

# How to make Windows 11 Kiosk work via Intune





# Agenda

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- What Are Kiosks?
- How are they configured in Intune?
- Overview of Configuration Profiles
- Assigned Access
- Tips, Tricks & Gotchas



# What are Kiosks?

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Restricted devices running in Kiosk mode  
Can be used in Single app or Multi app configuration  
Limited to specific applications and settings



# Benefits

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[wpninjas.au](http://wpninjas.au)

Zero-touch deployment with Windows Autopilot and self-deploying mode

Tailored Shared User Experience

Restrict usage to specific applications and folders



# In-House Kiosk Examples

wpninjas.au

1. Sign on device running only Microsoft Edge
2. Design collaboration with Apps such as Revizto and Navisworks
3. Virtual Reality running a bespoke Project Safety Training module





# What changed from Windows 10 to 11

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- **Start Menu changes**

- Tablet mode was removed
- Widgets, Task view, and various OS components are visible
- Edge accessible without restrictions
- Start menu layout was changed from XML to JSON

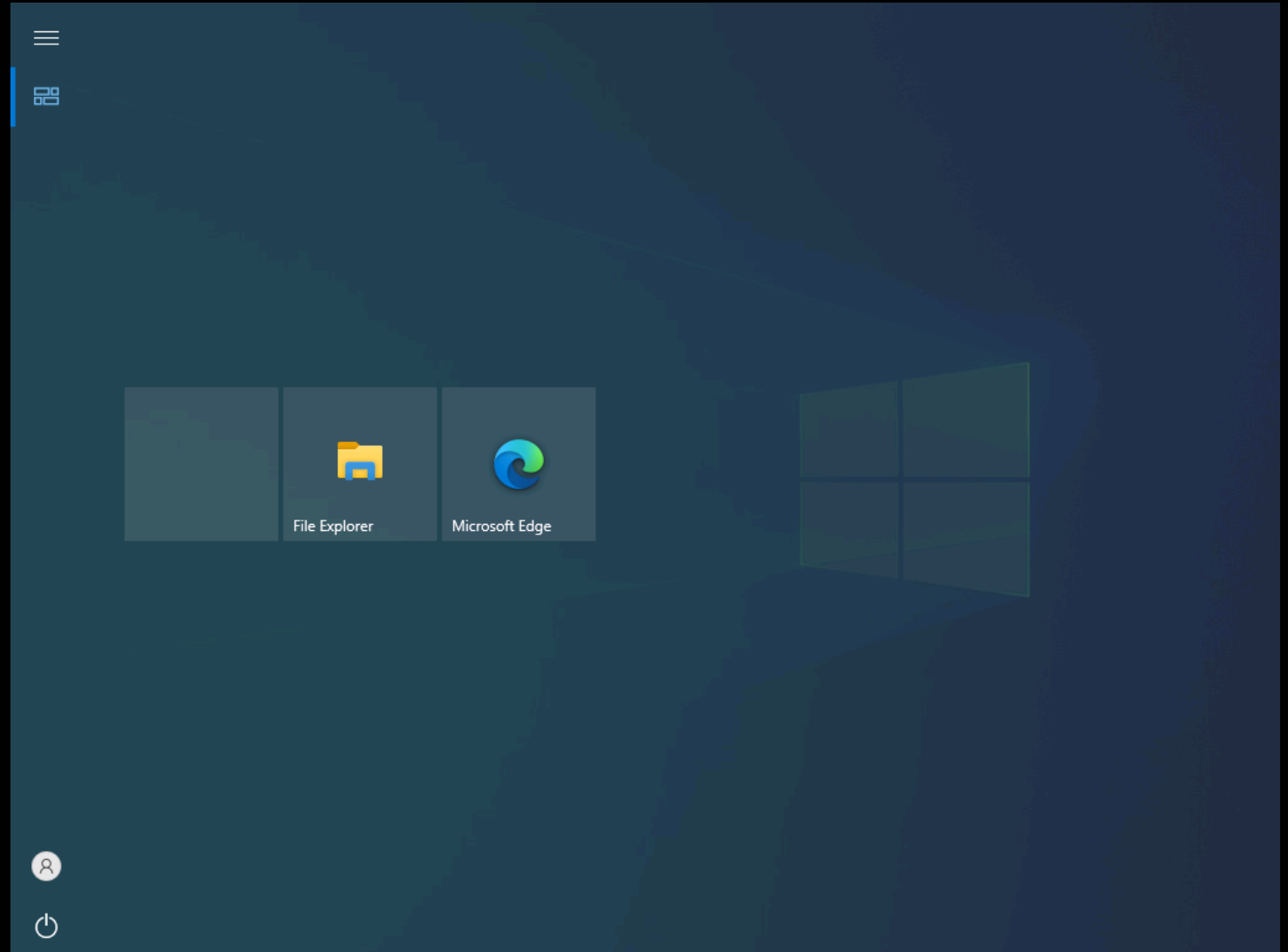
- **File Explorer changes**

- Namespace restrictions elevated from Kiosk to full OS



# Windows 10 – 22H2 – Multi App Kiosk

- Limited to only the applications that have been pinned to start menu
- No entry point beyond tablet mode UX

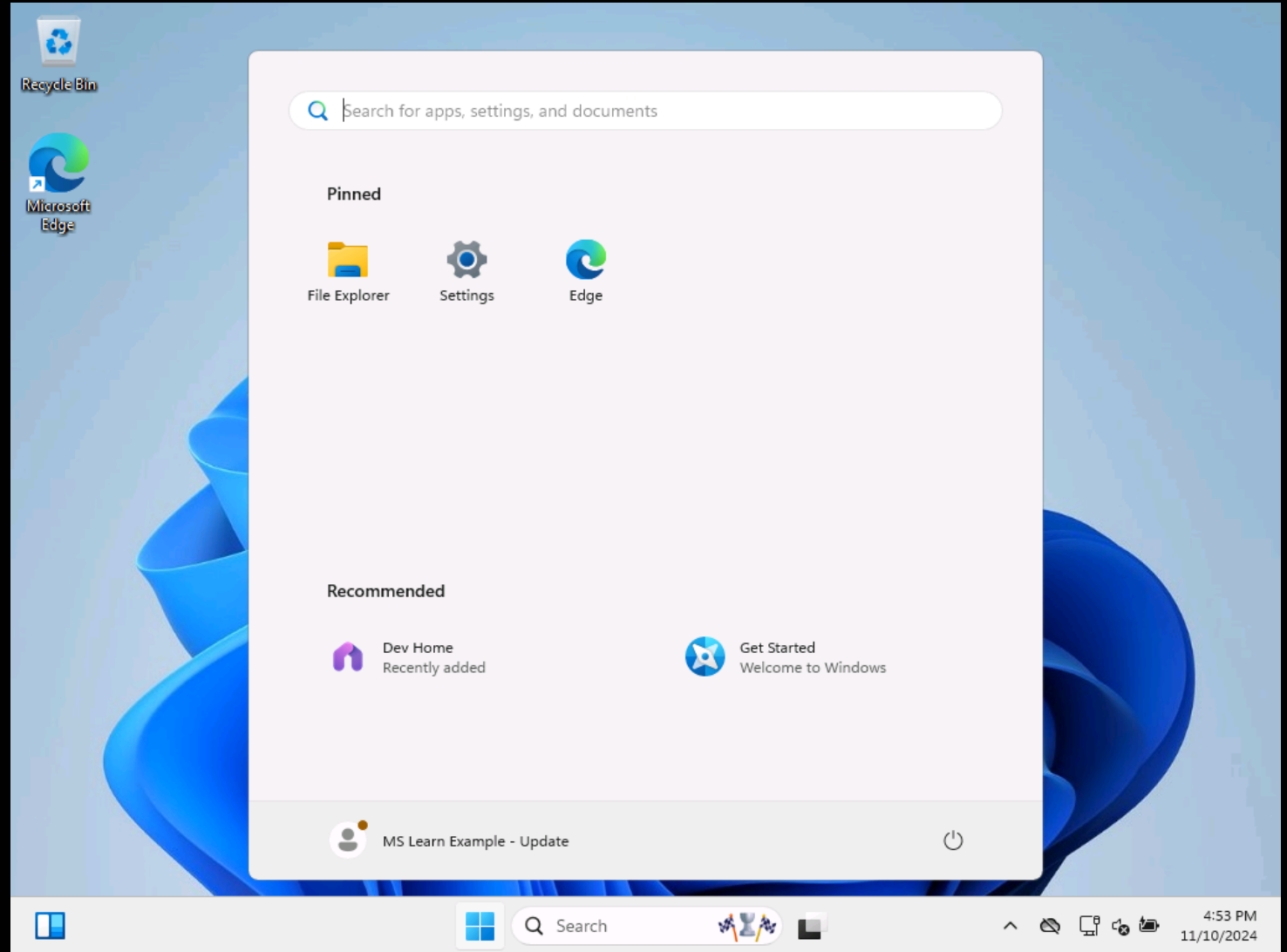






# Windows 11 – 22H2

- Dev Home & Get Started can't be removed
- Widgets exist in the taskbar
- Can use the “Task View” to create multiple desktops
- Desktop icons still exist

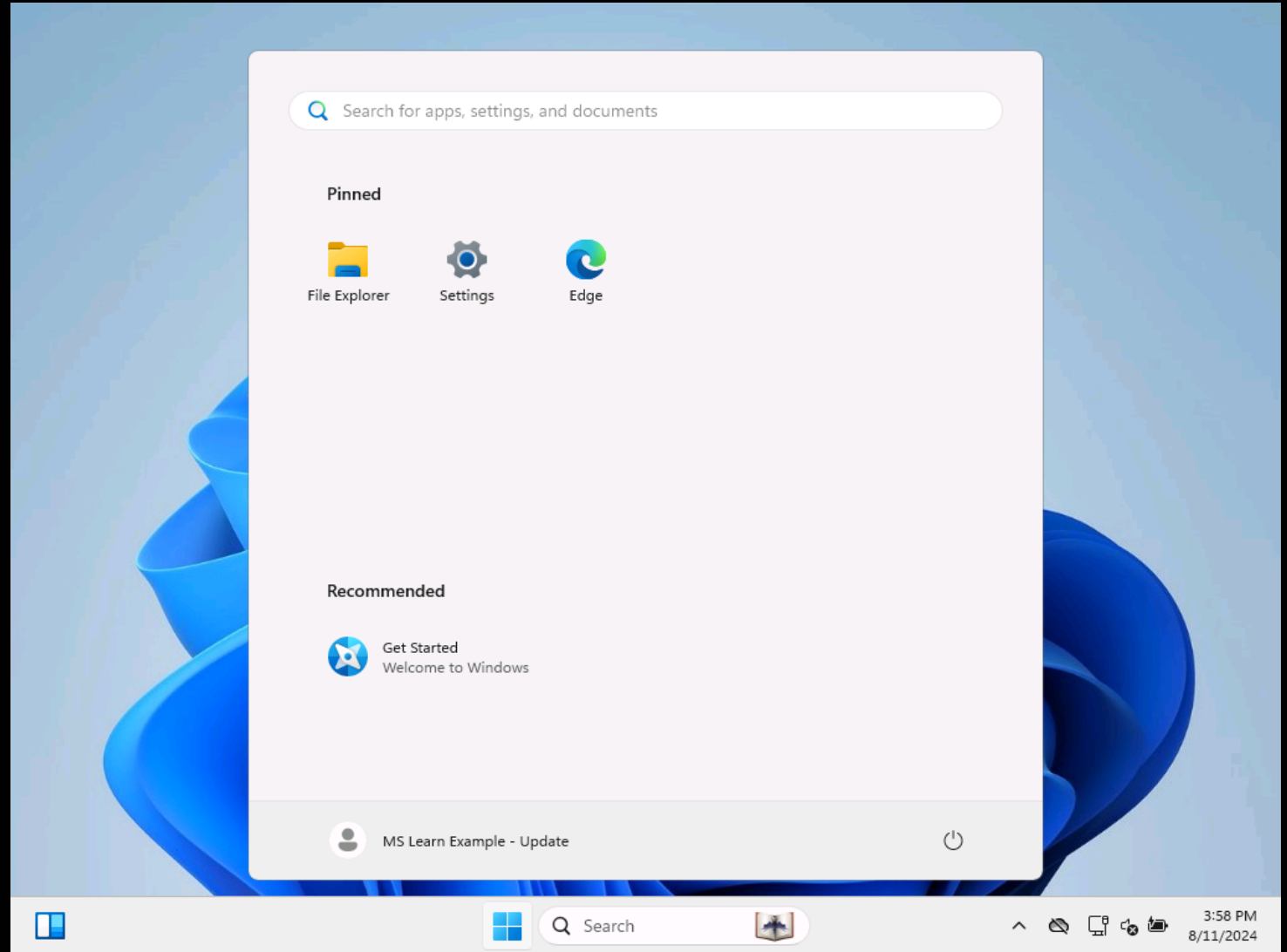






# Windows 11 – 23H2

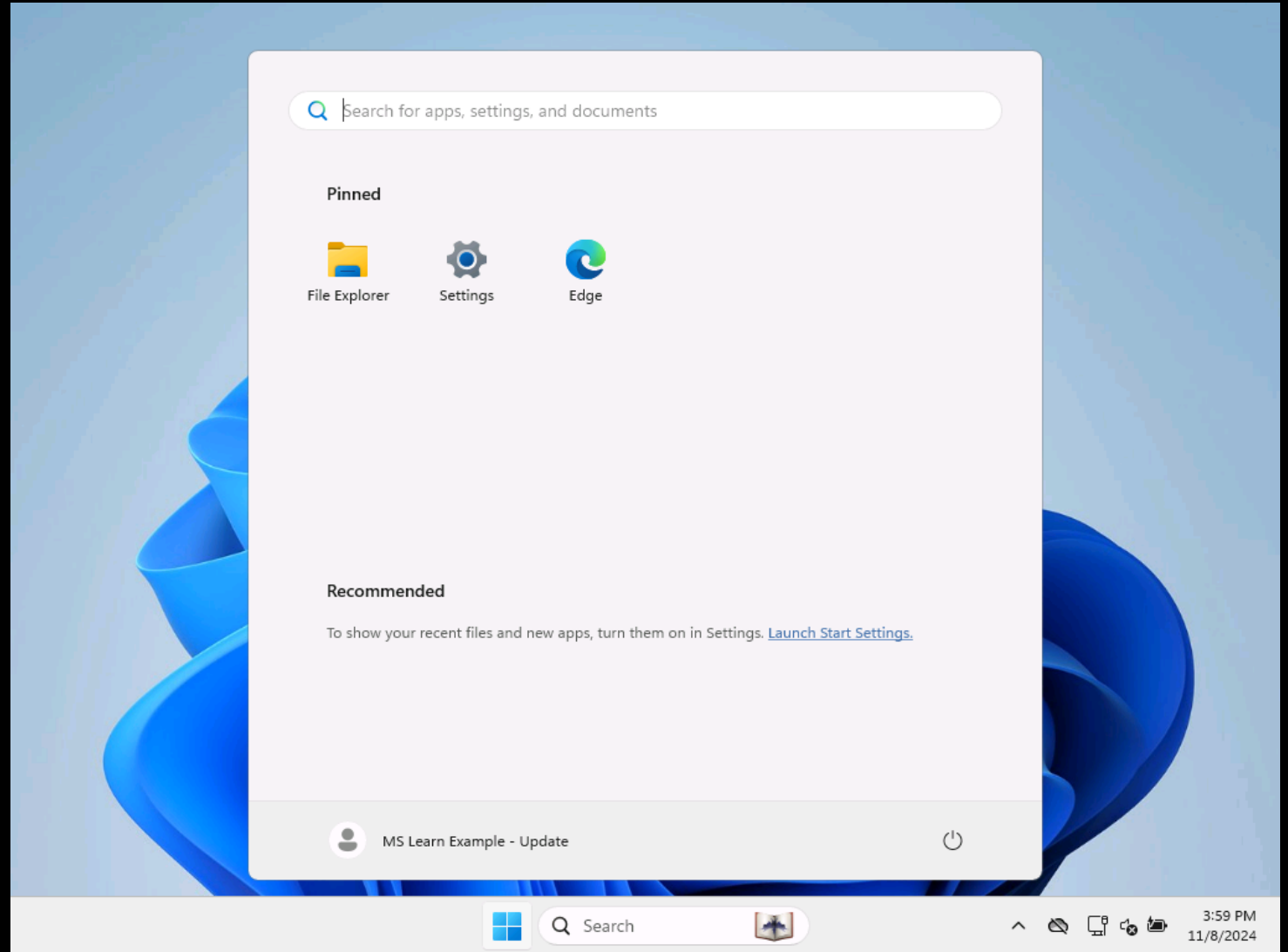
- Get Started can't be removed
- Dev Home has been removed by default
- Widgets exist in the taskbar
- The “Task View” to create multiple desktops has been removed
- Desktop icons have been removed





# Windows 11 – 24H2

- Dev Home & Get Started has been removed
- Widgets have been removed from taskbar
- The “Task View” to create multiple desktops has been removed
- Desktop icons have been removed





# Where do you start in Intune?

- Windows Autopilot
- Enrollment Status Page
- Deployment profiles
- Assigned Access CSP
- Configuration profiles
- Applications

The screenshot displays the Microsoft Intune management console. The left-hand navigation pane lists various management areas, with 'Enrollment' highlighted under the 'Manage devices' section. The main content area is titled 'Devices | Enrollment' and includes a search bar and tabs for 'Windows', 'Apple', 'Android', 'Corporate device identifiers', 'Device enrollment managers', and 'Monitor'. The 'Windows' tab is active, showing an overview of Windows 10/11 PC enrollment methods. Below this, there are sections for 'Enrollment options' (listing Automatic Enrollment, CNAME Validation, Co-management Settings, Device platform restriction, Device limit restriction, Enrollment notifications, and Windows Hello for Business), 'Windows Autopilot device preparation' (listing Device preparation policies), and 'Windows Autopilot' (listing Devices, Deployment profiles, Enrollment Status Page, and Intune Connector for Active Directory).



# Windows Autopilot Self-Deploying mode Deployment Profile

wpninjas.au

- Self-deploying mode enables automated zero touch deployment
- Devices can be built on site rather than requiring an IT technician

Home > Devices | Enrollment > Windows Autopilot deployment profiles > Kiosk

## Kiosk | Properties

Windows PC

Search

Overview

Manage

Properties

Assigned devices

### Basics Edit

Name	Kiosk
Description	Self deploying Autopilot Profile Created by DC
Convert all targeted devices to Autopilot	No
Device type	Windows PC

### Out-of-box experience (OOBE) Edit

Deployment mode	Self-Deploying
Join to Microsoft Entra ID as	Microsoft Entra joined
Language (Region)	Operating system default
Automatically configure keyboard	Yes
Microsoft Software License Terms	Hide
Privacy settings	Hide
Hide change account options	Hide
User account type	Standard
Allow pre-provisioned deployment	No
Apply device name template	Yes
Enter a name	KIOSK-%SERIAL%

### Assignments Edit

Included groups	Engineering Kiosk Windows 11 Devices Engineering Kiosk Devices Testing Only Engineering VR Kiosk Devices Engineering Kiosk Windows 11 Edge-Only Devices Engineering Kiosk Windows 10 Devices
Excluded groups	No Excluded groups

### Scope tags Edit

Default	
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# What is Assigned Access?

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- Assigned Access is a Windows feature that can be configured to run two different Kiosk setups
- Kiosk Experience: Single app in full screen with no access to other applications
- Restricted User Experience: Standard user experience with a defined set of applications
- Yes, this does work with Windows 11 despite the documentation contradicting that for a while there!



# Assigned Access Configuration

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- By creating an Intune Configuration Profile (Template), you can target the AssignedAccess setting and push the config automatically.
- AssignedAccess is customized with an XML configuration file which you can modify the following:
  - Applications the logged-on user has access to
  - Start Menu pins/shortcuts
  - Default Profile for login
  - Configure automatic logon



```
<?xml version="1.0" encoding="utf-8" ?>
<AssignedAccessConfiguration
  xmlns="http://schemas.microsoft.com/AssignedAccess/2017/config"
  xmlns:v5="http://schemas.microsoft.com/AssignedAccess/2022/config"
  xmlns:rs5="http://schemas.microsoft.com/AssignedAccess/201810/config"
>
  <Profiles>
    <Profile Id="{9A2A490F-10F6-4764-974A-43B19E722C23}">
      <AllAppsList>
        <AllowedApps>
        </AllowedApps>
      </AllAppsList>
      <v5:StartPins>
        <![CDATA[
          { "pinnedList":[
          ] }
        ]]>
      </v5:StartPins>
      <Taskbar ShowTaskbar="true"/>
    </Profile>
  </Profiles>
  <Configs>
    <Config>
      <AutoLogonAccount/>
      <DefaultProfile Id="{9A2A490F-10F6-4764-974A-43B19E722C23}"/>
    </Config>
  </Configs>
</AssignedAccessConfiguration>
```





# Defining Application Access

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- Two key parts to the configuration file that I found to be the most time-consuming are:
  - Ensuring each application exe and folder path is listed without any errors in the AllowedApps section
  - Customizing the start menu layout, tiles and start menu pins



```
<AllAppsList>
<AllowedApps>
  <App AppUserModelId="windows.immersivecontrolpanel_cw5n1h2txyewy!microsoft.windows.immersivecontrolpanel" />
  <App DesktopAppPath="C:\Program Files (x86)\Adobe\Acrobat Reader DC\Reader\AcroRd32.exe" />
  <App DesktopAppPath="C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe" />
</AllowedApps>
</AllAppsList>
<v5:StartPins>
  <![CDATA[
    { "pinnedList":[
      { "desktopAppLink":"C:\\ProgramData\\Microsoft\\Windows\\Start Menu\\Programs\\Microsoft Edge.lnk"},
      { "desktopAppLink":"C:\\Users\\Kioskuser0\\AppData\\Roaming\\Microsoft\\Windows\\Start Menu\\Programs\\Vive.lnk"}
    ] }
  ]]>
</v5:StartPins>
<Taskbar ShowTaskbar="true"/>
</Profile>
</Profiles>
```



# Other Configuration Profiles

- Blocking Entra users from signing in
- Configuring power settings along with scheduling restart times
- Windows Update settings (not shown in screenshot)
- WiFi Profile settings for automatic internet connectivity

Policy name ▼	Platform	Policy type
<a href="#">Kiosk - Engineering - Block AzureAD Sign-Ins</a>	Windows 10 and later	Settings catalog
<a href="#">Kiosk - Engineering - Disable Copilot Windows 11</a>	Windows 10 and later	Custom
<a href="#">Kiosk - Engineering - Edge Settings</a>	Windows 10 and later	Settings catalog
<a href="#">Kiosk - Engineering - Location Settings</a>	Windows 10 and later	Settings catalog
<a href="#">Kiosk - Engineering - Power Settings</a>	Windows 10 and later	Settings catalog
<a href="#">Kiosk - Engineering - WiFi Profile</a>	Windows 10 and later	Wi-Fi
<a href="#">Kiosk - Engineering - Windows 10 Configuration</a>	Windows 10 and later	Custom
<a href="#">Kiosk - Engineering - Windows 11 Configuration</a>	Windows 10 and later	Custom
<a href="#">Kiosk - Engineering - Windows 11 Configuration (Edge Only)</a>	Windows 10 and later	Custom
<a href="#">Kiosk - Engineering - Windows 11 Power Settings (Edge Only)</a>	Windows 10 and later	Settings catalog
<a href="#">Kiosk - Engineering VR - Windows 11 Configuration</a>	Windows 10 and later	Custom



# Tips and Tricks

- PowerShell to quickly obtain all application EXEs within an install folder

```
$Apps=Get-ChildItem 'C:\Enter\Folder\path' -Recurse | Where-Object {$_.name -like "*.exe"}  
$Apps | Foreach-Object {"<App DesktopAppPath=`"$($_.directory)\($_.name)`" />"}
```

- Ensure start menu pins have double quotes in the path and not single quotes
- Unable to use application exes inside program files paths – only shortcuts and links in user profile directory of logged on user or all users
- If an application is not working, log in as an administrator account to check process explorer or similar to discover what else is running in the background
- Use PowerShell to validate the XML before you publish to Intune for rapid testing!



Thank You

