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Drive your computers like a maniac with Windows AutoPilot



2019
Global **Azure**
BOOTCAMP

April 27

by Bulgaria BI & .Net Geeks Group / Azure User Group Bulgaria

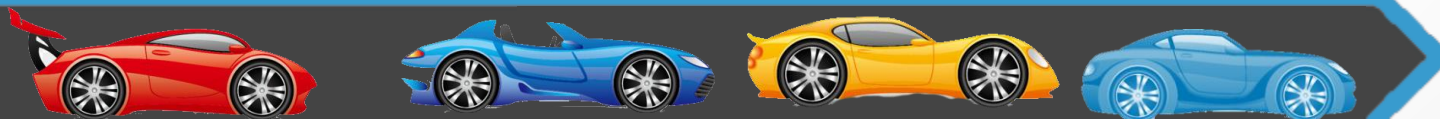
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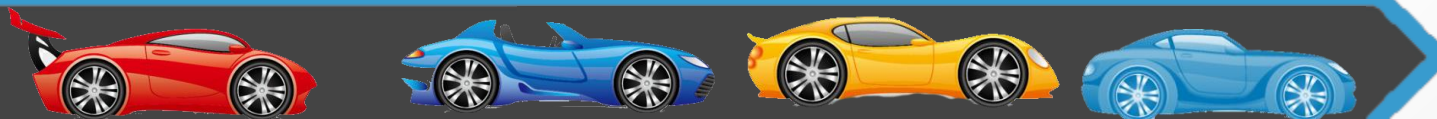
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Speaker Bio

- Ricardo Cabral
- Technical Engineer and also Microsoft Certified Trainer (MCT).
- IT Trainer | IT Consulting.
- I participate, volunteer and speak in community meetings.
- In my free time I'm often spotted at Xbox Live.
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- rramoscabral@gmail.com





Get-HumanInfo "Andre' Melancia"

→ Food devouring expert

→ Lunar Cat

→ Owner / Principal Consultant

→ Meow us at <http://LunarCat.PT>



→ Microsoft Certified Trainer (MCT)

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→ Volunteer and/or Speaker at:

→ International events: SQL Saturdays, PASS Summit, Data Platform Summit, SQLBits, SQLRelay, SQLDay, Intelligent Cloud Conference, MCT Summits Europe, IoT Bulgaria Summit, IT Proud Belgium, etc.

→ Local events: Global AI Bootcamp, Global Azure Bootcamp, Programar Saturday, Arduino Day, etc.

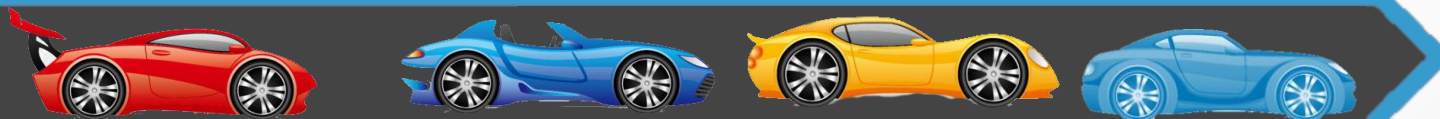
→ Online events and contents: GroupBy, 24HoP.(Data Security & Portuguese), PASS Global Portuguese VG, Channel9, Collab365, etc.

→ User groups: Data Community Portugal, PowerShell Portugal, IT Pro Portugal, IPv6 Portugal, DNSSec Portugal, Windows Development Portugal, etc.



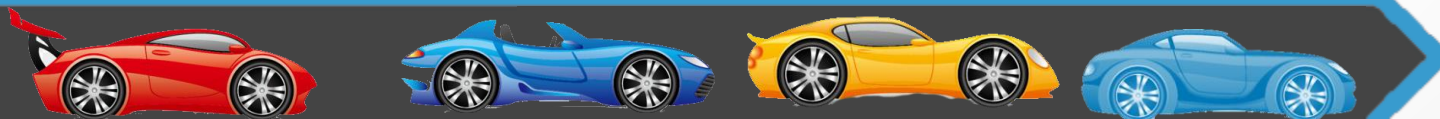
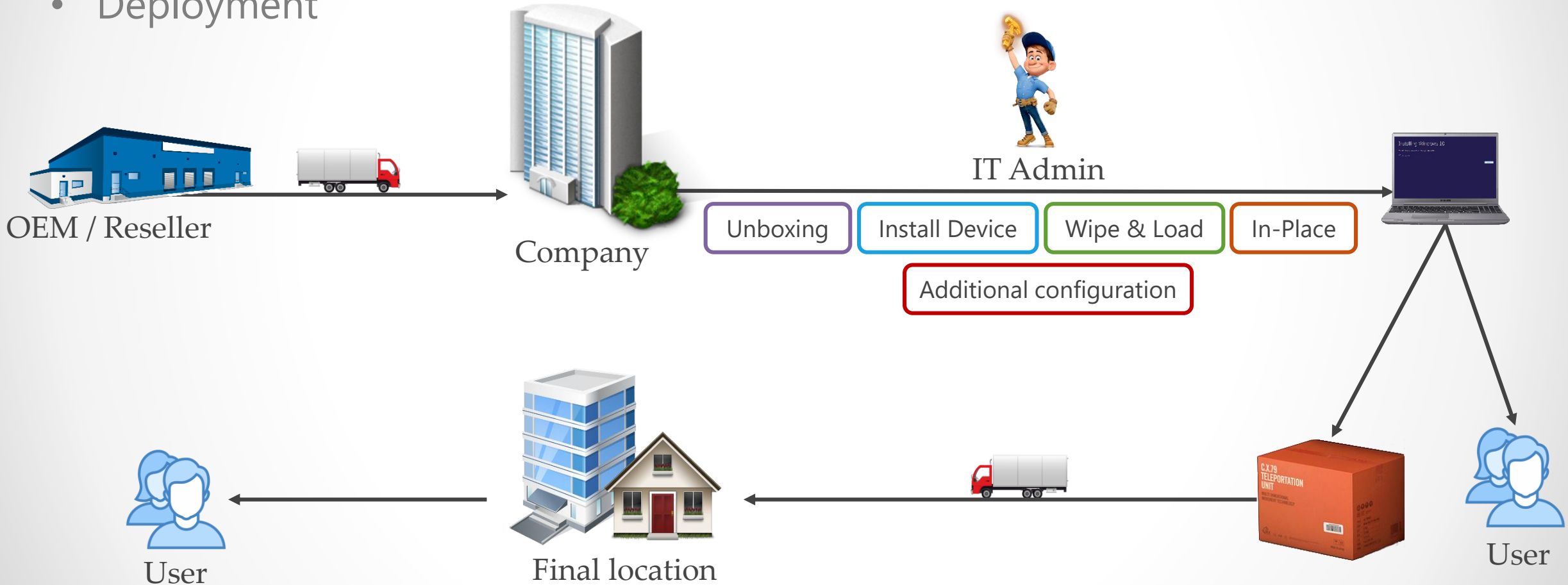
Agenda

- Traditional Device Management
- Modern Device Management
- Requirements
- Windows Autopilot
- Application Management
- Application types



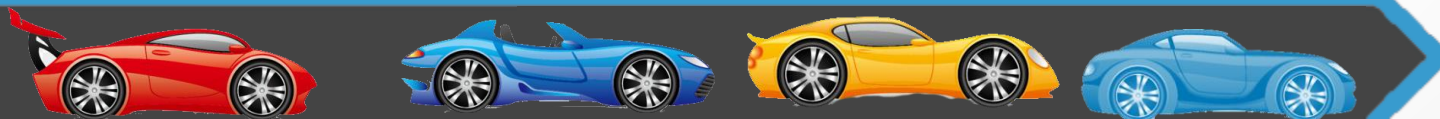
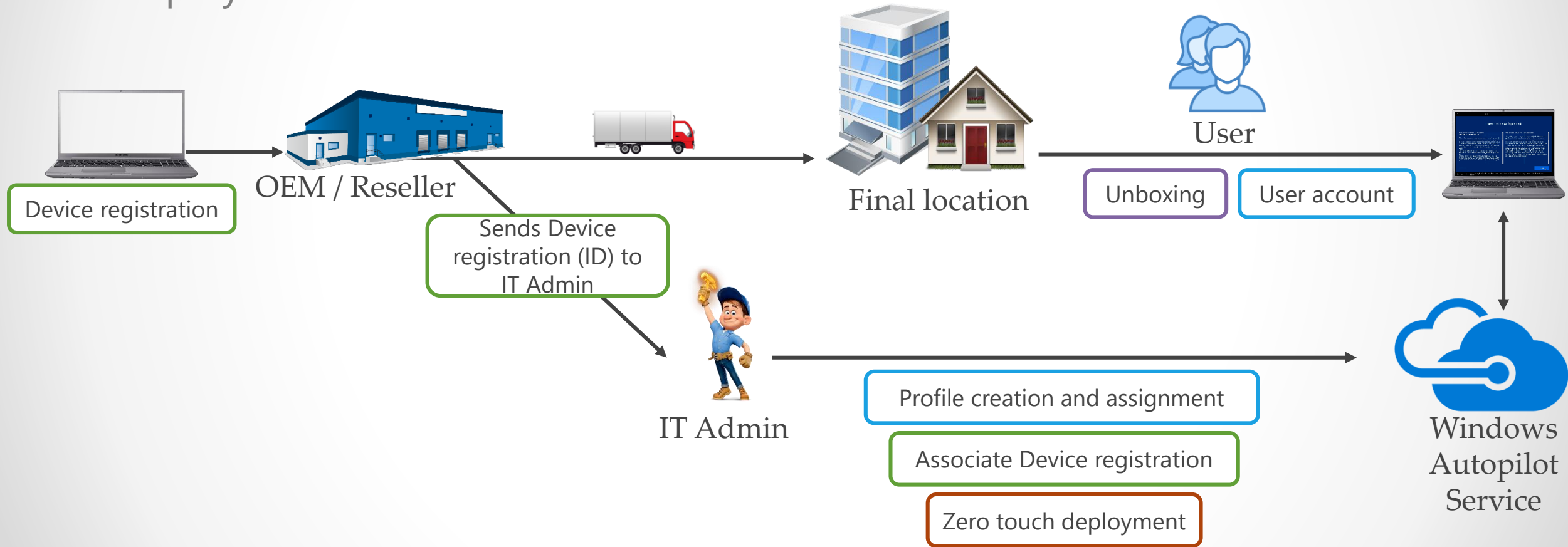
Traditional Device Management

- Deployment



Modern Device Management

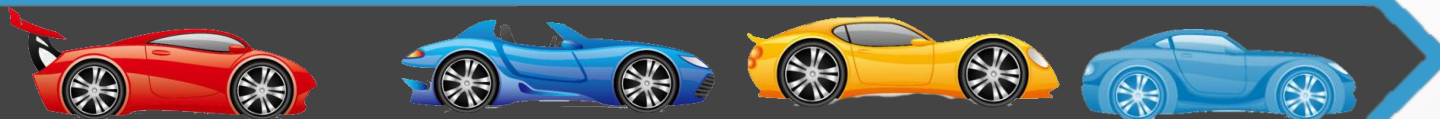
- Deployment



Modern Device Management Requirements

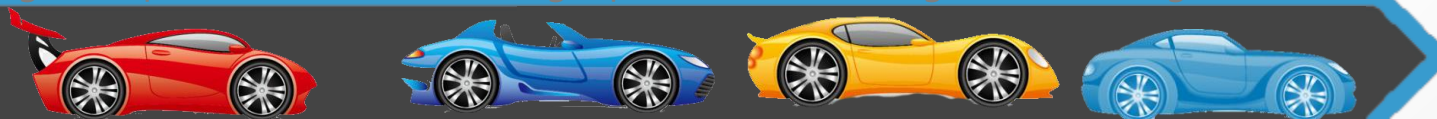
- Requirements
 - Device pre-installed with Windows 10 Pro, Enterprise or Education version 1703 or higher.
 - 1709 or newer is recommended for Windows Automatic Redeployment.
 - Device registration
 - Azure Active Directory Premium P1 or P2
 - Mobile device management (MDM) services like Microsoft Intune or other

- Can coexist with Traditional Device Management
 - Active Directory (on-premises)
 - System Center Configuration Manager (SCCM)



Windows Autopilot

- Windows Autopilot work with
 - New operating system out-of-the-box experience (OOBE)
 - And existing Windows 10 devices Pro, Enterprise or Education version 1709 or newer.
- Devices must be registered on Azure AD P1 or P2
 - Company branding needs to be configure
- Microsoft Intune for mobile device management service (MDM)
- Upload Device Hardware Information using Intune or Microsoft Store for Business
- Devices must have access to the internet
 - Any type of Internet connection works
 - The following URL can not be blocked
 - account.live.com, ctldl.windowsupdate.com, download.windowsupdate.com, go.microsoft.com, licensing.md.mp.microsoft.com, licensing.mp.microsoft.com, login.live.com, login.microsoftonline.com, signup.live.com

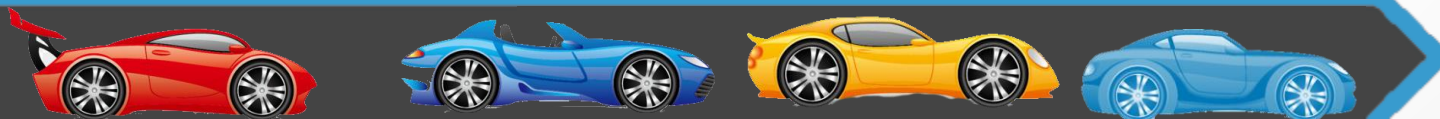


Extract device Hardware information

- What information is extracted
 - Device Serial Number
 - Windows Product ID
 - Hardware Hash

- How to extract
 - Get-WindowsAutoPilotInfo script

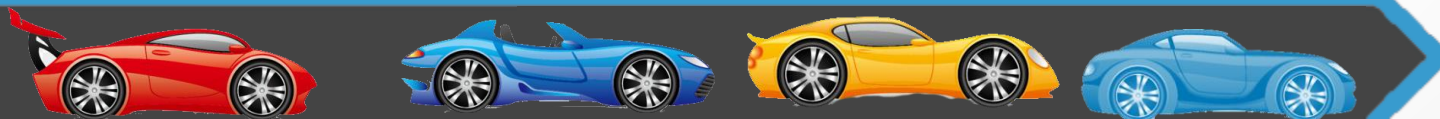
```
PS C:\> Set-ExecutionPolicy Unrestricted  
PS C:\> Install-Script -Name Get-WindowsAutoPilotInfo  
PS C:\> Get-WindowsAutoPilotInfo.ps1 -OutputFile C:\Device1.csv
```



-
- Other way to extract using is using WMI Query Language (WQL)

```
PS C:\> wmic bios get serialnumber
PS C:\> Get-ItemPropertyValue "hklm:\SOFTWARE\Microsoft\Windows NT\CurrentVersion\DefaultProductKey\"
"ProductId"
PS C:\> $wmi = Get-WMIObject -Namespace root/cimv2/mdm/dmmap -Class MDM_DevDetail_Ext01 -Filter
"InstanceID='Ext' AND ParentID='./DevDetail'"
PS C:\> $wmi.DeviceHardwareData | Out-File "($env:COMPUTERNAME).txt"
```

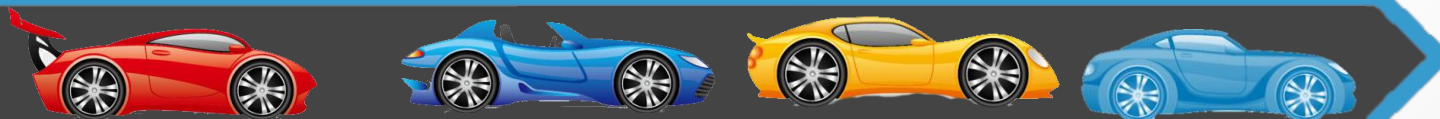
- Is recommend to use Get-WindowsAutoPilotInfo script



Demo

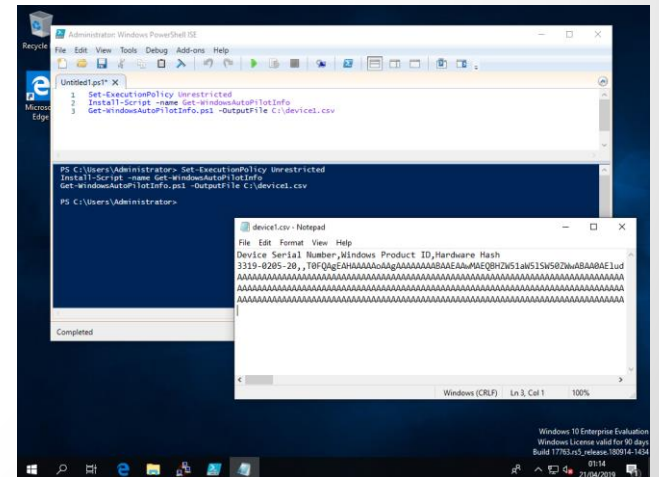
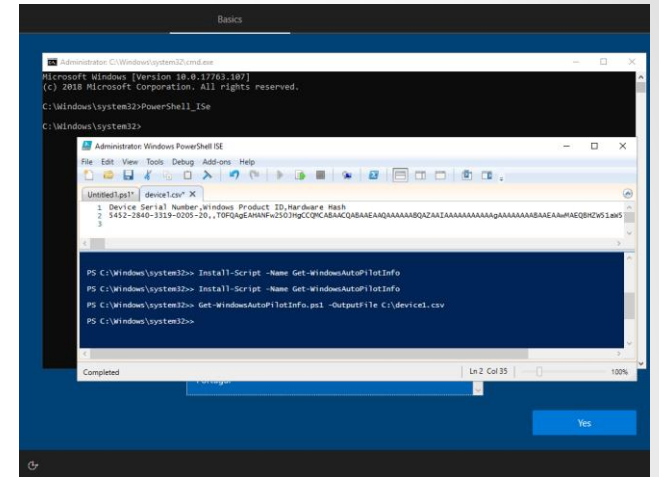


Extract device Hardware information & Windows Autopilot



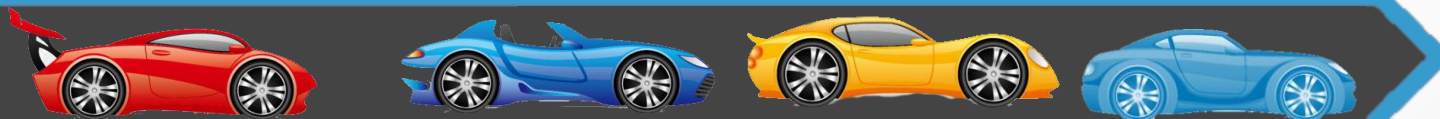
Extract device Hardware information

- Trick for new hardware or Windows 10 installation
 - Command Prompt
 - shift + F10
 - PowerShell_Ise
 - shutdown /p
 - Or Start Administrator Session with System Preparation Tool (Sysprep)
 - ctrl + shift + F4



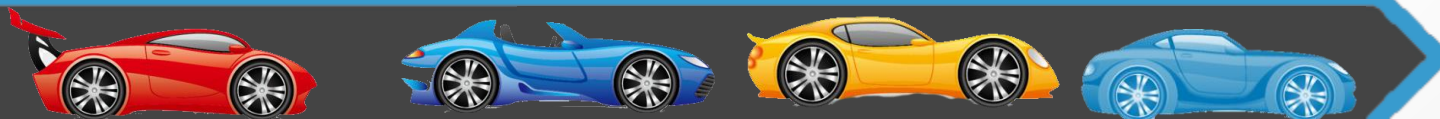
Application Management

- Microsoft Intune can manage client apps
- Intune can deploy apps by user or device
- One more reason to use Windows Autopilot with Intune
- Intune also allows to create device profile to set device restrictions



Application types

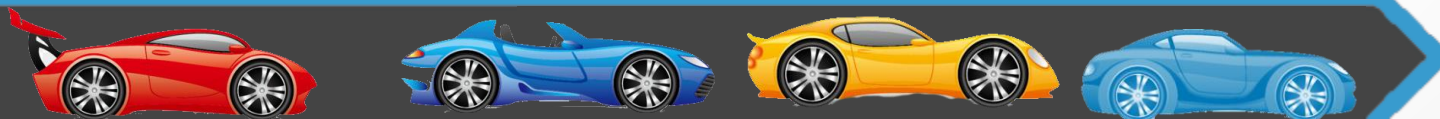
- Store apps
 - Apps from official Apple, Google or Microsoft Store
- line-of-business (LOB)
 - Apps written in-house that we must supply the installation file
- built-in apps
 - Apps that are built-in for Android, or iOS
- Web link
 - A shortcut to the web app on the web
- Windows app (Win32)
 - LOB app that we must supply the installation file



Demo



Application Management



Intune device options

Home > Microsoft Intune > Devices - All devices > DESKTOP-FJBBHV

DESKTOP-FJBBHV

Search (Ctrl+/)

- Overview
- Manage
 - Properties
- Monitor
 - Hardware
 - Discovered apps
 - Device compliance
 - Device configuration
 - App configuration
 - Security baselines
 - Managed Apps
 - Recovery keys - Preview

Actions: Retire, Wipe, Delete, Remote lock, Sync, Reset passcode, Restart, Fresh Start, AutoPilot Reset (preview), Quick scan, Full scan, Update Windows Defender si... More

Device details:

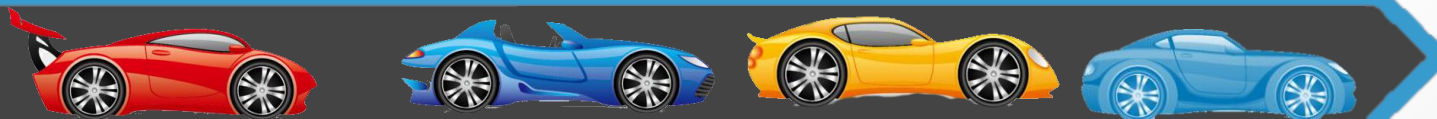
- Device name : DESKTOP-FJBBHV
- Management name : test_Windows_4/21/2019_6:56 PM
- Ownership : Corporate
- Serial number : 5867-1617-5452-2840-3319-0205-20
- Phone number : ---
- Enrolled by User : Test
- Compliance : Compliant
- Operating system : Windows
- Device model : Virtual Machine
- Last check-in time : 4/21/2019, 9:51:55 PM

[See more](#)

Device actions status

ACTION	STATUS	DATE/TIME
No results		

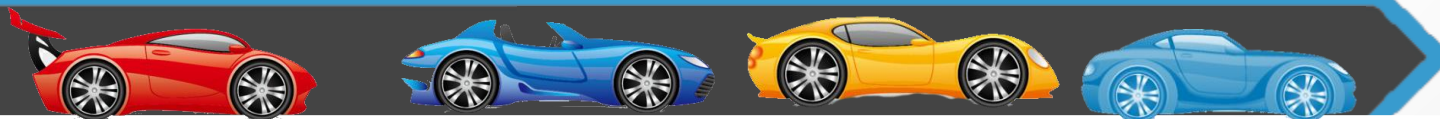
More options: Rename device, New Remote Assistance Sess...



Q&A



Source: keepcalmandposters.com



Благодаря!

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Thank You!

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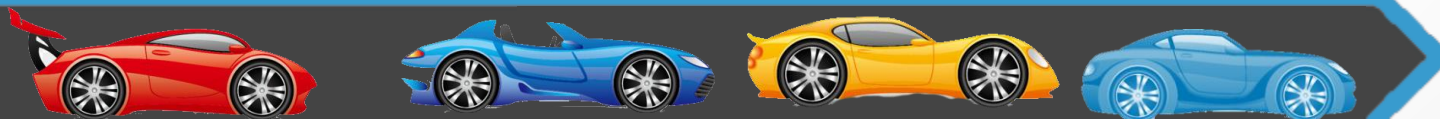
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