

Beyond the manual: The future of App deployment using Nerdio

AA

NerdioCon

2025 MSPRINGS

Agenda

Introduction

How not to do it

Application Deployment Strategies

WinGet

Shell Apps

Intune

Bringing it all together: UAM



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Nerdio NVP

2x Microsoft MVP









What is an application?



What is an application?

In general, an application (or "app" for short) refers to a software program designed to perform a specific function or set of functions on a computer, smartphone, tablet, or other electronic device.

An application can be a standalone program, or it can be a web application that runs in a web browser. Examples of applications include word processors, spreadsheets, photo editors, video players, social media platforms, email clients, games, and many others.

Applications are typically created by software developers using programming languages, such as Java, C++, Python, or JavaScript, and can be distributed through various channels, such as app stores and websites, or by direct download.

Applications can provide a wide range of functionality, from productivity and entertainment to communication and education. They can be designed for individuals, businesses, or organizations and can be used for personal or professional purposes.



What do we use this desktop for?

Image: Section of the control of th	Image: Transfer Image: Transfer	Image: No.C Image: No.C		al Single User Hostpool	_ ē X			
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What does an application consist of?









How not to do it











Manually installing apps is bad

Manually installing applications is not only inefficient but also time-consuming. While it might seem convenient and quicker to manually install applications onto your master image, this approach will cost you significantly more time in the long run as you'll need to repeat the process for updates and new installations.

Automating your application deployment as much as possible is crucial for saving time and streamlining your workflow. Automation ensures consistency, reduces errors, and frees up valuable time for other important tasks.

Today, we'll demonstrate how easy and effective it is to automate your application deployments, making your processes more efficient and your life much more straightforward.





App deployment strategies

Application deployment strategies

Deploy onto golden/master image

- Applications are installed and managed once in a central place.
- Applications are available as soon as the host is built and ready to service users.
- No chance of application drift.
- All host configurations are exactly the same.
- Enables on-demand auto-scaling.

Deploy onto session hosts

- Applications can be integrated into existing solutions, i.e. Intune, SCCM.
- No multiple golden images to manage, which leads to increased time savings.
- Potential ability to set up complete automation for application deployment.
- Software changes and configurations are persisted onto session hosts for the lifetime of that host.

If installing the apps onto your image...

If installing the apps onto your image, try to create a brand-new image every month with the latest version of your apps. That way, you get a nice, clean install.

SET HEALTHCARE AS AN IMAGE ①

Do you want to set HealthCare as an image? Note: Please ensure that Azure agent is installed and AVD agent is not installed.

Run the following scripted actions before set as image: ③

Applications Management ④

Applications ④

1. 💽 Install 7-Zip (x64 edition) - SCCM [latest] (NMED	×
2. 🛃 Install Adobe Acrobat Pro [latest] (Winget Com	×
3. 🛃 Install Google Chrome (EXE) [latest] (Winget Co	×
4. 🖸 Install Microsoft Teams [latest] (Winget Commu	×
5. Add new application	×



Off

On

If installing the apps onto your image...

In this example, we automatically pull down the latest version from the marketplace.

Then, publish it to the Azure Compute Gallery as a "staged" image.

This won't be available for production until we promote it.



With the schedule set to OFF action will be performed immediately. With schedule turned ON, the task will be performed according to the specified schedule.

SCHEDULE (1)	0	n 🛛
NAME:	Re-image monthly	í
DESCRIPTION:		í
START DATE:	02/27/2025	i
TIME ZONE:	(UTC+00:00) Dublin, Edinburgh, Lisbon, London	i
START TIME:	12 a.m. ✓ : 00 ✓	(i)
REPEAT:	Monthly after "Patch Tuesday" ~	i
DAYS AFTER:	5	í

Refresh image from Azure Marketplace ④

On

CAUTION: Enabling this option will remove the existing Desktop Image VM and re-create it from the latest version of selected Azure Marketplace image.

MARKETPLACE IMAGE:	Windows 11 (24H2) AVD + Microsoft 365 Apps - Gen2 (multi-sess	i
🗌 Join to AD	Nerdio Default Profile (default)	í
Security type:	Standard	í
Geographic distribution & Azure comput	e gallery ①	
AZURE COMPUTE GALLERY:	nerdiosig ×	í
AZURE REGIONS:	North Central US × UK South × UK West × × ×	i
Specialized image 3		

Hibernation supported 3

✓ Stage new image as inactive ④

If installing the apps onto session hosts...

In this example, we automatically re-image the session hosts.

This can be set on a daily, weekly, or monthly basis.

The latest image will always be used, and UAM will deploy the latest versions of the applications.



RESIZE OR RE-IMAGE HOSTS (

Are you sure you want to resize/reimage AADJ Multi-session Desktop?

	⊳ Run now	📩 New schedule *
SCHEDULE	New schedule	~

Resize or re-image all hosts in the Host Pool. You can change the desktop image, VM size and/or OS disk. Changes will apply to all session hosts. The selected parameters will also be set as the default for future hosts that are added.

HOST POOL NAME:	AADJ Multi-session Desktop		
	HealthCare (Eeb 25, 2025 10:54 AM/1 0 0)	•	Ö
JESKI OF IMIAGE.			
/M SIZE:	No change	Ψ	i
DS DISK:	No change	•	i
PROCESS HOSTS IN GROUPS OF:	5		i
NUMBER OF FAILURES BEFORE ABORTING:	1		i
After first group is done, set remain	ing hosts to drain mode ③		
FORCE USERS TO LOG OFF	After 10 minutes		~

- Set hosts to drain mode while waiting for users to log off
- Send message while waiting for users to log off

Sorry for the interruption. We are doing some maintenance and need you to log out. We will be terminating your session in 10 minutes if you haven't logged out by then.





Winget

History of Winget

Winget is a Windows Package Manager developed by Microsoft to manage software installation, updates, and removal.

- Winget 1.0 was released in May 2021 as part of Windows 10 21H1.
- Winget 1.2 was released in Feb 2022 and added support for .zip package installs.
- WinGet 1.3 was released in June 2022 with improved store integration.
- WinGet 1.4 was released in December 2022 with portable application support.
- WinGet 1.5 was released in May 2023 with PowerShell support.
- WinGet 1.6-1.8 Provide better manifest support, app pinning, and dependency management.

Microsoft ships Windows Package Manager (winget) version 1.0

Windows Package Manager 1.0 (winget) now fully available to search, download, install, and maintain apps using commands on Windows 10.

By Mauro Huculak (@Pureinfotech), Windows How-To Expert and IT Specialist with 21 years of experience. May 31, 2021

C:\>winget					
Windows Packag	e Manager v1.0.11451				
Copyright (c)	Microsoft Corporation, All right	is reserved.			
	mand line utility enables instal		ine.		
install 1	installs the given package				
show 5	hows information about a package				
	lanage sources of packages			AL REPORTED IN CONTRACTOR	
	ind and show basic info of packa	gen			
	isplay installed packages				
upgrade t	pgrades the given package				
uninstall U	minitalis the given package				
Bash P	wiper to hash installer tiles				
valioate v	withoutes a manifest rife				
features 5	hows the status of experimental	features			
export i	monts a list of the installed n	ackares			
import 1	installs all the packages in a fi				
For more detai	ls on a specific command, pass i	t the help argument, [-?]			
The following	options are available:				
-v,version	Display the version of the too				
info	Display general info of the to				
	be found at: https://aka.ms/wing		10 M		
			Concert of the		
			100 C		
		and the second			
		198 108 107 mm		O set own o B	-

Basic WinGet commands

- Install apps: winget install <app-name>
- Update apps: winget upgrade
- Uninstall apps: winget uninstall <app-name>
- Search for apps: winget search <app-name>
- Export & import: winget export/import (for system migrations)
- Package management: Support for EXE, MSI, MSIX, ZIP, and portable applications.
- Enterprise use: Works with Intune and Configuration Manager



Basic WinGet commands

PS C:\Users\njmcl> WINGET SEARCH FIREFOX								
Name	Id	Version	Match 	Source				
Mozilla Firefox	9NZVDKPMR9RD	Unknown		msstore				
Mozilla Firefox	Mozilla.Firefox	135	Moniker: firefox	winget				
Mozilla Firefox ESR (en-US)	Mozilla.Firefox.ESR	128.7.0	Command: firefox	winget				
Mercury	Alex313031.Mercury	129.0.2	Tag: firefox	winget				
Mypal	Feodor2.Mypal	29.3.0	Tag: firefox	winget				
MozBackup	JasnaPaka.MozBackup	1.5.1	Tag: firefox	winget				
LibreWolf	LibreWolf.LibreWolf	135.0-1	Tag: firefox	winget				
Firefox Developer Edition (en-US)	Mozilla.Firefox.DeveloperEdition	136	Tag: firefox	winget				
geckodriver	Mozilla.GeckoDriver	0.35.0	Tag: firefox	winget				
Zen Browser	Zen-Team.Zen-Browser	1.7.6b	Tag: firefox	winget				
Zen Browser – Twilight	Zen-Team.Zen-Browser.Twilight	1.7.7t	Tag: firefox	winget				
ABDownloadManager	amir1376.ABDownloadManager	1.5.2	Tag: firefox	winget				
PWAsForFirefox	filips.FirefoxPWA	2.14.1	Tag: firefox	winget				
Firefox Developer Edition (ach)	Mozilla.Firefox.DeveloperEdition.ach	136		winget				
Firefox Developer Edition (af)	Mozilla.Firefox.DeveloperEdition.af	136		winget				
Firefox Developer Edition (an)	Mozilla.Firefox.DeveloperEdition.an	136		winget				
Firefox Developer Edition (ar)	Mozilla.Firefox.DeveloperEdition.ar	136		winget				
Firefox Developer Edition (ast)	Mozilla.Firefox.DeveloperEdition.ast	136		winget				
Firefox Developer Edition (az)	Mozilla.Firefox.DeveloperEdition.az	136		winget				

PS C:\Users\njmcl> winget list				
ame	Id	Version	Available	Source
IGABYTE A.I. Snatch	ARP\Machine\X64\AISnatch	24.11.19.01		
MD Ryzen Master	ARP\Machine\X64\AMD Ryzen Master	2.14.2.3341		
IGABÝTE SSD Firmware Update Tool	ARP\Machine\X64\GBTSsdFirmwareUpdate	24.06.19.01		
BT_Dynamic_Lighting_Lib_UC 24.08.27.01	ARP\Machine\X64\GBT_Dynamic_Lighting_Lib_UC	24.08.27.01		
J J J J J J J J J J J J J J J J J J J	ARP\Machine\X64\GBT_MB_Update	24.10.24.01		
BT RGB Sync Control 24.11.14.01	ARP\Machine\X64\GBT RGB Svnc Control	24.11.14.01		
BT rgbMotherboard UC 24.11.26.01	ARP\Machine\X64\GBT_rgbMotherboard_UC	24.11.26.01		
IGABYTE Control Center 24,10,28,01	ARP\Machine\X64\GIGABYTF Control Center	24.10.28.01		
IGABYTE Performance Library	ARP/Machine/X64/MBFastyTune	24 10 30 01		
IGABYTE Storage Library	ARP\Machine\X64\MBStorage	24 10 24 01		
artan 360	ARD\Machine\X64\Norton 360	25 1 9816 1338		
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enfenmenceTest 11	ADD\ Machine\ Y64\ DenfermanceTect 11 ic1			winger
ertormancerest II	ARP\Machine\X64\PertormanceTest 11_151			
yderpunk 2077	ARP/Machine/Xo4/Steam App 1091300			
SSELLO COISA EVU	ARP/Machine/X04/Steam App 3038630			
LC media player		5.U.ZI		winget
pre lemp 1.18.1	ALLPU. COTE I EMP	1.18.1		winget
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icrosoft Visual C++ 2008 Redistributable - x64 9.0.30729.4148	ARP\Machine\X64\{4B6C7001-C7D6-3710-913E-5BC23FCE91E6}	9.0.30729.4148		
lgato Stream Deck	Elgato.StreamDeck	6.8.1.21263		winget
onjour	Apple.Bonjour	3.0.0.10	3.1.0.1	winget
ogi Options+	Logitech.OptionsPlus	1.86.675082		winget
icrosoft Teams Meeting Add-in for Microsoft Office	ARP\Machine\X64\{A7AB73A3-CB10-4AA5-9D38-6AEFFBDE4C91}	1.24.31301		
dobe Acrobat (64-bit)	Adobe.Acrobat.Reader.64-bit	24.005.20399		winget
VIDIA Graphics Driver 566.36	ARP\Machine\X64\{B2FE1952-0186-46C3-BAEC-A80AA35AC5B8}_Display.Driver	566.36		
VIDIA app 11.0.1.189	ARP\Machine\X64\{B2FE1952-0186-46C3-BAEC-A80AA35AC5B8}_Display.NvApp	11.0.1.189		
VIDIA PhysX System Software 9.23.1019	Nvidia.PhysX	9.23.1019		winget
VIDIA FrameView SDK 1.4.10624.35034762	ARP\Machine\X64\{B2FE1952-0186-46C3-BAEC-A80AA35AC5B8}_FrameViewSdk	1.4.10624.35034762		
VIDIA HD Audio Driver 1.4.2.6	ARP\Machine\X64\{B2FE1952-0186-46C3-BAEC-A80AA35AC5B8}_HDAudio.Driver	1.4.2.6		
VIDIA Broadcast 2.0.0	ARP\Machine\X64\{B2FE1952-0186-46C3-BAEC-A80AA35AC5B8}_NVIDIABroadcast	2.0.0		
lgato Camera Hub	Elgato.CameraHub	1.11.0.4066		winget
nagit 2025	ARP\Machine\X64\{CC6D534D-9BDB-45AB-B886-03104EFF9BFF}	25.0.0.5691		
oai Pluain Service	ARP\Machine\X64\{F593B477-7850-4B82-AACF-C4EE6BA4BE1C}	6.0.4.21376		
MD Chipset Software	ARP\Machine\X86\AMD Chipset IODrivers	6.10.22.027		
rave	Brave Brave	133.1.75.178		winget
oogle Chrome	Google, Chrome, FXF	133.0.6943.98	133.0.6943.99	winget
mart Backup (x64)	ARP\Machine\X86\InstallShield {BC1F45CF-436F-4C61-9638-09D0B431B006}	3 24 0829 1	10010101010101	
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amtasia 2025	ARP\Machine\X86\{06e8Dbf9-fel2-4ee7-9c2f-f3d9b98874bd}	25.0.0.7062	<pre></pre>	
licrosoft Windows Desktop Runtime - 6.0.5 (x64)	Microsoft.DotNet.DesktopRuntime.6	6.0.5	6.0.36	winget
anControl	Rem00.FanControl	214		winget
bs-backgroundremoval version 1.1.13	RoyShilkrot.obs-backgroundremoval	1.1.13		winget
icrosoft Visual C++ 2012 Redistributable (x86) - 11.0.61030	Microsoft.VCRedist.2012.x86	11.0.61030.0		winget
ondershare Helper Compact 2.6.0	ARP\Machine\X86\{5363CE84-5F09-48A1-8B6C-6BB590FFEDF2}_is1	2.6.0		
icrosoft Visual C++ 2015-2022 Redistributable (x64) - 14.42	Microsoft.VCRedist.2015+.x64	14.42.34433.0	14.42.34438.0	winget
ndNote 21	ClarivateAnalytics.EndNote	21.5.0.18513		winget
ealtek Ethernet Controller Driver	ARP\Machine\X86\{8833FFB6-5B0C-4764-81AA-06DFEED9A476}	11.21.0903.2024		
icrosoft Visual C++ 2013 Redistributable (x86) - 12.0.40664	Microsoft.VCRedist.2013.x86	12.0.40664.0		winget
A SPORTSTM WRC	ARP\Machine\X86\{BE6D21BE-C200-4B14-8449-F6A8D24BC882}	2.1.6.0		_
icrosoft Visual C++ 2010 x86 Redistributable - 10.0.40219	Microsoft.VCRedist.2010.x86	10.0.40219		winget
ealtek Audio Driver	ARP\Machine\X86\{F132AF7F-7BCA-4EDE-8A7C-958108FE7DBC}	6.0.9733.1		.920
xpressVPN	ExpressVPN.ExpressVPN	12.95.0.42	12.96.0.10	winget
licrosoft Visual C++ 2015-2022 Redistributable (x86) - 14 42	Microsoft VCBedist 2015+ x86	14.42.34433.0	14.42.34438 0	winget
<u> </u>	HIELOBOLE CICUIDE 2010 1000	2		- INCOMENTAL OFFICE

But that's going to be a lot of scripting...

Nerdio can provide a GUI interface where we can search for WinGet Apps and deploy them to the session hosts or images within a few clicks.

The source for most WinGet apps is the Microsoft Store.

S C:\Users\njmcl> WINGET SEARCH FIREFOX								
Name	Id	Version Match Sour	irce					
———————————————— Mozilla Firefox	9NZ√DKPMR9RD	Unknown msst	tore					
Mozilla Firefox	Moz <mark>illa.Firefox</mark>	135 Moniker: firefox wing	iget					
Mozilla Firefox ESR (en-US)	Mozilla.Firefox.ESR	128.7.0 Command: firefox wind	iget					
Mercury	Alex313031.Mercury	129.0.2 Tag: firefox wing	iget					
Mypal	Feodor2.Mypal	29.3.0 Tag: firefox wind	iget					
MozBackup	JasnaPaka.MozBackup	1.5.1 Tag: firefox wind	iget					
LibreWolf	LibreWolf.LibreWolf	135.0-1 Tag: firefox wind	iget					

O-U nerdio	≡			Q. Search resources, settin	gs and more				💬 💴 ? Neil McLoughlin -
MANAGER FOR ENTERPRISE	Home > Application	> Unified catalog							
소 DASHBOARD	UNIFIED CAT	ALOG A							☆
E MY CUSTOM VIEWS	• SEARCH ③			REPOSITORY		FILTERS			
	FIREFOX			MSStore X	×	 Show favorites only Show all 			
	⊘ APP NAME	÷ 0	APP ID 🕸 🛈		VENDOR ①		REPOSITORY = ①	VERSIONS ①	
	O Mozilla Fire	fox 🕁	9NZVDKPMI	R9RD	Mozilla		MSStore	1 (msstore)	Deploy 🝷
DESKTOP IMAGES	1 item								Import application Deploy

Quiz time!

How many applications are available to be deployed via the Public WinGet Repository?

Answer: Over 7600



X



But what about my custom apps?

The public WinGet repository is excellent for popular applications, such as WinZip, Firefox, and Google Chrome. However, a private WinGet repository is essential for custom applications.

Nerdio simplifies the deployment of a private WinGet repository, automating the creation of all required components. With Nerdio, setting up your private repository is seamless and efficient.

Streamlined application import

Once your private repository is established, you have the flexibility to import applications in two ways:

- Manual import: Add custom applications directly to your private repository.
- Automated import: Integrate applications from Public Winget, SCCM, or Intune into your private repository effortlessly.

But what about my custom apps?



LINK AN APPLICATION REPOSITORY

Link a known repository which can be selected for application deployment, testing and migration activites.

Repository type 🛈

Winget

~

Friendly Name 🛈

Winget-test-2

Location 🛈

https://wg-app-winget-test-2.azurewebsites.net/api

Auth key 🛈

Leave empty if you don't want to change the value

✓ Deployment
Version: 1.1.20230906
Web application : wg-app-winget-test-2
Storage account : wgstwingettest2
Cosmos account : wg-ca-winget-test-2
Key vault : wg-kv-winget-test-2
Application insights : wg-appi-winget-test-2
Log analytics workspace : wg-law-winget-test-2

Do I need to import apps each time there is an update?



Search r	IMPORT 'ADOBE ACROB	AT PRO' TO PRIVATE REPOSITO	DRY
	PACKAGE VERSION: *	24.005.20421 ×	· · .
	REPOSITORY: *	NMEDemo-Private-Winget	× ~
	PACKAGE ID: *	Adobe.Acrobat.Pro	× ~ i
If check	ed, the latest version of the source app	lication will be automatically imported, incas	e of it has not
	alread	y been imported.	
	Synchronize the latest vers	ion 🖏	
			Cancel Import
		mazon Com Services II C	

IMPORT APPLICATION

	General	Repository: *	Winget-test-2
	Installer	Package Id: *	d0ee779.d881c32
	Install switches		
	Apps and Features BETA	Package Version: *	1.0
	Tags	Default Locale: *	en-US
	Install Detection BETA		
		Package Name: *	MyCusomApp
		Description: *	This is an amazing custom App
		Publisher: *	MyCompany
11/1/1		License: *	Perpetual

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IMPORT APPLICATION

General	Source:	File	× V	í
Installer	File: *	Choose File GoogleChromeStandaloneEnterprise64.msi		í
Install switches	Туре: *	MSI	~	í
Apps and Features ^{BETA}	Platform: *	X64	× V	Ġ
Tags	Product Code:			(i)
Install Detection ^{BETA}	Scope:	MACHINE	× v	à
	Installer Locale:	en-US	× ~	i
	Installer success codes:	Specify codes	\sim	í

Cancel Import

IMPORT APPLICATION

General	Interactive:		Ġ
Installer	Silent:	/qn	٩
Install switches	Silent With Progress:		i
Apps and Features BETA			
Tags	Install Location:		í
Install Detection BETA	Log:	/L*V "C:\Install_Test"	١
	Upgrade:		i
	Custom:		í
		Cancel	port



Tags

IMPORT APPLICATION

Install Detection BETA

General	DEFINE CUSTOM DETECTION RU	JLES FOR THIS APPLICATION ③	Add Detection 🕶
Installer	#1		Folder File
Install switches	Folder:	C:\Program Files\Google\Chrome\Application	Registry Key
Apps and Features ^{BETA}			Registry Value



Cancel

Import

	Ŭ	· - · · · ·	·hh	.0					
nerdio Manager	0	7-Zip (.msi example) 🏠	UUID	Nerdio		ShellApps	1		Deploy -
FOR ENTERPRISE	0	7Zip-Shellapp ☆	UUID (i)	Me		ShellApps	1		Deploy 👻
DASHBOARD -	0	MyCustomApp 🟠	b1a015c.32f426d	MyCompany		Winget-test-2	1 (msi)		Deploy 💌
E MY CUSTOM VIEWS -				5 1 5		0			
	0	Notepad++ (.exe example) 🟠	UUID 🛈	Nerdio		ShellApps	1		Deploy 🝷
	0	Notepad++aPPDEOYY ☆	UUID (i)	Nerdio		ShellApps	1		Deploy -
	;	7 items					(A) Impo	ort applicatio	Deploy
DESKTOP IMAGES									
APPLICATIONS -	U	NIFIED CATALOG TASKS ⁽¹⁾	21		Search	ALLS	TATUSES		₀ 3 **
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Deployment status	та	SK (i)						I	
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Deployment status Deployment policies App groups	Cre	SK ① eate app installer	RESOURCE NAME ^① b1a015c.32f426d	USER wvdadmin@virtualman c.onmicrosoft.com	STATUS 🕃	CREATED ① E Feb 18, 2025 07:28 PM	COMPLETED ① Feb 18, 2025 07:28 PM	Details	Hide
Deployment status Deployment policies App groups Shell apps Integrations	Cre Cre	5K ③ eate app installer eate container for app upload	RESOURCE NAME (1) b1a015c.32f426d b1a015c.32f426d	USER ③ wvdadmin@virtualman c.onmicrosoft.com wvdadmin@virtualman c.onmicrosoft.com	STATUS	CREATED ① E Feb 18, 2025 07:28 PM E Feb 18, 2025 07:28 PM	COMPLETED ① Feb 18, 2025 07:28 PM Feb 18, 2025 07:28 PM	Details	Hide
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- File shares	666b11763e8846e1a1c56e8a7b9d09be.GoogleChromeStanda	lo 18/02/2025, 19:28:50	Hot (Inferred)	Block blob	124.54 MiB	Available ····
Queues	b276bc75cabb4ebdbf2aa1a0c30f5e48.7z2409-arm64.exe	17/12/2024, 10:57:22	Hot (Inferred)	Block blob	1.51 MiB	Available
Tables	bee0d8a7ee7449e7bfd7c34fa31b5085.7z2409-arm.exe	17/12/2024, 10:57:21	Hot (Inferred)	Block blob	1.58 MiB	Available
	d3014946a71f47eaa9033397d74f16b1.7z2409.exe	17/12/2024, 10:57:17	Hot (Inferred)	Block blob	1.29 MiB	Available





What's actually happening under the hood?

02-19-25 07:55:41 - Apps Manager v6.7 02-19-25 07:55:44 - User NME_UAM_Manager_39d0 is not local administrator, providing access... 02-19-25 07:55:44 - User NME UAM Manager 39d0 is disabled, enabling... 02-19-25 07:55:44 - Regenerate password for user NME_UAM_Manager_39d0 02-19-25 07:55:44 - Credentials for user insidermu-83e1\NME UAM Manager 39d0 was obtained 02-19-25 07:55:44 - Fail to create a new Powershell session: 02-19-25 07:55:44 - [localhost] Connecting to remote server localhost failed with the following error message : Access is denied. For more information, see the about_Remote_Troubleshooting Help topic. 02-19-25 07:55:44 - Try to enable PSRemoting 02-19-25 07:55:44 - WinRM status saved: Running 02-19-25 07:55:44 - WinRM start type saved: Automatic 02-19-25 07:55:45 - Denied configs saved: False 02-19-25 07:55:45 - Listeners saved: 1 02-19-25 07:55:45 - Listener_1084132640 02-19-25 07:55:47 - Firewall rules saved: 0 02-19-25 07:55:47 - LocalAccountTokenFilterPolicy saved: 0 02-19-25 07:55:52 - A new Powershell session was successfully created 02-19-25 07:55:52 - Checking if Winget is installed 02-19-25 07:55:52 - WinGet is installed 02-19-25 07:55:52 - Change directory to C:\Program Files\WindowsApps\Microsoft.DesktopAppInstaller 1.24.25200.0 x64 8wekyb3d8bbwe 02-19-25 07:55:53 - Test winget - OK 02-19-25 07:55:53 - Source found winget https://cdn.winget.microsoft.com/cache 02-19-25 07:55:53 - Source found adf546a2d67e47d59bc6d4eb502bad93 Shell 02-19-25 07:55:53 - Source found c7b1288382b24124b245faed801be3fa https://wg-app-winget-test-2.azurewebsites.net/api 02-19-25 07:55:53 - Register sources in user context: 02-19-25 07:55:53 - Source found winget https://cdn.winget.microsoft.com/cache 02-19-25 07:55:53 - Source found adf546a2d67e47d59bc6d4eb502bad93 Shell 02-19-25 07:55:53 - Source found c7b1288382b24124b245faed801be3fa https://wg-app-winget-test-2.azurewebsites.net/api 02-19-25 07:55:53 - [STARTING ACTIONS PROCESSING] 02-19-25 07:55:53 - -----02-19-25 07:55:53 - Detect application Adobe Acrobat Reader (64-bit) [Adobe.Acrobat.Reader.64-bit] 02-19-25 07:55:53 - Custom detection for Adobe Acrobat Reader (64-bit) [Adobe.Acrobat.Reader.64-bit] is not configured 02-19-25 07:55:55 - Install app Adobe Acrobat Reader (64-bit) [Adobe.Acrobat.Reader.64-bit] 02-19-25 07:59:19 - Install log: 02-19-25 07:59:19 - Found Adobe Acrobat Reader (64-bit) [Adobe.Acrobat.Reader.64-bit] Version 24.005.20414 This application is licensed to you by its owner. Microsoft is not responsible for, nor does it grant any licenses to, third-party packages. Downloading https://ardownload2.adobe.com/pub/adobe/acrobat/win/AcrobatDC/2400520414/AcroRdrDCx642400520414_MUI.exe Successfully verified installer hash Starting package install... Successfully installed 02-19-25 07:59:19 - Post-action detect application Adobe Acrobat Reader (64-bit) [Adobe.Acrobat.Reader.64-bit] 02-19-25 07:59:22 - [FINISHED ACTIONS PROCESSING] 02-19-25 07:59:22 - Detecting applications 02-19-25 07:59:23 - 12 app(s) detected from winget source 02-19-25 07:59:24 - 0 app(s) detected from c7b1288382b24124b245faed801be3fa source 02-19-25 07:59:24 - Cleanup 02-19-25 07:59:24 - Remove PSSession 02-19-25 07:59:24 - Reset PSRemoting 02-19-25 07:59:24 - Found 1 listener(s) 02-19-25 07:59:24 - Saved 1 listener(s) 02-19-25 07:59:24 - Remove 0 listener(s)... 02-19-25 07:59:24 - Disable firewall rules... 02-19-25 07:59:24 - Reset LocalAccountTokenFilterPolicy... 02-19-25 07:59:24 - Disable UAM Local Admin

But what about my more complicated app installs?

Installing MSI files is great, but customers sometimes need a bit more flexibility with their install scripts .

We created **Shell Apps** for those customers who need:

- Detection logic to only install if the existing app is not installed.
- Advanced install scenarios i.e. create registry settings, customize settings.
- Uninstall scenarios.
- Version control.

A common adoption of this is customers who use the PSAppDeploy Toolkit to manage their application deployments.

But what about my more complicated app installs?

EDIT NOTEPAD++ (.EXE EXAMPLE)

General Detect Install Uninstall Versions

	1 \$basePath = \$env:TEMP
	<pre>2 \$installerFolderName = "Notepad \$(New-Guid)"</pre>
	<pre>3 \$installerFolderFullPath = Join-Path \$basePath \$installerFolderName</pre>
	4
	5 \$installerFolderExists = Test-Path \$installerFolderFullPath
	6 if (\$installerFolderExists) {
\triangle	7 Remove-Item \$installerFolderFullPath -Recurse -Force -ErrorAction Stop
	8 }
	9
	10 New-Item -Path \$basePath -Name \$installerFolderName -ItemType Directory -Force Out-Null
	11
	12 <pre>\$installerName = 'installer.exe'</pre>
	<pre>13 \$installerFullPath = Join-Path \$installerFolderFullPath \$installerName</pre>
	14
	15 \$installerUrl = "https://github.com/notepad-plus-plus/notepad-plus-plus/releases/download
	16 Invoke-WebRequest -URI \$installerUrl -OutFile \$installerFullPath
	17
	18 Start-Process "\$installerFullPath" -Wait -ArgumentList "/S"
	19
	20 Remove-Item \$installerFolderFullPath -Recurse -Force
	21
	22 <pre>\$Context Log('Install script completed')</pre>

Script status: healthy -

Applied to 1 version -

Snippets 🔻

And what about my images?



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KSPACES	NAME * ©	VM CONFIG ①	DESCRIPTION = ①		LAST UPDATED \$ ()	HOST POOLS ①		
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tach tach certificates	Win10Gen1 WIN10GEN1 10.0.0.26 (WVDLAB-vnet/default/uksouth)	OS: Windows 10 EVD VM Size: D2as, y5 (2C & 8GB) OS Disk: 128 GB (E10/Standard SSD) Resource group: NerdioTest2	<no description=""></no>		Feb 15, 2025 09:45 AM			Power on +
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	Start VM	Win10Gen1	wvdadmin@virtualmanc.onmicrosoft.com	✓ COMPLETE	Feb 15, 2025 10:44 AM	Feb 15, 2025 10:45 AM	Details Hide	
	Add desktop image	Win10Gen1	wvdadmin@virtualmanc.onmicrosoft.com	✓ COMPLETE	Feb 15, 2025 09:33 AM	Feb 15, 2025 09:45 AM	Details Hide	
	Start VM	Win10TST	wvdadmin@virtualmanc.onmicrosoft.com	✓ COMPLETE	Feb 15, 2025 08:28 AM	Feb 15, 2025 08:29 AM	Details Hide	
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And what about my session hosts?



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amic host pools ic host pools r sessions	AMD <no description=""> (NerdioTest2)</no>	AMD	Single user desktop (personal) Assignment Type: Automatic Ang Peak users/CPU: N/A (N/A @	User sessions: 0 Assigned users: 1 Assigned groups: 0 Hosts: 0 ON / 1 (CPUs: 4)	✓ Default Mode: user-driven Start VM on connect: enabled	Windows 11 (24H2) AVD D4ads_v6 (4C & 16G8) 128 GB (S10/Standard HDD)	Monthly savings: £0.00 (0%) @ Named user cost: £7.72/month @	Manage Hosts
POINTS *	DefenderTest <no description=""> (NerdioTest2)</no>	DefenderTest	Multi user desktop (pooled) Breadth first load balancing Max session limit: 5 Ave (Peak users/CPUL-05.10.5 @	User sessions: 0 Assigned users: 1 Assigned groups: 0 Hosts: 0 ON/1 (CPUs: 2)	✓ Default Min: 0, Capacity: 1, Burst: 0 Scale trigger: shutdown after 10 minutes	Windows 11 (24H2) AVD D2as_y5 (2C & BGB) 128 GB (E10/Standard SSD)	Monthly savings: £29.88 (44.47%) @ Named user cost: £37.31/month @ Concurrent user cost: £37.31/month Monthly active user cost: £37.31/mot	N⊕ Manage Hosts
ICATIONS •	GPUNVIDIA «no description» (NerdioTest2)	GPUNVIDIA	Single user desktop (personal) Assignment Type: Automatic Avg [Peak users/CPU: N/A N/A @	User sessions: 0 Assigned users: 1 Assigned groups: 0 Hosts: 0 ON / 1 (CPUs: 12)	✓ Default Mode: user-driven Start VM on connect: enabled	Windows 11 (23H2) AVD NV12s_v3(12C & 112GB) 128 G8 (510/Standard HDD)	Monthly savings: £0.00 (0%) @ Named user cost: £0.00/month @	Manage Hosts
roups	Insider <no description=""> (NerdioTest2)</no>	Insider	Single user desktop (personal) Assignment Type: Automatic Awg Peak users/CPU: 0.0 0.0 @	User sessions: 0 Assigned users: 2 Assigned groups: 0 Hosts: 0 ON / 1 (CPUs: 2)	✓ Default Mode: user-driven Start VM on connect: enabled	Windows 11 (23H2) AVD D2as, y5 (2C & 8GB) Running disk: Standard SSD Stopped disk: Standard HDD	Monthly savings: £38.56 (87.72%) @ Named user cost: £2.70/month @	Manage Hosts
ations ttach	Insider-Multi «no description» (NerdioTest2)	Insider-Multi	Multi user desktop & RemoteApp (poo Breadth first load balancing Max session limit: 5 Avg (Peak users/CPU: 0.3 (0.5 @	Ied) User sessions: 1 Assigned users: 3 © Assigned groups: 0 Hosts: 1 ON / 1 (CPUs: 2)	✓ Default Min: 0, Capacity: 1, Burst: 0 Scale trigger: shutdown after 10 minutes	Windows 11 (24H2) AVD + Microsoft 365 D2as_y5 (2C & 8GB) Running disk: Premium SSD Stopped disk: Standard HDD	Apps Monthly savings: £57.25 (88.75%) @ Named user cost: £2.42/month @ Concurrent user cost: £7.26/month Monthly active user cost: £7.26/mont	⊙ Manage Hosts
PTED ACTIONS +	Win10Upgrade <no description=""> (NerdioTest2)</no>	Win10Upgrade	Multi user desktop (pooled) Breadth first load balancing Max session limit; 5 Ang Peak users/CPU: N/A (N/A @	User sessions: 0 Assigned users: 1 Assigned groups: 0 Hosts: 0 ON / 1 (CPUs: 2)	✓ Default Min: 0, Capacity: 1, Burst: 2. Scale out trigger: spare sessions below 0 Scale in trigger: shutdown after 10 minutes	Windows 10 (22H2) EVD + Microsoft 365 D2as, v5 (2C & 8GB) 128 GB (E10/Standard SSD)	Apps Monthly savings: E0.00 (0%) Named user cost: E8.49/month	Manage Hosts
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Intune

I can just use Intune to deliver my apps to my session hosts, right?



Martin Therkelsen • 1st Cloud Architect at APENTO | Freelance | Microsoft MVP | Former Citrix CTP | A... 12h • 🕤

I did a small test with using Intune to install applications on a newly provisioned AVD session host. I have 5 pretty small applications which takes about 5-7 min to install on my local machine. My test with intune and AVD showed that my session host was ready for users after 1 hour and 15 min. I am not really surprised, but confirms that either image automation or a solution that can trigger intune is still needed for quick image updates.

#AVD #APENTO #MVPBuzz

CV You and 23 others

2 comments

. . .

I can just use Intune to deliver my apps to my session hosts, right?

1. **Reddit Discussion on Slow Deployments**: Users have reported that during machine setup or Azure AD join, even basic applications like Chrome can take 1-5 hours to install. REDDIT.COM

 Reddit Thread on Windows 11 App Deployment: Reports indicate that forced apps from Intune are extremely slow to install on Windows 11 devices, with no issues observed on devices upgraded from Windows 10 via in-place updates. REDDIT.COM

11. Reddit Thread on Win32 App Installation Delays: Users report that Win32 apps are taking hours to days to install, with potential causes including web proxy interference or network connectivity issues. REDDIT.COM

3. EduGeek Forum: Discussions highlight that Intune can be slow in applying settings, with users seeking tips to ensure devices receive configurations promptly. EDUGEEKNET

- Reddit Complaint on Intune's Speed: A user questions why Intune is so slow to update or refresh after any action, noting that tasks like pushing policies or deleting devices take an inordinate amount of time. REDDIT.COM
- . Reddit Discussion on Improving Intune Deployment Speed: Users share experiences and solutions to address slow Intune deployments, such as avoiding the mixing of Line-of-Business (LOB) and Win32 apps. REDDIT.COM

Why is it so slow?

Intune does not immediately push applications, policies, or updates to devices. Instead, devices check in with Intune at predefined intervals to receive any updates, configuration changes, or application deployments.

- By default, a device will check-in with Intune every eight hours.
- For newly enrolled devices, this can be within the first 15-30 minutes after enrolment.

How application deployment works:

- Apps are not pushed immediately when assigned. They are applied during the next scheduled checkin
- Win32 apps rely on device policies, which also operate on an eight-hour schedule.



How can Nerdio help with this?

Nerdio can enforce Intune compliance before taking the host out of drain mode.

This means you will not get into a situation where your users log onto a session host and there are no applications installed. The downside is that you need to create a compliance policy for your apps.



If enabled, hosts will not be available to users until Intune compliance requirements are met. Compliance can be enforced either for Compliance policies only, or for all Intune policy types. Note: Enabling this feature may result in significant increase in provisioning time, depending on the configured Intune compliance requirements. Note: Enabling compliance for all policy types will add a minimum of 1 hour to the required deployment time.

Enforce Intune Compliance 🖲

All Intune Policies

6

 \sim

Intune compliance timeout (hours) 🛈



Bringing it all together





Unified Application Management



What can we do with Unified Application Management?

Everything!

With UAM, we can:

- View applications from multiple repositories in a single pane of glass.
- Create deployment policies for AVD session host pools, W365 devices, and even Intune devices!
- Configure application deployment maintenance windows so applications can only be deployed at certain times (Nerdio will even power on the hosts and shut them down).
- Configure drain mode on hosts when UAM is deploying applications.
- Create application install groups.

Saturday - Sun	iday ×	x ~]	(UTC+00:00) Dublin, Edinburgh, Li	isbon, London
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Send a messag mode (deactiva DELAY:	ge to all users on a session h ated) before the message is	nost before perform sent. 10 min	ng the operation. Session hosts w	vill be placed into d

Creating a policy:

ADD POLICY

CIEC		a policy.	Deployment policies ensure that target devices meet the reassessed on a regular basis to ensure that devices hav maintenance window is specified, application managem	ir desired configuration state. Policy compliance will be the applications specified in the policy installed. If a ent tasks will only be performed during the window.
			Name ①	Description ③
		for our policios boro	 MyAwesomeApps	
				Generate with AI 🔩
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			1. 🖿 Install Adobe Acrobat Reader (64-bit) [latest] (Wi 🗴	Install app Install group Inistall group
	Application	ns can be ordered	2. Dinstall MyCustomApp [latest] (Winget-test-2)	
	or grouped	I together	 3. Install Notepad++ [latest] (Winget Public)	
			4. D Install PuTTY [latest] (Winget Public) X	Show favorites only (1)
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We can pu	ut hosts into d	rain mode	 DRAIN MODE (AVD) ①	Off
				Cancel Save

Home > Applications > Deployment status

Device states are re-evaluated every 15 minutes. The Application and Status columns may appear inconsistent during this time.

DEPLOYMENT STATUS

SEARCH	FILTER BY POLICY TYPE	FILTER BY SCOPE	DEVICE STATUS	ACTION STATUS	
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DEVICE 🕆 🛈	POLICY 💠 🛈	APPLICATIONS (3)	STATUS 🔅	© LAST ACTION ©	
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5 items

DEPLOYMENT POLICY TASKS ⁽¹⁾ Pa					Search	ALL STATUSES	◎ 2 ± ±
TASK ①	RESOURCE NAME ①	USER ①	STATUS ⁽¹⁾	CREATED (i)	COMPLETED ()		
Process app policy	MyAwesomeApps	<automatic task=""></automatic>	✓ COMPLETE	Feb 19, 2025 10:34 AM	Feb 19, 2025 10:35 AM	Details Hide	
Create app policy	MyAwesomeApps	wvdadmin@virtualmanc.onmicrosoft.com	✓ COMPLETE	Feb 19, 2025 10:30 AM	Feb 19, 2025 10:30 AM	Details Hide	
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Recent enhancements in UAM

6.7

- Automatically synchronize WinGet applications from public to private WinGet repo.
- One-time Intune deployments.

V 6.6.1

• Shell Apps versioning support.

V 6.5.1

- Shell App support for Intune devices.
- UAM policies can be targeted at specific tenants.
- Support for Azure Local host pools.

V 6.4.1

- Extract applications from Intune.
- Assign policies at the workspace level.







Questions?

