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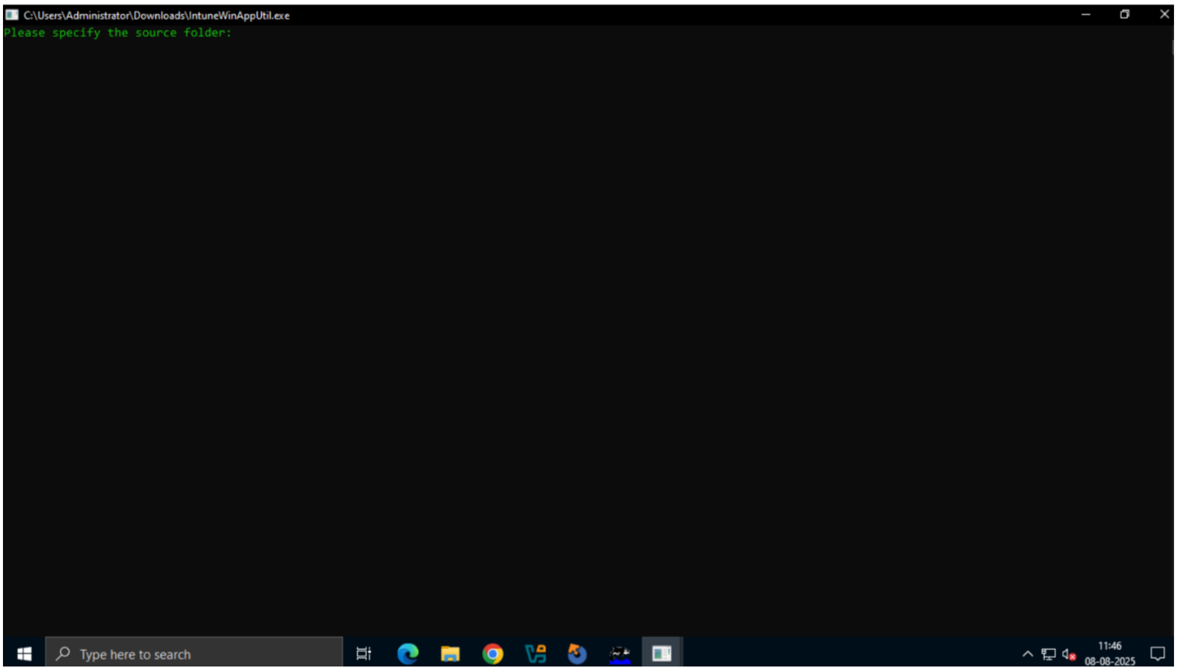
IntuneWin conversion - Compatible version to upload to Intune

Prerequisites :

- Your setup .exe + any required files in one folder.
- Download Intune Win32 Content Prep Tool (IntuneWinAppUtil.exe) from Microsoft (GitHub).



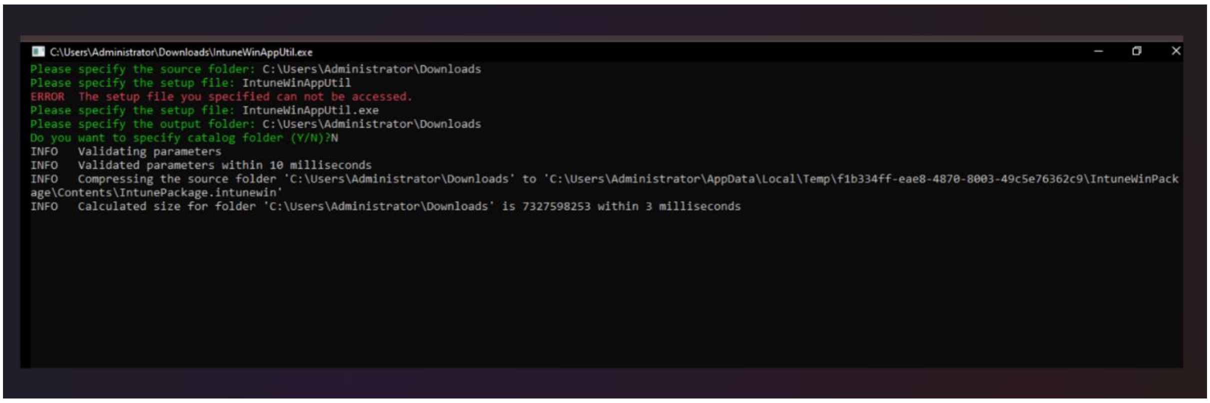
```
Please specify the source folder:
```

STEPS:

- Put your .exe installer in a folder by itself

  EX- C:\IntunePkg\Source\MyAppInstaller.exe

- Open IntuneWinAppUtil.exe.
- Specify source folder - C:\IntunePkg\Source
- Specify setup file - MyAppInstaller.exe
- Specify Output folder - C:\IntunePkg\Output
- Specify catalog folder (Y/N) -N
- Output -C:\IntunePkg\Output\MyAppInstaller.intunewin



C:\Users\Administrator\Downloads\IntuneWinAppUtil.exe

```
Please specify the source folder: C:\Users\Administrator\Downloads
Please specify the setup file: IntuneWinAppUtil
ERROR  The setup file you specified can not be accessed.
Please specify the setup file: IntuneWinAppUtil.exe
Please specify the output folder: C:\Users\Administrator\Downloads
Do you want to specify catalog folder (Y/N)?N
INFO   Validating parameters
INFO   Validated parameters within 10 milliseconds
INFO   Compressing the source folder 'C:\Users\Administrator\Downloads' to 'C:\Users\Administrator\AppData\Local\Temp\f1b334ff-eae8-4870-8003-49c5e76362c9\IntuneWinPack
age\Contents\IntunePackage.intunewin'
INFO   Calculated size for folder 'C:\Users\Administrator\Downloads' is 7327598253 within 3 milliseconds
```

Interactive and Non-Interactive Applications on windows

- **Interactive applications-** Require user input to function.
- **Non Interactive applications-** Operate without direct user interaction.

Interactive and Non-Interactive Applications

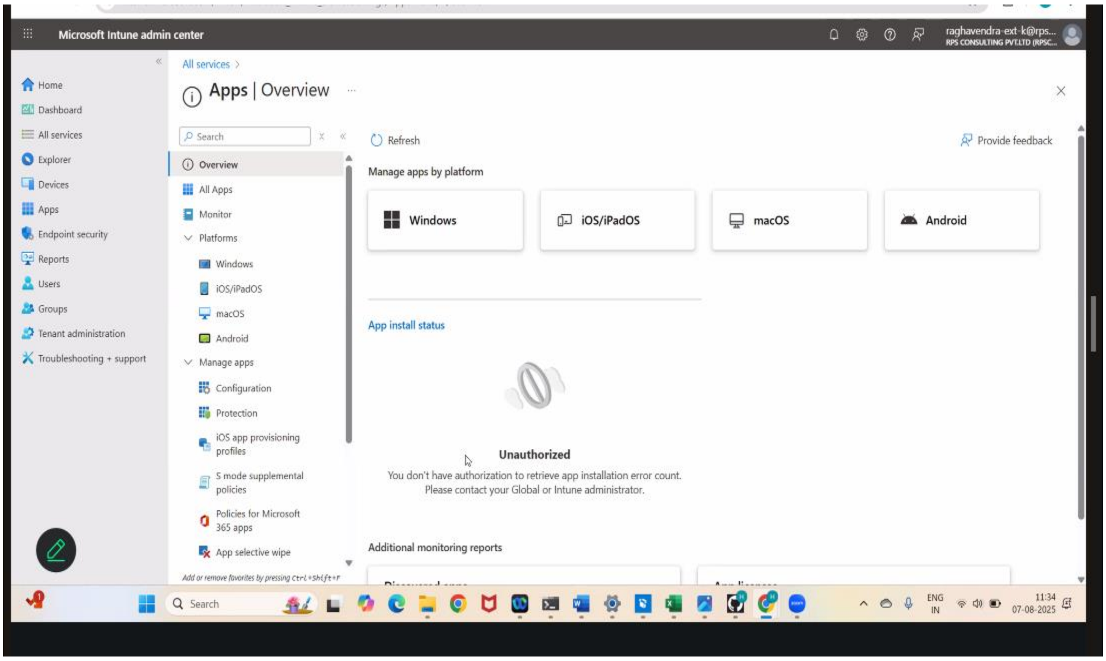
Key Differences:

Feature	Interactive Applications	Non-Interactive Applications

User Interaction	Requires user input	No direct user interaction
GUI	Typically has a GUI	Often no GUI
Purpose	User-driven tasks	Background tasks
Examples	Web browsers, editors	System services, updates

Microsoft Intune App

- Prepare your app
- Adding the App to Intune
- Assigning the app
- Managing the deployment



Unauthorized

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

Process Flow for an Application on Windows client via IME service

Intune Management Extension (IME)

Polling

- **What happens**: IME service regularly checks with Intune servers for new or updated app assignments.
- **Why it matters**: Ensures the client device stays up-to-date with the latest deployment instructions.

Detection

- **Before Installation**:
  - IME evaluates detection rules to check if the app is already installed.
  - Prevents redundant installations.
- **After Installation**:
  - Detection rules are re-run to confirm successful deployment.
- **Detection Methods**:
  - Registry key/value presence
  - File existence
  - Running process check

Installation

- **Trigger**: If app is not detected and assigned, IME starts installation.
- **Steps**:
  - **Download & Unpack**: .intunewin package is downloaded and extracted to a staging folder.
  - **Execute Installer**: Admin-defined command (e.g., msiexec) runs to install the app.

    - **Monitor Progress**: IME tracks installation duration; if it exceeds timeout, it's marked as failed.

Post-Installation Detection & Notifications

- **Detection Recheck**: Confirms the app is properly installed.
- **Toast Notifications**:
    - Sent to user indicating success or failure.
    - Can include icons, text, and actions.
- **Device Restart**:
    - May occur based on Intune policy to finalize installation.

Summary

Step	**Purpose**	**Key Mechanism**
Polling	Sync with Intune	Periodic server check
Detection	Verify app presence	Registry, file, process
Installation	Deploy app	Download, execute, monitor
Post-Detection	Confirm success	Re-evaluate rules
Notifications	Inform user	Toast messages
Restart	Apply changes	Policy-driven

Registries with respect to LOB and Win32Apps

What Are LOB and Win32 Apps?

Type	Meaning	Use Case
LOB (Line-of-Business) Apps	Typically packaged as .msi, .appx, or .msix	Used for internal business applications that are simple to deploy
Win32 Apps	Packaged using the .intunewin format	Ideal for complex apps like .exe installers, Office 365, SAP, or apps needing custom scripts

How They Fit into Intune Deployment

- **LOB Apps** are straightforward and often used for MSI-based installations.
- **Win32 Apps** require conversion using the **IntuneWinAppUtil.exe** tool to wrap the installer and supporting files into a .intunewin format.
- Win32 Apps allow:
    - Custom detection rules
    - Return code handling
    - Reboot behavior control
    - Script integration (PowerShell, batch, etc.)

Registry and Troubleshooting Context

Your syllabus also mentions:

- **Registry references** for installation status
- **Detection logic** using GUIDs and registry keys
- **Toast notifications** for success/failure
- **IME service flow** (Intune Management Extension) for Win32 app lifecycle: polling → detection → install → verification

Why This Matters for You

Given your work with MSI packaging, COM Add-ins, and Active Setup, understanding the distinction between LOB and Win32 apps helps you:

- Choose the right packaging strategy
- Implement advanced deployment logic
- Troubleshoot installations using logs and registry keys