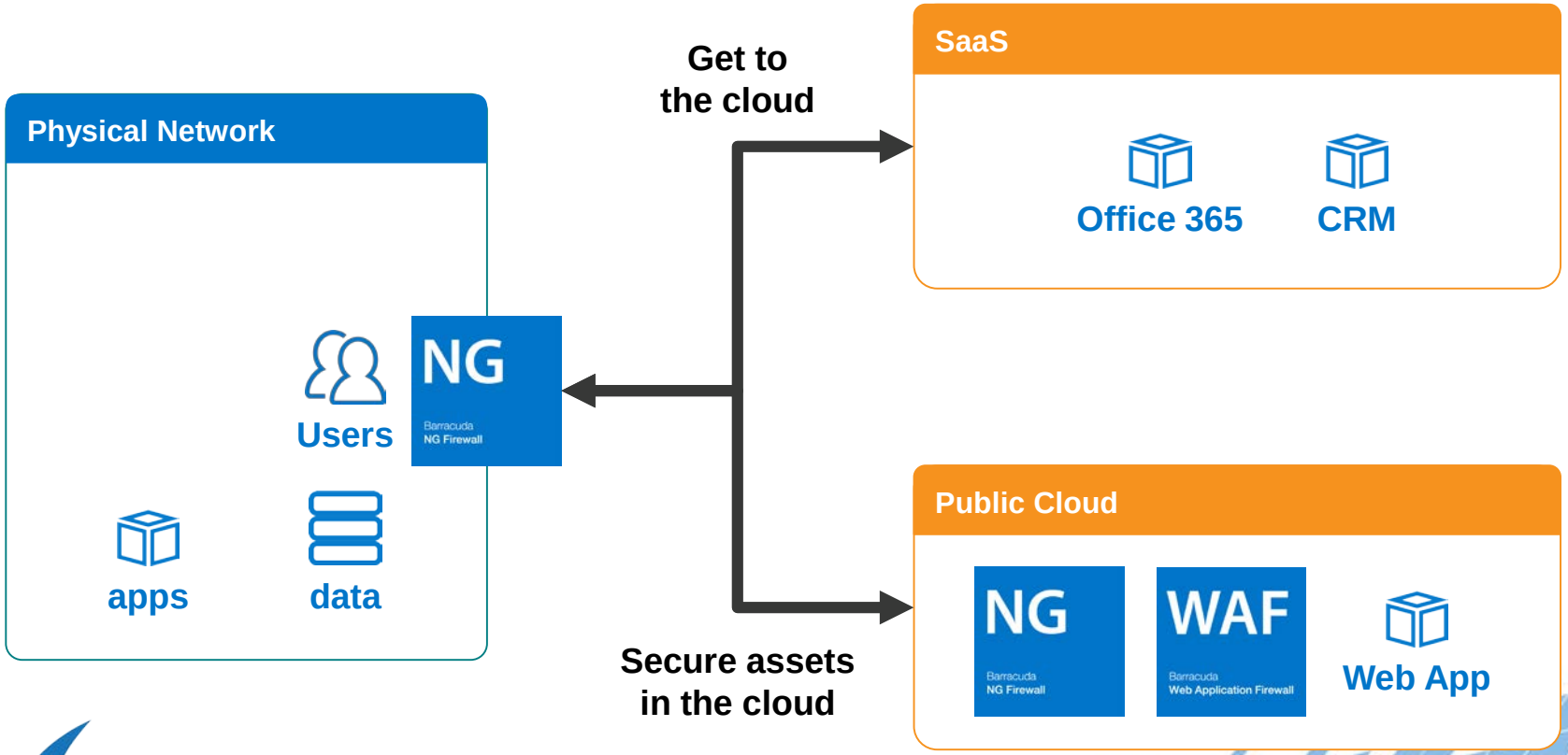
Application Dispersion – The Cloud



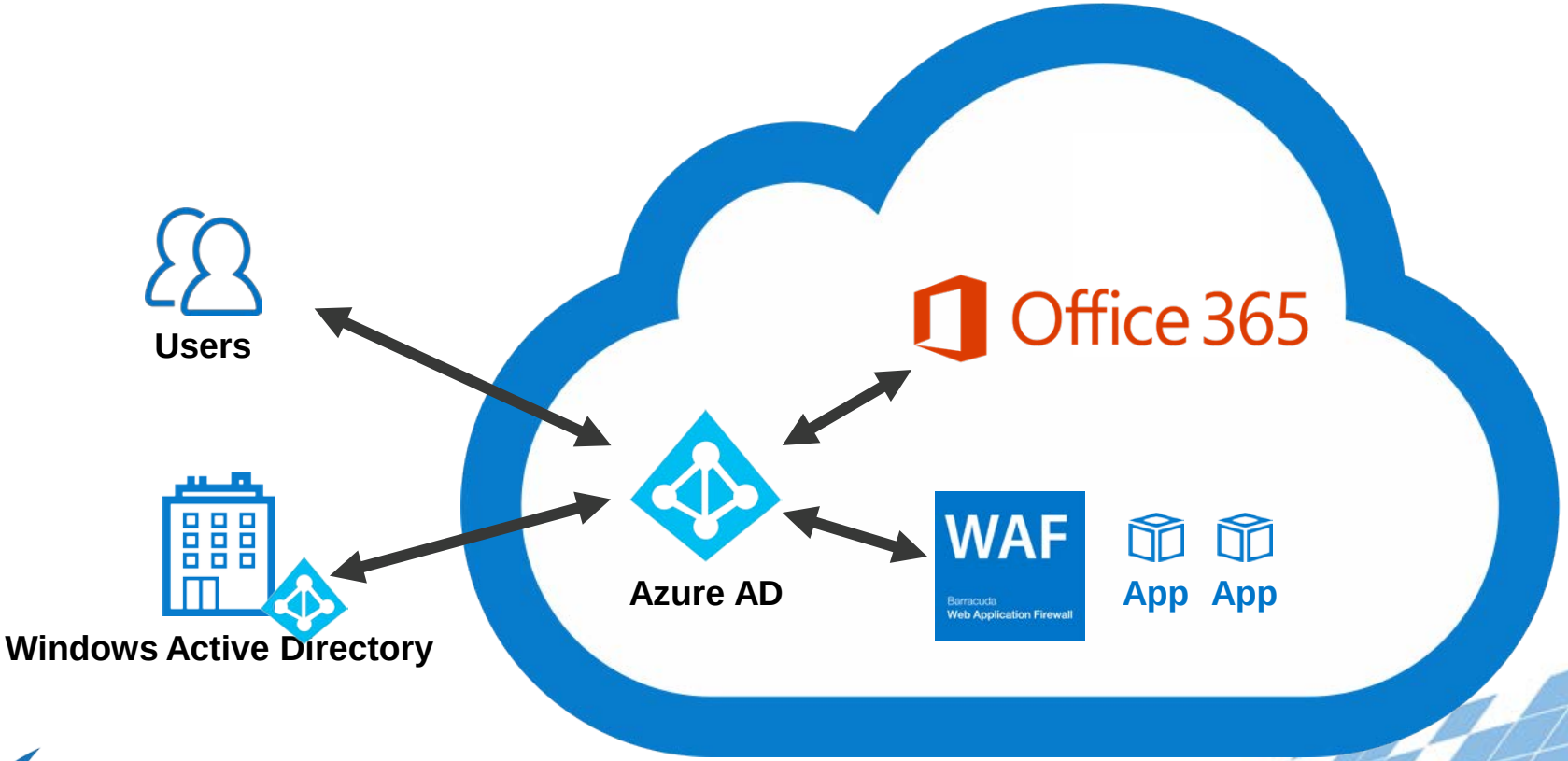
Application Dispersion – The Cloud



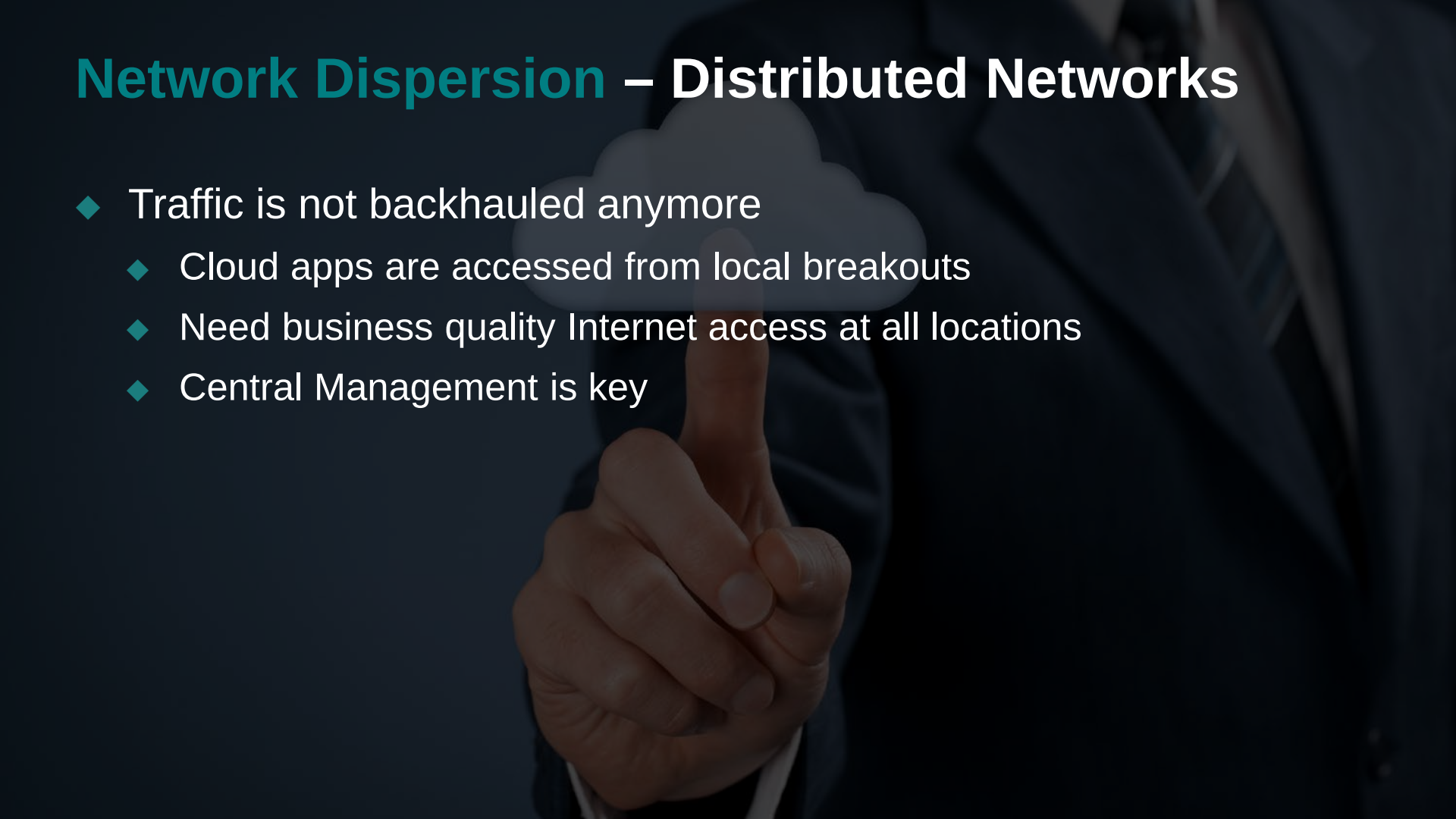
Application Dispersion – The Cloud



Azure AD – Single Sign-On to Internal Apps

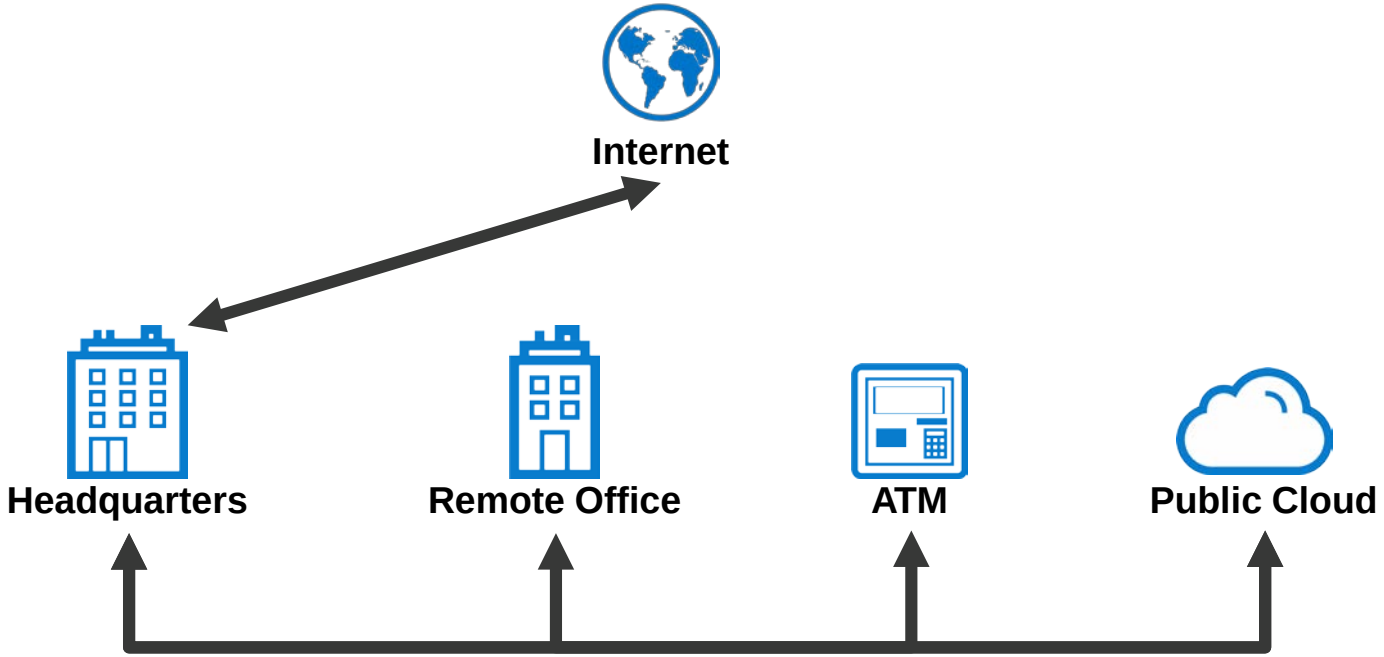


Network Dispersion – Distributed Networks

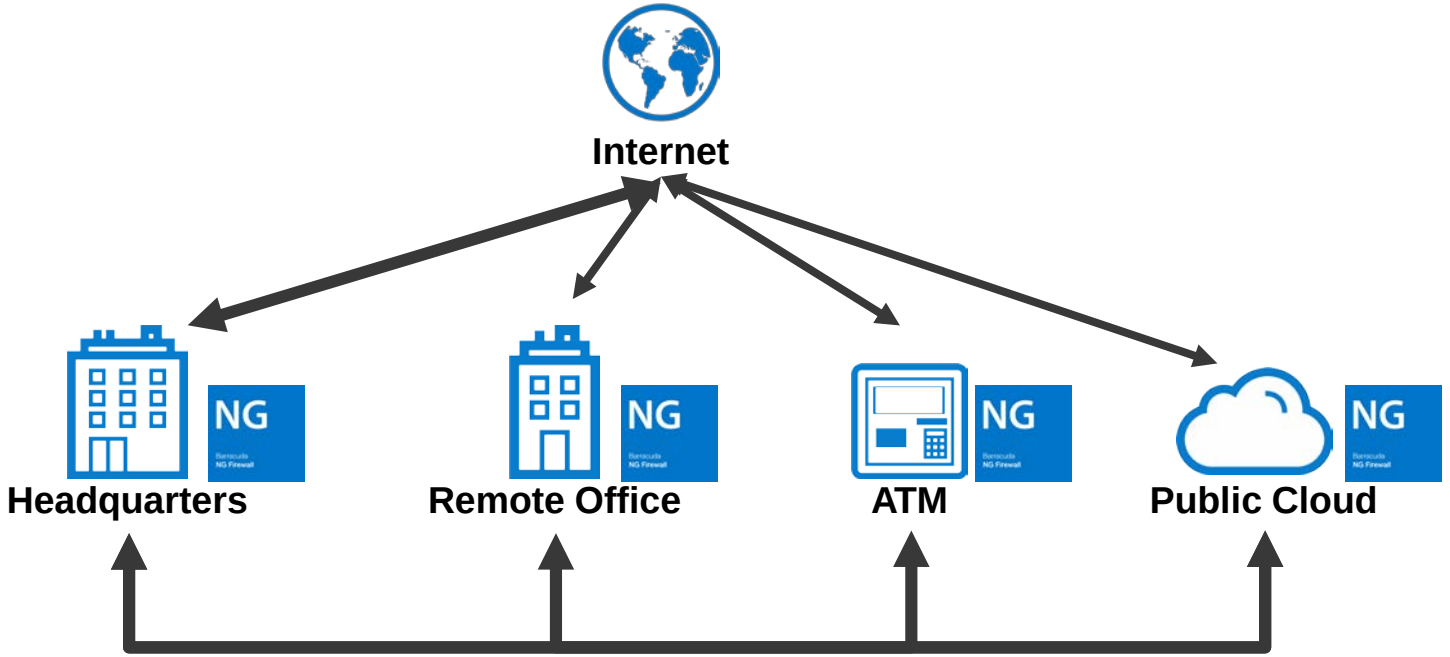


- Traffic is not backhauled anymore
  - Cloud apps are accessed from local breakouts
  - Need business quality Internet access at all locations
  - Central Management is key

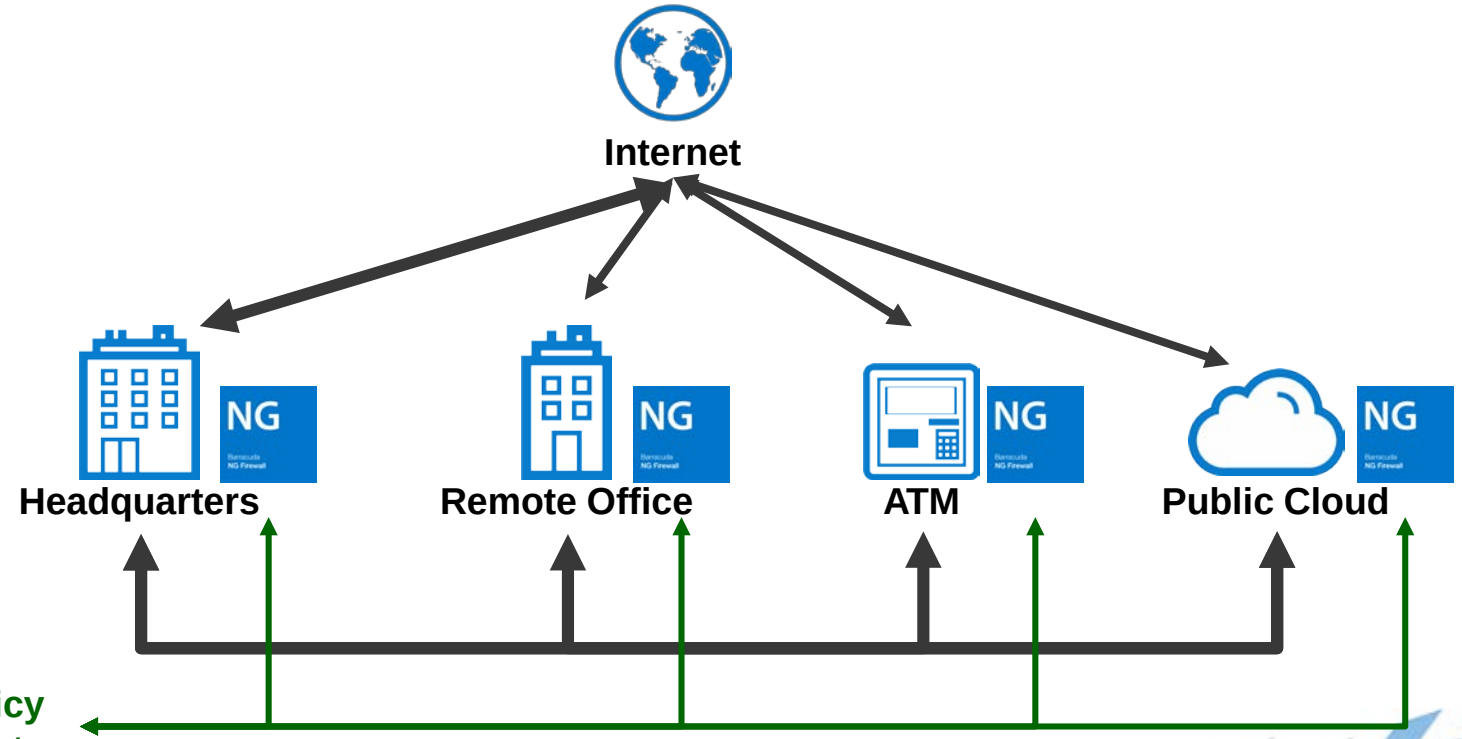
The Old World – Backhauling



The Old World – Backhauling



The Old World – Backhauling



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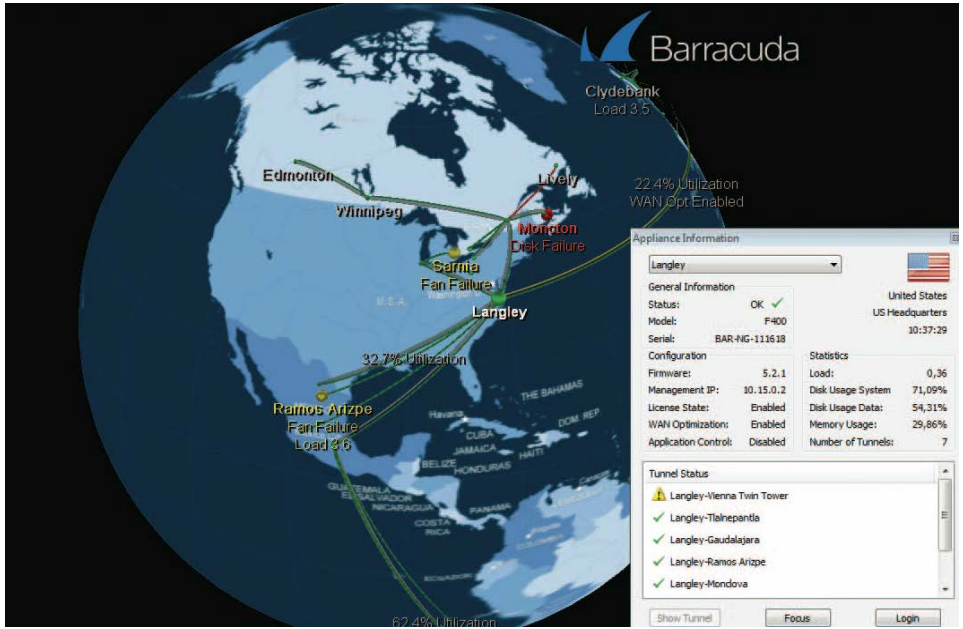
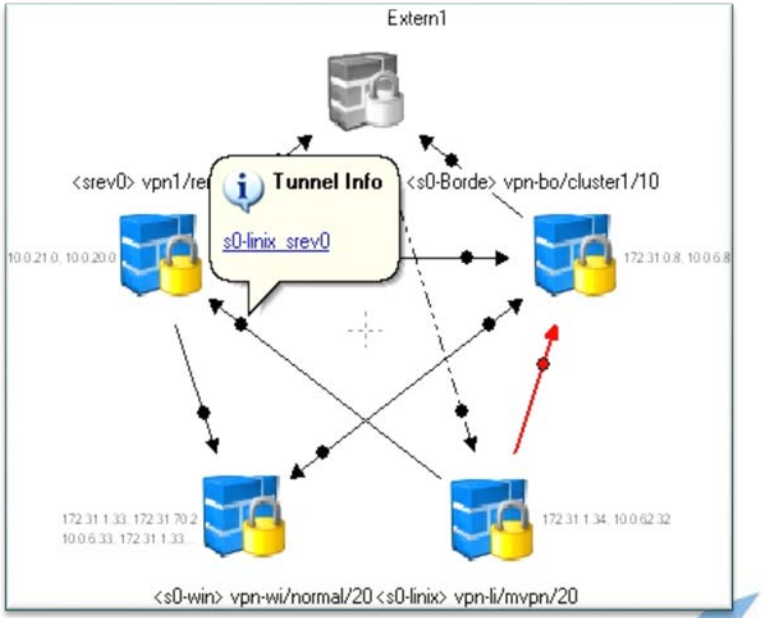
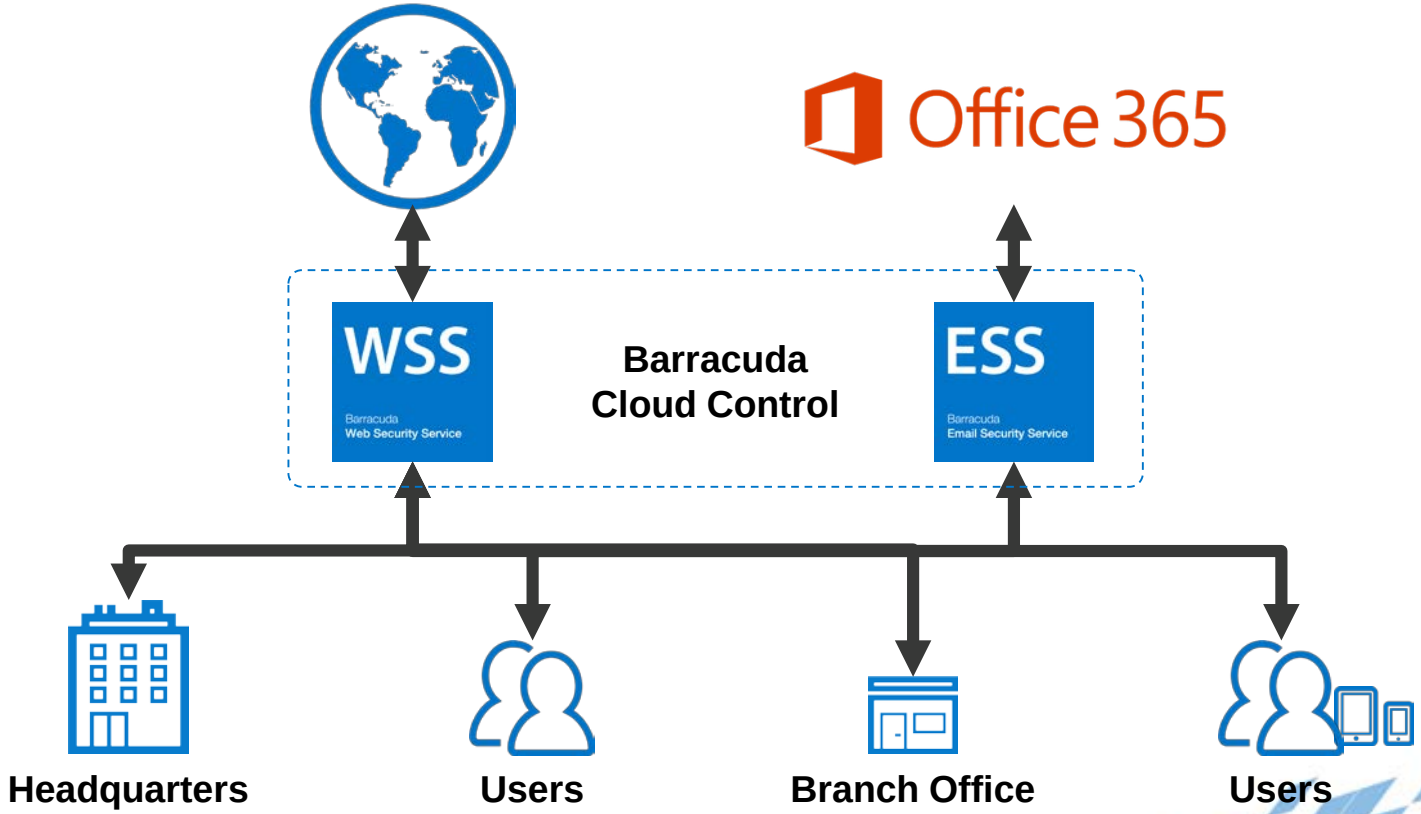
Network Dispersion – Central Management





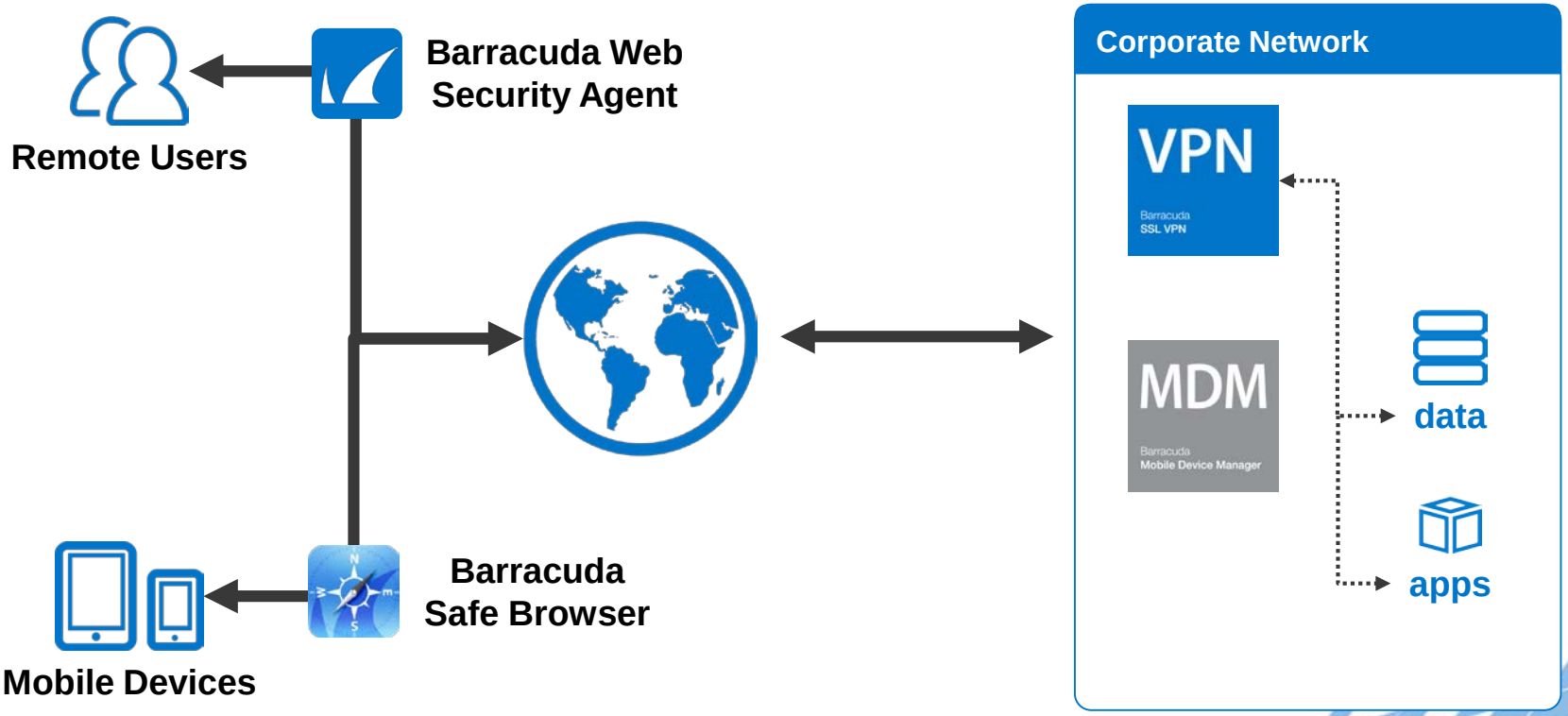
Network Dispersion – SaaS



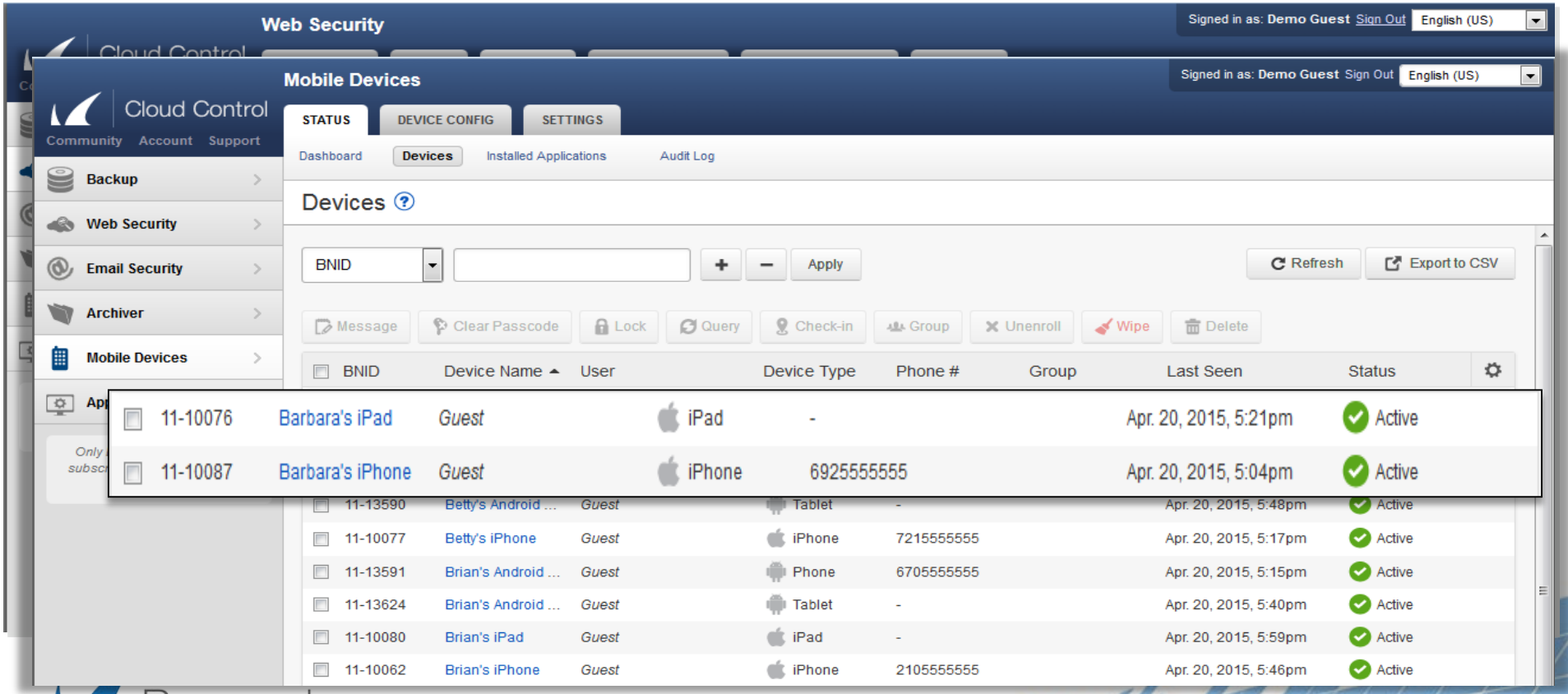
User Dispersion – Mobility User Dispersion

- 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



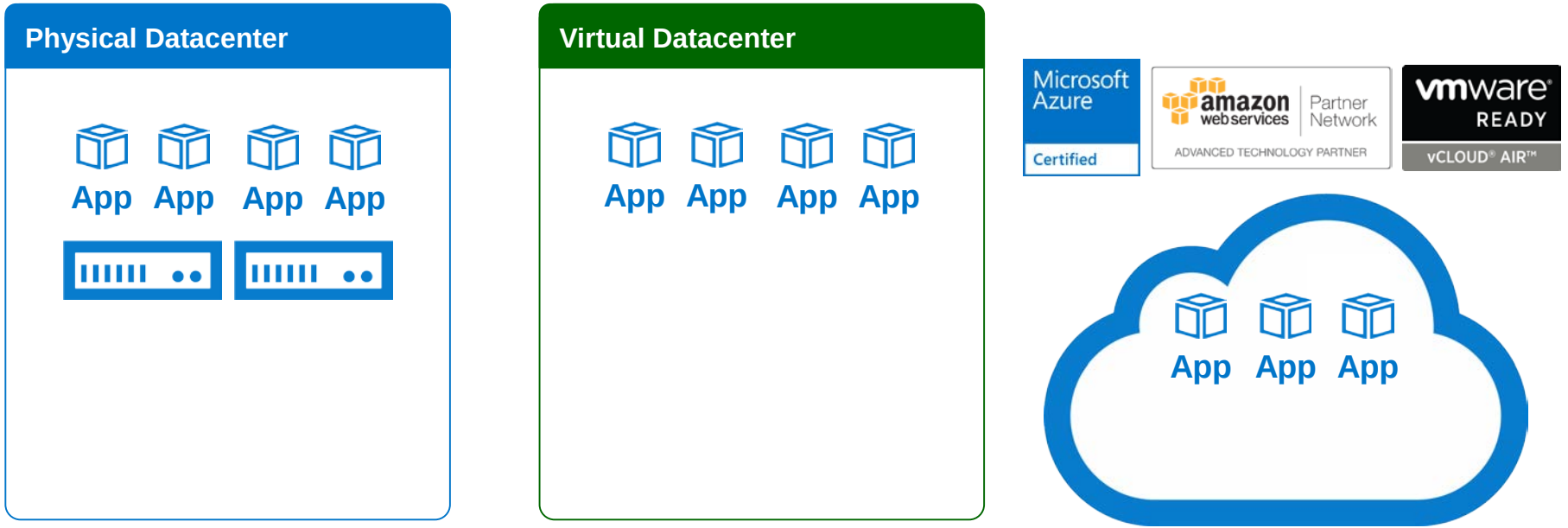
User Dispersion – Centralized Monitoring



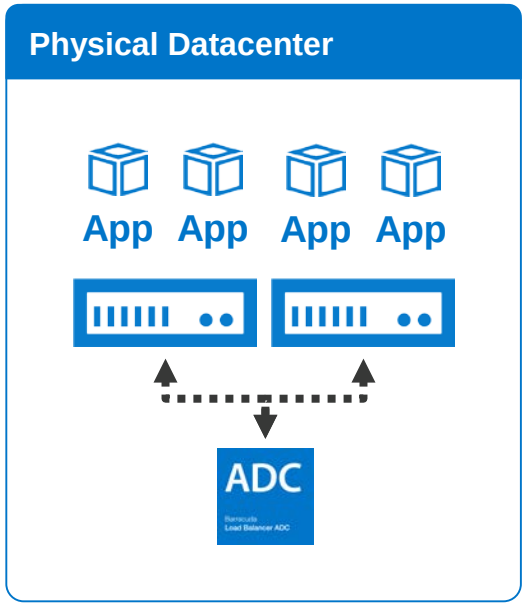
App Delivery Dispersion – Virtualization

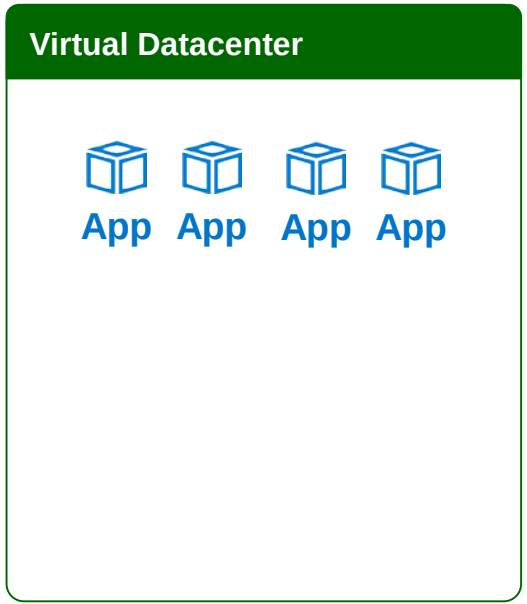
- Impact
  - Data Centers span Physical, Virtual and Public Cloud
  - Application traffic flows are non-deterministic
- New requirements
  - Connectivity
    - Secure, bandwidth optimized connectivity across all surfaces
  - Application Security
    - Application security that can migrate with the application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

App Delivery Dispersion – Virtualization

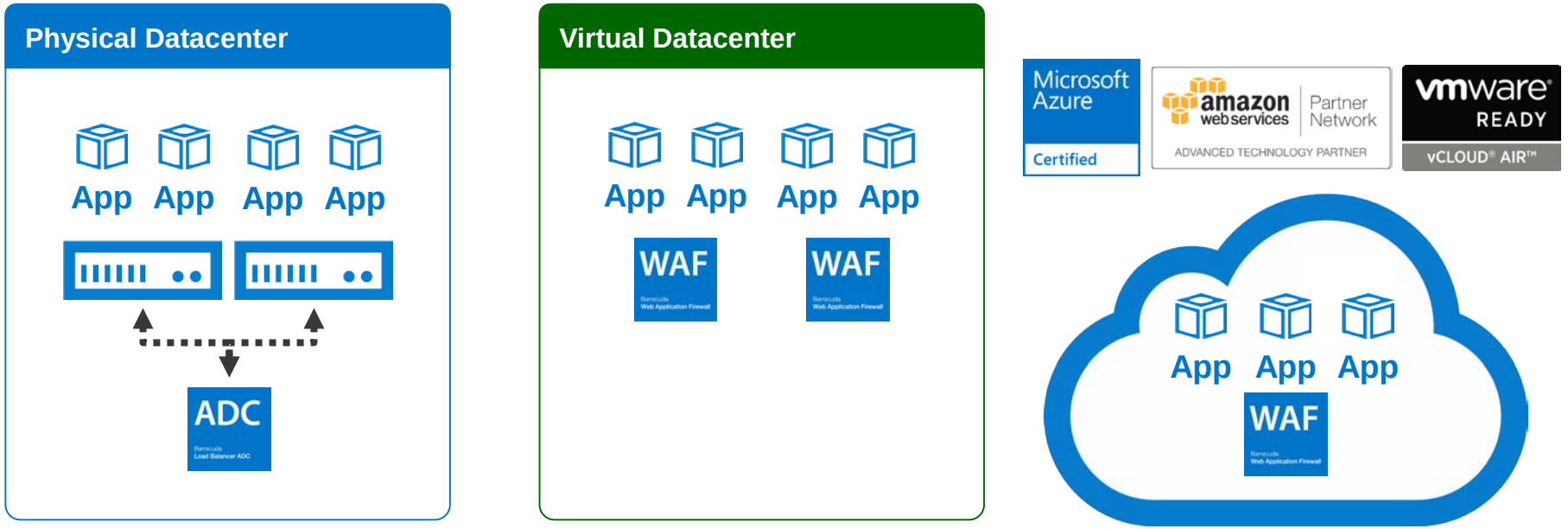


App Delivery Dispersion – Virtualization





App Delivery Dispersion – Virtualization



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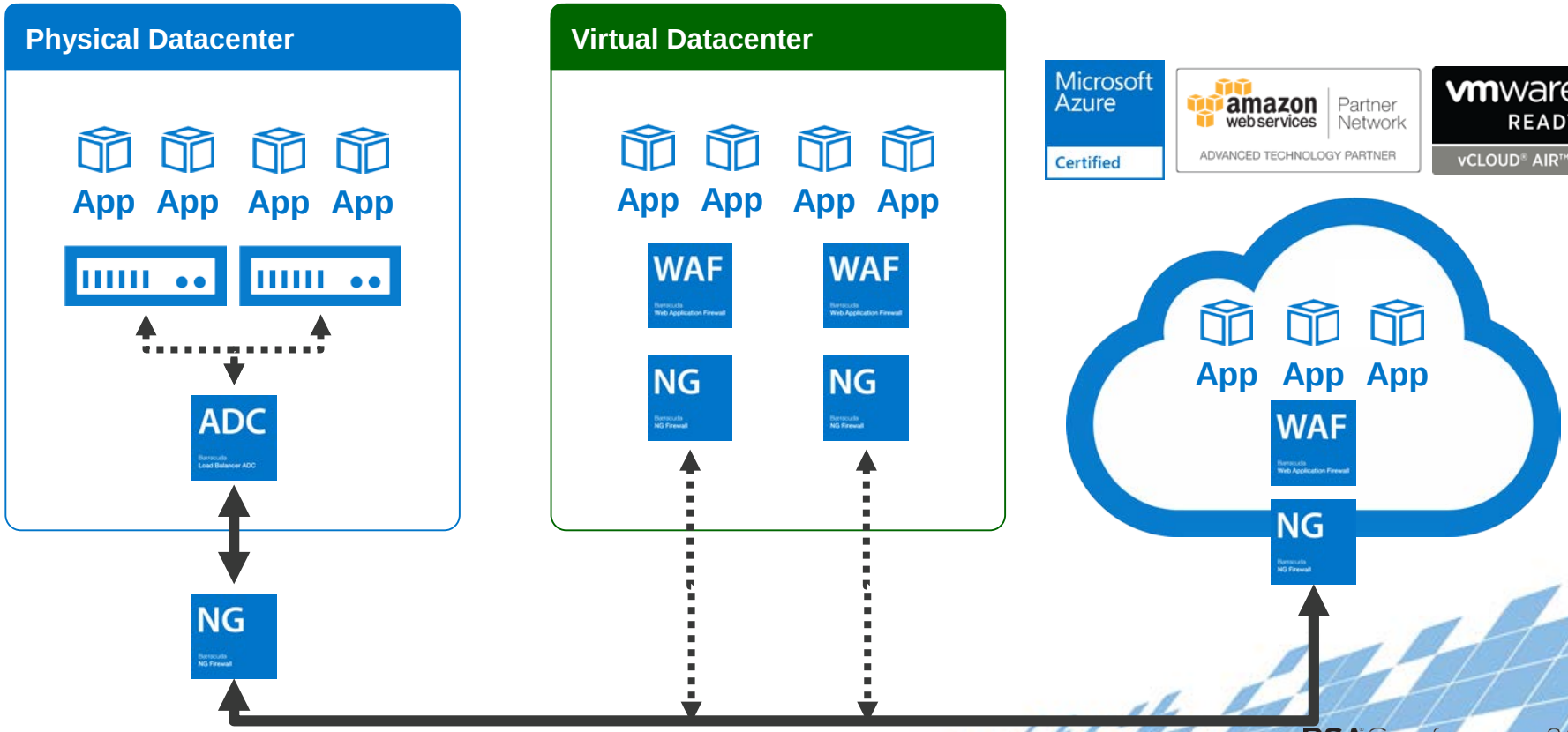

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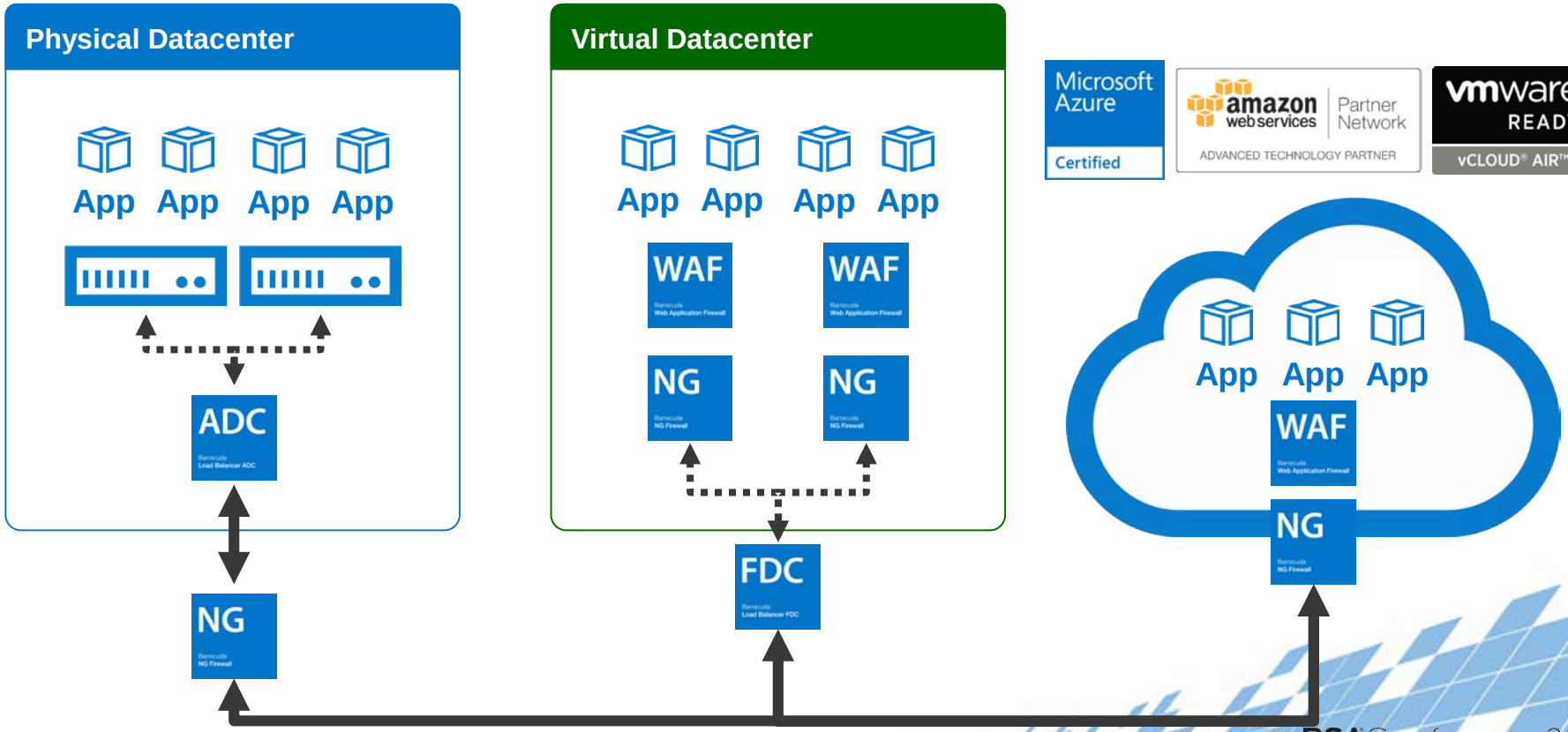
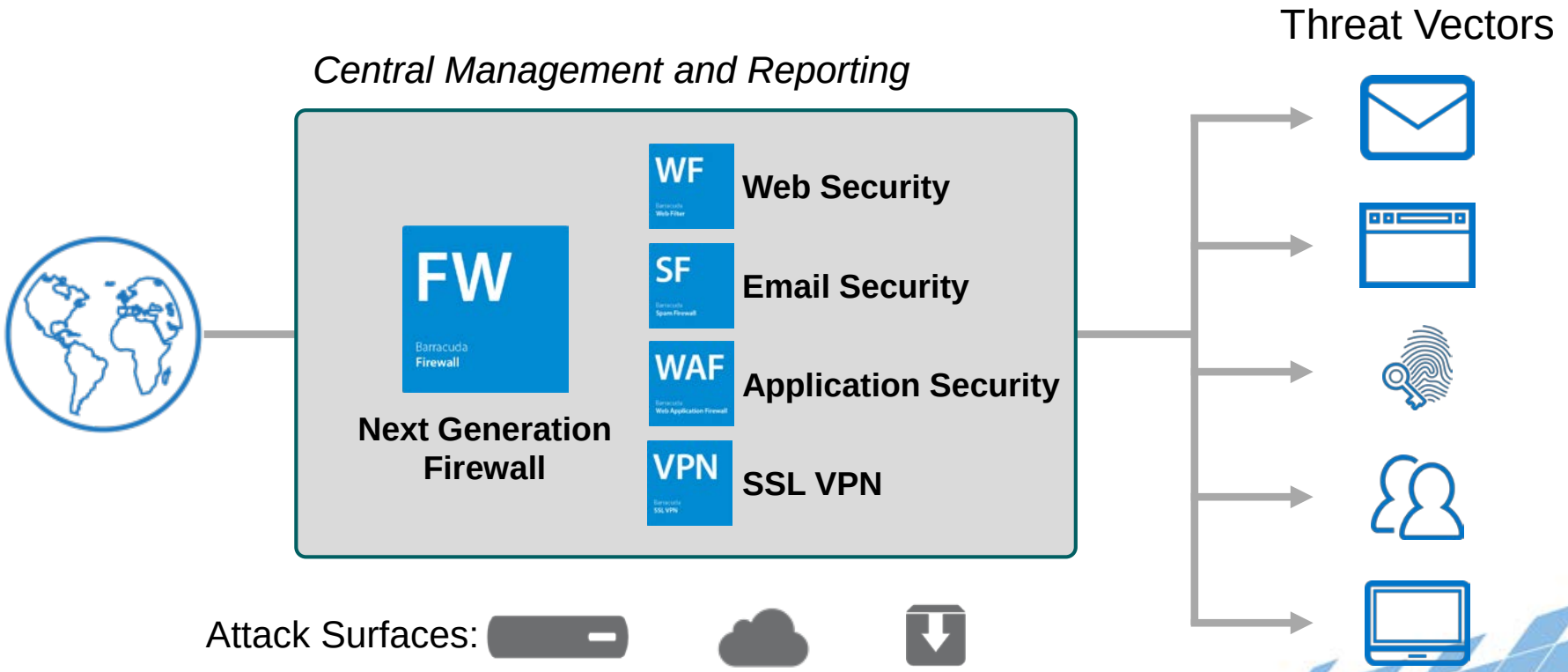


Secure Dispersed Networks

- 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



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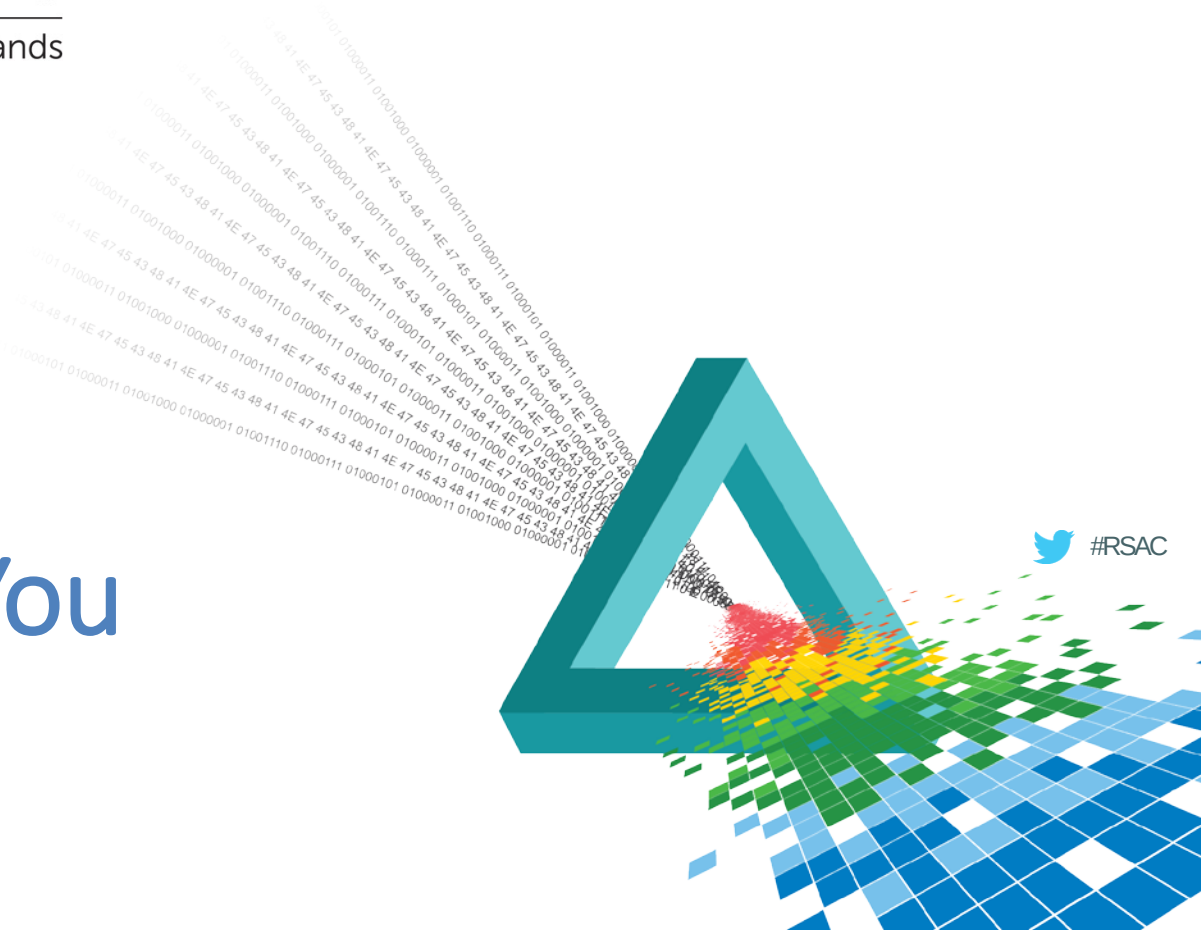
Thank You