

Thomas Kurth & Nicola Suter



CLASSIC ON-PREM SERVICES IN THE CLOUD



Configuration Manager Community Event CMCE

About us...



baseVISION



Thomas Kurth

Principle Workplace Consultant, baseVISION AG

Wirtschaftsinformatiker FH / EMBA

M365 Expert

IPMA & ITIL Zertifiziert

Contact Me

Twitter: https://twitter.com/ThomasKurth_ch

Blog: <https://wpninjas.ch>

Mail: thomas.kurth@basevision.ch

About us...



Nicola Suter

Workplace Engineer itnetX (Switzerland) AG

Informatiker EFZ

BSc student in computer science

Contact Me

Twitter: <https://twitter.com/nicolonsky>

Blog: <https://tech.nicolonsky.ch/>

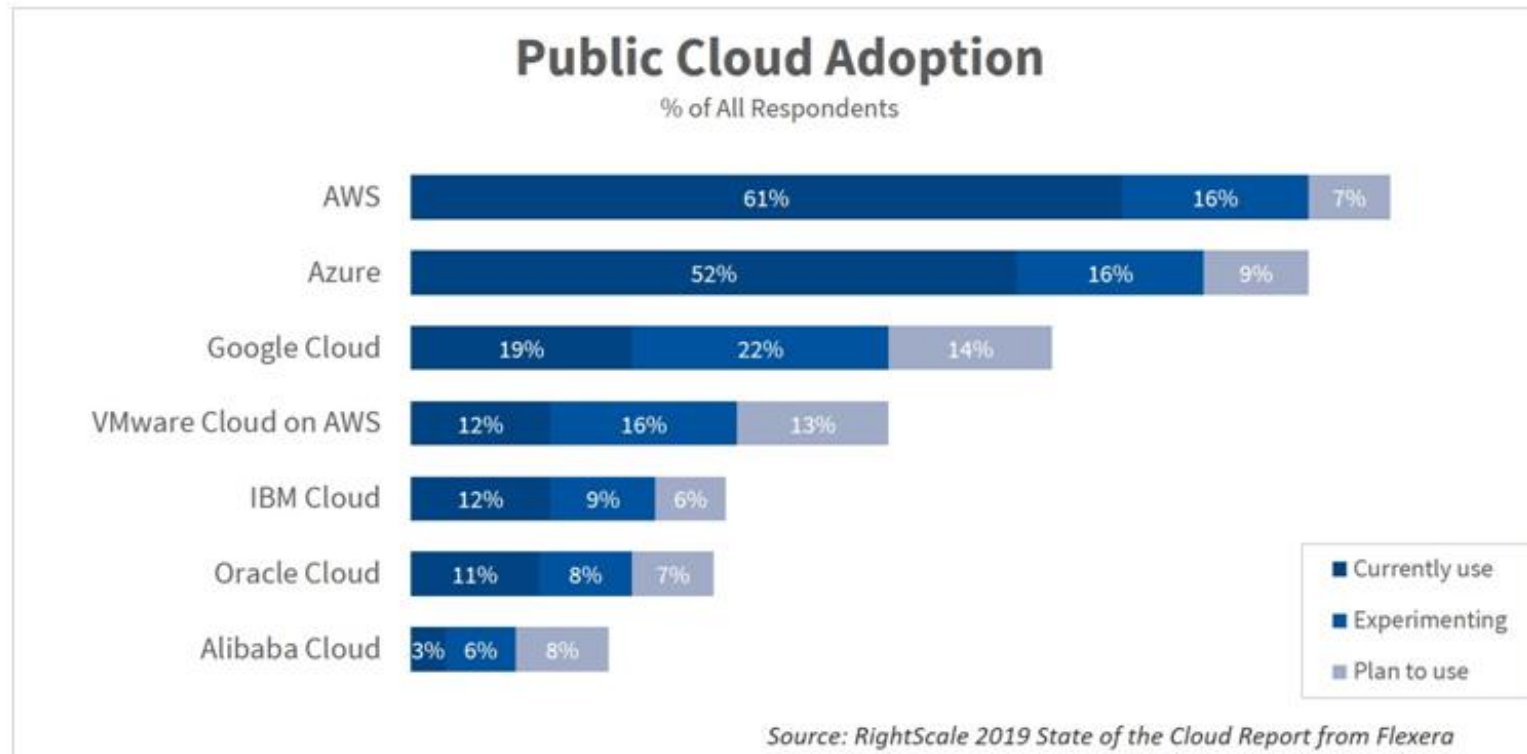
Mail: nicola@nicolasuter.ch



**The world was
cloud only!**

The story of cloud 2019 - ???

- Still 30% are not using the cloud
- 50% of our customers are using some O365 services
- 20% of our customers are using M365 (Fast growing)



Why? Is it really not possible to use cloud only?

Microsoft offers cloud attached

- Cloud attached is the best from both worlds!
- ConfigMgr will stay as long you need it!
- Attach cloud-based intelligence and functionality as needed!

But before going this way you should check if you really have no cloud only option.



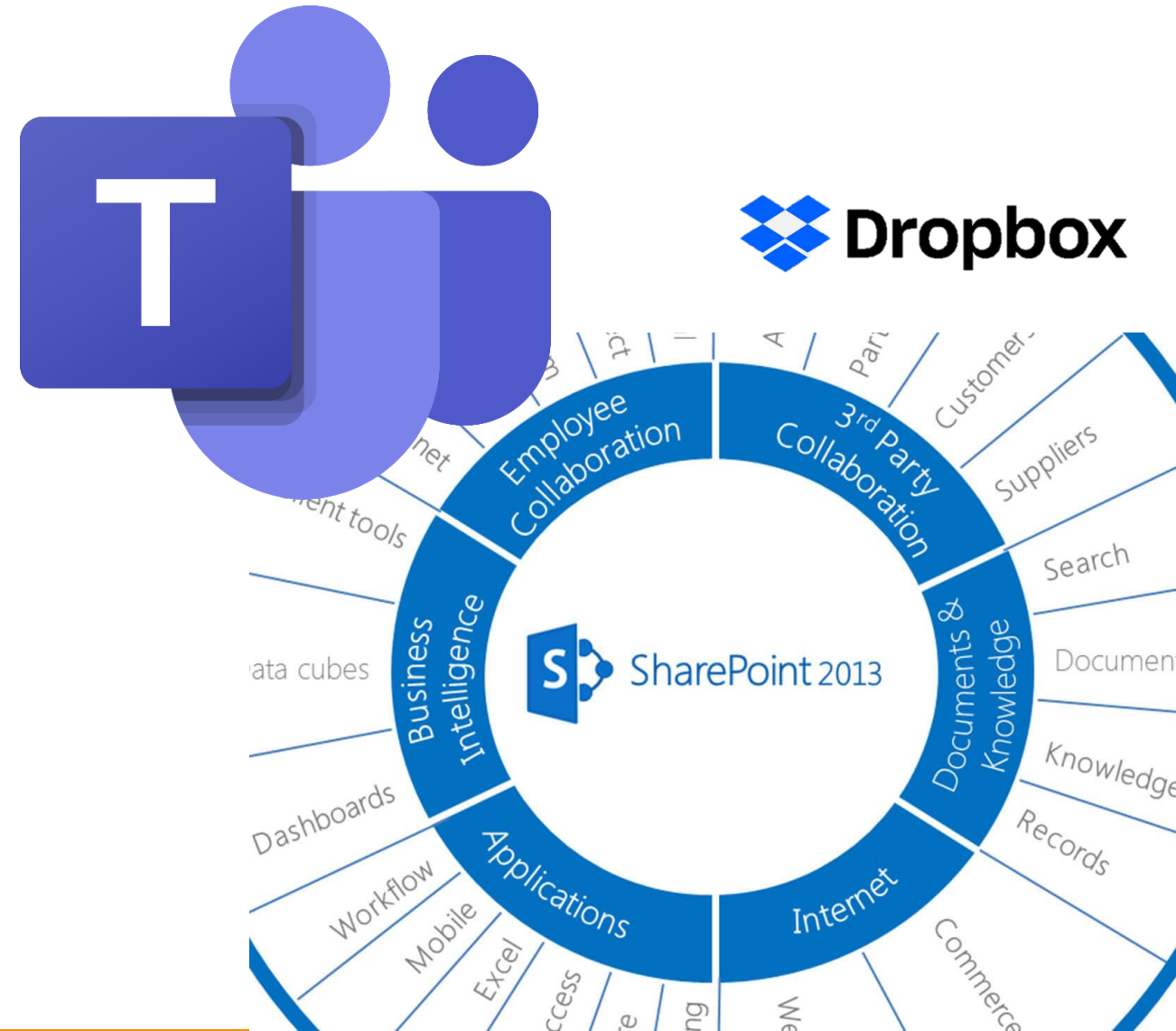
In this Session we will show you solutions for some of the “fake blockers”!

Traditional Fileshares

- Technologies used
 - NTFS
 - SMB
 - Kerberos
 - NTLM
- Devices
 - NAS Storage
 - Windows File Server
- Organization in folder trees

Traditional Fileshares → Modern World

- Technologies used
 - NTFS
 - SMB
 - Kerberos
 - NTLM
- Devices
 - NAS Storage
 - Windows File Server
- Organization in folder trees



But I still need file shares or
other NTLM/Kerberos
Resources!

Resources

- When a user signs into an Azure AD joined device in a hybrid environment:
 1. Azure AD sends the name of the on-premises domain the user is a member of back to the device.
 2. The local security authority (LSA) service enables Kerberos authentication on the device.
- During an access attempt to a resource in the user's on-premises domain, the device:
 1. Uses the domain information to locate a domain controller (DC).
 2. Sends the on-premises domain information and user credentials to the located DC to get the user authenticated.
 3. Receives a Kerberos Ticket-Granting Ticket (TGT) that is used to access AD-joined resources.

Details: <https://docs.microsoft.com/en-us/azure/active-directory/devices/azuread-join-ss0>

Demo

- Local PKI with NDES and SCEP integrated in Intune
- Use cases
 - Wi-Fi Authentication
 - VPN Authentication
- Issues
 - Validating computer certificates on Windows Server with NPS role does NOT Work!
 - Still requires infrastructure
- Other options
 - SCEPMan
 - Cloud PKI Symantec --> Still requires SCEP Server

Printing – Windows Server capabilities

- Print server
 - Requires maintenance
 - Mapping printers is often overcomplicated
 - Intended to use with Active Directory

Printing – but I've heard there's Hybrid Cloud Print?

- Windows Server Hybrid Cloud Print
 - Complicated deployment and quite a few resources to deploy
 - Lots of PowerShell commands to add and manage printers
 - Even more servers running on premise

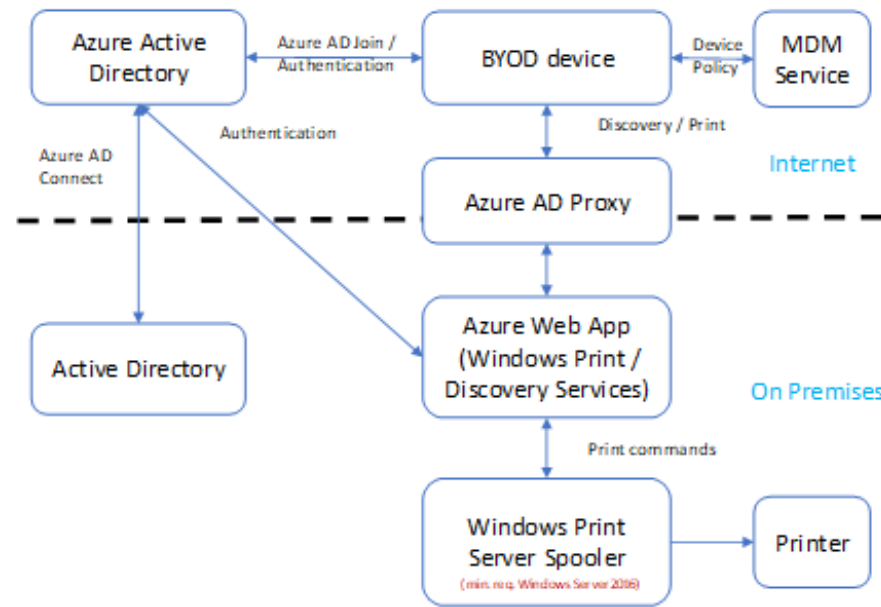


Image: Microsoft Docs: <https://docs.microsoft.com/en-us/windows-server/administration/hybrid-cloud-print/hybrid-cloud-print-overview>

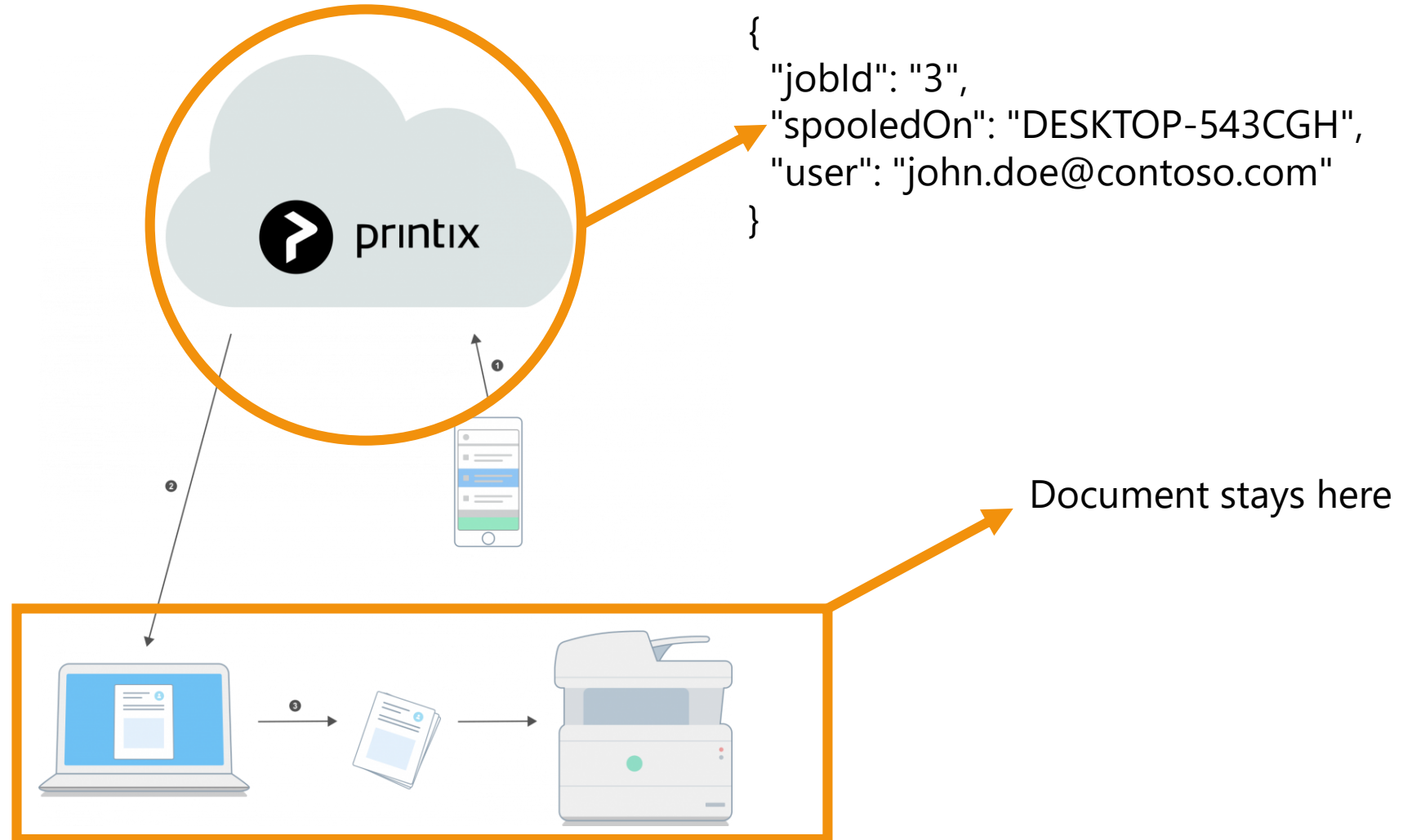
Printing – Microsoft's recommended 3rd party solution

- printix
 - "serverless" cloud printing (SaaS)
 - Available from Microsoft app source
 - Seamless Azure AD integration
 - Easy client agent deployment (single MSI)
 - Documents do not leave the corporate network
 - Vendor independent follow-me and secure printing
 - Easy onboarding because print queues from a print server can be migrated including custom settings on drivers
 - Supports Windows Virtual Desktop

Details: <https://manuals.printix.net/administrator>

Printing – printix under the hood

- Documents do not leave the corporate network?



Demo



Printing – printix demo

Printix App | Workplace Ninja Community Swi | +

https://configmgr.ch/cmce-1910/

itnetX Admin | Tech Stuff | Priv | FHNW | SBB | TP TrainingPeaks | Wrike | Abacus ERP | Cohesive Devices | Feedly | Online Markdown E... | Windows 10 - relea...

NUMBER OF EVENTS CONFIGURED

CONFIGURATION MANAGER COMMUNITY EVENT (CMCE) // USERGROUP FOR SYSTEM CENTER CONFIGURATION MANAGER AND AZURE EM+S

home **cmce 1910** speaker sponsors about privacy policy

CMCE 1910

Freitag 4 Oktober 2019, Digicomp Bern

8.30-9.00	Registration
9.00-10.00	Security – Configuration vs Monitoring Der aktuelle Gartner Quadrant bestätigt Microsoft eine Leader-Rolle im Bereich Endpoint Protection. Durch die Vielzahl der Produkte ist aber oftmals nicht klar, wie die Lösungen zusammenhängen, wo die Konfiguriert erfolgt und wie eine effiziente Analysen durchgeführt werden kann. In dieser Session zeigen wir die grundsätzlichen Ansätze auf, um die Security Lösungen optimal einzusetzen. Daniel von Büren
10.00-10.15	Pause
10.15-11.15	Classic On-Prem Services in the Cloud Moving to the clouds brings a lot of benefits, but some existing services are most often not perfectly covered. For example printing, file shares and OS deployment is often generating problems. During this session you will learn more about available solutions for these issues. Nicola Suter, Thomas Kurth
11.15-11.30	Pause
11.30-12.30	MSIX: The Road ahead Our goal, simplifying your app packaging and deployment. MSIX is the evolution of Microsoft's app installer technology, bringing together learnings from the past to create a simpler app installer experience. With MSIX you can have a clean, optimized installation and deployment experience. Come to learn about what's new in the last year and what is coming soon. Let's talk about improvements to conversion, signing, and distribution across your enterprise. John Vintzel
12.30-13.30	Lunch
13.30-14.30	MSIX Community Tools Der neue Stern am Software Deployment Himmel trägt den Namen MSIX. Diesen Stern gibt es bereits mehr als ein Jahr am Himmel.

Search this site

Sponsor 2019

BitHawk
Subscribe to Blog via Email

Enter your email address to subscribe to this blog and receive notifications of new posts by email.

Email Address

Subscribe

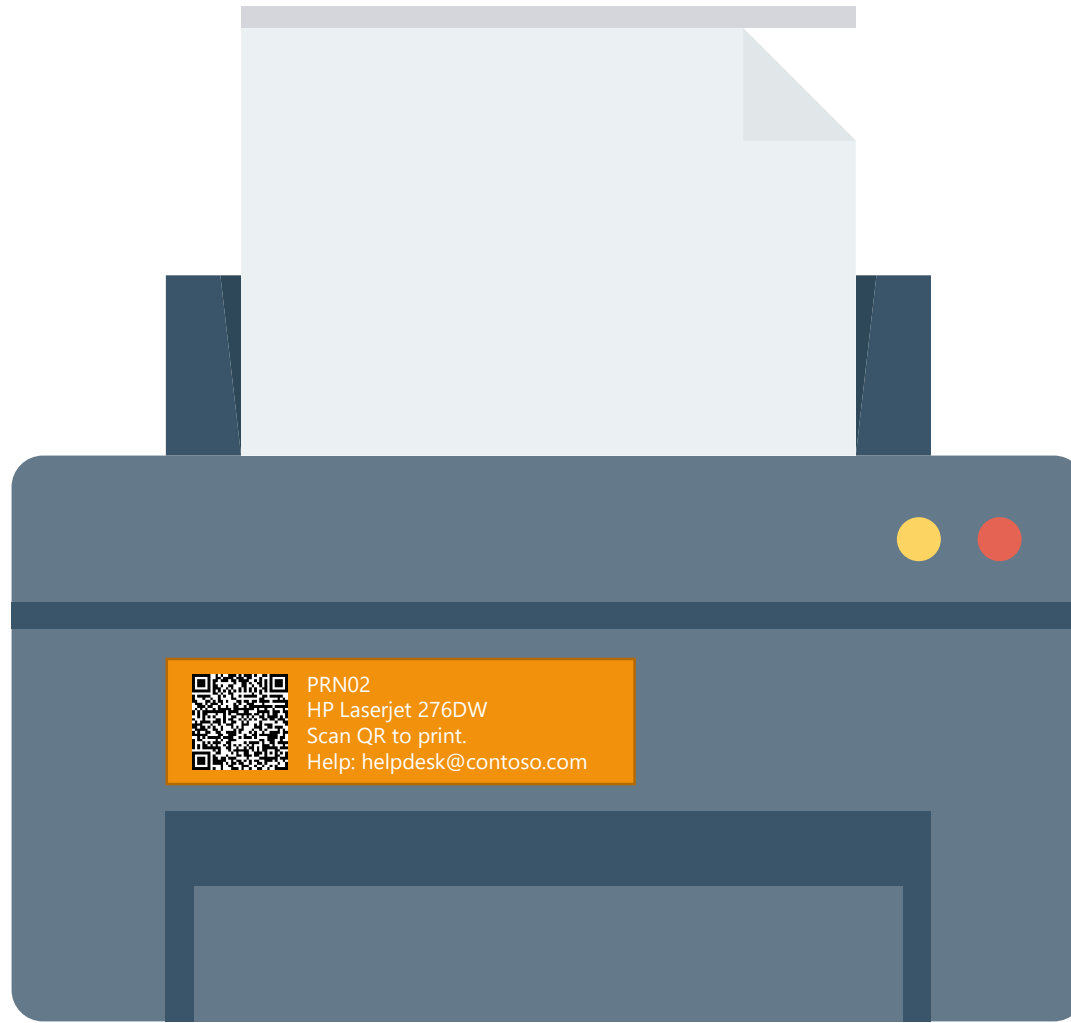
Follow me on Twitter

Mirko [MVP] @mirkocolemborg
#MicrosoftEvent #surfaceDUO take my money, I want it now!!!! 🍷❤❤❤
16h
Mirko [MVP] Retweeted

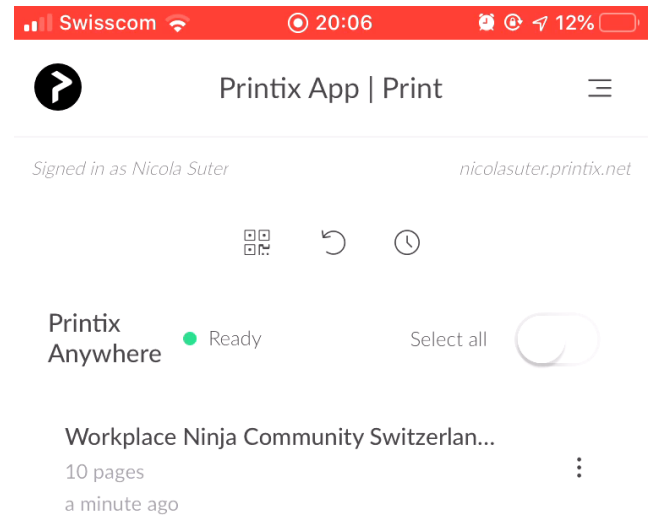
Type here to search

09:34 03.10.2019

Printing – printix demo



Printing – printix demo



I want my "normal" printers and have no need for follow-me printing?

Printing – printix challenges

- Real live feedback
 - No accounting (only Power BI reports)
 - No "scan to folder" capabilities
 - End user adoption

OS Deployment

2019 and still in need for Wipe and Load OSD?!

- Use cases from the field:
 - Integrate "old" devices into Autopilot and Intune
 - Upgrade TPM and UEFI-Firmware
 - Deploy a "clean" Windows for devices not shipped with a vanilla image or outdated Windows versions
 - Cloud Deploy from vendors

OS Deployment - mOSD

- Easy staging with Roger Zander's mOSD
 - Zero touch Windows 10 installation based on Autounattend.xml
 - Recommendation: Store your mOSD config within a git repository and enjoy a simplified configuration management

Latest mOSD sources: <https://github.com/rzander/mosd>

Documentation: <https://rzander.azurewebsites.net/modern-os-deployment-mosd/>



mOSD hands-on

Questions?

Share your ideas



• Share your voice / ideas!

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

Event Feedback:



Session Feedback:



Danke



Herzlichen Dank

@nicolonsky @ThomasKurth_CH @configmgr_ch #cmce_ch

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

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

Facebook: <https://www.facebook.com/groups/411231535670608/>

Linkedin: <http://www.linkedin.com>

Twitter: https://twitter.com/configmgr_ch

Nächster Event: Freitag 15. November, Zürich

baseVISION



BitHawk

RealStuff
Informatik AG

digicomp

Digital Competence. Made of People.