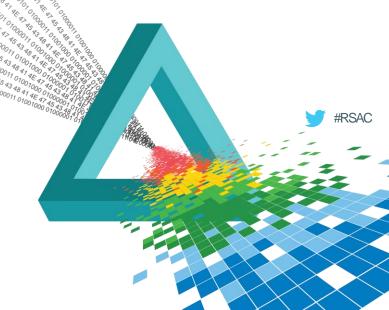
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Session ID: CDS-F01

Optimizing the Mobile Cloud Era Through Agility and Automation

Edwin Lee
Director of Enterprise Solutions, ASEAN
AirWatch by VMware



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Industry Trends





Explosive Growth of Mobile



Mobile worker population will reach

1.3 Billion in 2015

Source: IDC Worldwide Mobile Worker Population 2011-2015 Forecast



Tablets are forecasted to reach

468 Million in 2017

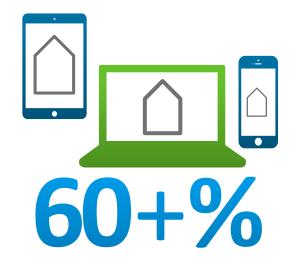
Source: Gartner Forecast: Devices by Operating System and User Type, Worldwide 2010-2017, 3Q13 Update



Smartphones forecasted to reach

2.1 Billion in 2017

Source: Gartner Forecast: Devices by Operating System, Worldwide, 2010-2017, 3Q13 Update



...of people reported they are using their personal device at work

Source: Gartner Device: The Facts and the Future, 11 April 2013



Business Mobility Transformation



3.5 Billion

Deployed globally by 2019

Source: Forrester Research World Mobile And Smartphone Adoption Forecast, 2014 To 2019 (Global: August 2014)



> 50%

Customer-facing and employee-facing IT investments will be mobile-focused

Source: Gartner 2015 CIO Agenda: 2,810 CIOs responded to this year's survey, representing approximately \$397 billion in IT spending across 84 countries



189 Billion

Invested to engineer platforms and processes for mobile engagement in 2017

Source: 2015: The Year Of The Mobile Singularity, Readwrite.com article, December

The Mobile / Cloud Era is Changing How We Work







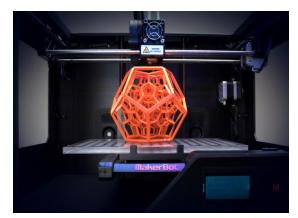
















What Users Want: Any App on Any Device



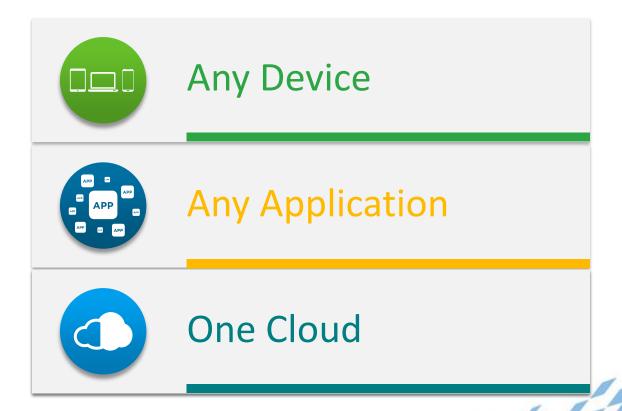


What IT Wants: Mobile Cloud Architecture





Our Focus Today







Harnessing Mobile and Cloud Is Challenging

































DECLINING BUDGET







New Approach to Mobile Security and Identity

Old Mindset

Only trust devices where you manage the OS

Device Trust established by the Domain

Access Controlled by Network Management







New Approach

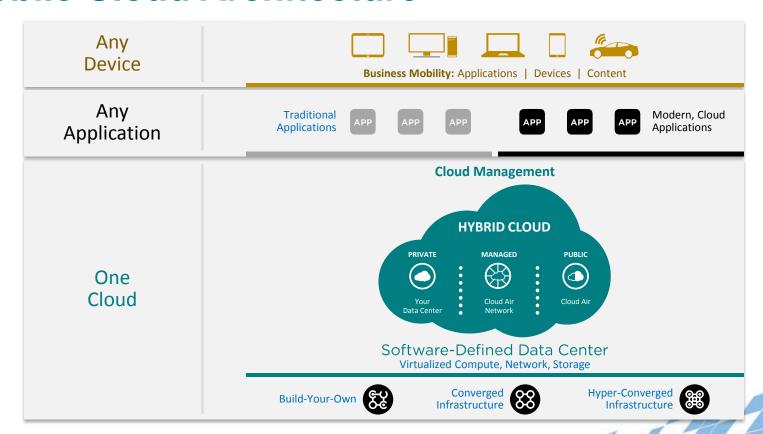
Manage and secure apps and content

Device Trust established through enrollment

Access Controlled by Identity Management



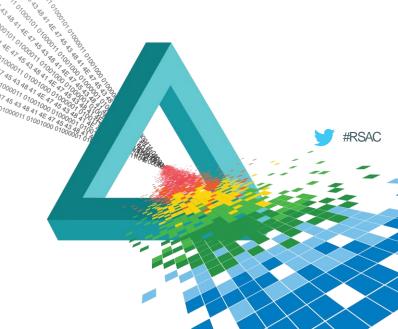
Mobile Cloud Architecture



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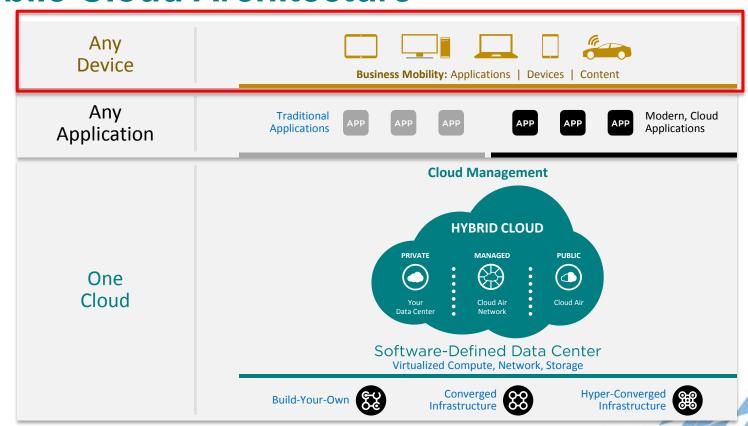
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AirWatch by VMware





Mobile Cloud Architecture





Enterprise Mobility Management (EMM)







Browser



Content



Device



Email



Workspace



Video



Chat



Display



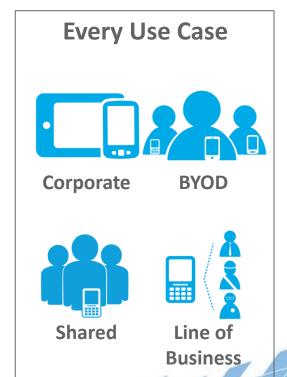
Teacher Tools



For Unified Endpoint Management



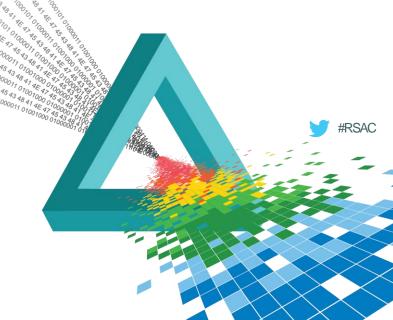




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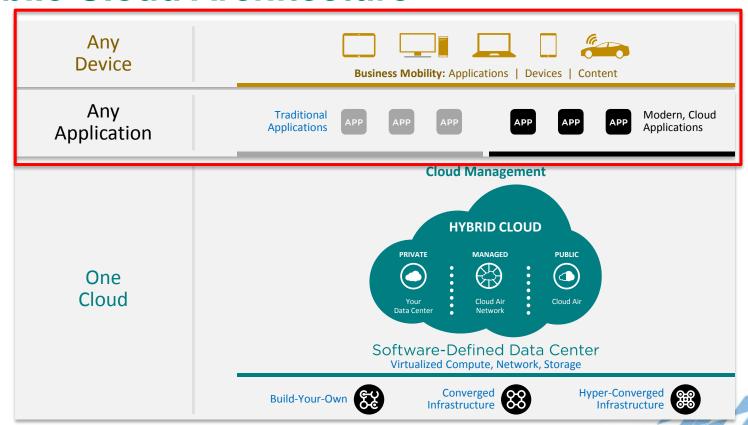
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VMware Identity Manager





Mobile Cloud Architecture





The Challenges Customers are Facing with Identity

Enforce security and compliance without hampering workers

Protecting apps and data from unauthorized access is important but authentication and ease of use needs to be straightforward



Time and complexity in delivering new apps and services services

Employees and their devices are increasingly on the go.
Access control to apps becomes more important than networks.
Device diversity adds to the complexity



Gaining visibility into user access. Who has access to when, and when

Real-time visibility, proactive alerting, reporting and analytics are all required to know what apps are being used, when, and by whom. This helps manage licensing, SLAs, and maintenance windows



Complexity of scale and growth (Operations, Helpdesk)

A general state of readiness to scale as traffic, users and devices grow in number across the organization







Simplify Business Mobility with One-touch From Any Device



- Enterprise Single Sign-On
- Industry leading support for Web, Windows, Native Mobile Apps – All from one place
- Pre-integrated with many enterprise apps

Optimize User Experience And Security with Airwatch® Adaptive Access



- Native integrated app launcher
- Dynamic per-App VPN
- AirWatch smart authentication
- Device Analytics

Empower Employees with a Self-Service App Store



- Self-service app catalog
- Responsive HTML5 app launcher
- User analytics
- Custom Brandable Web Portal
- Application provisioning

Grow with Trusted VMware Enterprise-grade Hybrid Cloud Infrastructure



- Directory integration and federation
- Hybrid deployment model
- Conditional Policy Engine
- Universal Authentication Broker



When Identity Management meets AirWatch Mobility Management



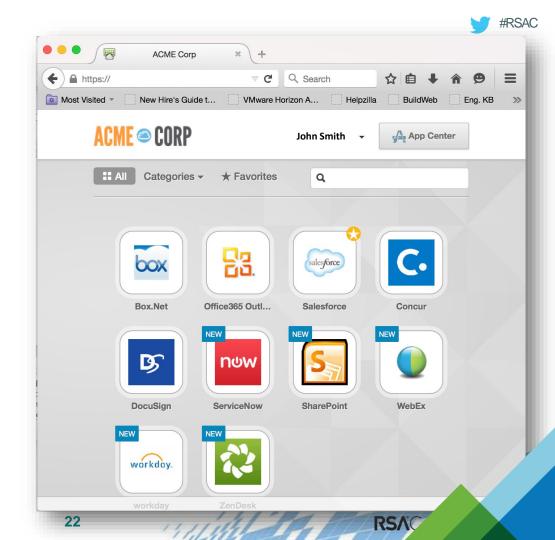
Native Mobile Single Sign-On

- ✓ No app wrapping or SDK
- ✓ One-touch authentication
- ✓ Managed or Unmanaged Conditional Access
- ✓ Built in CA
- ✓ Built in VPN
- ✓ Built in IdP
- ✓ Built in Kerb / Cert adapter



Empower employees

- Self-service app catalog
- Responsive HTML5 app launcher
- User analytics
- Custom skinned web portal
- Application provisioning

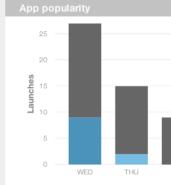


Grow with trusted VMware enterprise-grade infrastructure

- Directory integration and federation
- Hybrid deployment model
- Conditional Policy Engine
- **Universal Authentication** Broker



User	Last Login
khebert	12m ago
charrison	39m ago
victorthu	49m ago
cheyer	50m ago
meakes	59m ago
🔔 sravuri	2h 16m ago
shraddha	3h 48m ago
🔔 rchayanam	1d 7h 35m ago
🔔 bwightman	1d 8h 5m ago
A rheffer	1d 8h 51m ago
petrushkoa	1d 14h 20m ago
🔔 pewang	1d 7h 35m ago
khebert	1d 8h 5m ago
charrison	1d 8h 51m ago
victorthu	1d 14h 20m ago
cheyer	1d 19h 42m ago
meakes	1d 7h 35m ago

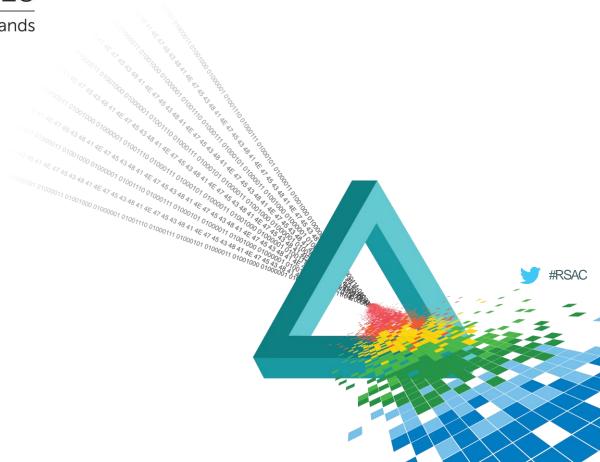




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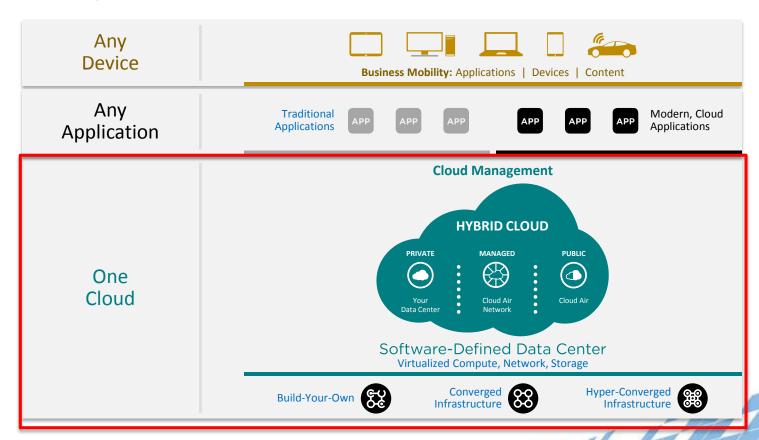
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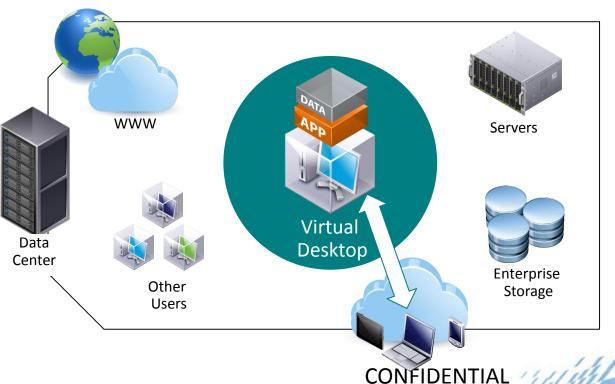
Mobile Cloud Architecture



Desktop & App Virtualization: Better Security for Data at Rest



Desktop and app virtualization places O/S, apps and data in the data center





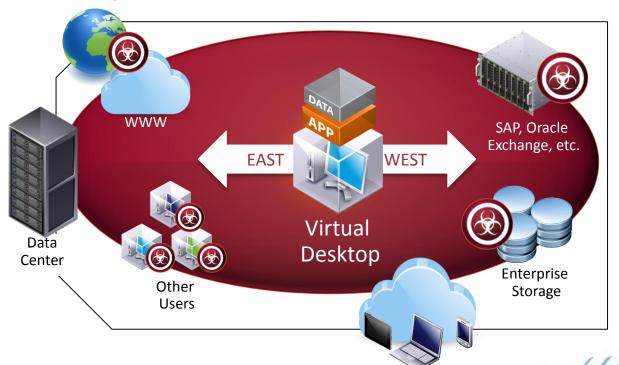
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Your Data Center = Much Larger Attack Surface

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Desktop Virtualization poses new security considerations:

- Exposes very large attack surface within the data center
- Multiple "east-west" flows between users and infrastructure



What VDI Doesn't Address:



User behaviors



Zero-day threats



Compromised internet websites



sktop-to-desktop hacking



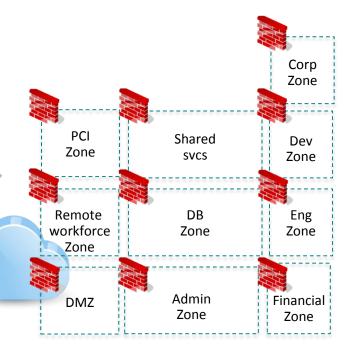
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Organizations with focus on compliancy and risk mitigation will implement security zones to protect East-West flows within the data center

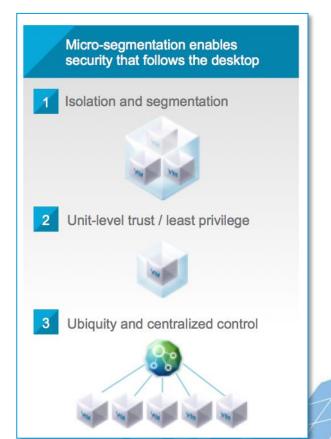
- Hard to implement
- Lots of physical infrastructure required
- Complex to manage





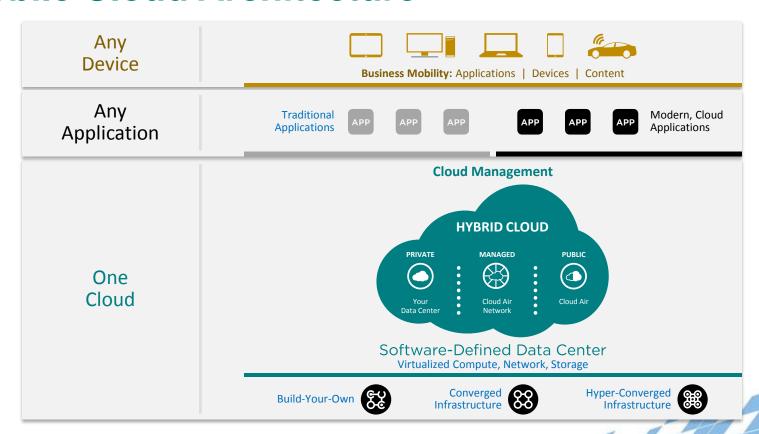
NSX Micro-segmentation: Addressing the East-West-Challenge

- Establish a "network of one" for each desktop
- Eliminate cross-talk between networks
- Minimized attack surface keep threats from spreading
- Policy defined centrally, automatically attached to VM as created
- Persistently follows desktop wherever it resides





Mobile Cloud Architecture





Thank you!