### WINDOWS 10

WHAT TO DO NOW

### **ARRAYA SOLUTIONS**

Educating, Engaging, and Elevating IT since 1999

Chuck Kiessling Director, Cloud and Workspace Solutions

### AGENDA

- □ Why are we here?
- □ What is your story?
- □ What are some key items to help your journey?
- Changes to Desktop Security
- □ WaaS: Servicing your Security Needs





### INTRODUCTIONS

### Chuck Kiessling Director, Cloud and Modern Workspace Practice ckiessling@arrayasolutions.com Twitter: @CKiessling





Microsoft Partner

Gold Cloud Productivity Gold Cloud Platform Gold Datacenter Gold Enterprise Mobility Management Silver Collaboration and Content

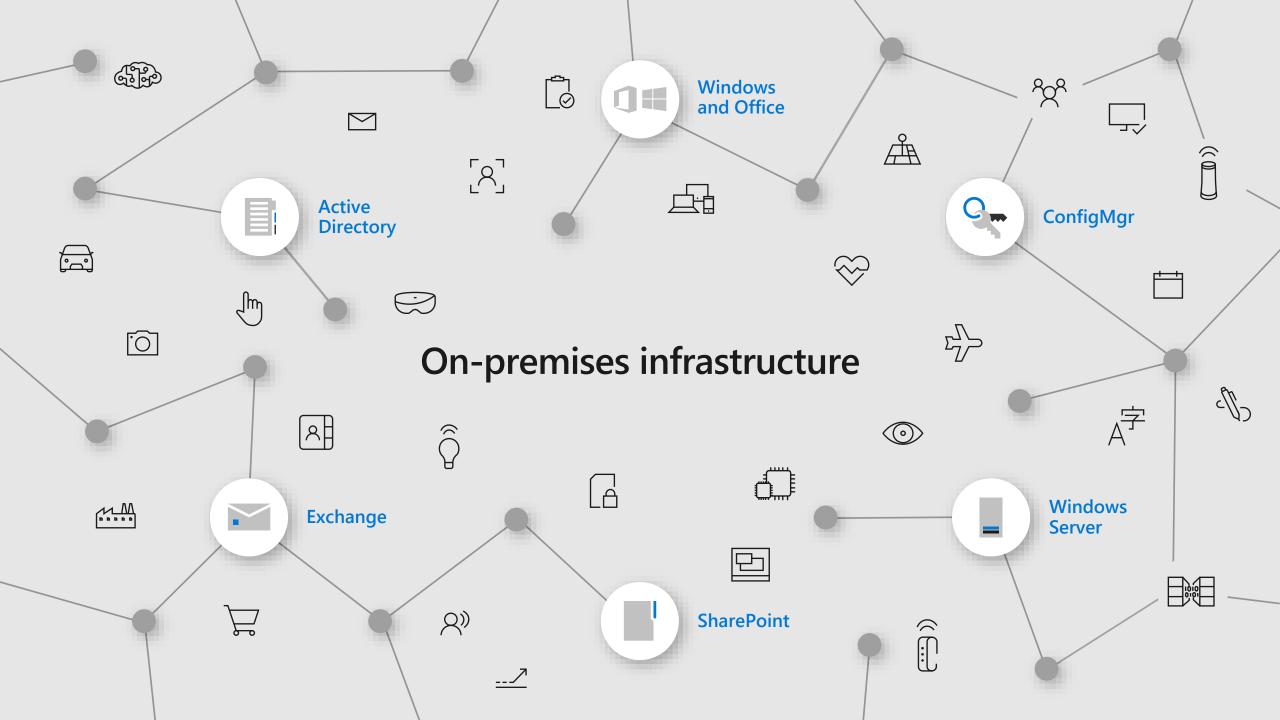
### WHAT IS YOUR INTEREST IN THIS SESSION?

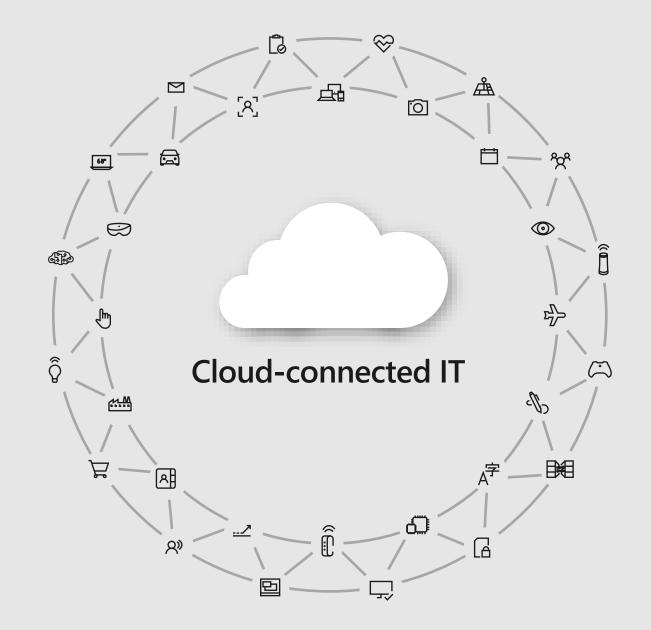


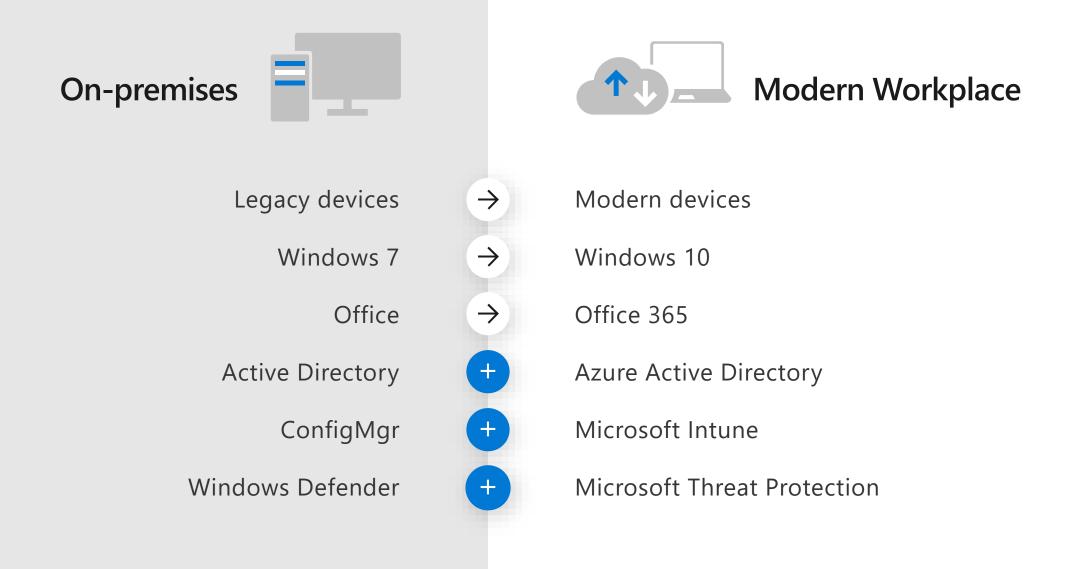














### Cloud-connect what you have today





## What is your Digital Transformation Story?

Device safeguards Threat resistance Identity protection Information security Threat detection and response

### THE MICROSOFT INTELLIGENT SECURITY GRAPH

Cyber threat intelligence collected from unparalleled security information sources

Billions of data points

Detect threats before they do damage

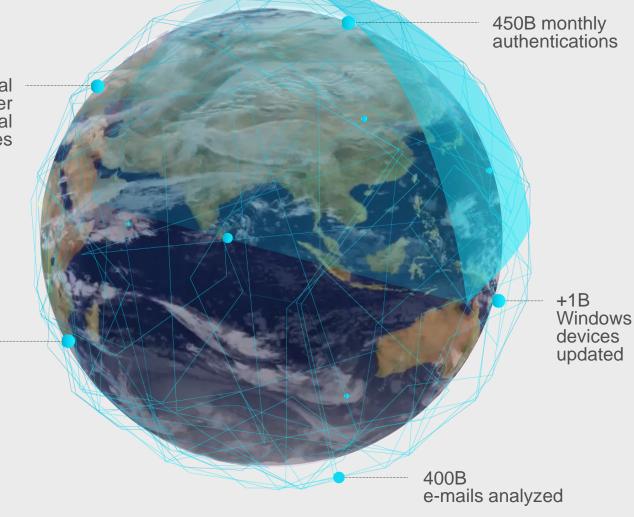
Powered by machine learning and human intelligence

200+ global cloud consumer and commercial services

18+ billion

Bing web

pages scanned





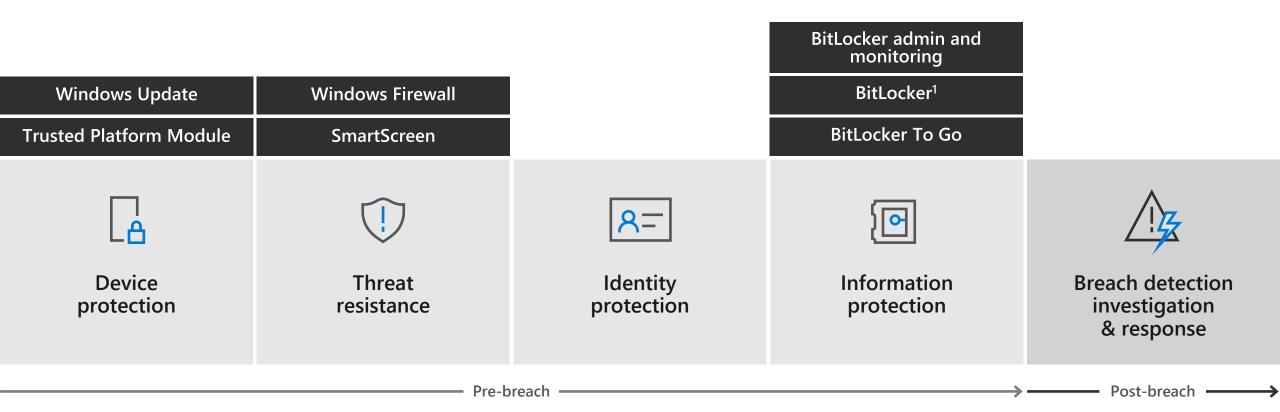
### Where do these data points come from?

### WINDOWS 10: THE MOST SECURE WINDOWS EVER

#### **PROTECT, DETECT, and RESPOND**







	Microsoft Edge		Windows Information Protection <sup>3</sup>	
Windows Trusted Boot	Windows Defender		BitLocker admin and monitoring	
Windows Update	Windows Firewall	Windows Hello companion devices	BitLocker <sup>1</sup>	
Trusted Platform Module	SmartScreen	Windows Hello <sup>2</sup>	BitLocker To Go	Windows Defender Advanced Threat Protection <sup>4</sup>
Device protection	Threat resistance	R= Identity protection	Information protection	Breach detection investigation & response
	Post-breach>			

<sup>1</sup>Requires TPM 1.2 or greater. <sup>2</sup>Windows Hello requires specialized hardware such as fingerprint reader, illuminated IR sensor, or other biometric sensors depending on the authentication enabled. <sup>3</sup>Windows Information Protection requires either Mobile Device Management (MDM) or System Center Configuration Manager to manage settings. These products sold separately. Active Directory makes management easier but is not required. <sup>4</sup>Windows Enterprise feature.

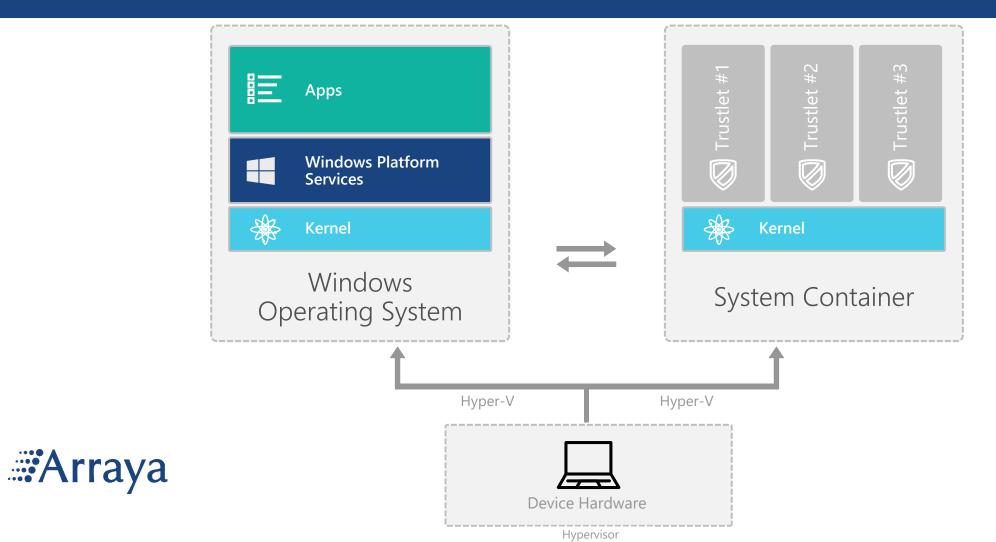
Virtualization-based	Windows Defender		Device encryption			
security	Application Control		Windows Information			
UEFI Secure Boot	Microsoft Edge		Protection <sup>3</sup>			
Windows Trusted Boot	Windows Defender	Credential Guard <sup>4</sup>	BitLocker admin and monitoring	Security management		
Windows Update	Windows Firewall	Windows Hello companion devices	BitLocker <sup>1</sup>	Conditional access		
Trusted Platform Module	SmartScreen	Windows Hello <sup>2</sup>	BitLocker To Go	Windows Defender Advanced Threat Protection <sup>4</sup>		
Device protection	Threat protection	R= Identity protection	Information protection	Breach detection investigation & response		
Pre-breach ———— Pre-breach ———— Post-breach ———						

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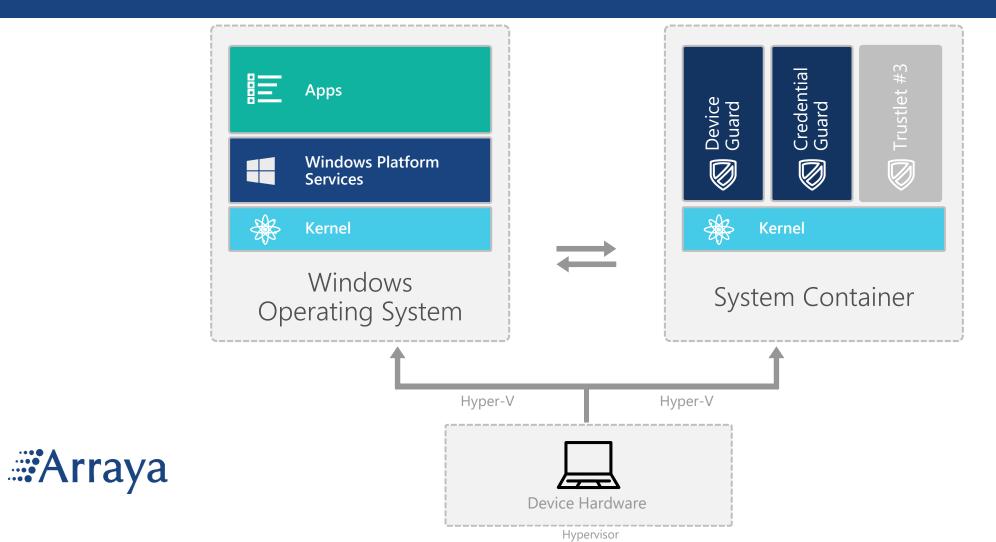


### Hardware Based Isolation

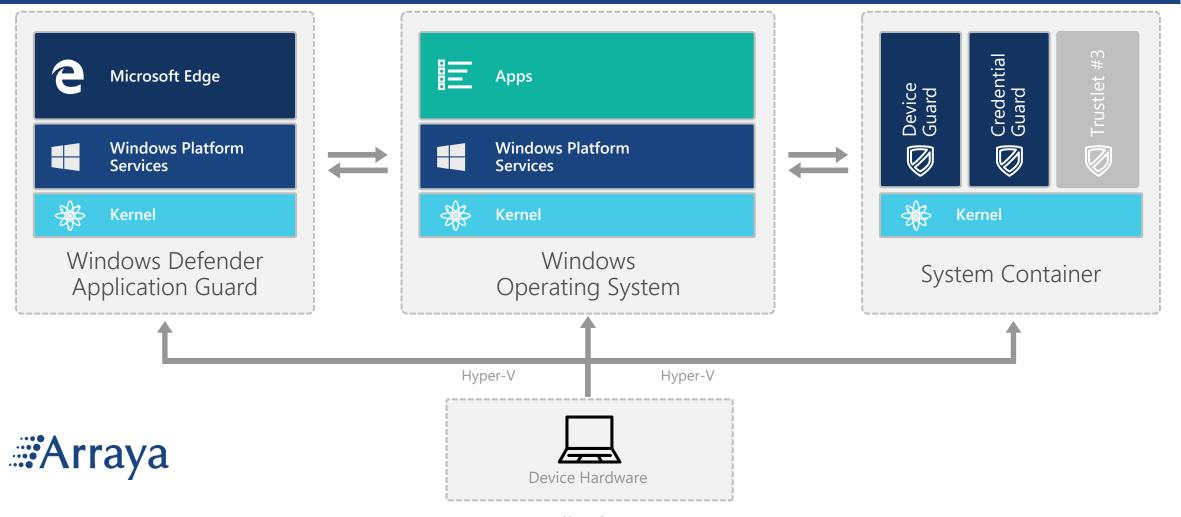
#### HARDWARE BASED ISOLATION IN WINDOWS 10



#### DEVICE GUARD AND CREDENTIAL GUARD



#### APPLICATION GUARD



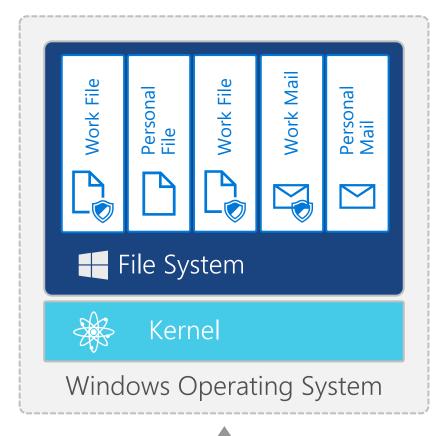
Hypervisor



## Protect Against Accidental Data Loss

### Windows Information Protection

Separates work and personal data





# ENHANCE WINDOWS 10 DEPLOYMENT?



### DEPLOYMENT CHOICES

A brand new way of building, deploying, and servicing Windows

### Traditional

Higher effort, but useful in some scenarios

Image-based approach, for existing or new PCs

Requires injecting drivers, reinstalling apps, restoring data and settings

### Upgrade

No imaging

Let Windows do all the work

Automatically preserve all data, settings, apps and drivers

Recommended for existing Windows 7 and 8.1 devices

### Modern

#### No imaging

Transform new devices so they are ready for productive use

Lower effort, lower cost

Leverages the already-tuned Windows 10 installation provided by the OEM

#### WINDOWS AS A SERVICE: SERVICING WINDOWS

### Quality Updates

A single cumulative update each month Security fixes, reliability fixes, bug fixes, etc. Supersedes the previous month's update No new features

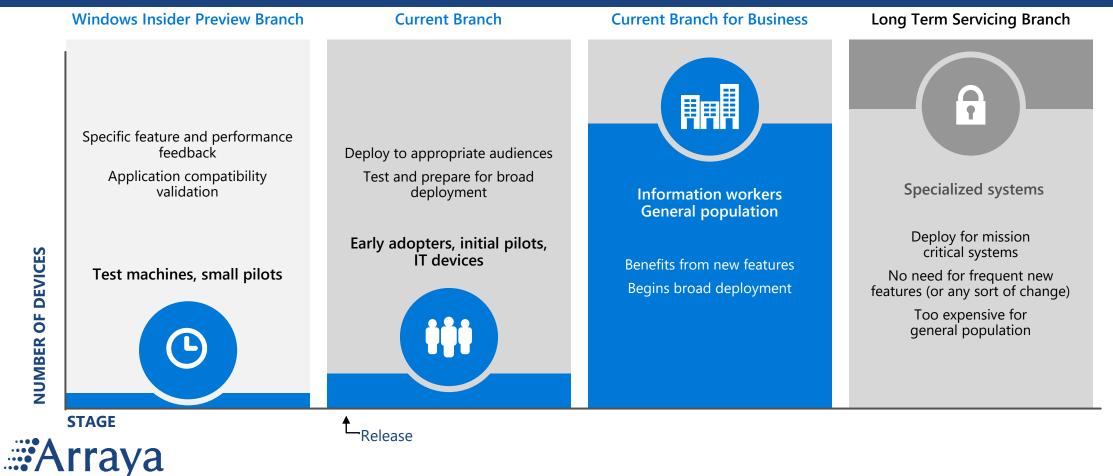
Try them out with Security Update Validation Program (SUVP), other

### Feature Updates

Targeting twice per year with new capabilities Very reliable, with built-in rollback capabilities Simple deployment using in-place upgrade, driven by existing tools Try them out with Insider Preview

Changes being implemented for older Windows releases as well

### WINDOWS AS A SERVICE: DEPLOYING WINDOWS



### THINKING THROUGH DEPLOYMENT STRATEGY

### **Configure** Insider PCs

- Lab or secondary PCs •
- Enough to explore new features, measure compatibility

### **Identify** special PCs

- Deploy Windows 10 Enterprise LTSB
- Limited numbers (we hope)

- **Recruit** volunteers for pilots
- Willing participants who will provide feedback
- Cover the broadest set of apps and devices possible ٠

#### Divide broad population of PCs

- Standard deployment best practice
- Focus on risk reduction, minimizing disruption ٠



### Windows Analytics Upgrade Readiness

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#### Deploying Windows 10 and Office ProPlus with Confidence

We have new insights and solutions that reduce uncertainty from planning upgrades and decrease the time and effort to successfully deploy Windows 10 and Office ProPlus.

• We have seen far fewer upgrade issues than in the past and most devices have no issues.

#### 1. Plan Upgrades

- Windows Analytics and Readiness Toolkit for Office can help you plan an upgrade and assess your risk with addin and macro inventory, macro issue scanning and adoption of 3rd party addins.
- They can also identify devices where you can deploy faster with higher confidence.

#### 2. Pilot for Confidence

- Pilots are a best practice to frontload regression risk.
- Ensure coverage of in-house apps.
- Pilot with representative users who best understand your business-critical solutions.

#### 3. Stay Current

- Semi-Annual Channel (Targeted) for pilot and preproduction user groups is a recommended best practice.
- This provides an early assessment up to 6 months ahead of the Semi-Annual release.

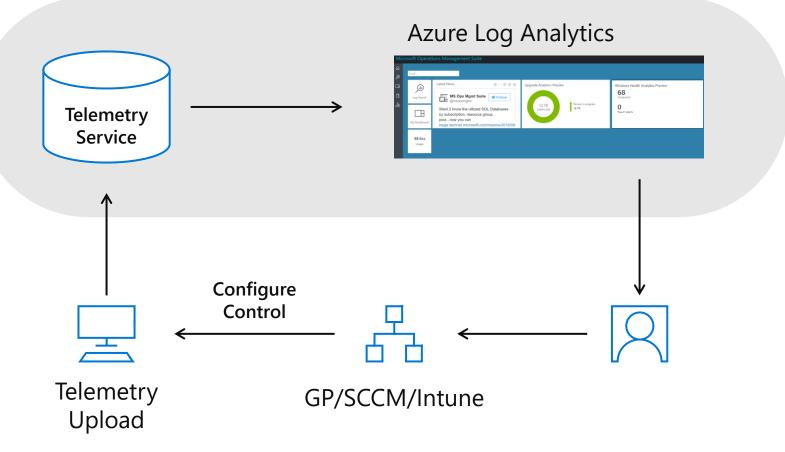
### Windows Analytics Data Flow

Microsoft, as the "IT admin" for consumers, uses telemetry to ensure OS, app and driver releases land with the right level of quality/health/compat

Windows Analytics gives IT and Partners telemetry-based insights about their devices, exposed via Azure Log Analytics

IT controls the level of telemetry collected, which impacts Analytics availability

#### MSFT Cloud

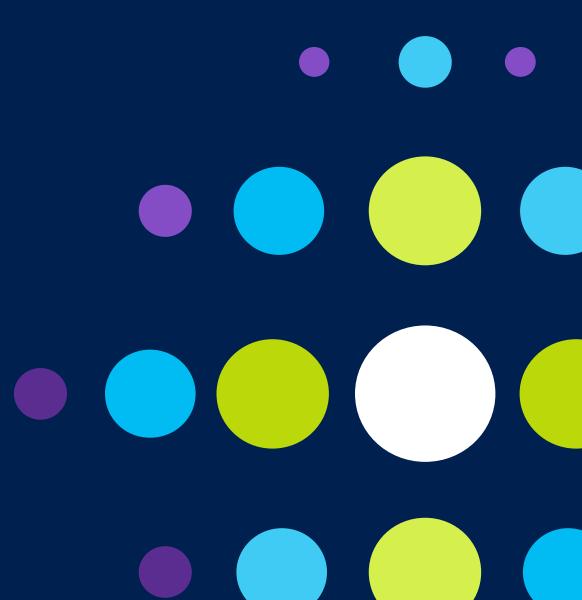


## **Per Solution Requirements**

Solution	OS Versions	Min Telemetry Level	Required Windows License
Upgrade Readiness	Win7, 8, 10	Basic for most things Enhanced for Win10 App Usage and IE site discovery insights	No additional requirements
Update Compliance	Win10	Basic	No additional requirements
Device health	Win10	Enhanced 1709 policy can "limit enhanced to just Windows Analytics events"	E3, E5 Not required/enforced per seat

Note: All Windows Analytics are "zero rated" within Azure log analytics; not charged, don't count against data limits

## WaaS Implementation Tools



## WaaS Implementation Tools

#### Windows Update

#### Cloud

Feature updates installed as they are released (subject to throttling)

Delivery optimization for peer-to-peer distribution

Only option for Windows 10 Home Windows Update for Business

#### Cloud

Feature updates can be deferred

Builds on top of Windows Update

Uses Windows Update for content

Windows Server Update Services

#### **On-Prem**

Feature updates are deployed when you approve them Content distributed from WSUS servers

BranchCache to reduce bandwidth

System Center Configuration Manager

#### **On-Prem**

Choice of task sequence-based feature updates or Windows 10 servicing capabilities

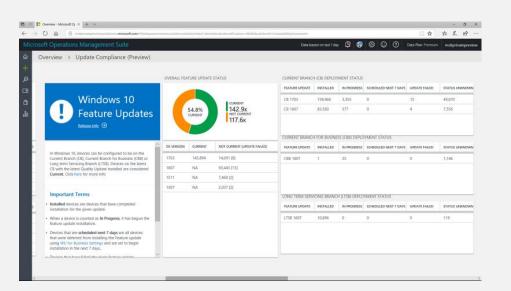
Content distributed from ConfigMgr DPs

BranchCache or ConfigMgr peer caching to reduce bandwidth

## Windows Update for Business

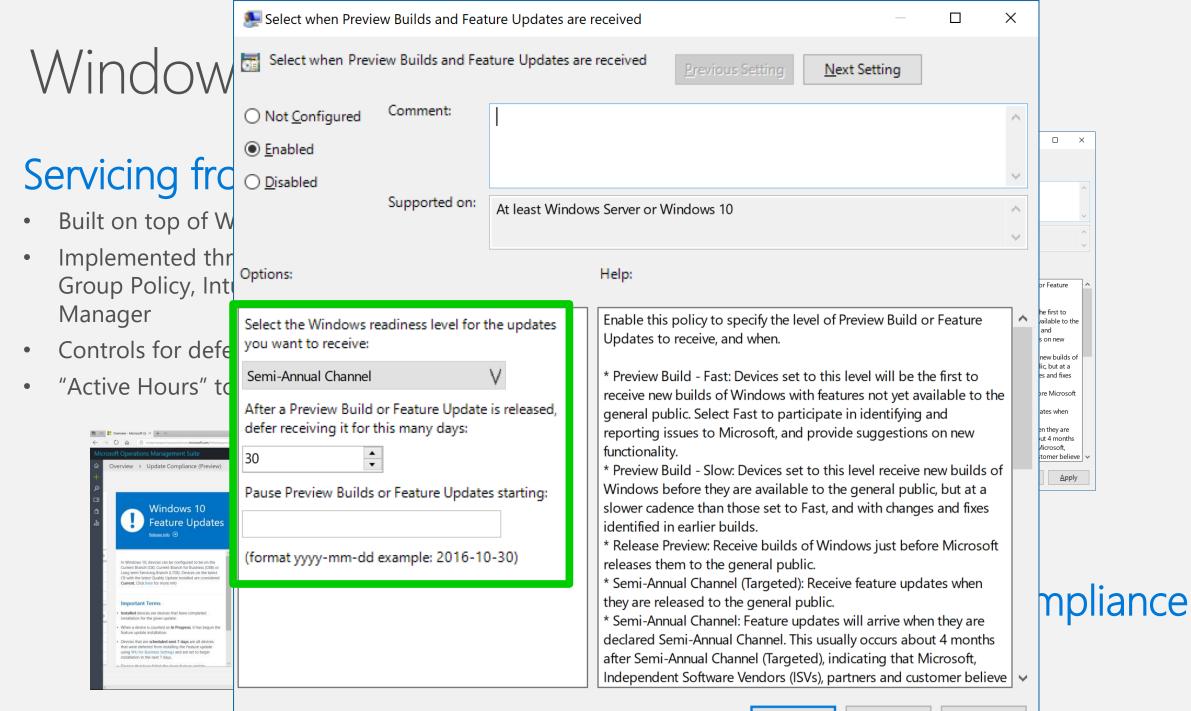
### Servicing from the cloud

- Built on top of Windows Update for global scale
- Implemented through additional policies configurable via Group Policy, Intune (or other MDM services), Configuration Manager
- Controls for deferring feature updates, quality updates
- "Active Hours" to specify when users are likely away



Enabled     Disabled     Disabled     Supported on:     At least Windows Server or Windows 10      At least Windows Server or Windows 10      Detrions:     Help:     Enable this policy to specify the level of Preview Build or Feature     Updates to receive, and when.     * Preview Build - Fast: Devices set to this level will be the first to     receive new builds of Windows with features not yet available to the     general public. Select Fast to participate in identifying and     reporting issues to Microsoft, and provide suggestions on new     featineting	Select when Previ	ew Builds and Feat	ture Updates are	received					>
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	After a Preview Build defer receiving it for 30 Pause Preview Builds	or Feature Update this many days:	es starting:	receive new general pui reporting ii functionalit * Preview B Windows b slower cad- identified ii * Release P releases th * Semi-Ann they are rel * Semi-Ann declared So	v builds of Windows blic. Select Fast to p ssues to Microsoft, a y. uilid - Slow: Devices before they are availa ence than those set n earlier builds. Treview: Receive buil em to the general pual Channel: Feature emi-Annual Channel.	with featur articipate i and provide set to this able to the to Fast, and ds of Wind ublic. ed): Receive al public. updates v This usuall	res not yet av n identifying e suggestions general publ d with change ows just befo e feature upda vill arrive whe y occurs abo	vailable to and s on new new build lic, but at es and fix ore Micro ates whe en they ar out 4 mor	o the ds of a soft n re tths

Windows Analytics for compliance reporting



America

## Configuration Manager Current Branch

History	🜮 📿 Refresh		Saved	Install	Run	Retry	Ignore Pr	omote Pre-	Download		
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Updates and Servicing	Updates	Feedback	Search			Install			Download		
<ul> <li>Overview</li> <li>Overview</li> <li>Opdates and S</li> </ul>	enicina	Search				Date Released	State	Prereq Only	Ignore Prereq Warning	Full Version	Client Version
Features	ervieng		on Manager 170	2 Hotfix Ro	ollup (KB4019926)		Available to download		No	5.00.8498.1	
Hierarchy Conf	figuration	1	on Manager 170			7/25/2017 12:00 AM	Available to download	l No	No	5.00.8540.1	
E Cloud Services	2			<b>R</b>	Install Upda	ate Pack					
				- Le	Run prereq	uisite check					

## Simple mechanism for updating:

- Right-click, Install Update Pack
- Install Update Pack

   Install Update Pack

   Image: Real preference of the stallation

   Ignore prerequisite warnings

   Promote Pre-production Client

Download

#### Stay current:

- Each Windows 10 release supported by previous ConfigMgr release
- Full functionality with next release

## Configuration Manager Current Branch

## Windows 10 Servicing

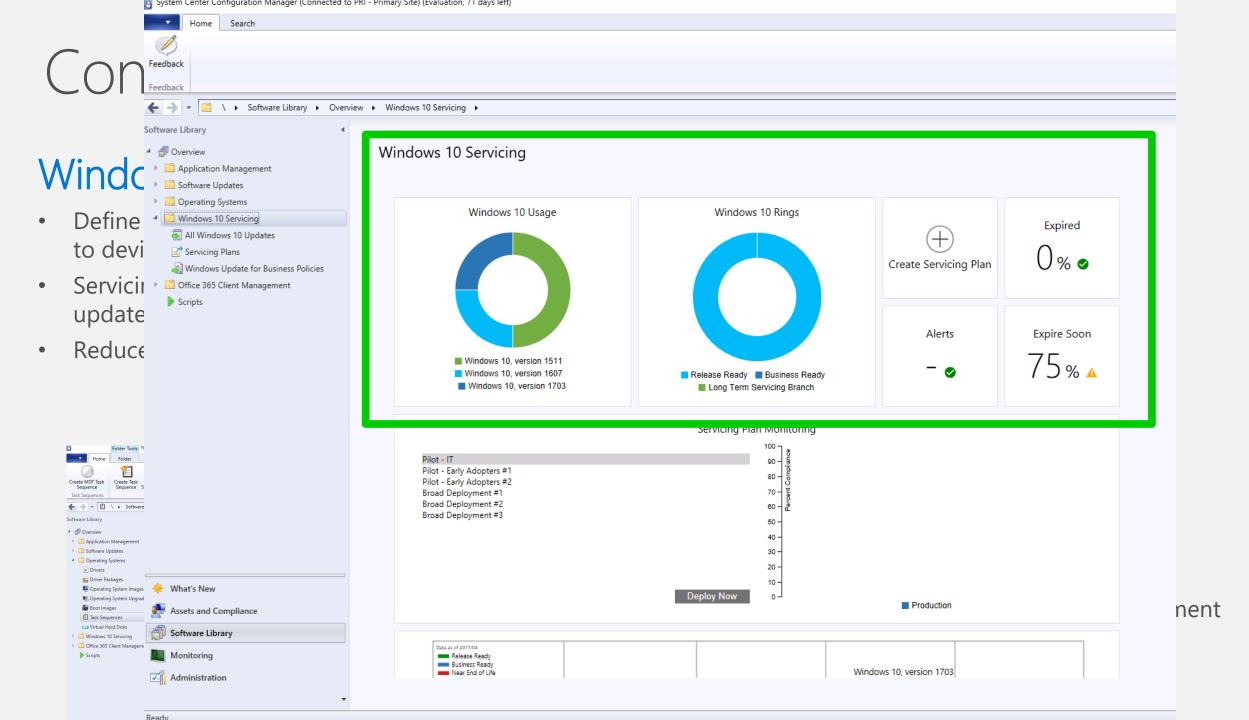
- Define servicing plans to indicate the schedule for deploying to devices
- Servicing plans are executed automatically for each feature update
- Reduces size of updates via use of ESD files

dback				
	ew  Windows 10 Servicing			
freere Library	Windows 10 Servicing			
Coperating Systems     Coperating Systems     Coperating Systems     Coperating Systems     Coperating Plans     Coperating     Co	Windows 10 Usage	Windows 10 Rings	Create Servicing Plan	Expired
► Scripts	Windows 10, version 1511 Windows 10, version 1607 Windows 10, version 1703	Relasse Ready     Long Term Servicing Branch	Alerts	Expire Soon 75% 🔺
	Nat - 11 Nic - Eny Jobpes #1 Nic - Eny Jobpes #2 Bood Deployment #3 Brood Deployment #3	Servicing Plan Monitoring		
* What's New Assets and Compliance Software Library		10 - Doploy Now 0	Production	
Monitoring	Dono ar ef 2013/04 Ministra Radig Bolineus Radig Tel de Erd of Ulfe		indows 10, version 1703	

Create MDT Task Sequence Sequence Sequence MDT Task	Import Task Sequence	Feedback Saved Searches •	Edit Export	Refresh	eploy Distribute Content Create Prestaged Content File	Move	Set Security Scopes	Properties	
Task Sequences Create		Feedback Search	Task Sequer	ice	Deployment	Move	Classify	Properties	
🗧 🔶 🝷 📳 🛝 🕨 Software Library 🕨 Ov	erview 🕨 Oj	perating Systems 🕨 Task S	equences						
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@ Overview	Search								
Application Management	lcon N	ame		Description	Package ID	Date Creat	ted		
Software Updates	1 N	Vindows 10 Enterprise 1607	x64 Feature Update		PRI00004	9/7/2016	9:46 AM		
Operating Systems	1 N	Vindows 10 Enterprise 1703	x64 Feature Update		PRI00014	8/4/2017	12:48 PM		
a Drivers									
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🜉 Operating System Images		Add - Remove		Properties Option					
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Task Sequences		Upgrade the Operating System     Upgrade Operating System			Prepare for Upgrade				
Virtual Hard Disks		- 🕢 Restart Co	omputer	Description:	Actions to run in full OS to pre system.	pare for upgrad	e of the operating	0	
Windows 10 Servicing		Post-Proces     Instal Up						~	
Office 365 Client Management		Rollback	10100	No settings are r	are required for this action.				
Scripts									

### Task Sequence Servicing

 For additional control over the feature update deployment process



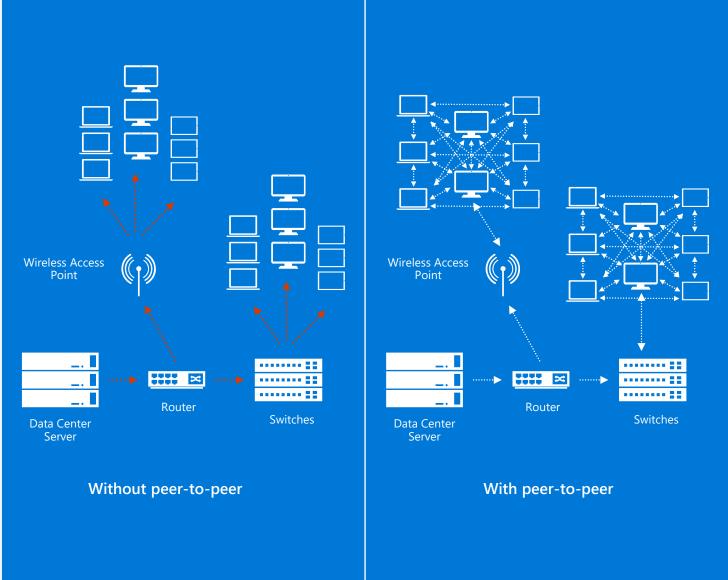
## Distributing content using peer-to-peer

The server and data center are bottlenecks

The edges of the network have more capacity

Using peer-to-peer technologies shifts the traffic to the edges

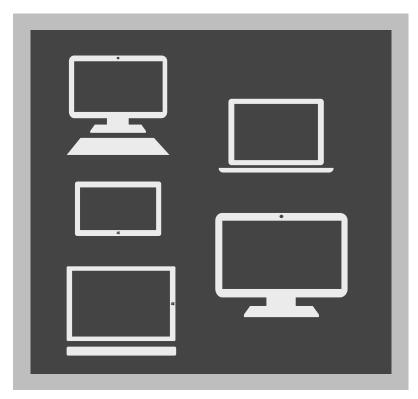
- BranchCache (with WSUS, ConfigMgr)
- Delivery Optimization (with WU, WU for Business)
- 90% or more of the traffic can be shifted
- Simple to implement
- Great for large and small offices
- Immediate return on investment

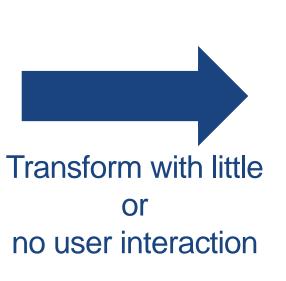


## Modern Deployment (a.k.a. Provisioning)

#### PROVISIONING, NOT REIMAGING

#### Take off-the-shelf hardware





### Device is ready for productive use







Windows AutoPilot End-user experience





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Free Groove Music Get 3 months of Groove Music free with purchase. SEE DETAILS >

#### Surface Pro - Intel Core i5 / 256GB SSD / 8GB RAM

Search Microsoft.com

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#### \$1,299.00

\$1,169.10 For eligible students, faculty or staff at Universities and colleges. Check now

#### Choose your product:

Intel Core m3, 128GB SSD, 4GB RAM	Intel Core i5, 128GB SSD, 4GB RAM
Intel Core i5, 256GB SSD, 8GB RAM	Intel Core i7, 256GB SSD, 8GB RAM
Intel Core i7, 512GB SSD, 16GB RAM	Intel Core i7, 1TB SSD, 16GB RAM

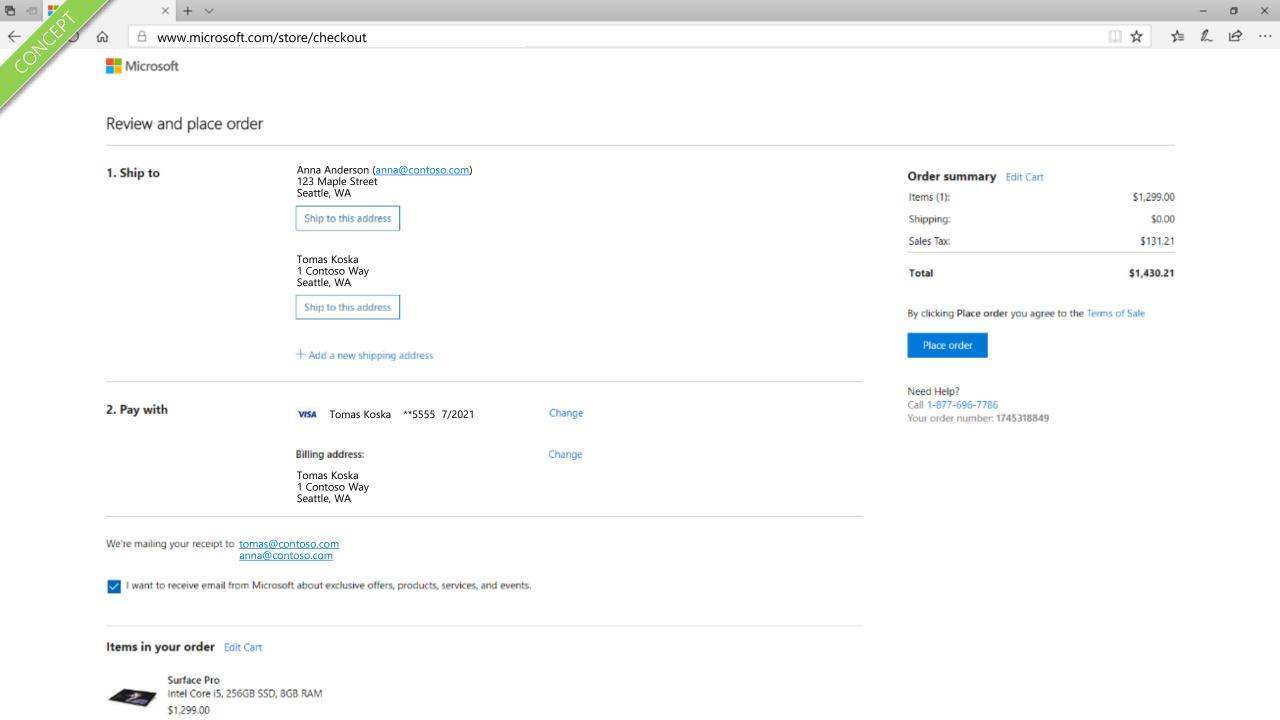
Add to cart Find in store

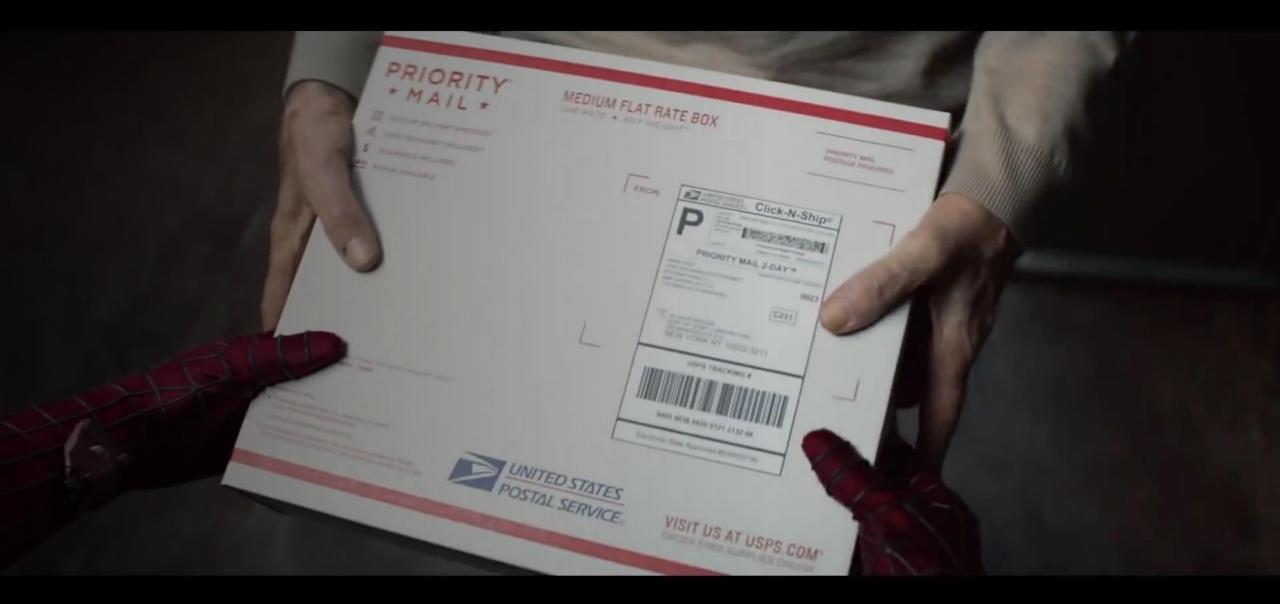
Free shipping. Free returns.

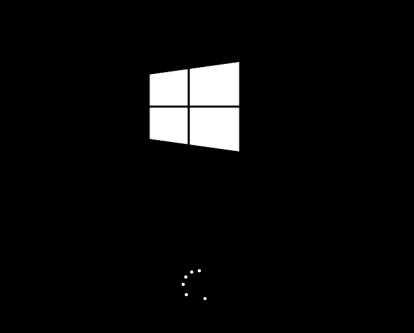
#### Description

- Transforms from Laptop to Tablet to Studio Mode
- Powerful Intel Core processor
- . Create, study, work, and play virtually anywhere
- · High-resolution PixelSense Display touchscreen
- Up to 13.5 hours of battery life<sup>2</sup>
- \* Surface Pro Signature Type Cover and Surface Pen sold separately
- Model #1796









#### Let's start with region. Is this right?



#### Is this the right keyboard layout?

#### US

United States-Dvorak for left hand DVORAK L

United States-Dvorak for right hand DVORAK R

United States-International QWERTY

Albanian QWERTZ

Azerbaijani PUSUDB

Azeri Latin QUERTY

Belgian (comma) AZERTY

Yes

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#### Want to add a second keyboard layout?



Add	layout

Skip

🕂 📮 Listening...

ひ)

Skip for now

Network

#### Let's connect you to a network

(i.	ContosoMNGuestWiFi Open Connect automatically		
		Connect	
(7.	Contoso Corp Secured		
(7.	<b>Contoso Corp 2</b> Secured		
<i>(</i> <b>(</b> •	<b>Network4</b> Open		×

Skip for now

Network

#### Let's connect you to a network

(i.	ContosoMNGuestWiFi Open Connect automatically		
		Connect	
(7.	<b>Contoso Corp</b> Secured		
(7.	<b>Contoso Corp 2</b> Secured		
<i>(</i> ~	<b>Network4</b> Open		~

()

Network

http://captiveportalwi-fi/eula/1234.htm



#### Welcome to our Guest Wi-Fi

Agree & Connect

By clicking on the connect button you agree to our <u>Terms</u> <u>of Service</u> and have reviewed the <u>Contoso Privacy Policy</u>.

()

Network

http://captiveportalwi-fi/eula/1234.htm



#### Welcome to our Guest Wi-Fi

Agree & Connect

By clicking on the connect button you agree to our <u>Terms</u> <u>of Service</u> and have reviewed the <u>Contoso Privacy Policy</u>.

Network



Just a moment...

Network



Now we can go look for any updates

#### **(**) Welcome to ContosoMN!

Enter your ContosoMN email



someone@example.com

Need help?

Please sign in with your ContosoMN email address

Change account Privacy & Cookies Terms of Use

Next

🕂 🖵 Listening...

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Enter your ContosoMN email



anna@contosomn.com

Need help?

Welcome to ContosoMN

Change account Privacy & Cookies Terms of Use

Next

🗘 📮 Listening...

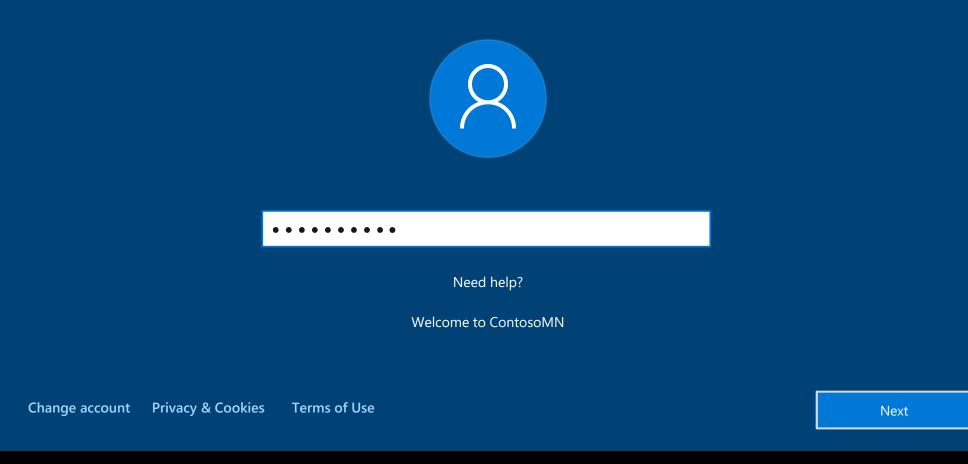
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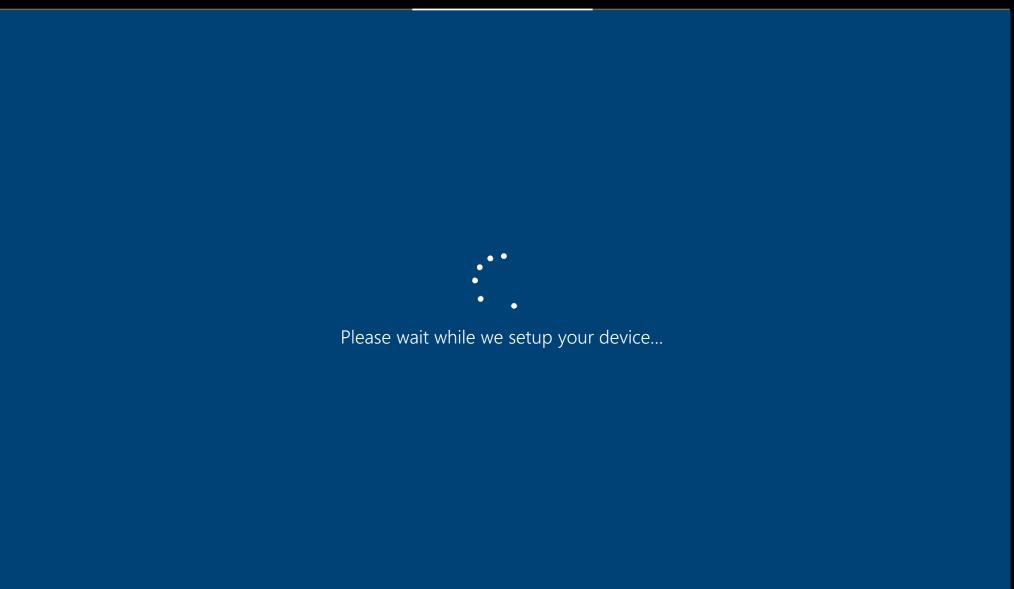


Enter your ContosoMN password



 $\leftarrow$ 

Network



Network



Just a moment...

#### We're getting everything ready for you.

Don't turn off your PC

This might take several minutes.

Don't turn off your PC

We want everything to be ready for you.

Don't turn off your PC

#### Let's Start!



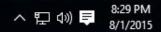


Activate Windows Go to Settings to activate Windows.

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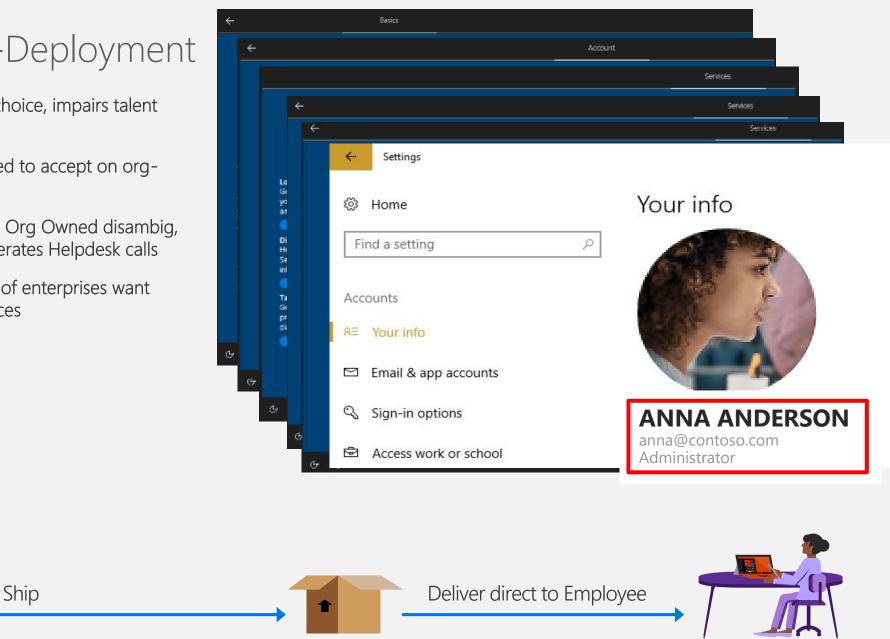
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#### Overview: Employee driven Self-Deployment

- Custom imaging expensive, limits HW choice, impairs talent acquisition
- Windows EULA employees not permitted to accept on orgowned devices
- Non-trivial decision making (Personal vs Org Owned disambig, Privacy Settings, OEM Registration) generates Helpdesk calls
- OOB account is always Admin majority of enterprises want standard accounts on corp-owned devices

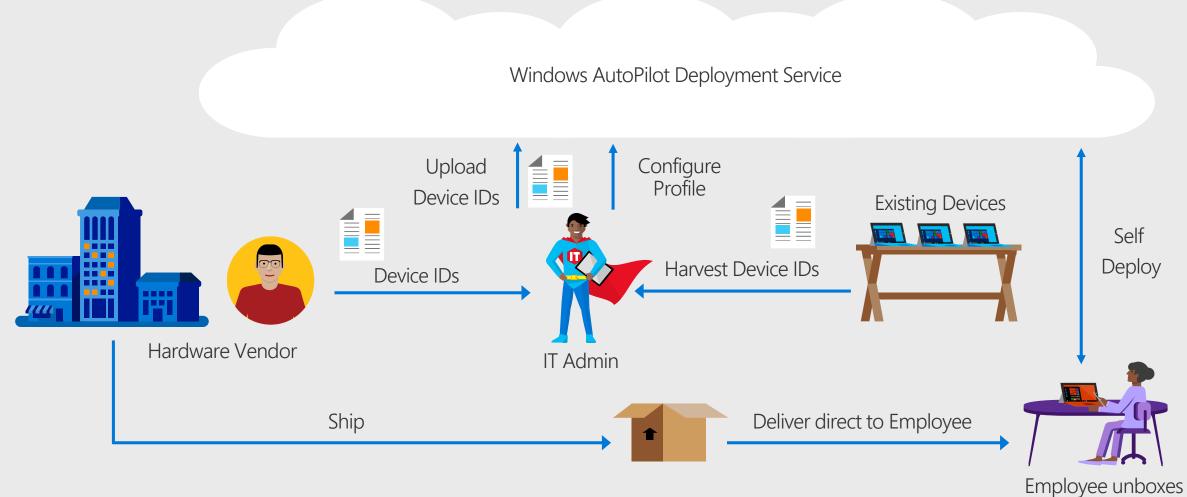
**OEM/Reseller** 



Off-the-shelf and Shrink-wrapped Devices

Employee unboxes device, self-deploys

## WINDOWS AUTOPILOT DEPLOYMENT PROGRAM



device, self-deploys

#### WINDOWS 10 OFFERS

- ✓ Talk with us regarding assistance we can provide in Windows 10 adoption
- ✓ Deployment Planning Services are available for customers with Software Assurance
- ✓ Leverage the lab content in your own environment



### WINDOWS AUTOPILOT DEPLOYMENT PROGRAM

#### **Prerequisites:**

- Windows 10 version 1703 or later
- Azure Active Directory Premium
- Microsoft Intune (or other MDM service)
- Office 365 ProPlus
- Microsoft Store for Business account
- Windows 10 Subscription Activation (optional)





# Questions?

### Interested in More? Reach out to Arraya today!



mssales@arrayasolutions.com



http://www.arrayasolutions.com





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### IT DOESN'T HAVE TO END HERE

#### Book your follow-up meeting and receive a \$50 gift card!

 Use the Tech Summit App! techsummit.arrayasolutions.com

#### OR

Utilize the question cards in front of you to indicate you would like a follow-up meeting

\*Limit one per company. Gift card given at time of meeting.





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### ADDITIONAL RESOURCES

- Looking at the How and Why of Windows 10 Migrations
- Identity is the New Security Perimeter
- <u>5 Tips for Your 'What Comes After Windows 7 End of Support?' Conversation</u>
- Arraya Intune & Autopilot Acceleration Program

