



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!

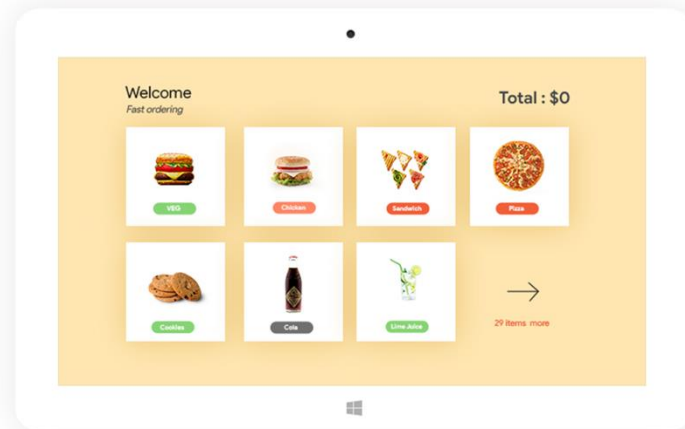
Alice: Why, don't you mean impossible?

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

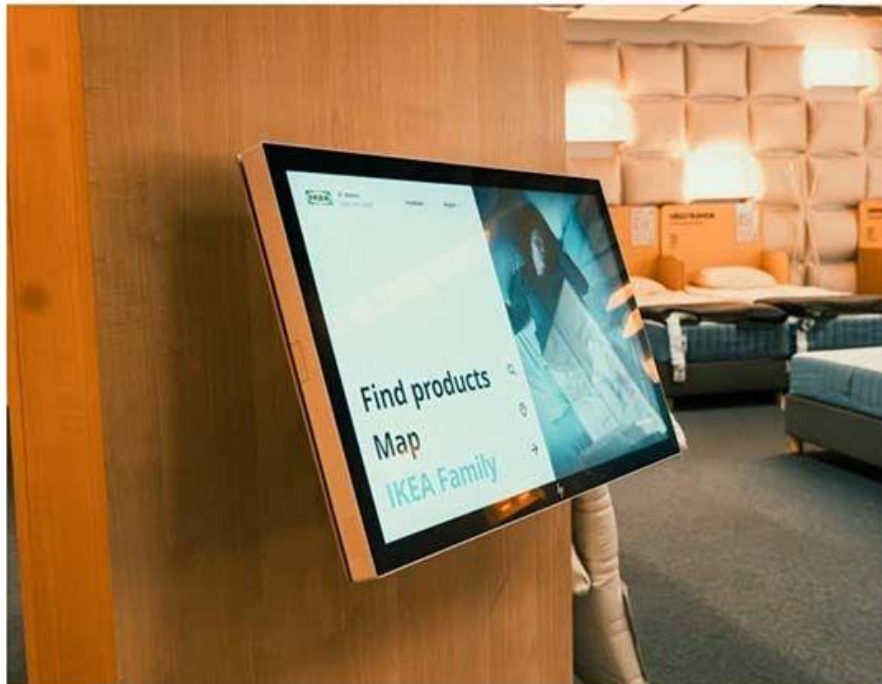
Our current state →



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 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 ⓘ

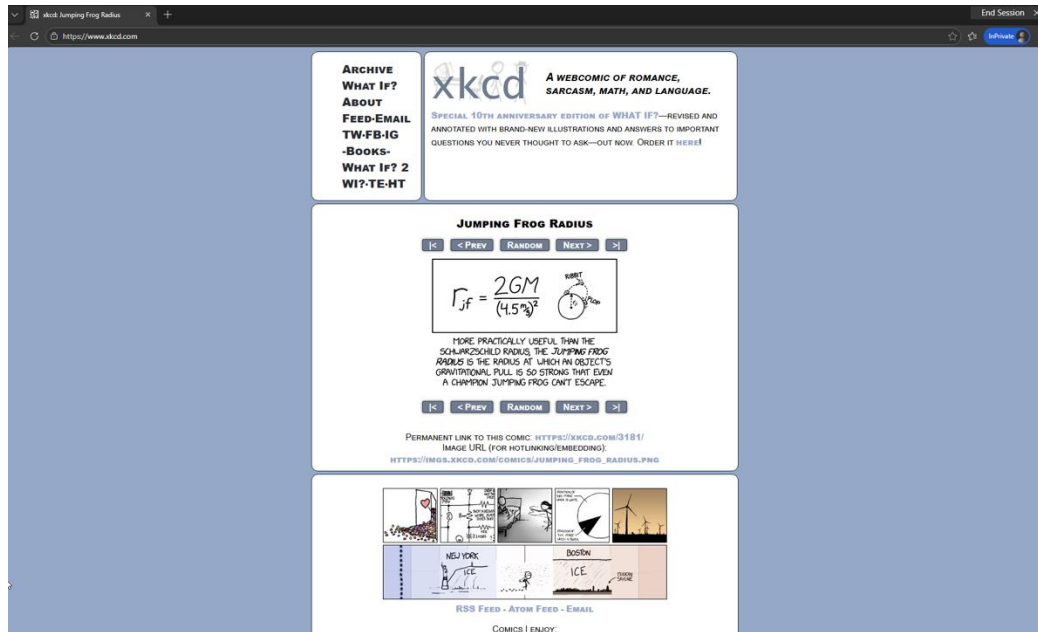
5

Single-app Kiosk

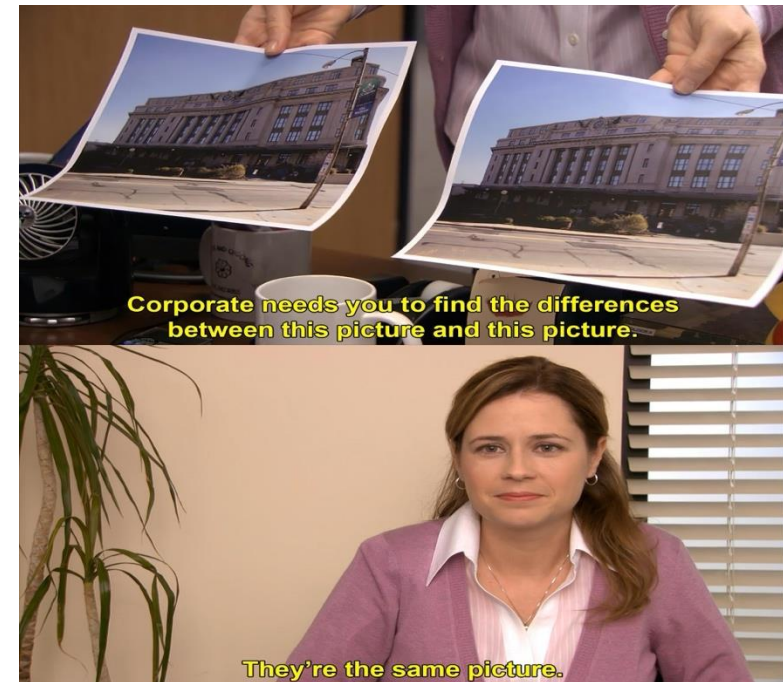


Single-app kiosk

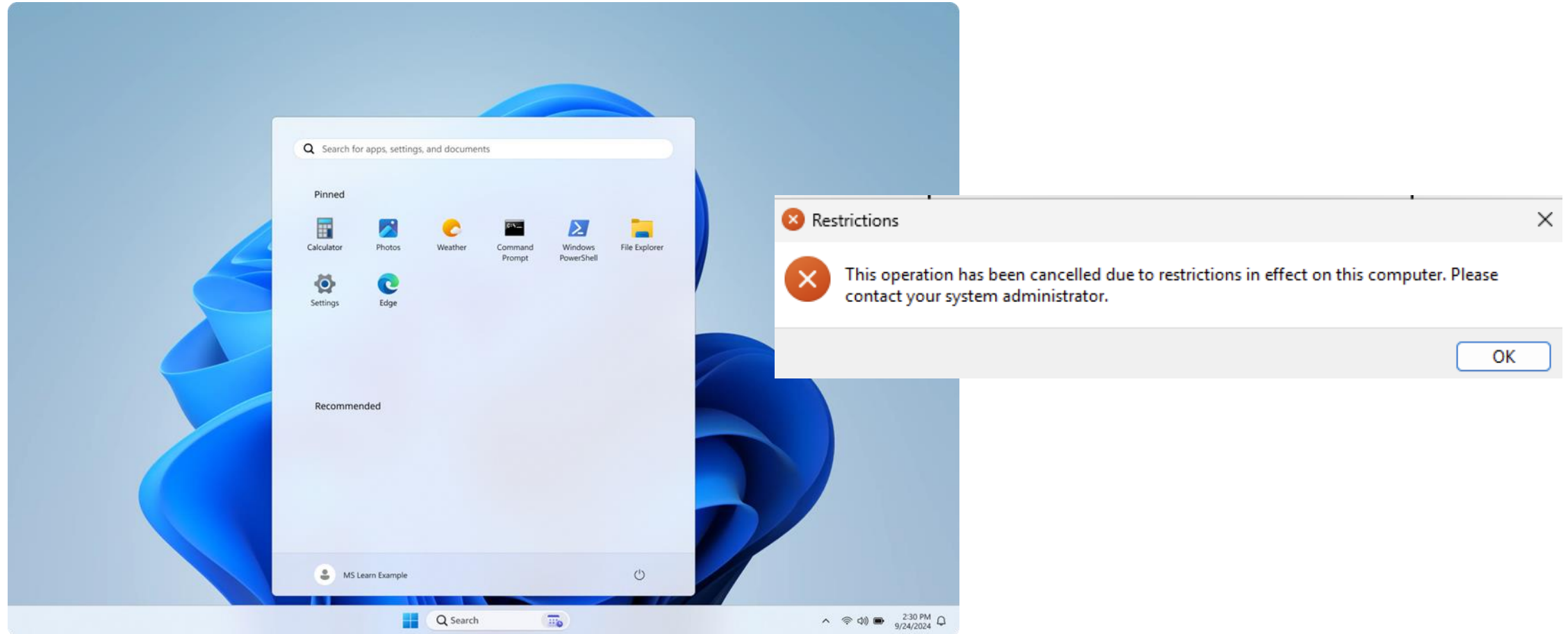
Assigned Access



Shell Launcher



Restricted User Experience



Restricted user experience



Restricted user experience

Select a kiosk mode * ⓘ Multi app kiosk ▼

Target devices running Windows 10/11 in S mode * ⓘ No ▼

User logon type * ⓘ Not Configured ▼

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.](#)

Browsers Add Kiosk browser

Applications Add Win32 app Add by AUMID

Name ⓘ	Type ⓘ	Settings	Autolaunch	Tile size
<div></div>				

Use alternative Start layout * ⓘ No ▼

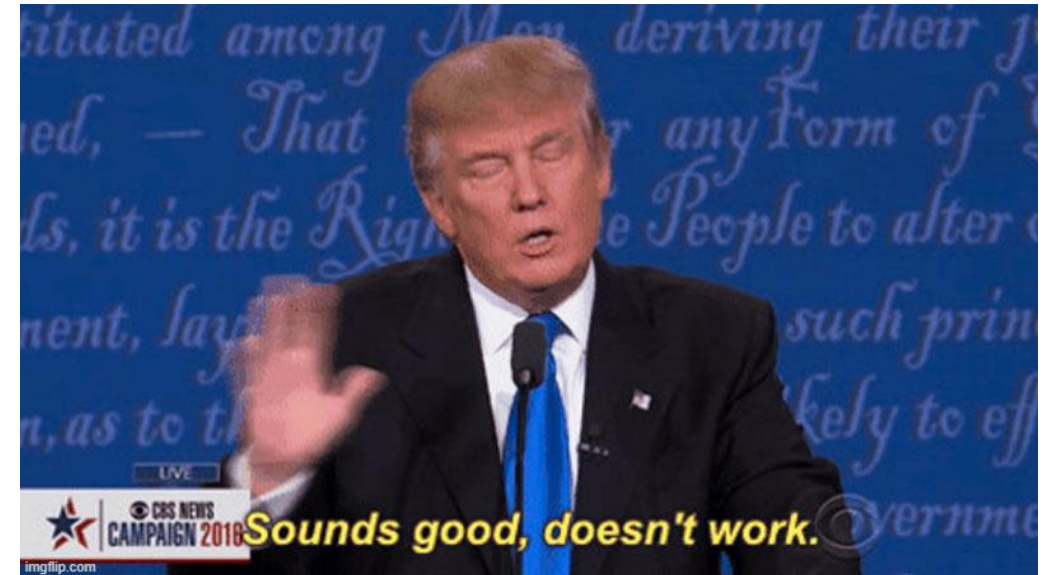
Windows Taskbar ⓘ Show Hide

Allow access to Downloads folder ⓘ Yes No

Specify Maintenance Window for App Restarts * ⓘ Require Not configured

Maintenance Window Start Time DD/MM/YYYY h:mm:ss AM


Maintenance Window Recurrence ⓘ Daily (recommended) ▼





Current mood →




Assigned Access XML policy

 Intune/CSP

 PPKG

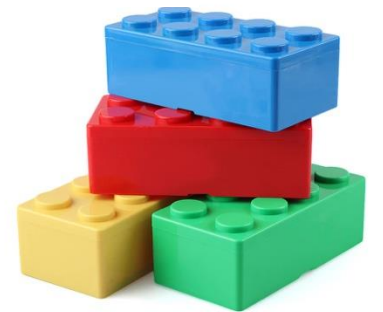
 PowerShell

 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

```
<?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>
```

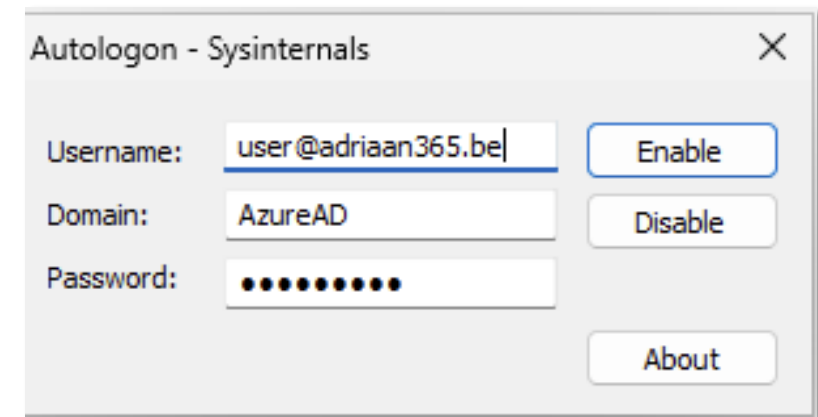


```
<Config>
  <UserGroup Type="AzureActiveDirectoryGroup" Name="Group_GUID" />
  <DefaultProfile Id="{GUID}"/>
</Config>
```

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 user@contoso.com)
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!)

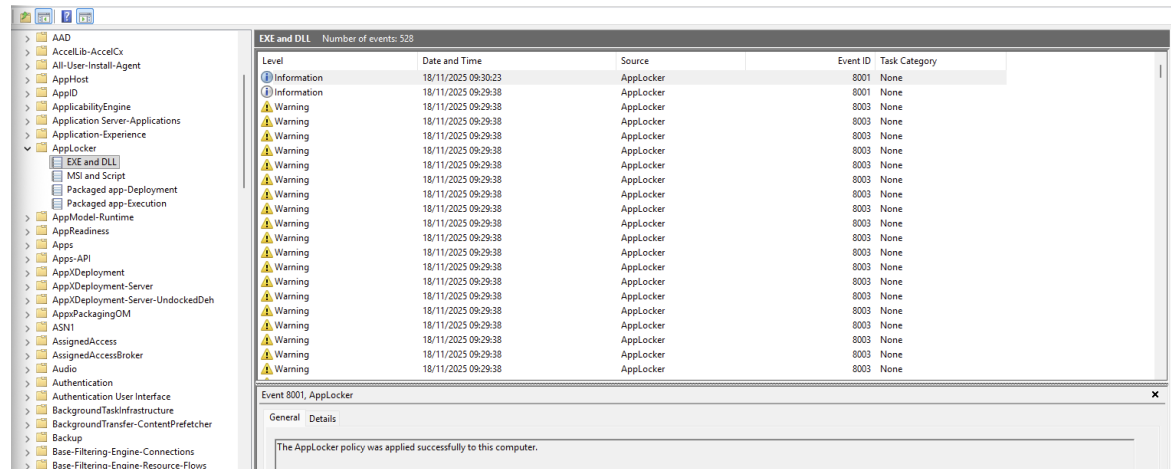
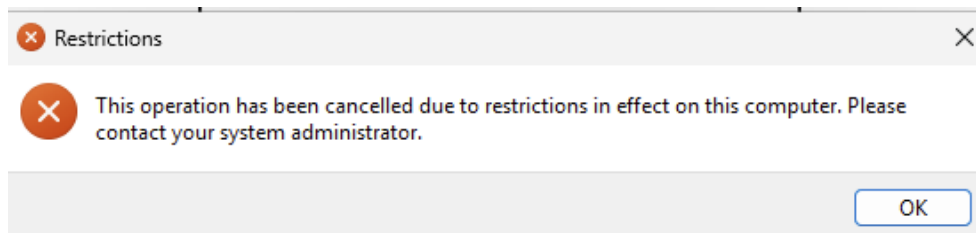


Autopilot Unexpected Reboots

Updates

User Error

Tips: AppLocker



Tips: Start Menu



Powershell in USER context

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



Powershell in USER context

```
PS C:\Users\Noodles> Get-StartApps
```

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!

