



How to go modern like brewing a Beer

Mirko Colemberg





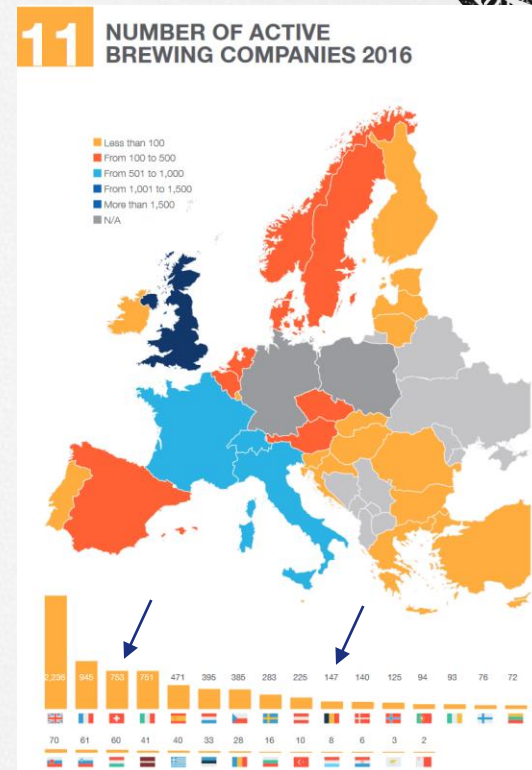
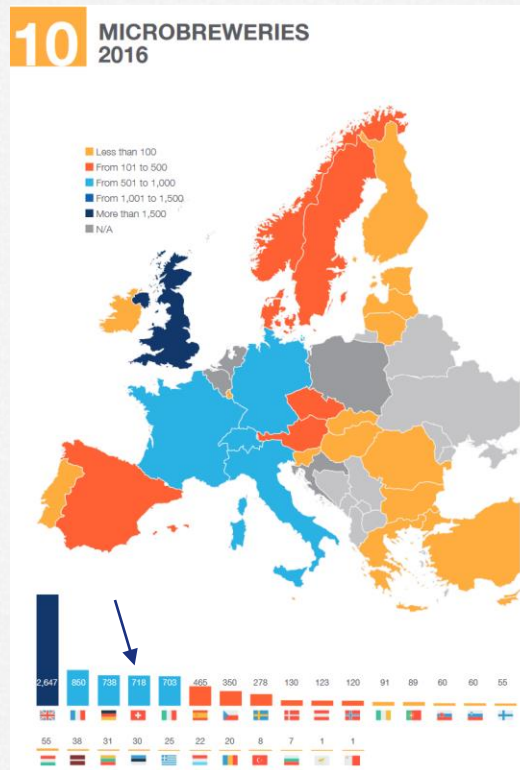
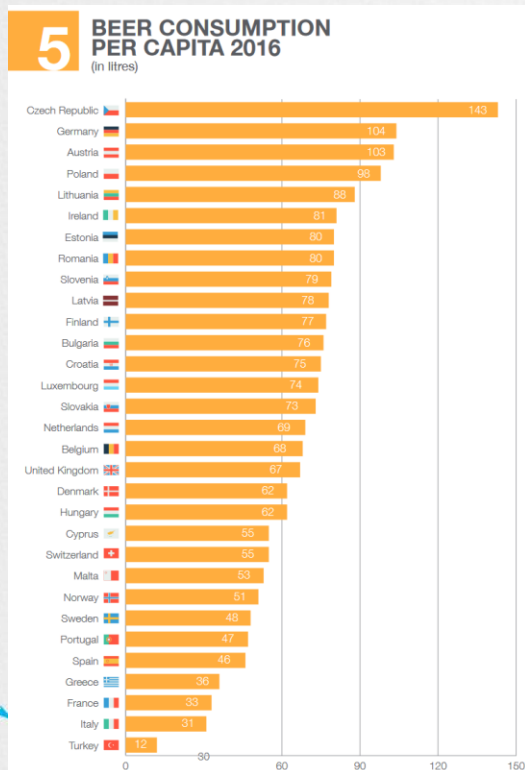
How to Brew beer

1. Equipment
2. Homebrew vs. Brewery
3. Water
4. Cereals / Hops
5. Mashing / Boiling
6. Fermentation
7. Maturation
8. Packaging



How to go Modern

1. Statistics
2. Process
3. AD vs. AAD
4. Autopilot
5. Intune
6. App and Application Management
7. Using Modern Windows (OMA)
8. Update and Patching



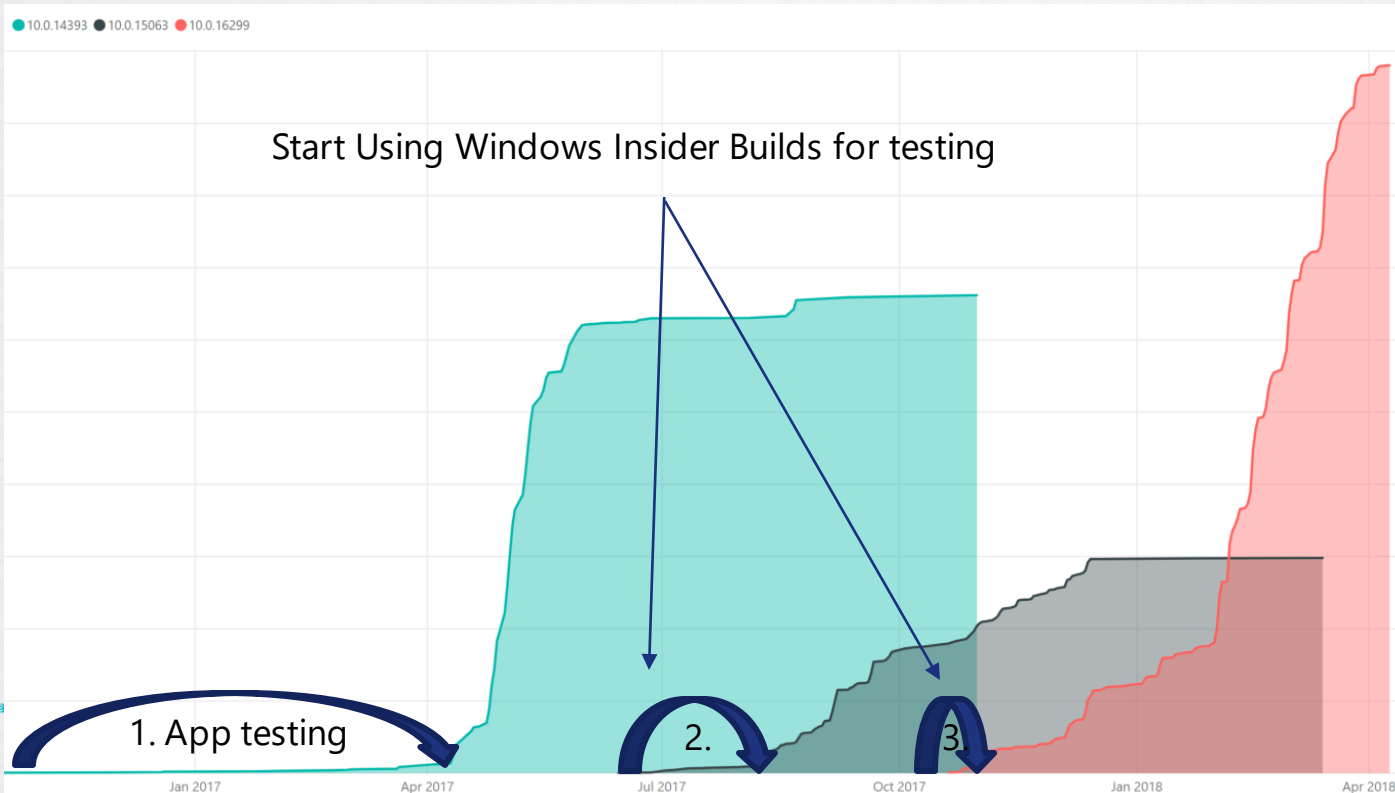


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Statistics

Equipment



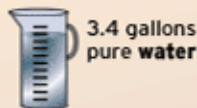


Homebrew vs. Brewery

Homebrewing

The fundamentals of successful homebrewing are good hygiene and accurate timing of temperature.

Basic recipe
For 2.6 gallons of homemade ale



3.4 gallons pure water



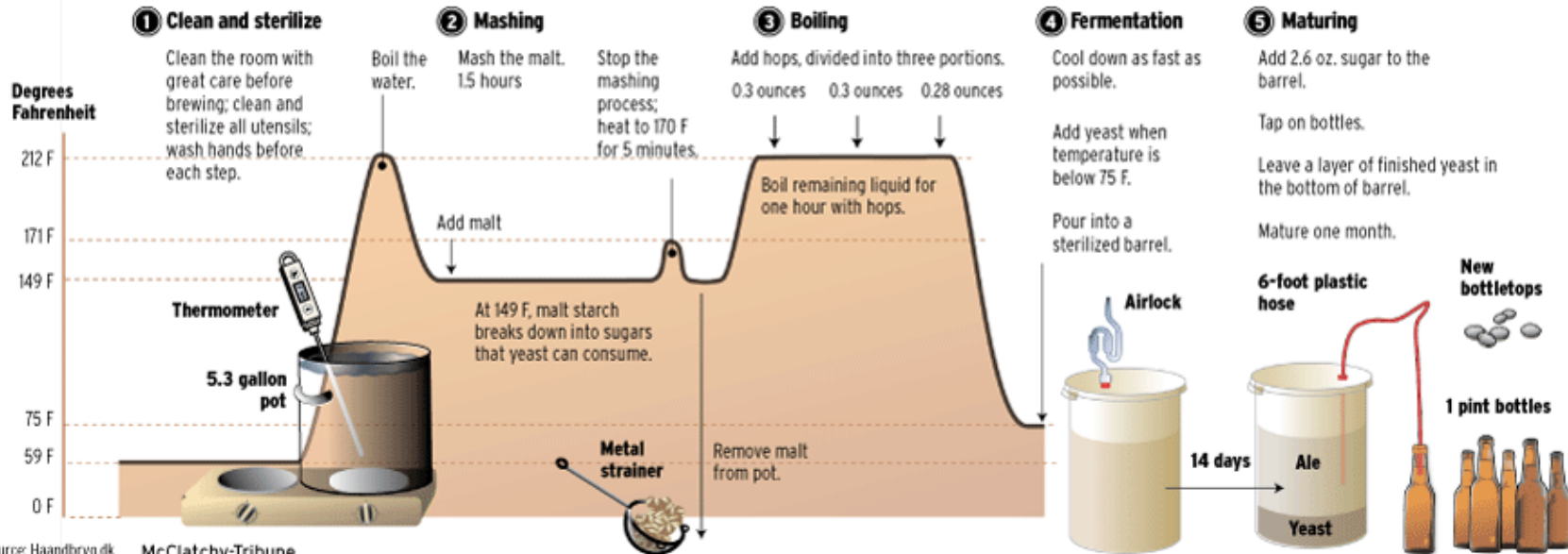
4.76 pounds crushed pale ale malt



0.9 ounces of hops



One package of ale yeast



Source: Haandbryg.dk

McClatchy-Tribune





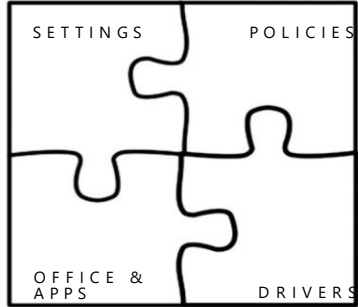
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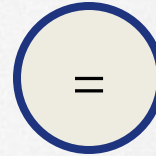
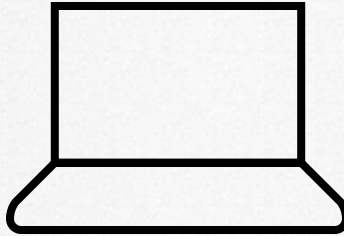
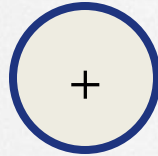


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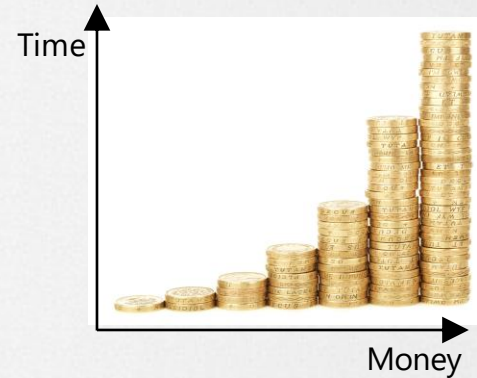
Traditional PC provisioning



Build a custom image,
gathering everything else
that's necessary to
deploy



Deploy image to a new
computer, overwriting
what was originally on it



Every 3-4 Year a big
Project to change to next
Windows Version

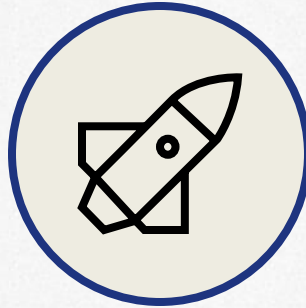


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Modern PC provisioning



Un-box and turn on
off-the-shelf Windows
PC

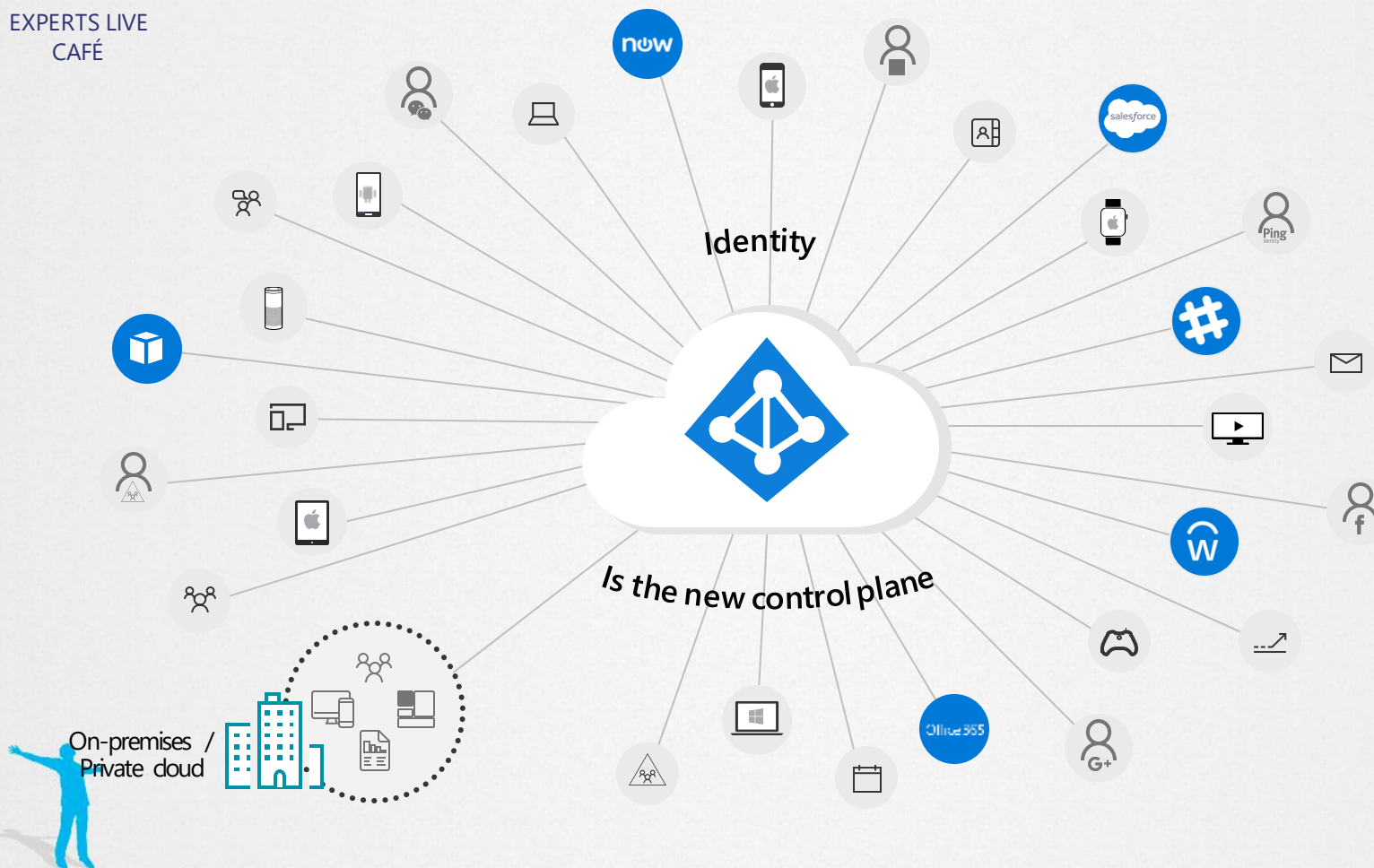


Transform with minimal
user interaction



Device is ready
for productive use







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AD vs. AAD

Water



- If you go Modern, you go to Azure Active Directory!
- AAD-Connect -> Sync the Users and Groups -> PW-Hash
- Use AAD
 - Naming of Groups
 - Dynamic Groups
 - Office Groups





- Autopilot with the OEM
- Autopilot with the Script
- Auto Re-Enrollment



- Co-Management with Config Manager and Modern is a different Story



Oobe Challenges

- Non-trivial decision making (Personal vs Org Owned disambig, Privacy Settings, OEM Registration) generates Helpdesk calls
- Time for configs and apps to install. Block access, show progress
- OOB account is always Admin – majority of enterprises want standard accounts on corp-owned devices



OEM/Reseller

Ship

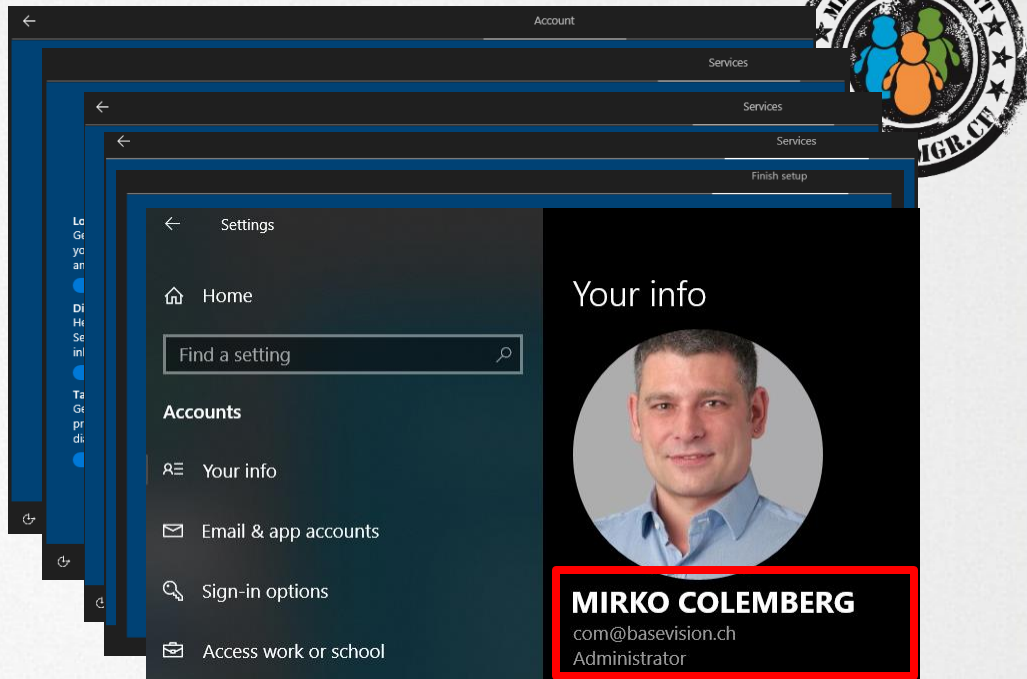


Deliver direct to Employee



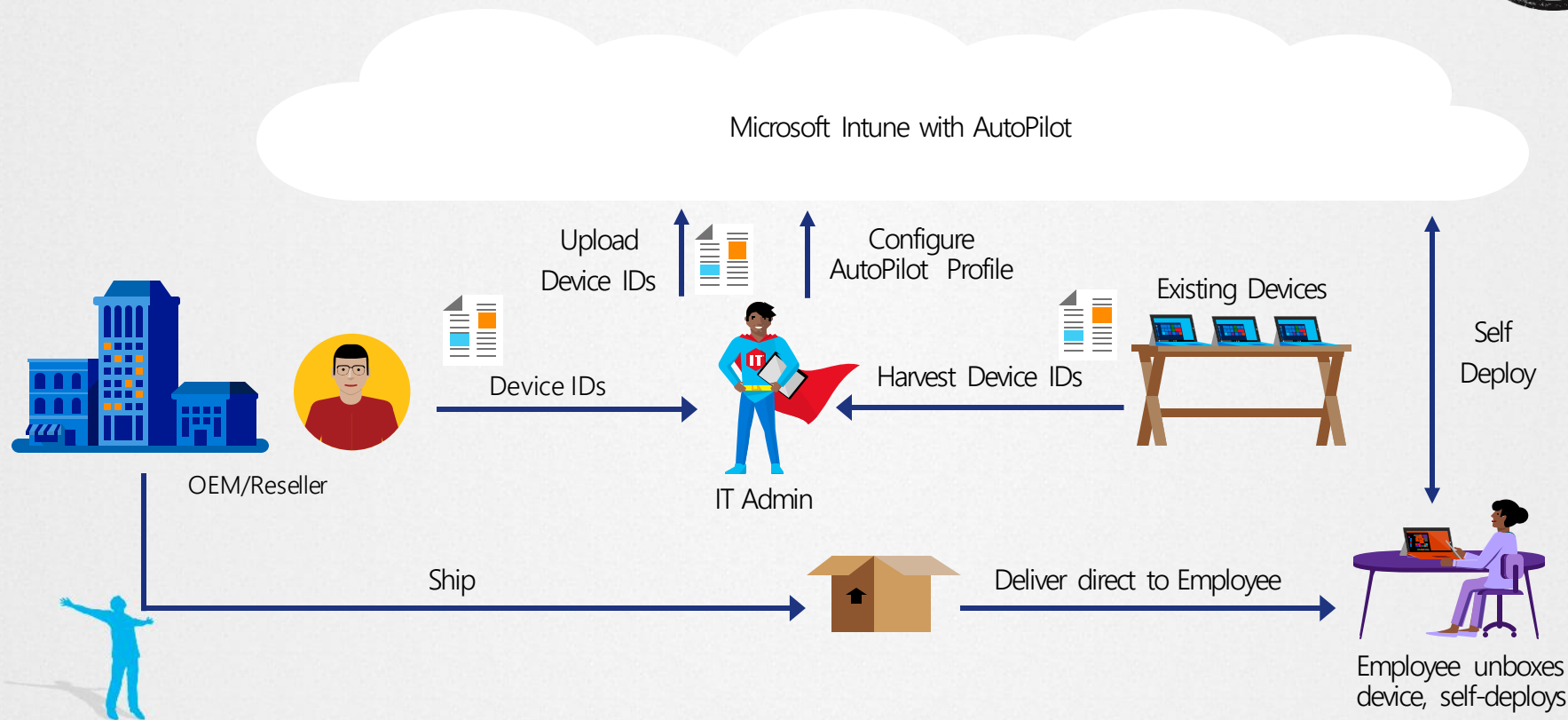
Off-the-shelf and Shrink-wrapped Devices

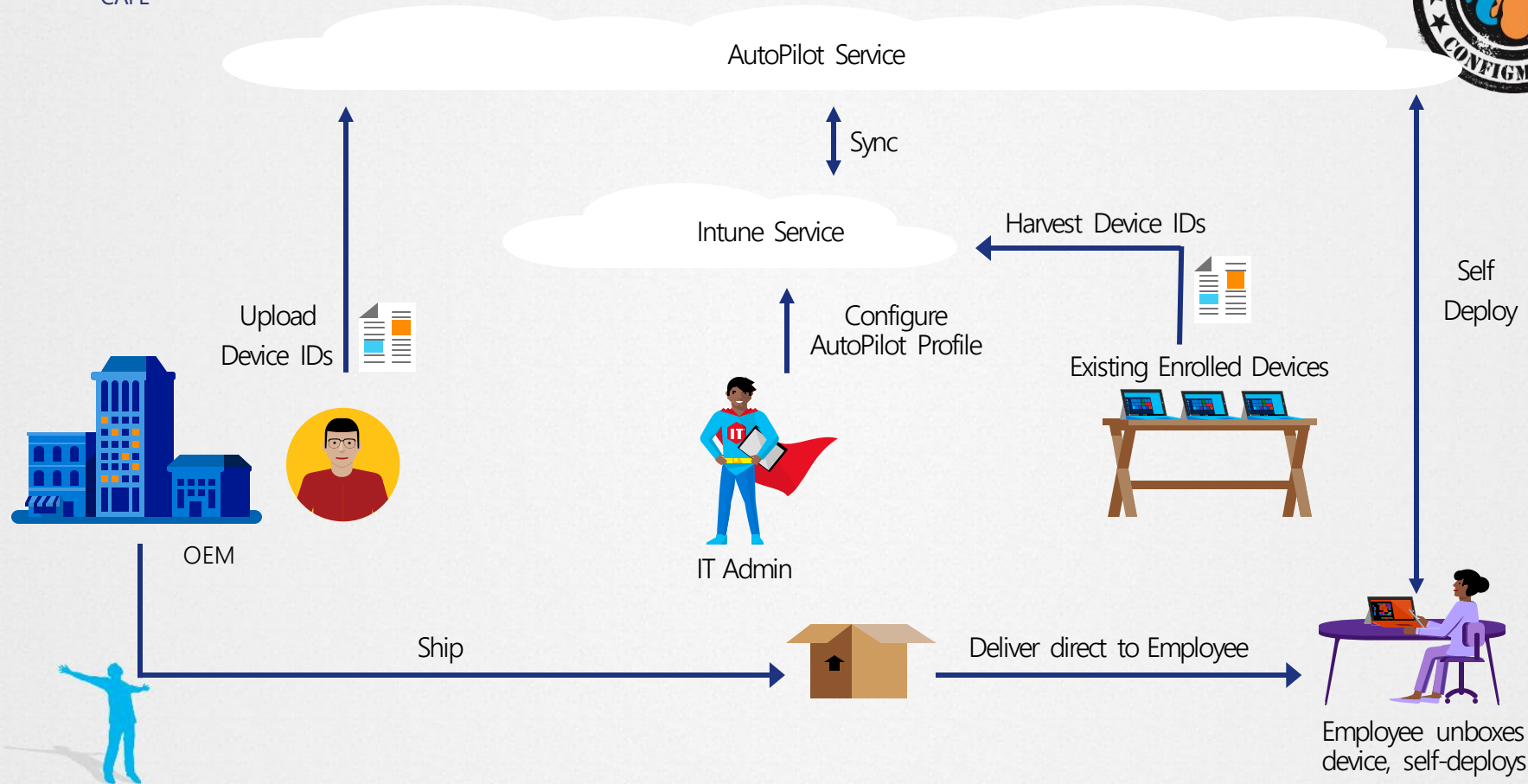
Employee unboxes device, self-deploys





WINDOWS AUTOPILOT







OEM support for Windows Autopilot



Timelines to support Windows AutoPilot

First half of CY2018:

- Surface (Live now!)
- Lenovo (Live now!)
- Dell (Live now!)

Second half of CY2018:

- HP
- Panasonic
- Fujitsu
- Toshiba





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What's new

- Bootstrap page w/ option to hold user logon
- AAD group targeting for AutoPilot profiles (enables default profiles)
- Add/Remove AutoPilot devices via Intune
- Set Auto-Redeployment in Intune



The screenshot displays the Intune configuration interface for a Windows 10 device profile. The left sidebar shows the profile name '1 Win10 Technician Profile' and various configuration sections like 'Platform', 'Profile type', and 'Settings'. The main area is divided into two columns of settings. The right column contains a list of settings with 'Block' and 'Not configured' buttons for each. The settings include: Screen capture (mobile only), Copy and paste (mobile only), Manual unenrollment, Manual root certificate installation (mobile only), Camera, OneDrive file sync, Removable storage, Geolocation, Internet sharing, Phone reset, USB connection (mobile only), AntiTheft mode (mobile only), Cortana, Voice recording (mobile only), Device name modification (mobile only), Add provisioning packages, Remove provisioning packages, Device discovery, Task Scheduler (mobile only), SIM card error dialog (mobile only), Ink Workspace, and Automatic Redeployment. The 'Automatic Redeployment' setting is currently set to 'Not configured'.





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What's coming

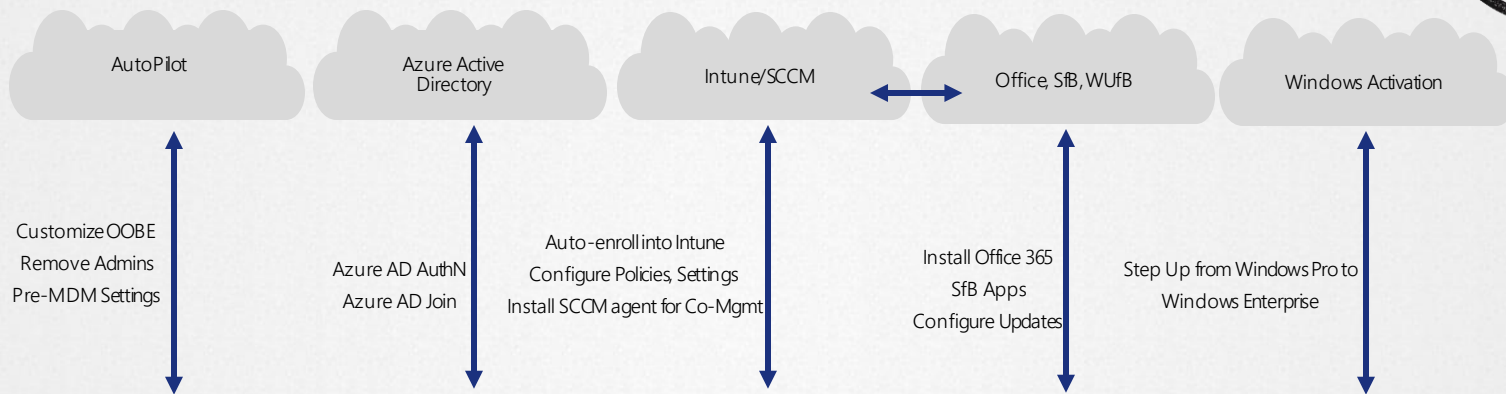
- Self-driven deployment
- AutoPilot into Hybrid AADJ
- Win7 -> Win10 "rip and reuse"
- Forced enrollment
- Remove OEM bloatware
- Auto-register enrolled devices into AutoPilot
- Block personal devices
- Device renaming w/out reboot
- User personalization





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Modern Provisioning – Powered by M365



Business Ready

Self-driven deployment





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Intune



Mashing / Boiling





Home > Microsoft Intune > Device configuration > Profiles

Microsoft Intune

Device configuration - Profiles

Search (Ctrl+I)

Overview

Quick start

MANAGE

Device enrollment

Device compliance

Device configuration

Devices

Mobile apps

eBooks

Conditional access

On-premises access

Users

Groups

Intune roles

Software updates

HELP AND SUPPORT

Help and support

Troubleshoot

Overview

MANAGE

Profiles

PowerShell scripts

MONITOR

Assignment status

Audit logs

Devices with restricted apps

SETUP

Certification Authority

Telecom Expense Management

HELP AND SUPPORT

Help and support

Home > Device enrollment - Windows enrollment

Device enrollment - Windows enrollment

Microsoft Intune

Search (Ctrl+I)

Overview

Quick start

MANAGE

Apple enrollment

Android for Work enrollment

Windows enrollment

Terms and conditions

Enrollment restrictions

Device categories

Corporate device identifiers

Device enrollment managers

Use the following to help enroll Windows devices.

General

Windows Hello for Business

Replace passwords with strong two-factor authentication.

CNAME Validation

Test company domain CNAME registration for Windows enrollment.

Enrollment Status Page (Preview)

Show app and profile installation statuses to users during device setup.

Windows Autopilot Deployment Program

Deployment Profiles

Customize the Windows AutoPilot provisioning experience.

Devices

Manage Windows AutoPilot devices.





- Intune Enrollment Status Page (preview)

Home > Microsoft Intune > Device enrollment - Windows enrollment > Enrollment Status Page (Preview) > All Users - Settings

Enrollment Status Page (Preview)
Windows enrollment

The enrollment status page appears during initial device setup. If enabled, users can see the installation progress of assigned apps and profiles. [Learn More.](#)

PRIORITY	NAME	ASSIGNED
Default	All Users	Yes

All Users - Settings
Windows Enrollment

Search (Ctrl+J)

Overview

Properties

Settings

Save Discard

The enrollment status screen appears during initial device setup. If enabled, users can see the installation progress of assigned apps and profiles.

Show app and profile installation progress

Yes No

Block device use until all apps and profiles are installed

Yes No

Allow users to reset device if installation error occurs

Yes No

Allow users to use device if installation error occurs

Yes No

Show error when installation takes longer than specified number of minutes

60

Show custom message when an error occurs

Yes No

Sorry Techorama Peers, this Device will not be able to Join.

Allow users to collect logs about installation errors

Yes No





- Get the Device Info in Intune from SCCM 1802

The screenshot shows the SCCM 1802 console interface. On the left, the 'Monitoring' tree is expanded, and 'Hardware - General' is selected. A red arrow points from this selection to the 'Hardware - General' folder in the main pane. In the main pane, 'Windows AutoPilot Device Information' is selected, and another red arrow points from it to the detailed view on the right. The detailed view shows the 'Description' tab, which contains a table of device information.

Device Serial Number	Windows Product ID	Hardware Hash
9973-3720-0655-5218-1733-8933-78	00329-10282-13809-AA921	T0FuAgEAHAAAAaADwCrPwA/ AAQAAAAABQAZAAEAAAAA 1aW5ISW50ZWwABAA0AEIudG/ SBAIDJuNTBHSHoAAAAA nR1YWwgRGJzayAgICB8TXNm/ WAE0AQgBVAFMAAAAIAB4AAA AAAAJABAAAAAEEAAP/////I/ AAAMBIAAAAOOZzowdh3tuZd2/ AH9lkkVPCGxPhtEHLnniUikOACL



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Intune

Mashing / Boiling



- Get the Device Info on Existing Devices with Powershell

Administrator: Windows PowerShell

```
PS C:\test> Install-Script -Name Get-WindowsAutoPilotInfo_
```

Administrator: Windows PowerShell

```
PS C:\test> Save-Script -Name Get-WindowsAutoPilotInfo -Path "c:\test"
```

Administrator: Windows PowerShell

```
PS C:\test> .\Get-WindowsAutoPilotInfo.ps1 -ComputerName localhost -OutputFile .\MyComputer.csv
```





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- DEMO Autopilot





EXPERTS LIVE

App and Application Management



Fermentation



App and Application Management

Fermentation



Add app

* App type

Windows 10

Use this type to assign Office 365 ProPlus apps to Windows 10 devices with Intune. This suite of applications will appear as one app in your apps list.
[Learn more.](#)

* Configure App Suite ⓘ

Select Office apps to be assigned

* App Suite Information ⓘ

Configure the app suite informati...

* App Suite Settings ⓘ

Configure installation options for...

* Select the Office install as part of:

☒ Access
☒ Excel
☐ OneDrive (G
☒ OneDrive De
☒ OneNote
☒ Outlook
☒ PowerPoint
☒ Publisher
☒ Skype for Bu
☒ Word

Additional Office

If you own licens apps you can als
[Learn more](#)

☐ Project Onlir
☐ Visio Pro for

Add

* App type

Windows 10

Use this type to assign Office 365 ProPlus apps to Windows 10 devices with Intune. This suite of applications will appear as one app in your apps list.
[Learn more.](#)

* Configure App Suite ⓘ

9 apps selected

* App Suite Information ⓘ

Configure the app suite informati...

* App Suite Settings ⓘ

Configure installation options for...

Add

These settings apply to all apps you have selected in the suite. [Learn more](#)

* Office version

32-bit

64-bit

* Update channel

Semi-Annual

Remove other versions of Office (MSI) from end user devices. [Learn more](#)

Yes

No

Properties

Automatically accept the app end user license agreement

Yes

No

Use shared computer activation

Yes

No

Languages ⓘ

OS Languages

OK

Choose the Office language versions that you want to install. Office automatically installs in any languages that have been installed in Windows. Use these settings if you want to install additional languages.

LANGUAGE	LOCALE
<input type="checkbox"/> Arabic	ar-sa
<input type="checkbox"/> Bulgarian	bg-bg
<input type="checkbox"/> Chinese Simplified	zh-cn
<input type="checkbox"/> Chinese Traditional	zh-tw
<input type="checkbox"/> Croatian	hr-hr
<input type="checkbox"/> Czech	cs-cz
<input type="checkbox"/> Danish	da-dk
<input type="checkbox"/> Dutch	nl-nl
<input type="checkbox"/> English	en-us
<input type="checkbox"/> Estonian	et-ee
<input type="checkbox"/> Finnish	fi-fi
<input type="checkbox"/> French	fr-fr
<input type="checkbox"/> German	de-de
<input type="checkbox"/> Greek	el-gr
<input type="checkbox"/> Hebrew	he-il
<input type="checkbox"/> Hindi	hi-in

OK



App and Application Management

Fermentation



- 3rd party utilities
 - Syntaro (<http://www.syntaro.com/module/appmanager/>)
 - RuckZuck (<http://ruckzuck.tools>)
 - chocolatey.org
 - Azure storage

- WSfB
- Company Portal
- LOB
- Appx
- Run PowerShell

Microsoft Store for Business

Shop for my group | colemberg.ch [MVP] | **Manage** | Find a solution provider

Home | Quotes | **Products & services** | My organization | Devices | Billing | Order history | Partners | Permissions | Settings | Support




Manage / Products & services / Apps & software

Products & services

Apps & software | Volume licensing | Benefits | New LOB Apps

Search apps & software

Refine results: Product type: All | Application type: All | Subscription type: All

Name	Available quantity
 AvePoint Timeline for Microsoft® Dynamics CRM Online	Unlimited 0 used
 CamCard Online	Unlimited 0 used
 Citrix Receiver Online	Unlimited 0 used



1. Install base image and reboot:

desktopappconverter.exe -setup -baseimage 'C:\Base\Windows_InsiderPreview_DAC_16299.wim'

Current OS must match the base image version!

2. Create .appx file:

**desktopappconverter -installer 'C:\apps\setup.exe' -InstallerArguments "/s" -Destination c:\appx\
-PackageName "App.UWP" -Publisher "CN=ProTrainITDemo, O=ProTrainIT, C=FI" -Version 1.0.0.0 –
MakeAppx**

Package name: 3-50 chars, alpha-numeric, period, and dash characters.

3. Sign appx

SignTool sign /fd sha256 /a /f c:\softat\cert.pfx /p Password1 c:\softat\SoftaUWP.appx

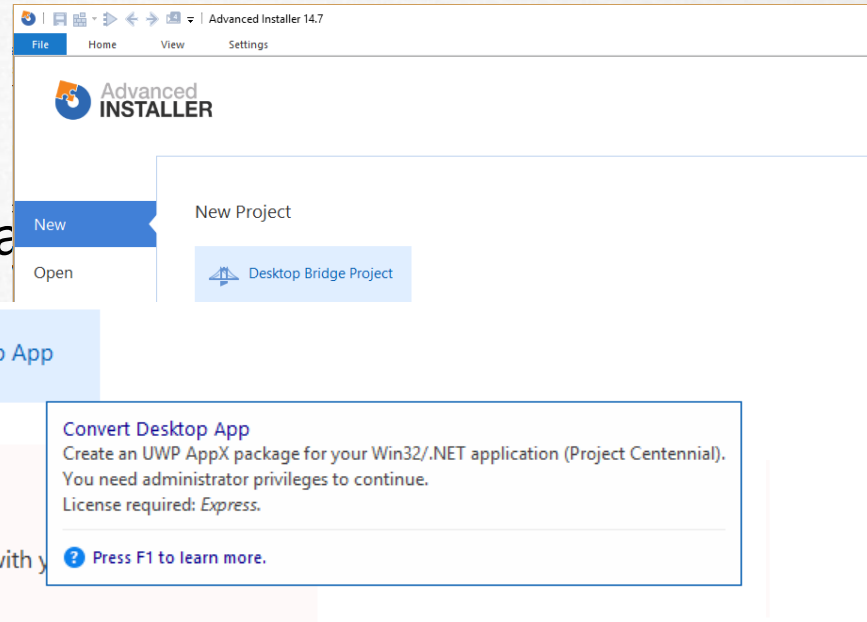
Publisher must match the identity of the certificate!





Other options for creating APPX

- Advanced Installer Express Edition
 - <https://www.advancedinstaller.com/express-edition.html>
 - GUI based free utility
 - Basic instructions
- Visual Studio
- Cloudhouse Compatibility Container
- FireGiant
- InstallAware
- InstallShield
- PACE Suite





Assigning LOB software

- Available/Required/Uninstall
 - Targeted user group/device group
- State-based installation
 - 7 day interval for re-installation



Note: Available for dynamic groups



Select groups where you want to assign this app.

Assignment type

Select assignment type ^

Available for enrolled devices

Required

Uninstall

No groups selected

Excluded Groups

All users

Make this app available to all users with enrolled devices

Yes

No

Selected groups

Select groups to include

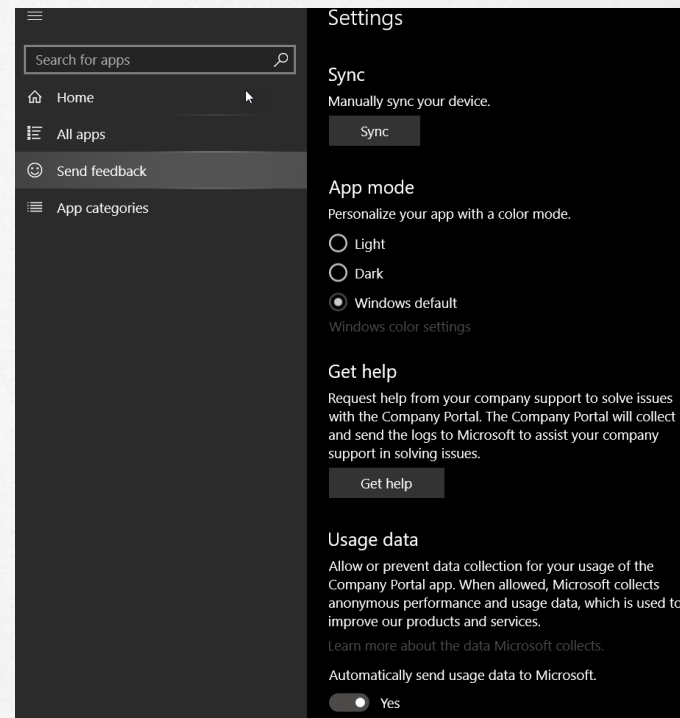
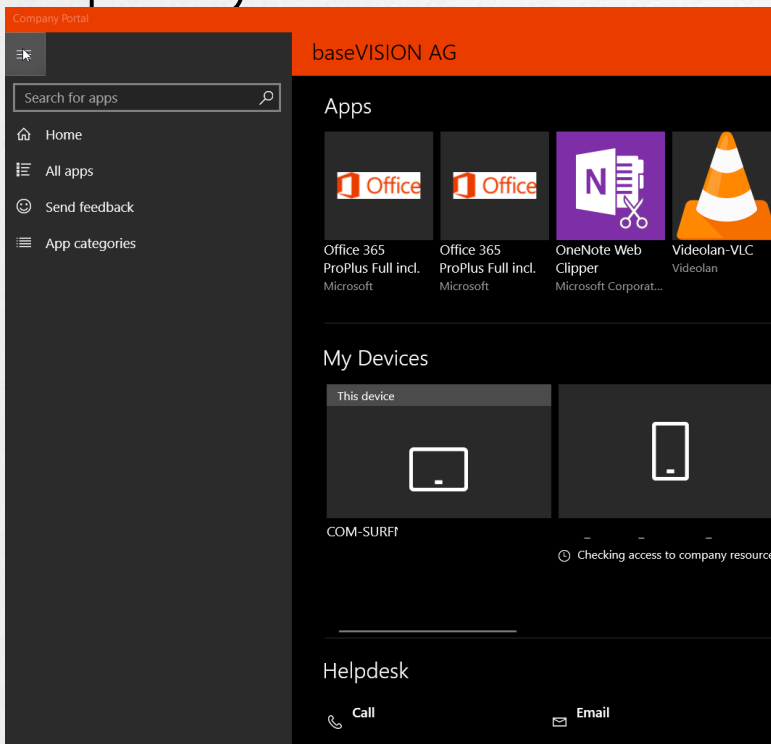
GROUP

No groups selected



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Company Portal





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- DEMO Applications in Intune



Home > techorama - Containers > techoramademo > ZoomIt.exe

techoramademo
Container

Search (Ctrl+I)

Overview

Access Control (IAM)

SETTINGS

Access policy

Upload Refresh More

Location: techoramademo

Search blobs by prefix (case-sensiti... Show deleted blobs

NAME

ZoomIt.exe
Blob

Save Discard Refresh Download Acquire lease Break lease

Overview Snapshots Edit blob Generate SAS

Properties

URL <https://techorama.blob.core.windows.net/techoramademo/ZoomIt.exe?sv=2017-07-29&ss=b&srt=sco&sp=rwdlac&se=2018-05-22T19:44:27Z&st=2018-05-22T11:44:27Z&spr=https&sig=df14dTL9oYvF...>

LAST MODIFIED 5/22/2018, 12:30:56 PM

TYPE Blob blob

SIZE 82.19 KiB

ENCIPHERED true

CONTENT-MD5 0x8D5BFCF1AA14FB6

STATUS Unlocked

STATE Available

DURATION -

COPY STATUS -

Shared access signature

CORS

Soft delete

Firewalls and virtual networks

Properties

Locks

Automation script

HTTPS only HTTPS and HTTP

Signing key key1

Generate SAS and connection string

Connection string

SAS token ?sv=2017-07-29&ss=b&srt=sco&sp=rwdlac&se=2018-05-22T19:44:27Z&st=2018-05-22T11:44:27Z&spr=https&sig=df14dTL9oYvF...

```
$Installer = "zoomit.exe"
Invoke-WebRequest "https://techorama.blob.core.windows.net/techoramademo/ZoomIt.exe?sv=2017-07-29&ss=b&srt=sco&sp=rwdlac&se=2018-05-22T19:44:27Z&st=2018-05-22T11:44:27Z&spr=https&sig=df14dTL9oYvF..."
Start-Process -FilePath $Path\$Installer -Args "" -Verb RunAs -Wait
Remove-Item $Path\$Installer
```



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Using Modern Windows Maturation



OMA-DM
Open Mobile Alliance – Device Mgmt
OMA-Uri



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Using Modern Windows Maturation

<https://docs.microsoft.com/en-us/windows/client-management/mdm/configuration-service-provider-reference>



Create profile

Name

1 wh10 Techorama Custom

Description

Enter a description...

Platform

Windows 10 and later

Profile type

Custom

Settings

Configure

Custom OMA-URI Settings

Windows 10 and later

OMA-URI Settings

AddExport

NAME	DESCRIPTION	OMA-URI	VALUE
No settings			





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Update and Patching

Packag



- Update and Patching of windows and Feature Editions:



EDUCATE YOUR EMPLOYEES!!!

Otherwise, they Do it wrong!



Microsoft Mechanics gefällt das



peter lurie @luriep · 10h

Used Windows Autopilot for the first time last week. Setting it up was easy and it just worked! Much faster than building an image. [#MSFTAdvocate](#)

Microsoft Mechanics @MSFTM...

You can ship new Windows 10 devices straight from the hardware vendor directly to your employees. Learn more about the zero-touch experience of Windows Autopilot....





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Thank you and have FUN at the conference

- Thanks to:
 - Roger Zander
 - brewersofeurope.org (Pics)

Do not forget Delivery
Optimization,
it helps ;-)





EXPERTS LIVE
CAP

Basics

Let's start with region. Is this right?

United Arab Emirates

United Kingdom

United States

Uruguay

Uzbekistan

Vanuatu

Vatican City

Yes



Listening...





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

Yes



Listening...

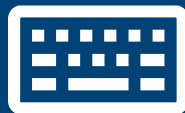




EXPERTS LIVE
CAP

Basics

Want to add a second keyboard layout?



Add layout

Skip



Listening...





EXPERTS LIVE
CAP

Network

Let's connect you to a network



ContosoMNGuestWiFi

Open

☐ Connect automatically

Connect



Contoso Corp

Secured



Contoso Corp 2

Secured



Network4

Open

Skip for now



Now let's get you connected to a network. That way you get updates, apps and cat videos as soon as possible. How about the first one on the list? Want to use that one?





EXPERTS LIVE
CAP

Network

Let's connect you to a network



ContosoMNGuestWiFi

Open

☐ Connect automatically

Connect



Contoso Corp

Secured



Contoso Corp 2

Secured



Network4

Open

Skip for now



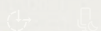
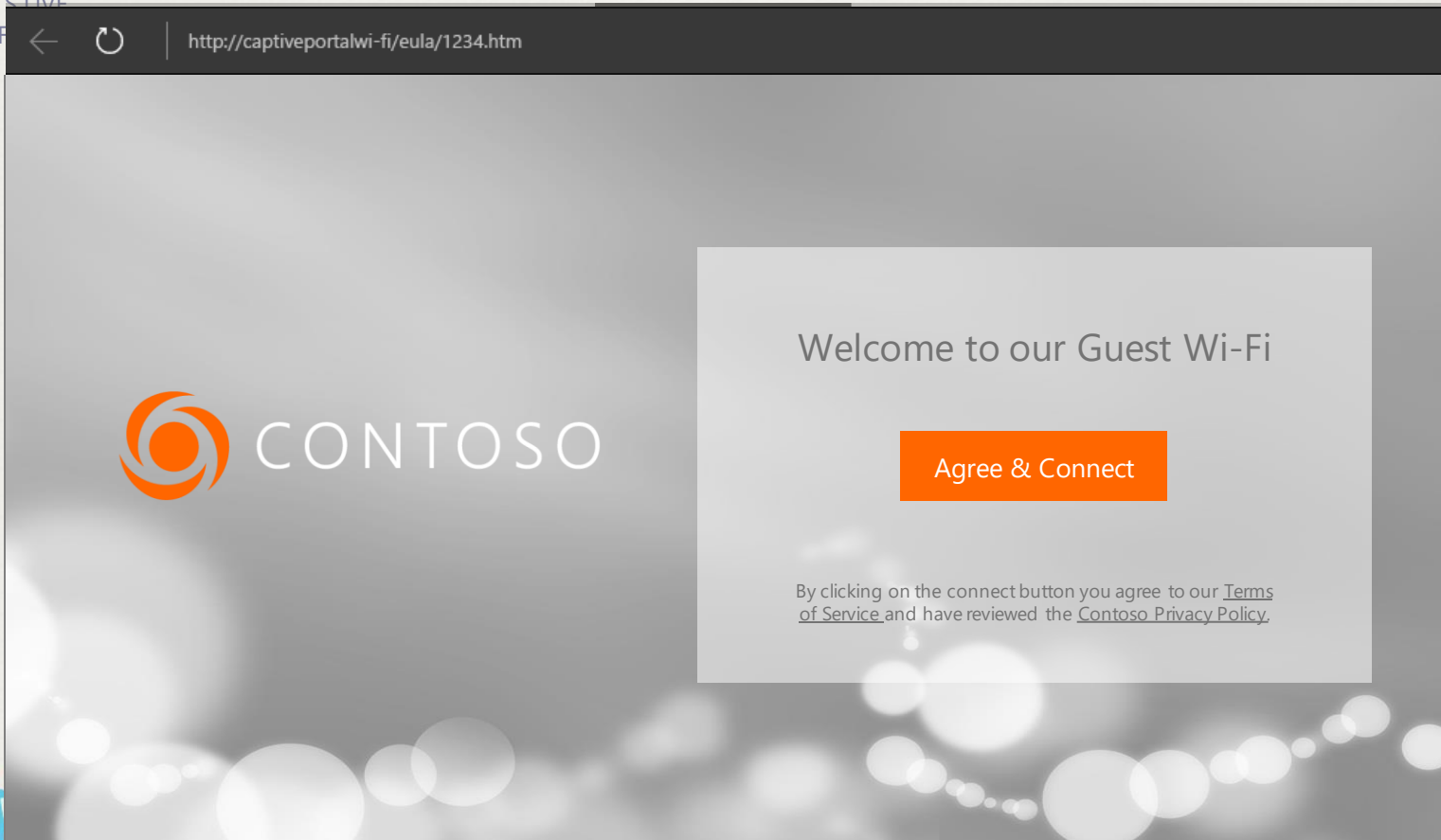
Now let's get you connected to a network. That way you get updates, apps and cat videos as soon as possible. How about the first one on the list? Want to use that one?





EXPERTS LIVE
CAP

Network





EXPERTS LIVE

CAP



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



CONTOSO

Welcome to our Guest Wi-Fi

Agree & Connect

By clicking on the connect button you agree to our [Terms of Service](#) and have reviewed the [Contoso Privacy Policy](#).





EXPERTS LIVE
CAP

Network



Just a moment...





EXPERTS LIVE
CAP

Network



Now we can go look for any updates





EXPERTS LIVE
CAP

Account

Welcome to ContosoMN!

Enter your ContosoMN email



Need help?

Please sign in with your ContosoMN email address

[Change account](#)

[Privacy & Cookies](#)

[Terms of Use](#)

[Next](#)



Listening...





EXPERTS LIVE
CAP

Account

Welcome to ContosoMN!

Enter your ContosoMN email



anna@contosomn.com

Need help?

Welcome to ContosoMN

[Change account](#) [Privacy & Cookies](#) [Terms of Use](#)

Next



Listening...





EXPERTS LIVE
CAP

Account

Welcome to ContosoMN!

Enter your ContosoMN password



Need help?

Welcome to ContosoMN

[Change account](#)

[Privacy & Cookies](#)

[Terms of Use](#)

[Next](#)



Listening...





EXPERTS LIVE
CAP

Finish setup

Setting up your device for work

This could take a while and your device may need to reboot.



Device preparation [Show details](#)

Complete



Device setup [Show details](#)

Getting things ready...



Account setup [Show details](#)

Waiting for previous step to finish





EXPERTS LIVE
CAP

Finish setup

Setting up your device for work

This could take a while and your device may need to reboot.



Device preparation [Show details](#)

Complete



Device setup [Show details](#)

Working on it...



Account setup [Show details](#)

Waiting for previous step to finish





EXPERTS LIVE
CAP

Finish setup

Setting up your device for work

This could take a while and your device may need to reboot.



Device preparation [Show details](#)

Complete



Device setup [Show details](#)

Complete



Account setup [Show details](#)

Waiting for previous step to finish



We're getting everything ready for you

Don't turn off your PC

Almost there



EXPERTS LIVE
CAP

Finish setup

Setting up your device for work

This could take a while and your device may need to reboot.



Device preparation [Show details](#)

Complete



Device setup [Show details](#)

Complete



Account setup [Show details](#)

Getting things ready...





EXPERTS LIVE
CAP

Finish setup

Setting up your device for work

This could take a while and your device may need to reboot.



Device preparation [Show details](#)

Complete



Device setup [Show details](#)

Complete



Account setup [Show details](#)

Working on it...





EXPERTS LIVE
CAP

Finish setup

Setting up your device for work

This could take a while and your device may need to reboot.



Device preparation [Show details](#)

Complete



Device setup [Show details](#)

Complete



Account setup [Show details](#)

Complete



We're getting everything ready for you.

Don't turn off your PC

Share your ideas



- Share your voice / ideas!

<http://microsoftintune.uservoice.com/>

<http://configurationmanager.uservoice.com/>





Herzlichen Dank

Mirko Colemborg @mirkocolemborg
@configmgr_ch #cmce_ch
blog.colemborg.ch

Bewertung der Session: [Configmgr.ch /
azureems.ch](http://configmgr.ch/azureems.ch)

Xing: <https://www.xing.com/net/cmce>

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<divider slide>





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An abstract graphic on the left side of the slide. It features a white silhouette of a person climbing a rope. The rope is represented by several thick, curved lines in shades of blue, green, and yellow. The person is positioned on the left, with their arms and legs extended as if they are climbing. The background is a solid blue color.

<Next session 00:00 – 00:00 uur>

<Title next session>

<Name speaker next session>