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TOPIC - 1 : Interactive and Non-Interactive Applications Introduction

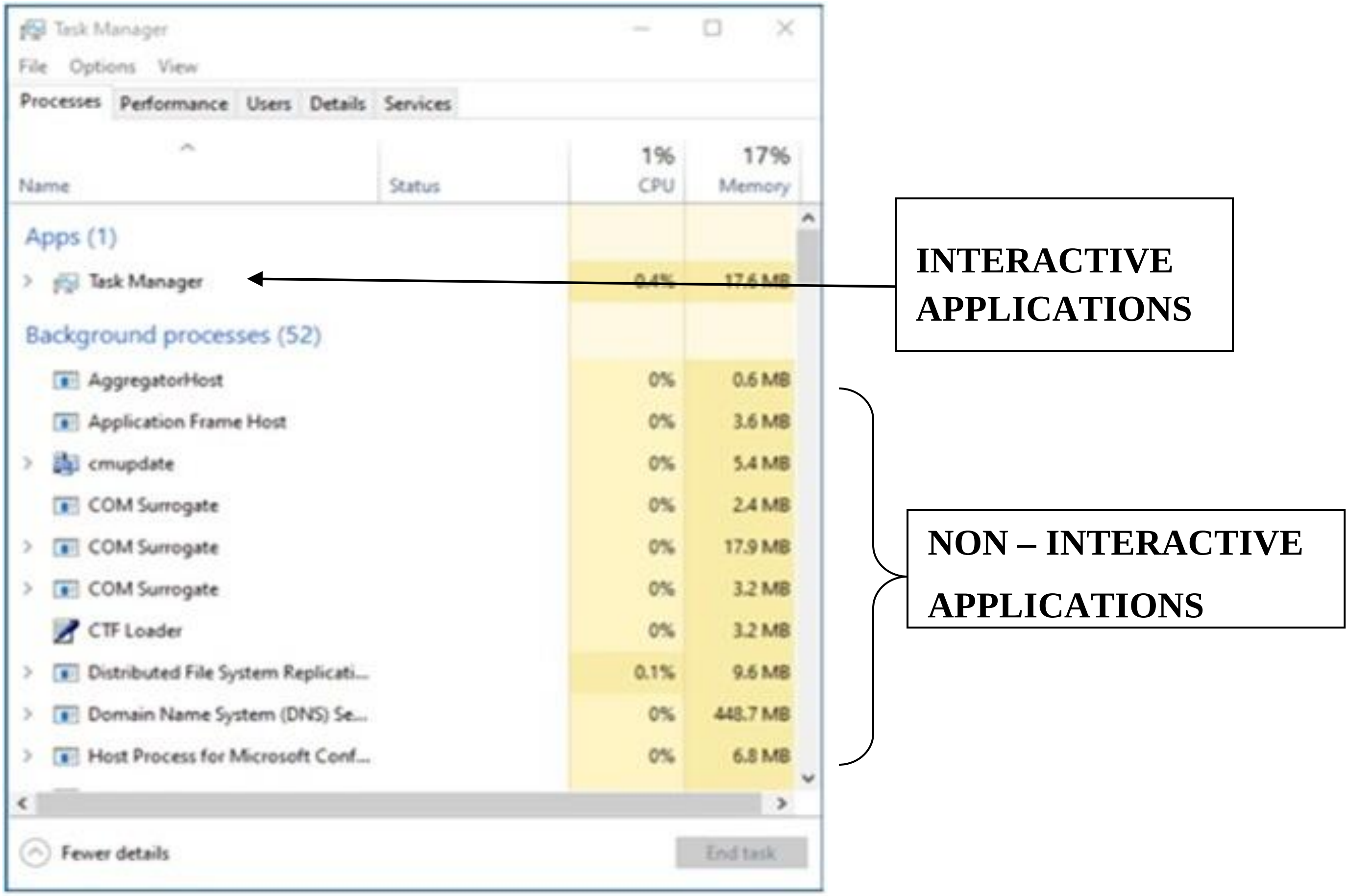
In Windows, **interactive applications require user input to function, while non-interactive applications, like background services, operate without direct user interaction**. Interactive applications, such as web browsers or word processors, provide a graphical user interface (GUI) where users can click, type, and interact with the program. Non-interactive applications, on the other hand, often run in the background without any visual interface, performing tasks like printing or updating software.

INTERACTIVE APPLICATIONS

- **User Interaction:** These applications require user input to perform their tasks, such as clicking buttons, typing in text, or selecting options from menus.
- **GUI:** They typically have a GUI that allows users to interact with the application visually.
- **Examples:** Web browsers, word processors, media players, and game engines are examples of interactive applications.

NON – INTERACTIVE APPLICATIONS

- **Background Processes:** These applications run in the background without a visible GUI, performing tasks automatically.
- **Services:** Services are a common type of non-interactive application that performs specific tasks like printing or managing network connections.
- **Automated Tasks:** They are often used for tasks that can be automated, such as software updates, virus scans, or data backups.
- **Examples:** System services, scheduled tasks, and background data processing are examples of non-interactive applications.



Name	Status	1% CPU	17% Memory
Apps (1)			
Task Manager		0.4%	17.6 MB
Background processes (52)			
AggregatorHost		0%	0.6 MB
Application Frame Host		0%	3.6 MB
cmupdate		0%	5.4 MB
COM Surrogate		0%	2.4 MB
COM Surrogate		0%	17.9 MB
COM Surrogate		0%	3.2 MB
CTF Loader		0%	3.2 MB
Distributed File System Replicati...		0.1%	9.6 MB
Domain Name System (DNS) Se...		0%	448.7 MB
Host Process for Microsoft Conf...		0%	6.8 MB

INTERACTIVE APPLICATIONS

NON – INTERACTIVE APPLICATIONS

TOPIC – 2 : Groups, Dynamic Queries, Users.

Azure AD Groups

- **Static Groups :** Manually added members.
- **Dynamic Groups :** Members automatically added based on attributes.

(Example : device.deviceOSType – contains “Windows”).

User vs Device Targeting

- **User Group Assignment :** App installs when the user logs in.
- **Device Group Assignment :** App installs regardless of who logs in.

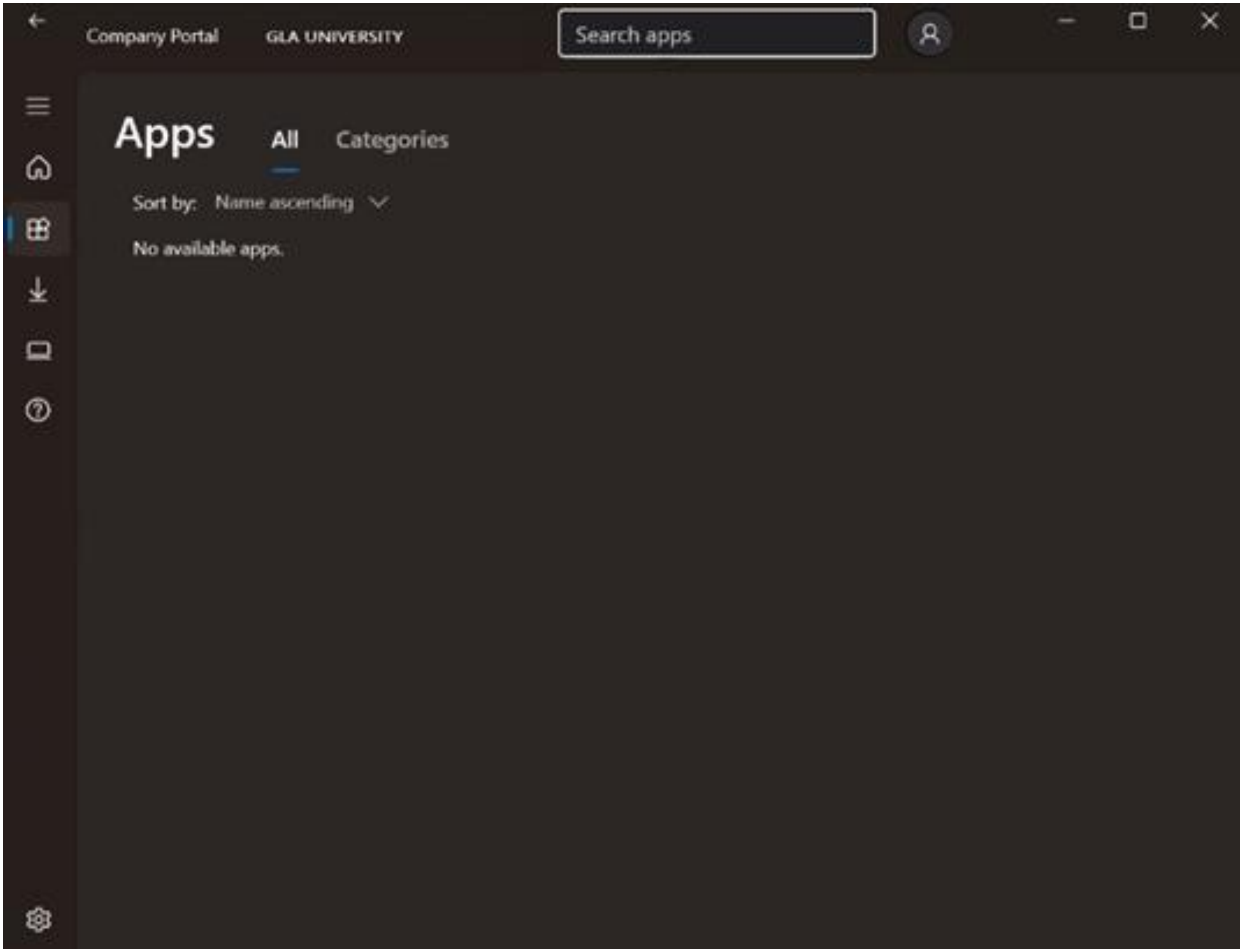
TOPIC - 3 : Required and Available App Assignments

REQUIRED

- Apps are force – installed based on assignment (user/device).
- Installation happens automatically respecting deadlines and applicability rules.

Available

- Apps are published to **Company Portal,** where users can install them manually on demand.



Sort by: Name ascending

No available apps.

TOPIC – 4 : Process flow for a Win32/LOB App on Windows Client (IME Service).

Step by Step Flow:

- **Client Polls** Intune (every 1 hour or on-demand sync).
- **IME (Intune Management Extension)** evaluates assigned apps.
- **Detection Logic Check :**
    - Registry, MSI Product Code, File existence, etc..
    - If detection fails (i.e., app not found), it proceeds to install.
- **App gets downloaded** from Microsoft Endpoint CDN or custom source.
- **Installation is triggered** using :
    - Command-line passes (e.g., install.cmd/silent)
    - Under **System** context unless set to user.
- **Post-installation detection logic** re-runs.
    - If detection is successful – **success toast shown.**
    - If detection fails – **failure toast shown.**
- **Status sent back** to Intune for reporting.

TOPIC – 5 : Registries (LOB and Win32 Apps)

Common Registries Involved:

- **IME Settings:**
  HKLM\SOFTWARE\Microsoft\IntuneManagementExtension
- **App-specific Registries** (used for detection):
    - File path or registry value created after installation.
    - E.g., HKLM\SOFTWARRE\MyAppVendor\MyApp

TOPIC – 6 : App GUID and Registry Status

Each Win32 App has a unique GUID(found in Intune Admin Center or registry).

You can find installation state:

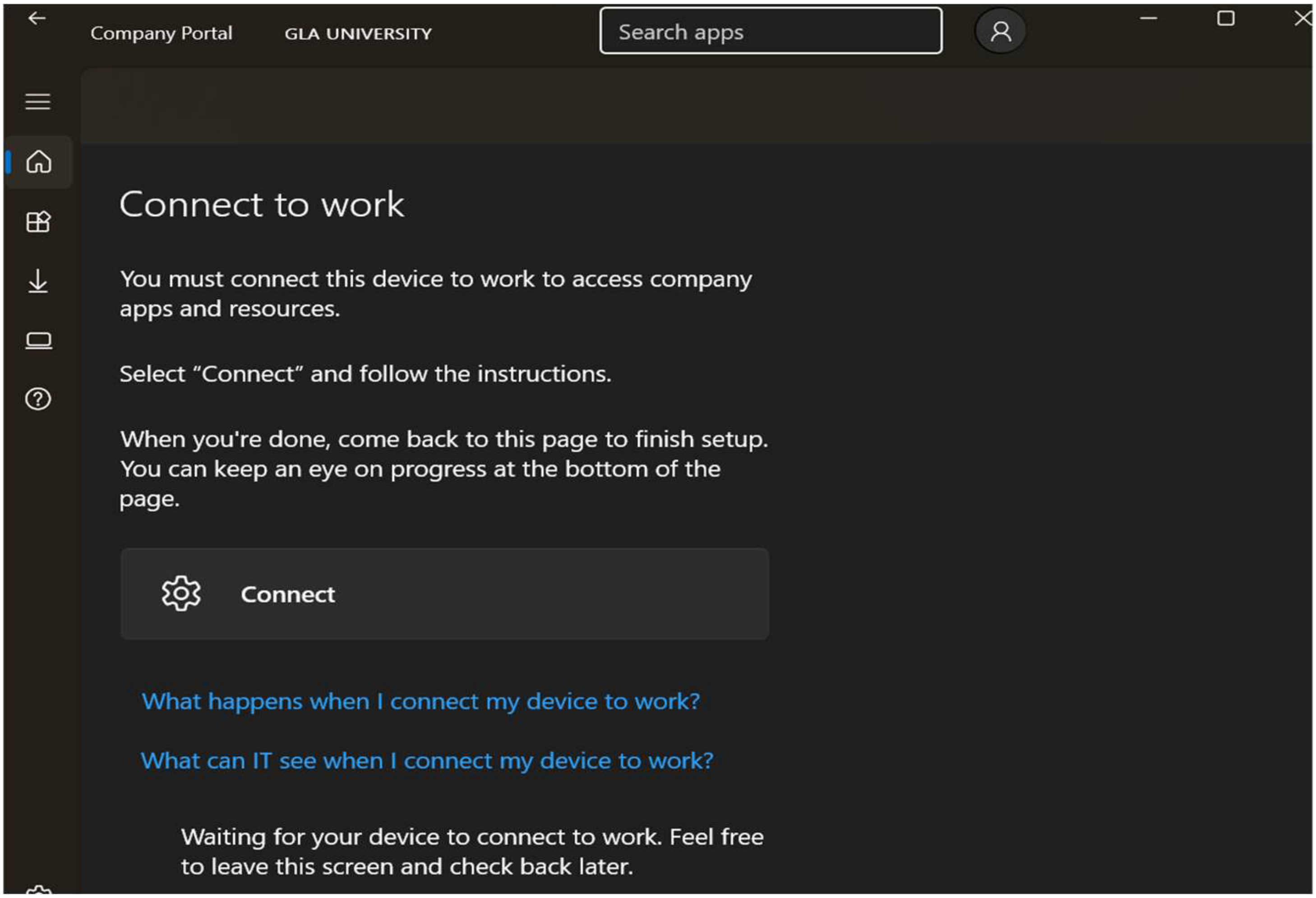
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\IntuneManagementExtension\Win32Apps\{App-GUID}

Values :

- **State :**
  - **0:** Not Installed
  - **1 :** Installed
  - **3 :** Failed
- **Exitcode =** App's MSI/EXE return code
- **LastError =** Error message or code
- **LastModifiedTimeUtc =** Timestamp of last action**.**

TOPIC – 7 : Company Portal

- GUI for **Available Apps** deployment.
- Reflects:
  - Assigned apps for current user
  - App status (installed, failed)
- **Won't show Required apps** – they install silently.



Connect to work

You must connect this device to work to access company apps and resources.

Select “Connect” and follow the instructions.

When you're done, come back to this page to finish setup. You can keep an eye on progress at the bottom of the page.

What happens when I connect my device to work?

What can IT see when I connect my device to work?

Waiting for your device to connect to work. Feel free to leave this screen and check back later.

TOPIC – 8 : Log File Locations

Logs to Monitor :

- **IME Logs:**

  C:\ProgramData\Microsoft\IntuneManagementExtension\Logs\IntuneManagementExtension.log

- **App Logs (Custom):**

  If the installer writes its own log (like MSI: msiexec /l*v), check path specified in install command.

- **Event Viewer:**

  Applications and Services Logs > Microsoft >Windows > DeviceManagement-Enterprise-Diagnostics-Provider

TOPIC – 9 : How to sync after app Assignments

- **From Intune Portal :**
  - **Force Sync:** Devices > [Select Device] > Sync
  - **Assign App :** Wait for polling (approx. 60 mins)
- **From Client Side :**
  - Manual Sync (User side):
    - Settings > Accounts > Access work or school >Info > Sync
  - Intune Management Extension Immediate Sync:
- Restart-Service IntuneManagementExtension

TOPIC – 10 : Breakdown of Events in Log Files

IntuneManagementExtension.log

Key Log Events:

- IntuneManagementExtension starting up.
- Detecting app {GUID}
- Detection rule failed - proceeding with install.
- Starting install for {GUID}
- App install returned code 0 (Success)
- Detection post-installation passed
- Reporting success to service
- Errors to watch for:
- Install failed with exit code.
- Detection rule still failing.
- Download failed.
- App evaluation failed.

Step-by-Step Guide: Adding a .intunewin App in Intune Admin Center

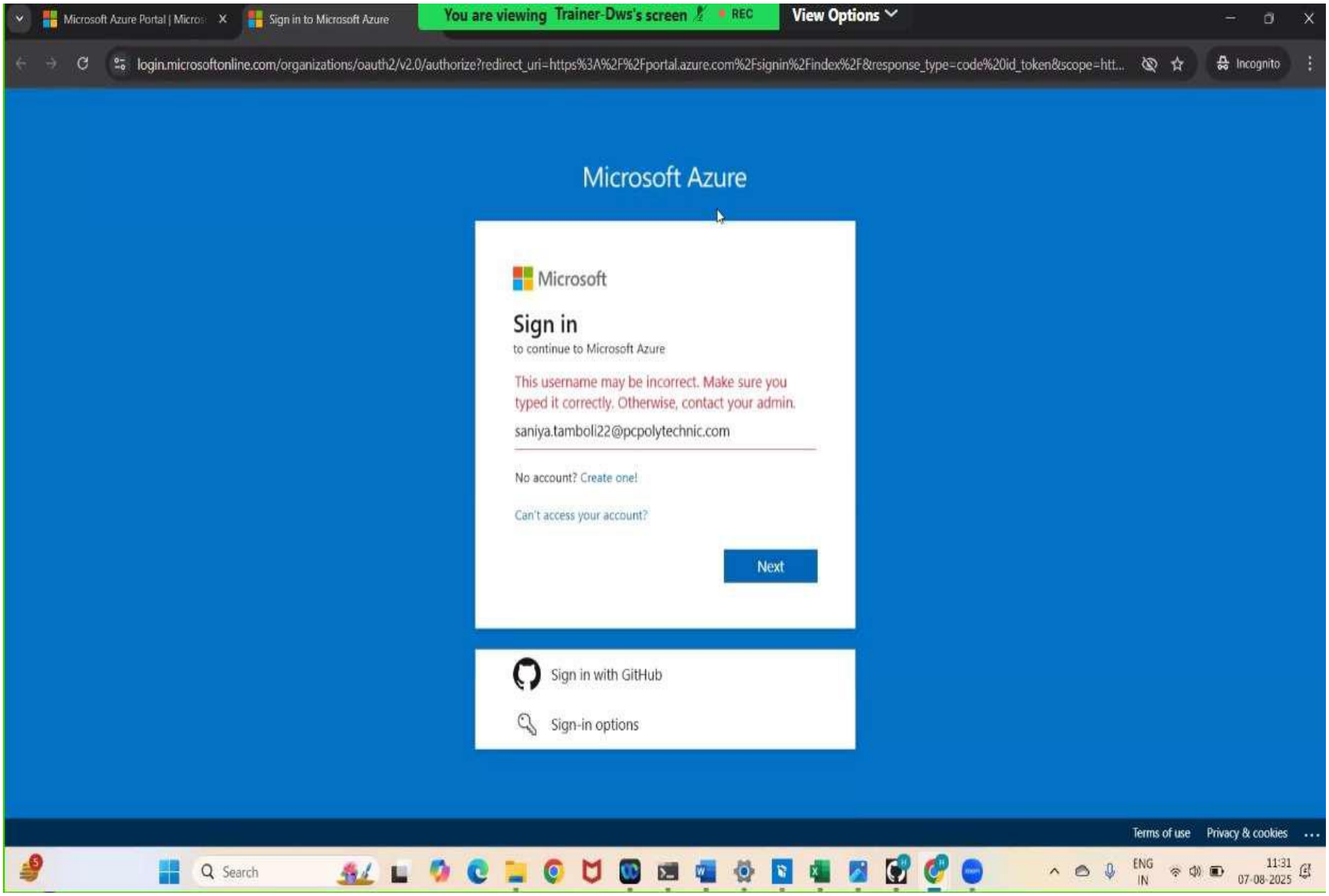
Pre-requisites

Before beginning:

- You should have the .intunewin package file ready.
- This file is created using the IntuneWinAppUtil.exe tool.
- You must have proper permissions in Intune (like App Admin or Intune Admin).

Step 1: Login to Intune Admin Center

- Go to: https://intune.microsoft.com
- Sign in with your admin credentials.



login.microsoftonline.com/organizations/oauth2/v2.0/authorize?redirect_uri=https%3A%2F%2Fportal.azure.com%2Fsignin%2Findex%2F&response_type=code%20id_token&scope=htt...

Microsoft Azure

Sign in

to continue to Microsoft Azure

This username may be incorrect. Make sure you typed it correctly. Otherwise, contact your admin.

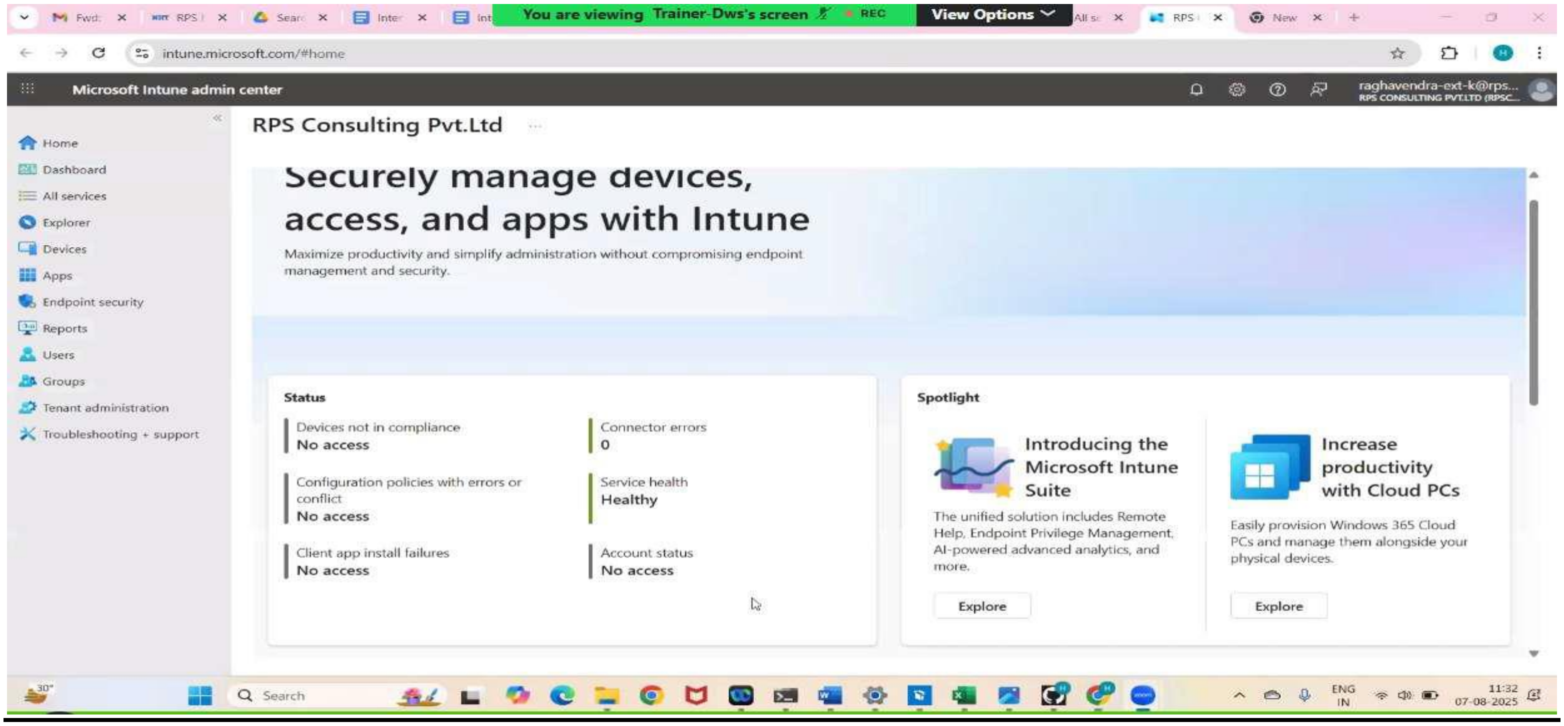
saniya.tamboli22@pcpolytechnic.com

No account? Create one!

Can't access your account?

Step 2: Navigate to Apps

- In the left-hand navigation pane, click on:
  - Apps > All Apps



RPS Consulting Pvt.Ltd

Securely manage devices, access, and apps with Intune

Maximize productivity and simplify administration without compromising endpoint management and security.

Status

Devices not in compliance No access	Connector errors 0
Configuration policies with errors or conflict No access	Service health Healthy
Client app install failures No access	Account status No access

Spotlight

Introducing the Microsoft Intune Suite

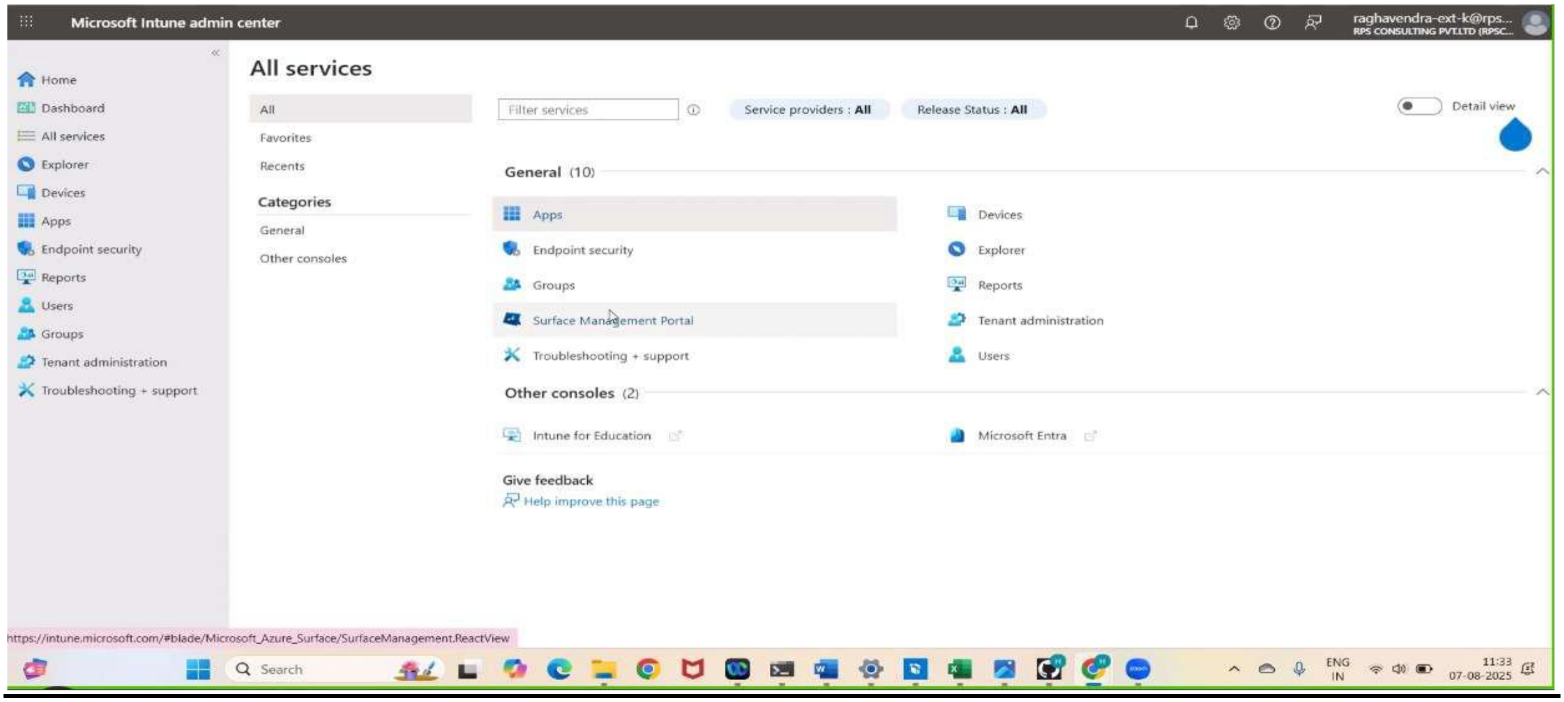
The unified solution includes Remote Help, Endpoint Privilege Management, AI-powered advanced analytics, and more.

Increase productivity with Cloud PCs

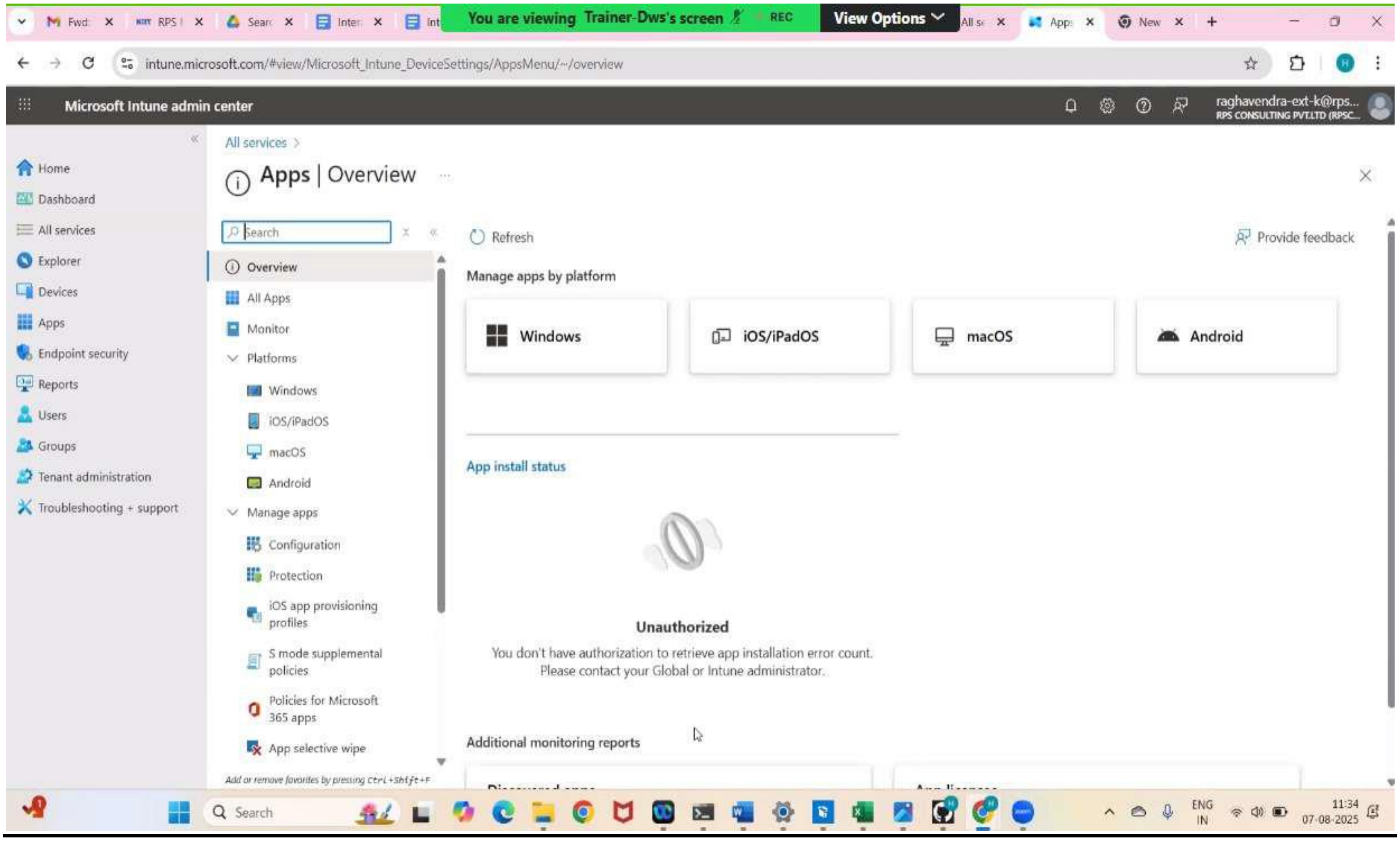
Easily provision Windows 365 Cloud PCs and manage them alongside your physical devices.

Step 3: Add a New App

- At the top of the All Apps page, click + Add.
- Under App type, select:
  - Windows app (Win32) - Click Select



All services

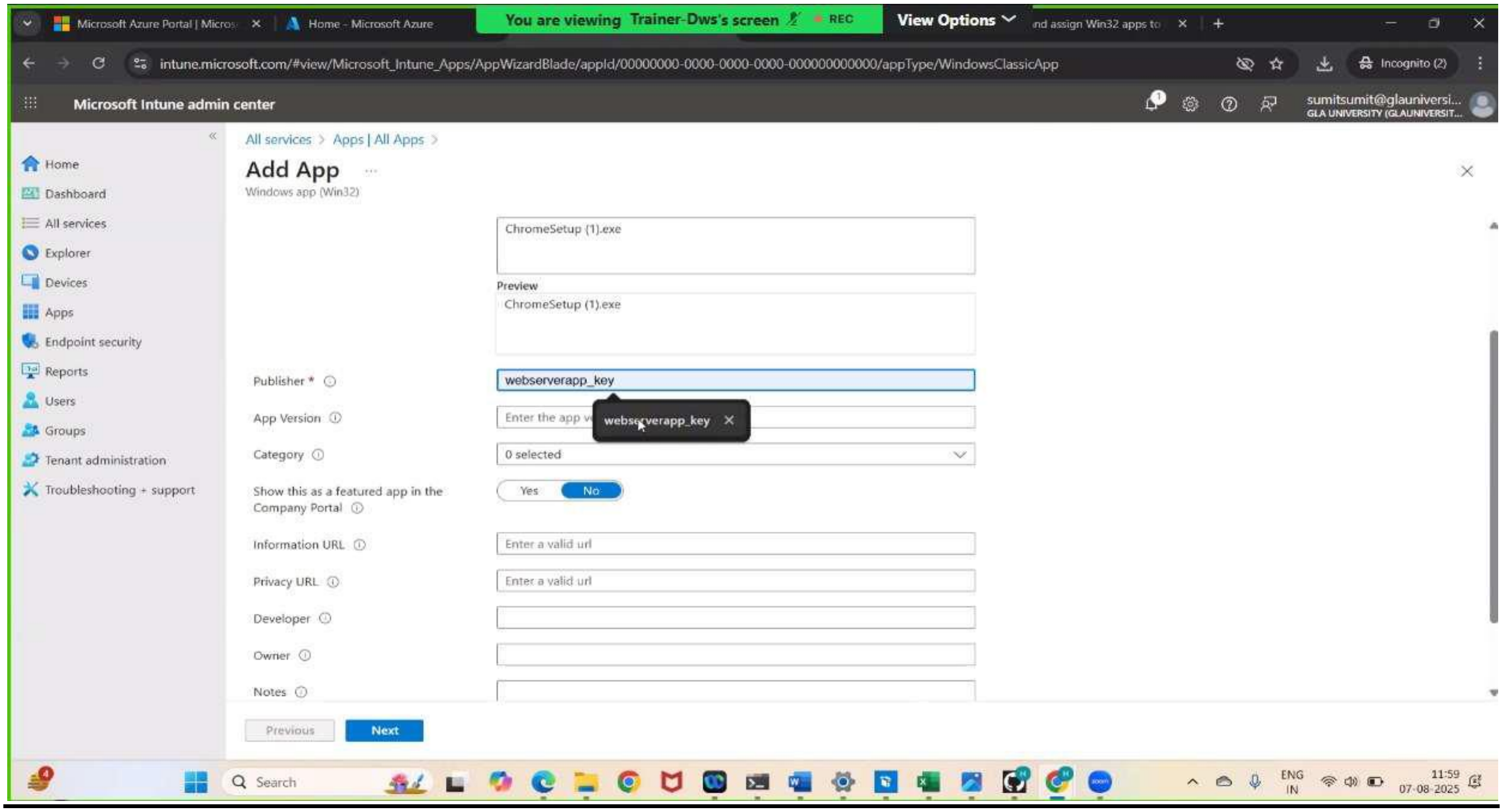


Unauthorized

You don't have authorization to retrieve app installation error count. Please contact your Global or Intune administrator.

Step 4: App Information

- **Upload your .intunewin file.**
  - Browse to the .intunewin package you prepared.
- **Fill in the App Information:**
  - Name
  - Description
  - Publisher
  - App version (optional)
  - Category
  - Show this app in Company Portal – Yes/No
  - Information URL, Privacy URL (optional)
- **Click Next**


Microsoft Azure Portal | Micros
Home - Microsoft Azure
You are viewing Trainer-Dws's screen
REC
View Options
nd assign Win32 apps to
intune.microsoft.com/#view/Microsoft_Intune_Apps/AppWizardBlade/appId/00000000-0000-0000-0000-000000000000/appType/WindowsClassicApp
Incognito (2)
Microsoft Intune admin center
sumitsumit@glauniversi...
GLA UNIVERSITY (GLAUNIVERSIT...
Home
Dashboard
All services
Explorer
Devices
Apps
Endpoint security
Reports
Users
Groups
Tenant administration
Troubleshooting + support
All services > Apps | All Apps >
Search
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IN
11:59
07-08-2025

Add App

Windows app (Win32)

ChromeSetup (1).exe

Preview

ChromeSetup (1).exe

Publisher *: webserverapp_key

App Version: Enter the app v

Category: 0 selected

Show this as a featured app in the Company Portal: Yes [✓ No]

Information URL: Enter a valid url

Privacy URL: Enter a valid url

Developer:

Owner:

Notes:

Previous | Next

Step 5: Program (Install & Uninstall Commands)

- **Provide:**
  - Install command (e.g., setup.exe /quiet)
  - Uninstall command (e.g., setup.exe /uninstall /quiet)
- **Select:**
  - Install behavior: System or User
- **Device restart behavior (choose as applicable)**
- **Click Next**

Step 6: Requirements

- Operating System Architecture:
  - 32-bit / 64-bit or both
- Minimum OS Version:
  - e.g., Windows 10 1607
- Add any other requirements like disk space, RAM, etc.
- **Click Next**

Step 7: Detection Rules

Define how Intune will detect if the app is already installed:

- Choose Manually configure detection rules
- Click + Add:
  - Rule Type: MSI / File / Registry
  - Example (File):
    - Path: C:\Program Files\AppFolder
    - File: App.exe
    - Detection Method: File exists
- **Example (Registry):**
    - Key path: HKLM\Software\Vendor\App
    - Value: Version
    - Detection method: Equals, e.g., 1.0.0
- **Click Next**

Step 8: Assignments

- Choose who should receive this app:
  - Required – auto-installed on assigned devices/users
  - Available for enrolled devices – visible in Company Portal
  - Uninstall – to remove the app
- **Click Next**

Step 9: Review + Create

- Review all your settings.
- Click Create to upload the app and create the assignment.

Uploading may take a few minutes depending on file size.