

# MC2MC

Windows Kiosk – Putting the FUN in functionality



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# Let's tell a story

Business asks for a kiosk device?!

Why it's simply impassible!

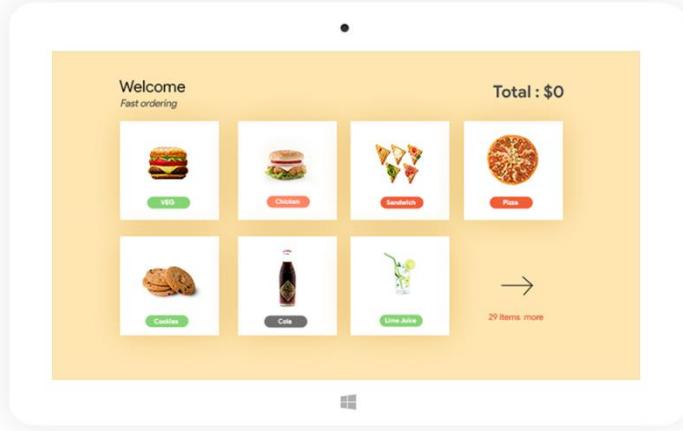
Alice: Why, don't you mean impossible?

Door: No, I do mean impassible. (*chuckles*) Nothing's impossible!"

Our current state →



# Examples



# Interactive or billboard?



# Requirements, what's that?

It needs to display a browser.

It needs to be secure.

It needs to solve World War 3!

Device should login automatically.

It should be enrolled in Intune.

I don't ever want to see a sign in screen!

Deployments should be easy.

Can it run DOOM?

I want a multi display kiosk that shows Firefox on one screen,  
Chrome on the second and Edge on the third screen...

The solitaire collection should NOT be allowed.

# Functional & Technical Requirements

**Client : Why don't you clearly understand my requirements ?**

**His Requirement :**



# What's possible in Intune?



Still our current state →



# Single-app Kiosk

## Create a profile

Platform

Windows 10 and later

Profile type

Templates

Templates contain groups of settings, organized by functionality. Use a template if you don't want to build policies manually or want to configure devices to access specific networks, such as configuring WiFi or VPN. [Learn more](#)

Search by profile name

Template name

Kiosk  ⓘ



Configure your devices to run in kiosk mode. Before you select a kiosk mode, review your app assignments in the Mobile Apps blade. Apps that you want to run in kiosk mode should be assigned to a Windows device. [Learn more about Windows kiosk mode](#).

Select a kiosk mode  ⓘ

Single app, full-screen kiosk

User logon type  ⓘ

Auto logon (Windows 10, version 1803 and later, or Windows 11)

Application type  ⓘ

Add Microsoft Edge browser

This kiosk profile requires Microsoft Edge version 87 and later with Windows 10 version 1909 and later. [Learn more about Microsoft Edge kiosk mode](#).

Edge Kiosk URL  ⓘ

<https://xkcd.com>

Microsoft Edge kiosk mode type  ⓘ

Digital/Interactive Signage (InPrivate)

Refresh browser after idle time  ⓘ

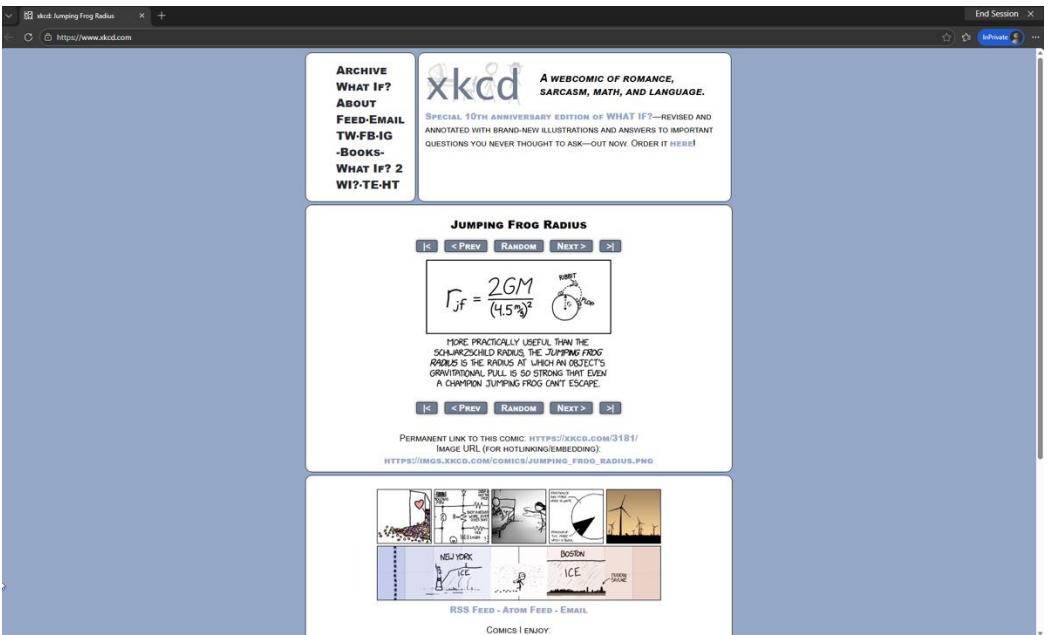
5

# Single-app Kiosk



Single-app kiosk

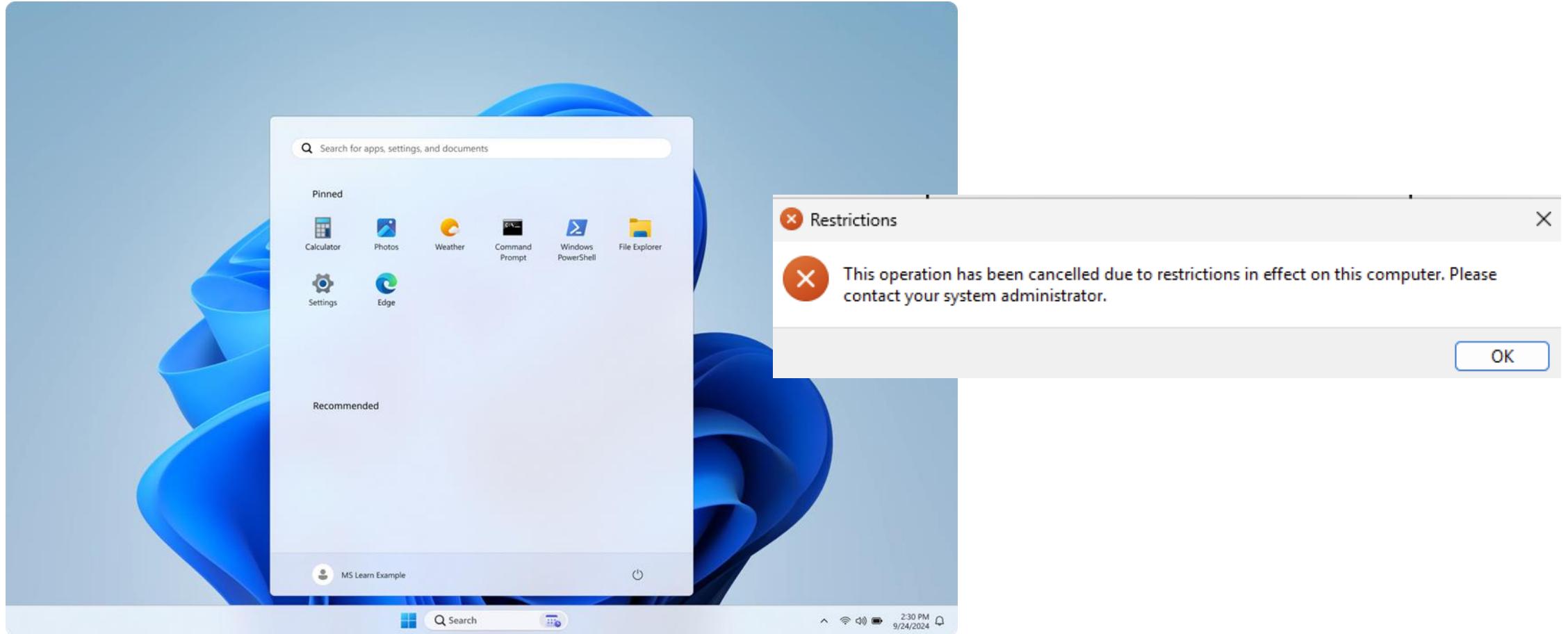
Assigned Access



Shell Launcher



# Restricted User Experience



# Restricted user experience

 Restricted user experience

Select a kiosk mode \* ⓘ

Target devices running Windows 10/11 in S mode \* ⓘ

User logon type \* ⓘ

Browsers and Applications \* ⓘ

Apps are pinned to the full Start layout in the order and tile size you choose below. Click and drag any row in the table to change its display order. [Learn more](#).

Name ⓘ	Type ⓘ	Settings	Autolaunch	Tile size
			Add Kiosk browser	
			Add Win32 app	Add by AUMID

Use alternative Start layout \* ⓘ

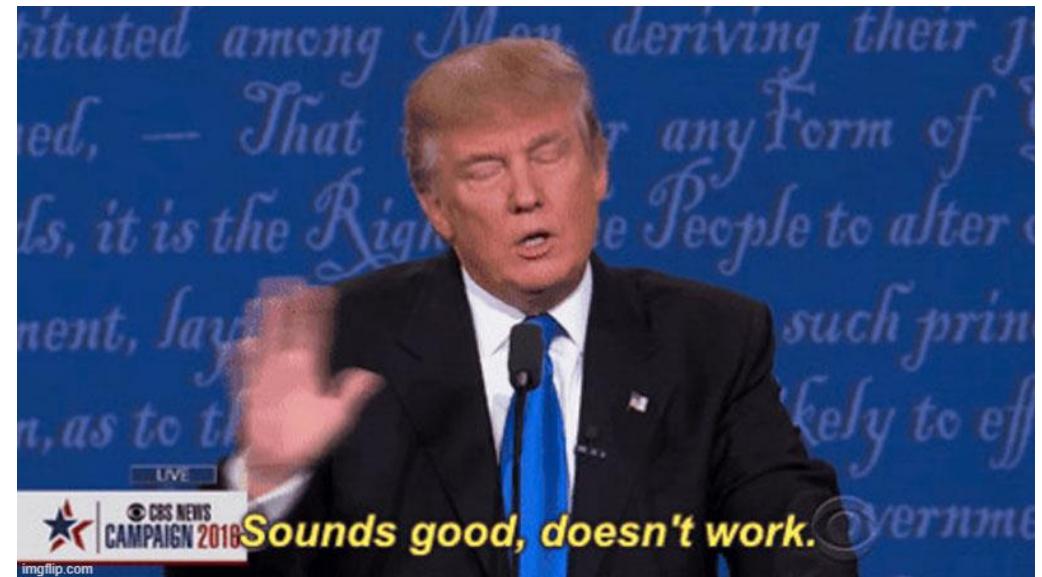
Windows Taskbar ⓘ  Show  Hide

Allow access to Downloads folder ⓘ  Yes  No

Specify Maintenance Window for App Restarts \* ⓘ  Require  Not configured

Maintenance Window Start Time

Maintenance Window Recurrence ⓘ



Current mood →



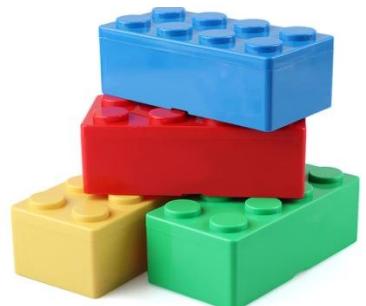
# Assigned Access XML policy

Intune/CSP   PPKG   PowerShell   Settings

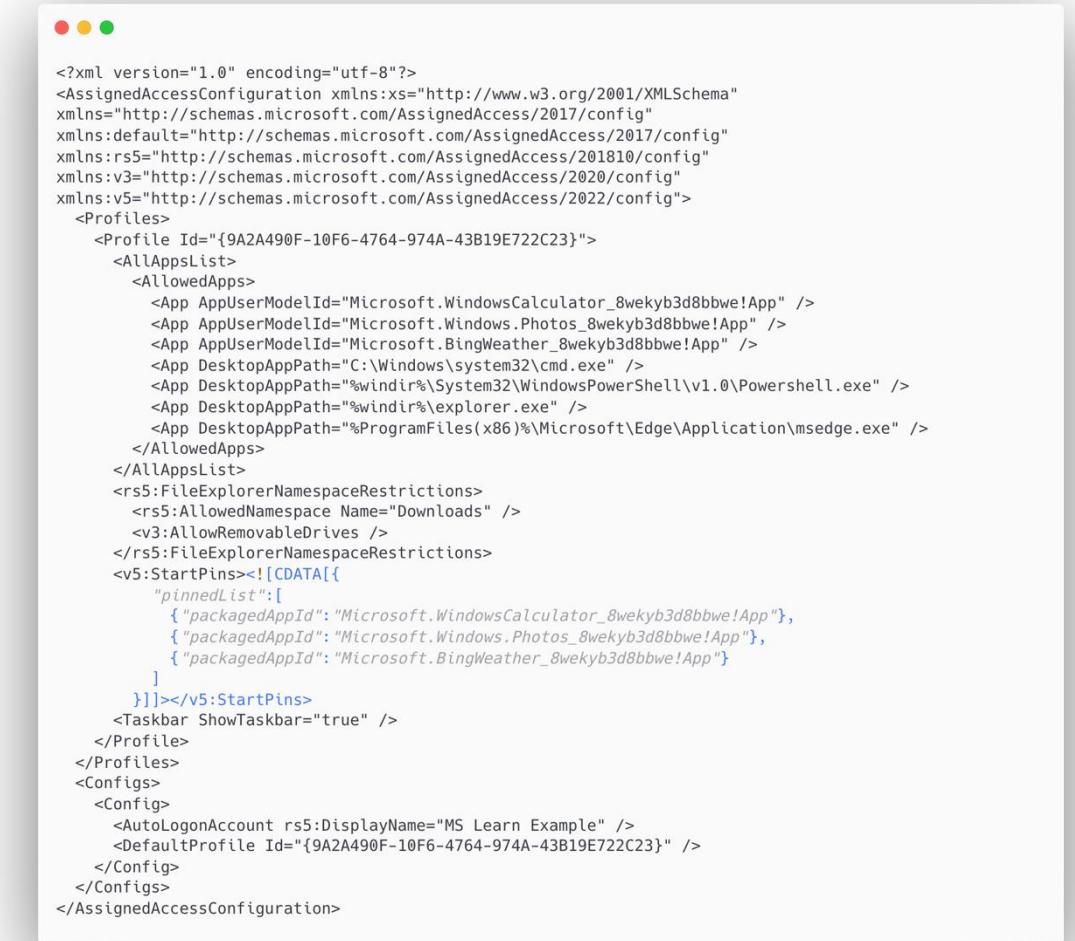
You can configure devices using a [custom policy](#) with the [AssignedAccess CSP](#).

- **Setting:** `./Vendor/MSFT/AssignedAccess/Configuration`
- **Value:** content of the XML configuration file

Assign the policy to a group that contains as members the devices that you want to configure.



# Assigned Access XML full example



The screenshot shows a code editor window with a light gray background and a white code area. The code is an XML configuration file for Assigned Access. It defines a profile with specific allowed apps and pinned Start Pins. The XML uses namespaces from Microsoft's Assigned Access schema.

```
<?xml version="1.0" encoding="utf-8"?>
<AssignedAccessConfiguration xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns="http://schemas.microsoft.com/AssignedAccess/2017/config"
    xmlns:default="http://schemas.microsoft.com/AssignedAccess/2017/config"
    xmlns:rs5="http://schemas.microsoft.com/AssignedAccess/201810/config"
    xmlns:v3="http://schemas.microsoft.com/AssignedAccess/2020/config"
    xmlns:v5="http://schemas.microsoft.com/AssignedAccess/2022/config">
    <Profiles>
        <Profile Id="{9A2A490F-10F6-4764-974A-43B19E722C23}">
            <AllAppsList>
                <AllowedApps>
                    <App AppUserModelId="Microsoft.WindowsCalculator_8wekyb3d8bbwe!App" />
                    <App AppUserModelId="Microsoft.Windows.Photos_8wekyb3d8bbwe!App" />
                    <App AppUserModelId="Microsoft.BingWeather_8wekyb3d8bbwe!App" />
                    <App DesktopAppPath="C:\Windows\system32\cmd.exe" />
                    <App DesktopAppPath="%windir%\System32\WindowsPowerShell\v1.0\Powershell.exe" />
                    <App DesktopAppPath="%windir%\explorer.exe" />
                    <App DesktopAppPath="%ProgramFiles(x86)%\Microsoft\Edge\Application\msedge.exe" />
                </AllowedApps>
            </AllAppsList>
            <rs5:FileExplorerNamespaceRestrictions>
                <rs5:AllowedNamespace Name="Downloads" />
                <v3:AllowRemovableDrives />
            </rs5:FileExplorerNamespaceRestrictions>
            <v5:StartPins><![CDATA[{
                "pinnedList": [
                    {"packagedAppId": "Microsoft.WindowsCalculator_8wekyb3d8bbwe!App"},
                    {"packagedAppId": "Microsoft.Windows.Photos_8wekyb3d8bbwe!App"},
                    {"packagedAppId": "Microsoft.BingWeather_8wekyb3d8bbwe!App"}
                ]
            }]]></v5:StartPins>
            <Taskbar ShowTaskbar="true" />
        </Profile>
    </Profiles>
    <Configs>
        <Config>
            <AutoLogonAccount rs5:DisplayName="MS Learn Example" />
            <DefaultProfile Id="{9A2A490F-10F6-4764-974A-43B19E722C23}" />
        </Config>
    </Configs>
</AssignedAccessConfiguration>
```

# Assigned Access XML schema definitions



```
<?xml version="1.0" encoding="utf-8"?>
<AssignedAccessConfiguration xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns="http://schemas.microsoft.com/AssignedAccess/2017/config"
    xmlns:default="http://schemas.microsoft.com/AssignedAccess/2017/config"
    xmlns:rs5="http://schemas.microsoft.com/AssignedAccess/201810/config"
    xmlns:v3="http://schemas.microsoft.com/AssignedAccess/2020/config"
    xmlns:v5="http://schemas.microsoft.com/AssignedAccess/2022/config">
```

# Assigned Access XML profiles



```
<Profiles>
  <Profile Id="{9A2A490F-10F6-4764-974A-43B19E722C23}">
    </Profile>
  </Profiles>
```

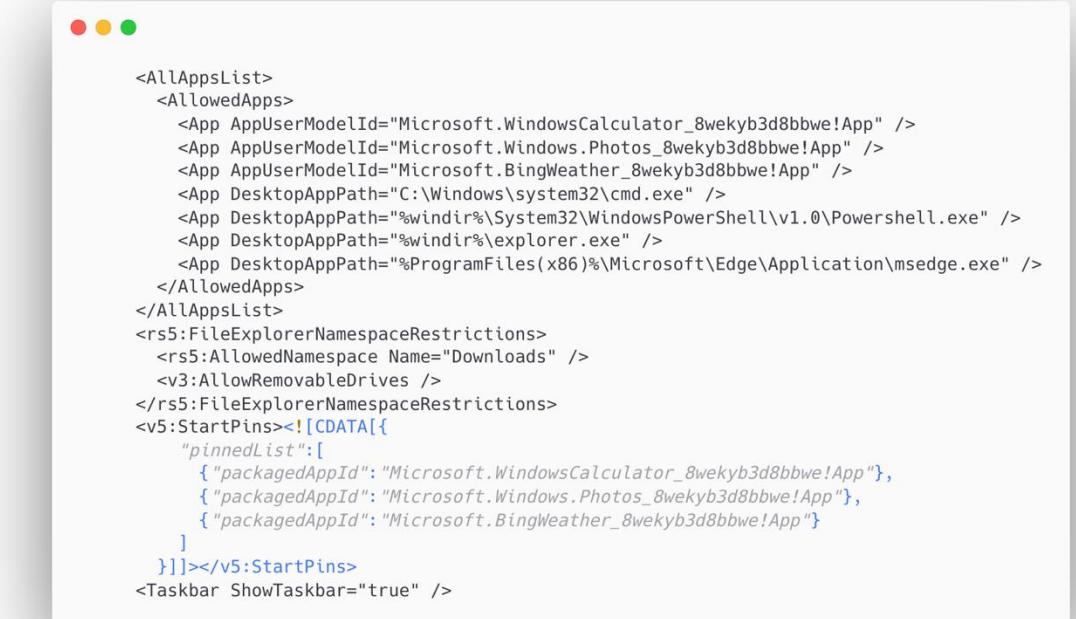
# Assigned Access XML app modes

Single App



```
<KioskModeApp v4:ClassicAppPath="%ProgramFiles(x86)%\Microsoft\Edge\Application\msedge.exe"
v4:ClassicAppArguments="--kiosk https://www.xkcd.com/ --edge-kiosk-type=fullscreen --kiosk-idle-timeout-minutes=2" />
<v4:BreakoutSequence Key="Ctrl+A" />
```

Restricted User Experience



```
<AllAppsList>
  <AllowedApps>
    <App AppUserModelId="Microsoft.WindowsCalculator_8wekyb3d8bbwe!App" />
    <App AppUserModelId="Microsoft.Windows.Photos_8wekyb3d8bbwe!App" />
    <App AppUserModelId="Microsoft.BingWeather_8wekyb3d8bbwe!App" />
    <App DesktopAppPath="C:\Windows\system32\cmd.exe" />
    <App DesktopAppPath="%windir%\System32\WindowsPowerShell\v1.0\Powershell.exe" />
    <App DesktopAppPath="%windir%\explorer.exe" />
    <App DesktopAppPath="%ProgramFiles(x86)%\Microsoft\Edge\Application\msedge.exe" />
  </AllowedApps>
</AllAppsList>
<rs5:FileExplorerNamespaceRestrictions>
  <rs5:AllowedNamespace Name="Downloads" />
  <v3:AllowRemovableDrives />
</rs5:FileExplorerNamespaceRestrictions>
<v5:StartPins><![CDATA[{
  "pinnedList": [
    { "packagedAppId": "Microsoft.WindowsCalculator_8wekyb3d8bbwe!App" },
    { "packagedAppId": "Microsoft.Windows.Photos_8wekyb3d8bbwe!App" },
    { "packagedAppId": "Microsoft.BingWeather_8wekyb3d8bbwe!App" }
  ]
}]]></v5:StartPins>
<Taskbar ShowTaskbar="true" />
```

# Assigned Access XML account types



```
<Configs>
  <Config>
    <AutoLogonAccount rs5:DisplayName="Mad Hatter" />
    <DefaultProfile Id="{9A2A490F-10F6-4764-974A-43B19E722C23}" />
  </Config>
</Configs>
```



```
<Configs>
  <Config>
    <Account>.\Alice </Account>
    <DefaultProfile Id="{76552cdb-c105-4fd7-83cc-a5eea9a018c8}" />
  </Config>
</Configs>
```



```
<Configs>
  <v3:GlobalProfile Id="{76552cdb-c105-4fd7-83cc-a5eea9a018c8}" />
</Configs>
```

# Assigned Access XML



# Assigned Access XML account types



```
<Config>
  <Account>AzureAD\user@contoso.onmicrosoft.com</Account>
  <DefaultProfile Id="{GUID}" />
</Config>
```

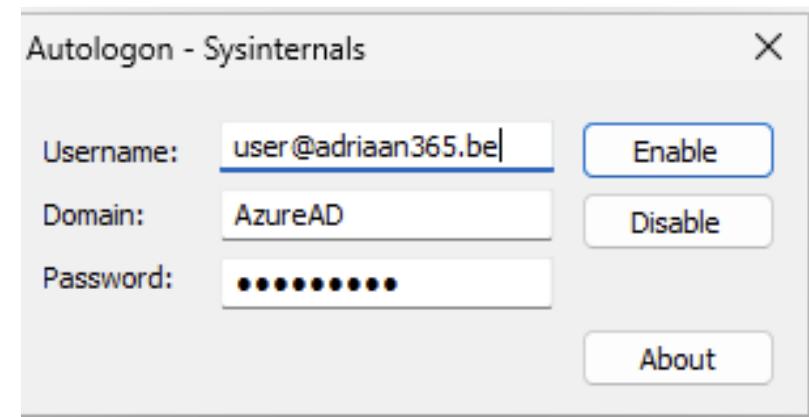


```
<Config>
  <UserGroup Type="AzureActiveDirectoryGroup" Name="Group_GUID" />
  <DefaultProfile Id="{GUID}" />
</Config>
```

# Autologon

HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon

Key Name	Function
AutoAdminLogon	Enabled Automatic Logon
DefaultUserName	Username used for Autologon, full UPN for Entra ID accounts (such as <a href="mailto:user@contoso.com">user@contoso.com</a> )
DefaultPassword	Password
DefaultDomainName	Local device user: . Entra ID user: AzureAD



DefaultPassword → LSA Secret (also used in AutoLogonAccount)

# Psst don't look at it!

Device Lock Policy

Security baselines

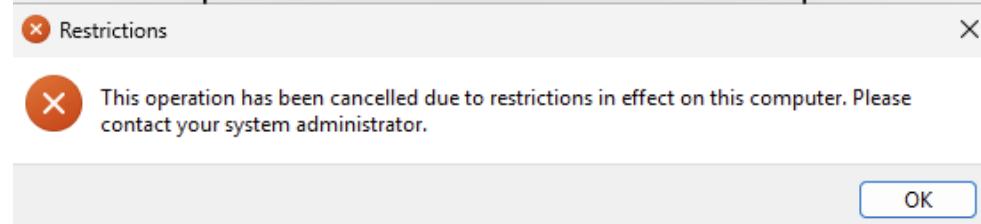
Windows Updates (Reboots!)



Autopilot Unexpected Reboots

User Error

# Tips: AppLocker



# Tips: Start Menu



Powershell in USER context

```
Export-StartLayout -Path 'C:\Temp\Output.xml'
```

Name	AppID
Calculator	Microsoft.WindowsCalculator_8wekyb3d8bbwe!App
Camera	Microsoft.WindowsCamera_8wekyb3d8bbwe!App
Character Map	{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\charmap.exe
Clock	Microsoft.WindowsAlarms_8wekyb3d8bbwe!App
Command Prompt	{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\cmd.exe
Component Services	{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\comexp.msc
Console	{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\conhost.exe
Control Panel	Microsoft.Windows.ControlPanel
Copilot	Microsoft.Copilot_8wekyb3d8bbwe!App
Defragment and Optimize Drives	{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\dfrgui.exe
Disk Cleanup	{1AC14E77-02E7-4E5D-B744-2EB1AE5198B7}\cleanmgr.exe
Feedback Hub	Microsoft.WindowsFeedbackHub_8wekyb3d8bbwe!App
File Explorer	Microsoft.Windows.Explorer
Game Bar	Microsoft.XboxGamingOverlay_8wekyb3d8bbwe!App
Get Help	Microsoft.GetHelp_8wekyb3d8bbwe!App

# Tips: Intune

## GroupTag and Dynamic Groups

<Country>-<DeviceType>-<Kiosk>-<Scenario>  
GRP\_EID\_DD\_WIN\_BE\_KIOSK\_General  
GRP\_EID\_DD\_WIN\_BE\_KIOSK\_HR

Self-Deployment Mode

Naming Convention Policies

# Demo time!





# We would love to hear your feedback!

Session feedback  
available in home feed  
of the app after the session



# Thank You!

