

BINGO

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10	18	40	53	74
3	23	37	55	70
15	24	★	51	62
5	30	43	54	65
28	33	58	67	

@virtuEs_IT
@fberson

Join and win!

Attached to traditional
golden images for AVD?
Get attached to
something different!





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About Esther Barthel

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Focus

Cloud DevOps Engineer/IT Process Automation



From

The Netherlands



My Blog

<https://www.cloud-devops.ninja/>



Certifications



Hobbies



Contact

@virtuEs_IT

github.com/cloud-devops-ninja



About Freek Berson

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Focus

End User Computing, Infrastructure as Code



From

The Netherlands

My Blog

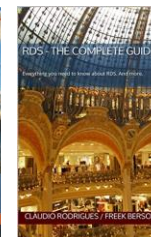
Themicrosoftplatform.net

Certifications



Books

- Getting started with Bicep
- RDS - The Complete Guide



Contact

@fberson

github.com/fberson



Agenda

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Key takeaways:

- **Get up to speed on app attach for AVD**
- **Learn when and how to use it**

● **Application delivery solutions for AVD**

What are the options

● **Evolution of app attach**

App attach now and 5 years ago

● **MSIX app attach vs app attach**

Key differences

● **App attach today**

More than just a name change!

● **Live demo**

Create, remove & update, and a touch of Bicep! 💪



Some history...

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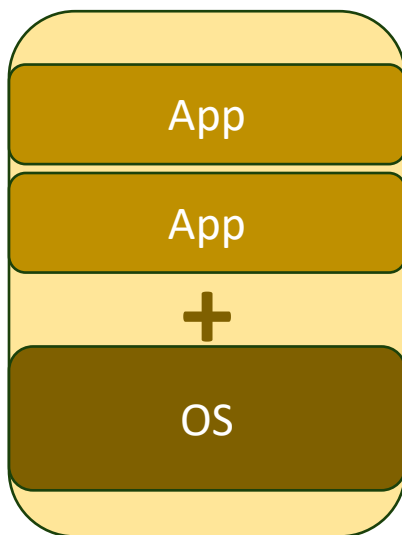
Bold prediction back in 2019 😊





Application delivery solutions for AVD

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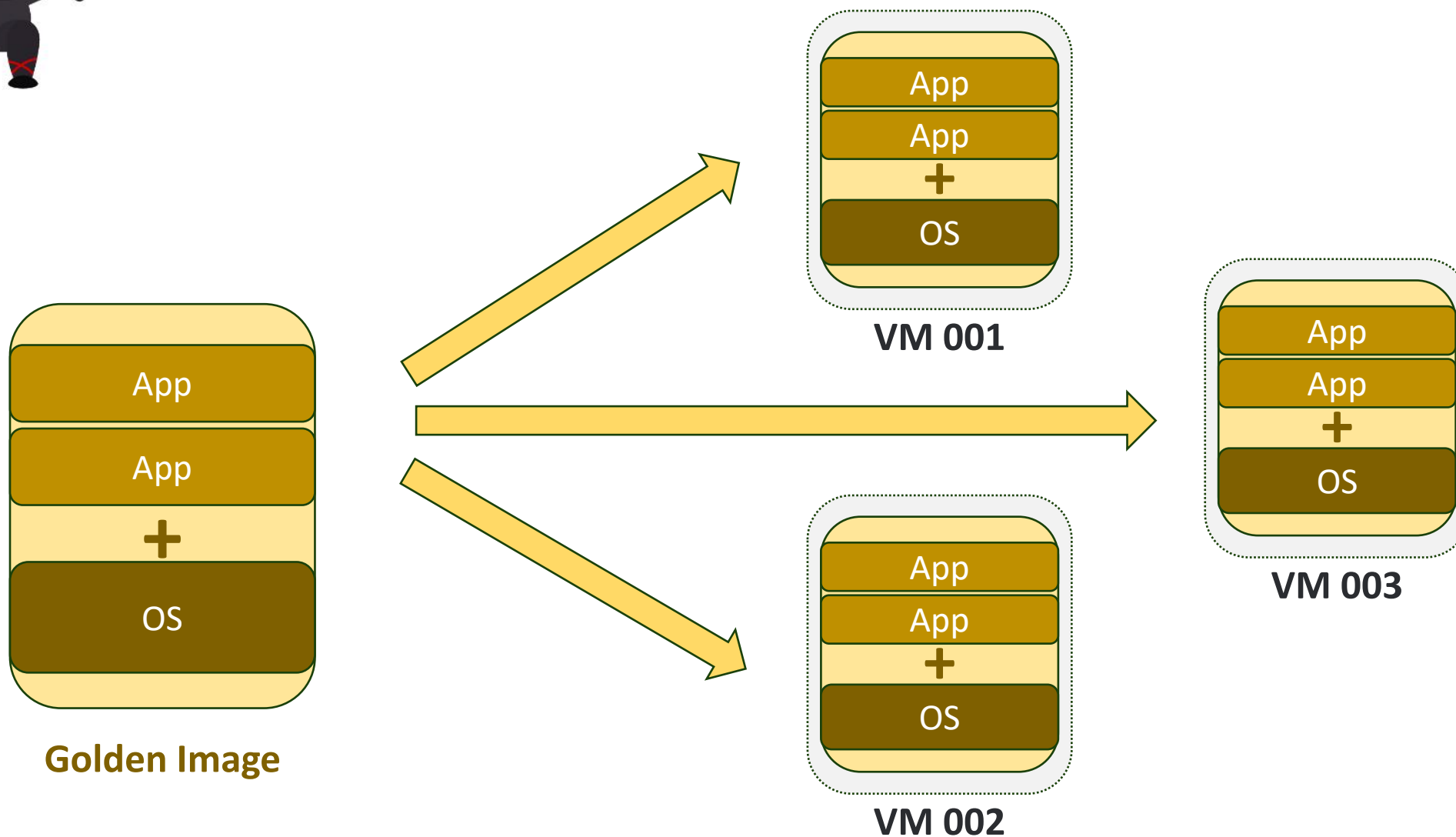


Golden Image



Application delivery solutions for AVD

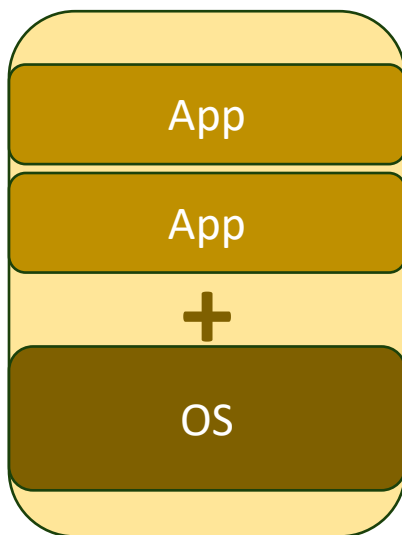
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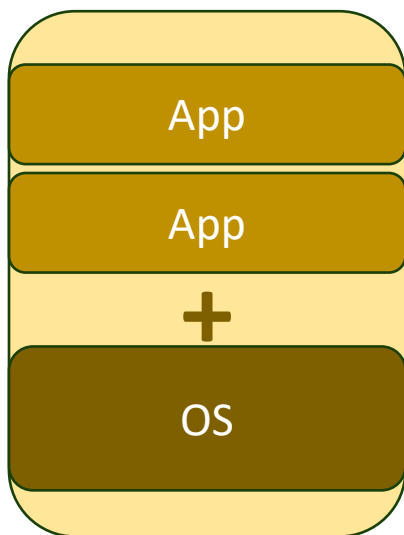


Golden Image

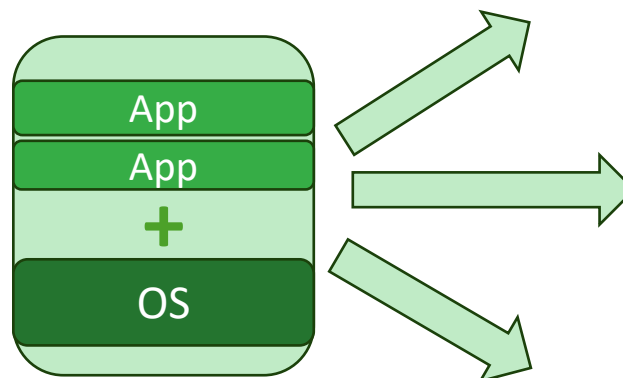


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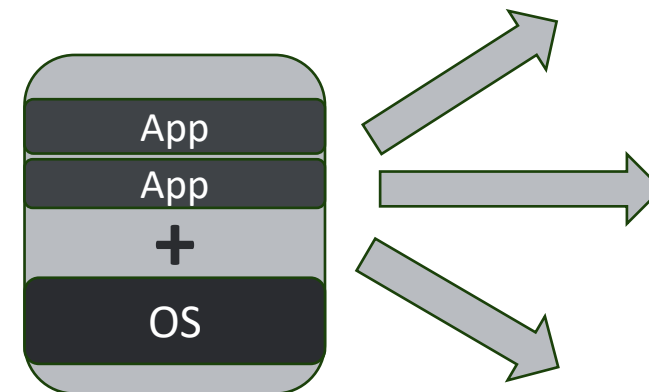


Golden Image



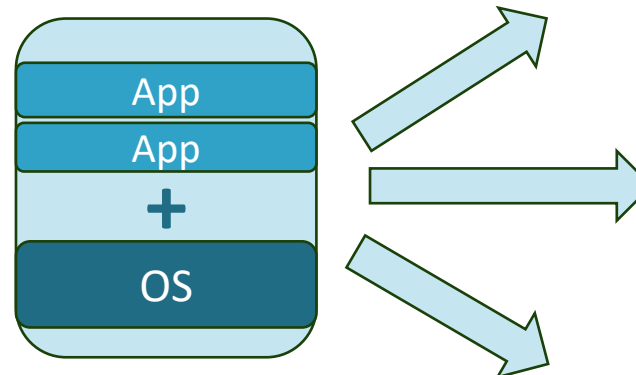
Golden Image

Variant 1



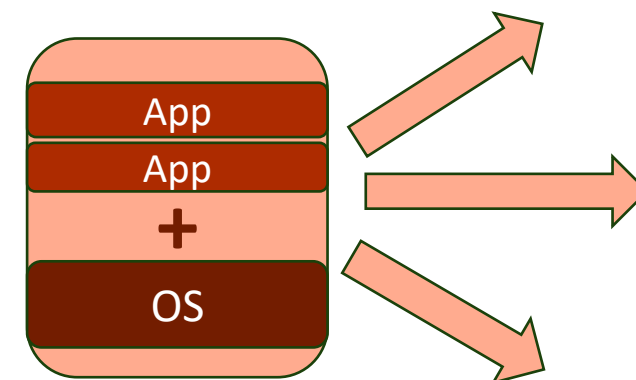
Golden Image

Variant 3



Golden Image

Variant 2



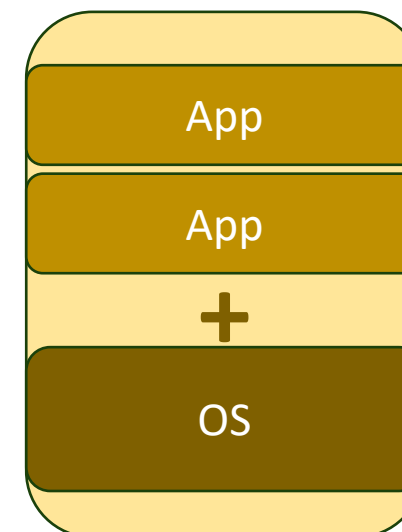
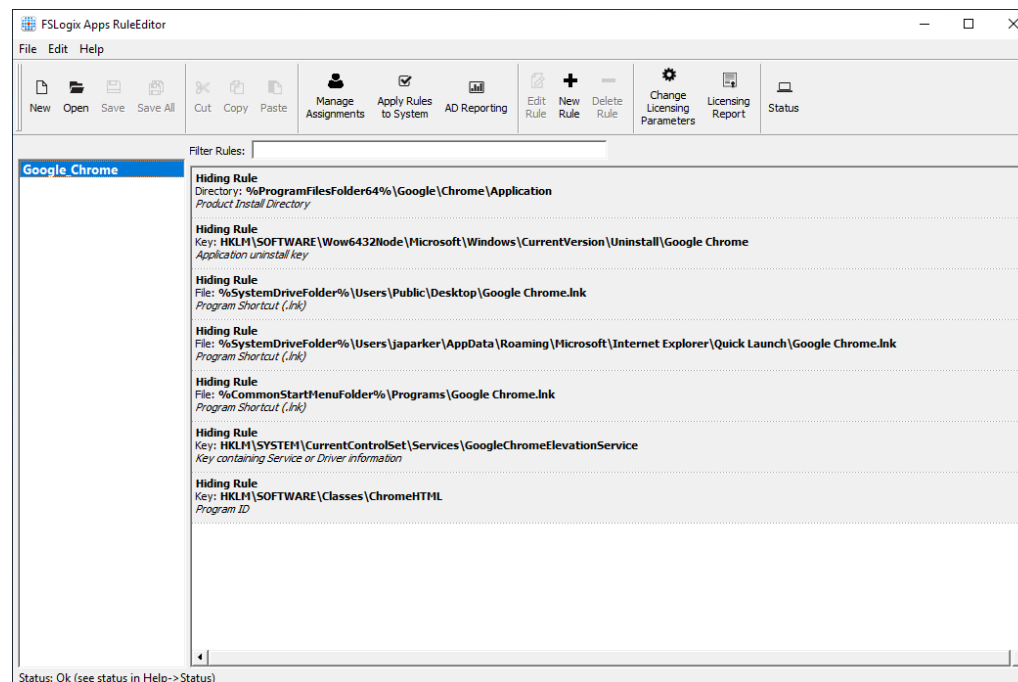
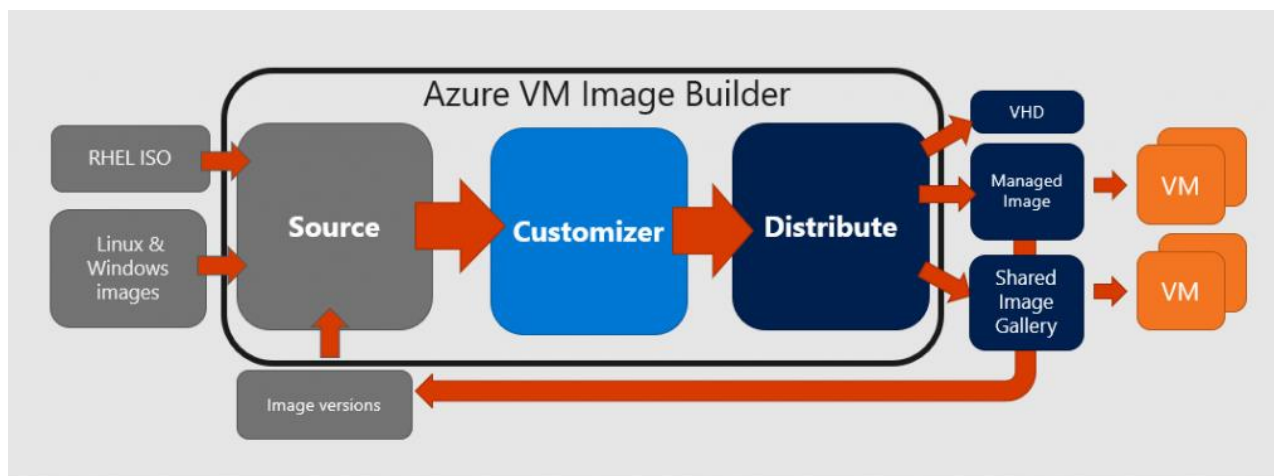
Golden Image

Variant 4



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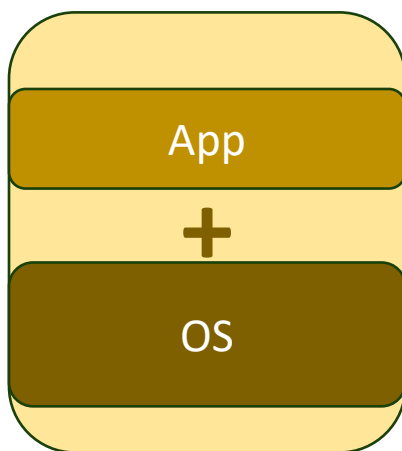


Golden Image

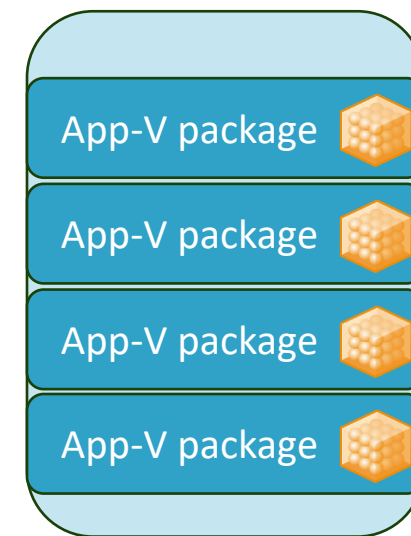


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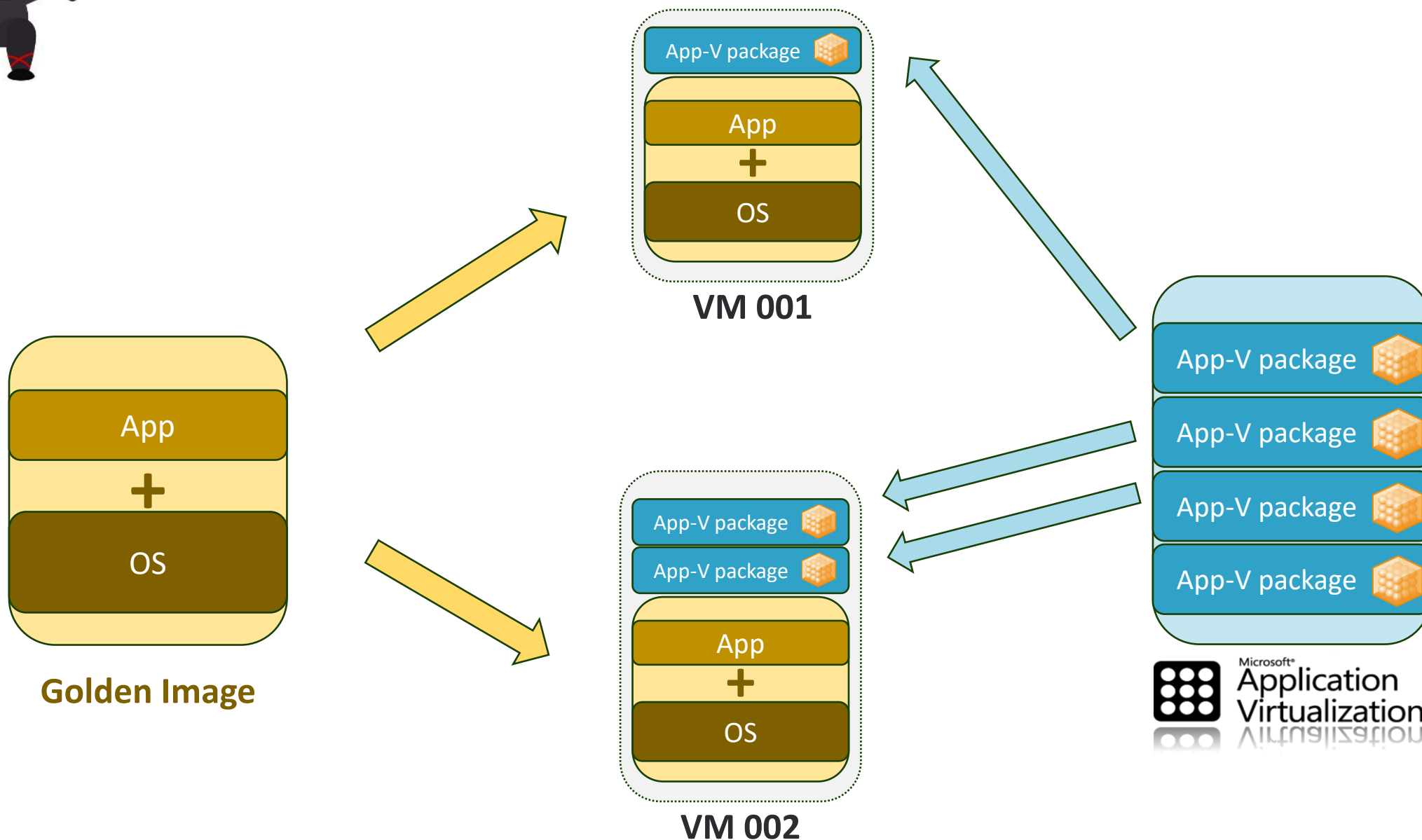
Golden Image





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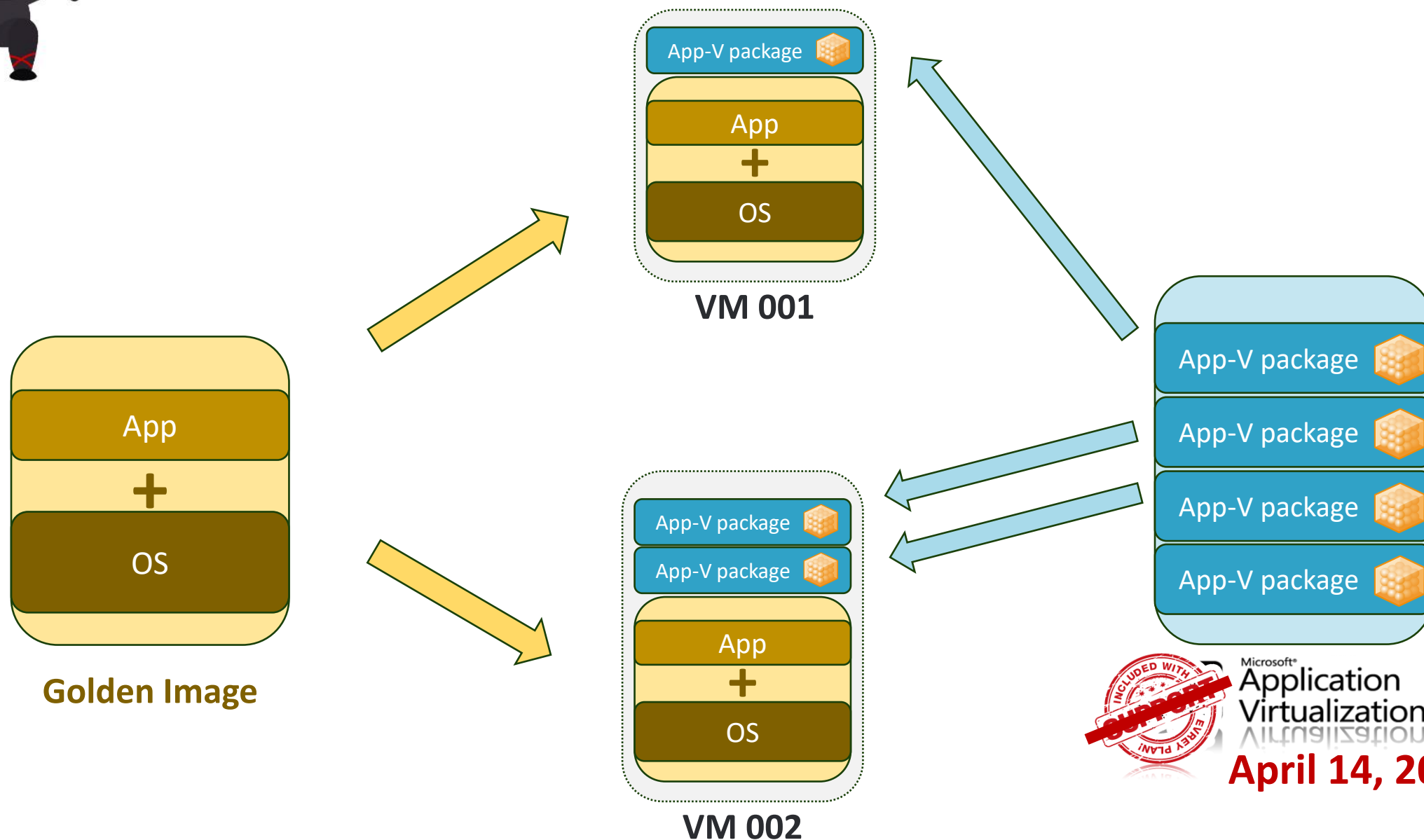
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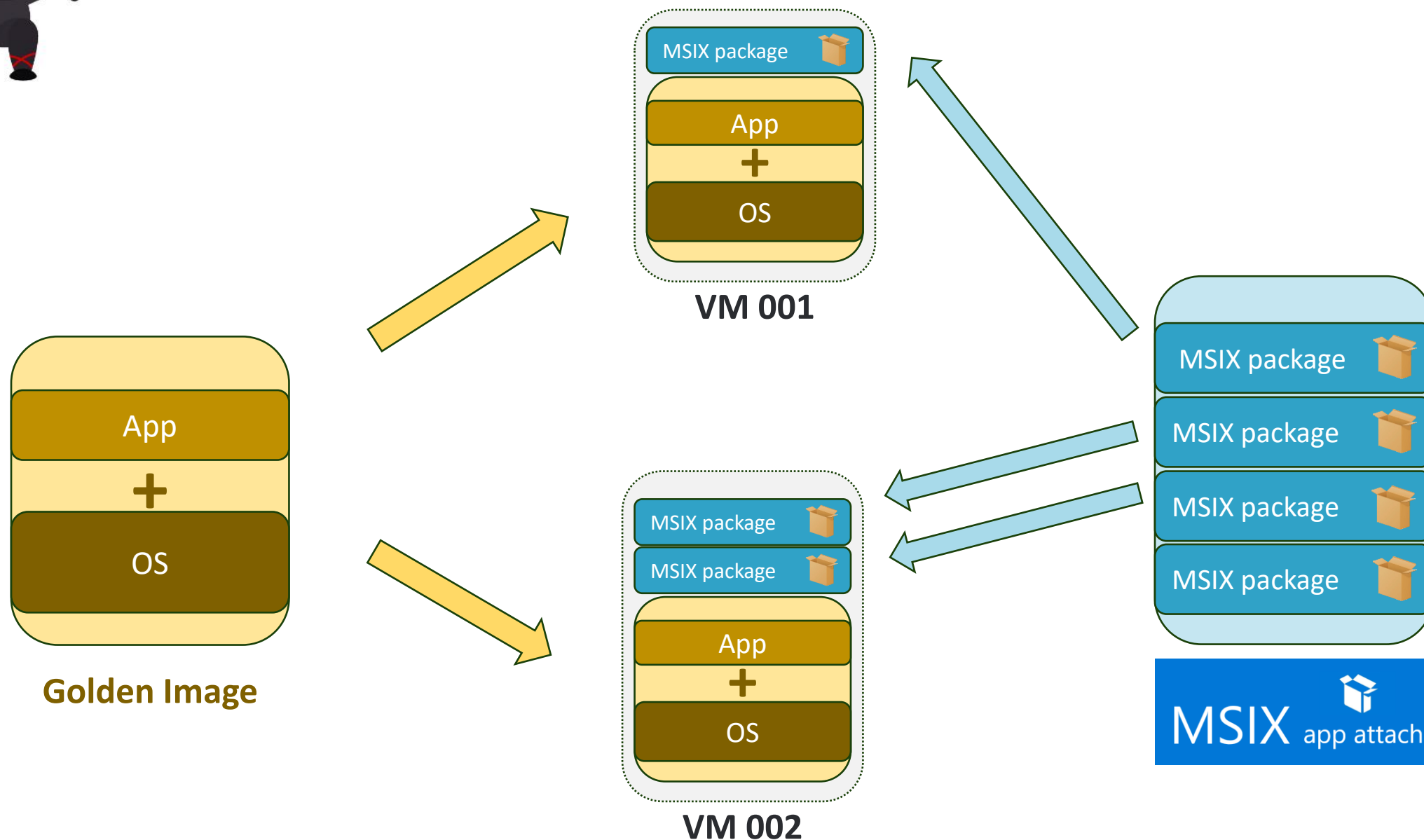
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How to get an MSIX application?

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App attach is an extracted MSIX application; it all starts with having an MSIX...

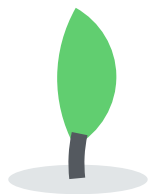
1. Ideally supplied by the application vendor. *Microsoft leading with Edge, Teams, Notepad*
2. Converting from MSI, EXE. *MSIX Packaging tool, 3rd party like appCURE, TMEEditX*
3. Download from the public store *winget download --id xxx*
4. Package an installed application *3rd party like appCURE, Rimo3, CloudHouse*





Evolution

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MSIX app attach
PowerShell only

2019

MSIX app attach

vs

app attach

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All desktop users see all MSIX app attach application

Applications might only run on one host pool.

Applications can only run on the host pool in which they're added.

To update you must delete and recreate the application with another version of the package.

Users can't run two versions of the same application

Telemetry for usage and health is not available through Azure Log Analytics.

Desktop users only see the app attach applications assigned to them.

The same application package can be used across multiple host pools.

Apps can run on any session host running a Win client OS

Applications can be upgraded to new versions without the need for a maintenance window.

Users can run two versions of the same application concurrently on the same session host.

Telemetry for usage and health is available through Azure Log Analytics.



Few other support statements

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Package type	File formats	Feature availability
MSIX and MSIX bundle	<code>.msix</code> <code>.msixbundle</code>	MSIX app attach App attach
Appx and Appx bundle	<code>.appx</code> <code>.appxbundle</code>	App attach only

Identity provider	Status
Microsoft Entra ID	Supported
Active Directory Domain Services (AD DS)	Supported
Microsoft Entra Domain Services	Not supported

Metric	VHD	CimFS
Average mount time	356 ms	255 ms
Average unmount time	1615 ms	36 ms
Memory consumption	6% (of 8 GB)	2% (of 8 GB)
CPU (count spike)	Maxed out multiple times	No effect

MSIX is a superset of Appx, and includes e.g. PSF

PSF is an open source kit to help applications follow the best practices of the modern runtime environment and fix issues.

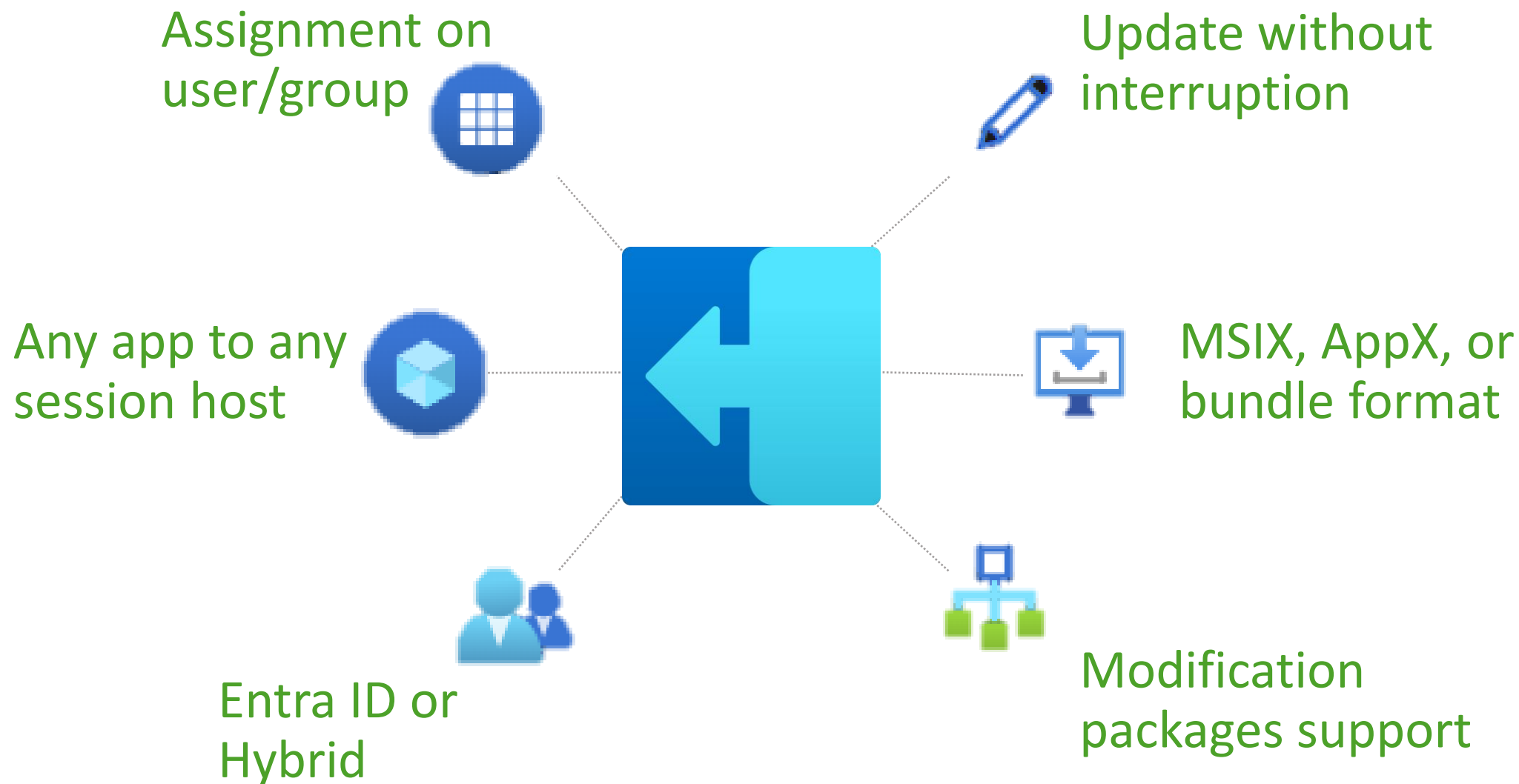
[Get Started with Package Support Framework](#)

CimFS images is faster than VHD and VHDX and consumes less CPU and memory. CimFS is recommended if session hosts are Windows 11.



app attach today

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Demo

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Power on contributing 😊

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MicrosoftDocs / azure-docs

Q Type to search

<> Code

Issues 1.7k

Pull requests 158

Security

Insights

Commit

✓ Update app-attach-overview.md

Browse files

Typo in the table. 'now available' should be 'not available' for MSIX app attach

main (#124312)

fberson committed 20 hours ago

Verified

1 parent 29ab14b commit 4d0823d

Showing 1 changed file with 1 addition and 1 deletion.

Whitespace Ignore whitespace Split Unified

articles/virtual-desktop/app-attach-overview.md

@@ -21,7 +21,7 @@ The following table compares MSIX app attach with app attach:

21 21 | Applications can only run on the host pool in which they're added. | Applications can run on any session host running a Windows client operating system in the same Azure region as the application package. |

22 22 | To update the application, you must delete and recreate the application with another version of the package. You should update the application in a maintenance window. | Applications can be upgraded to a new application version with a new disk image without the need for a maintenance window. |

23 23 | Users can't run two versions of the same application on the same session host. | Users can run two versions of the same application concurrently on the same session host. |

24 - | Telemetry for usage and health is now available through Azure Log Analytics. | Telemetry for usage and health is available through Azure Log Analytics. |

24 + | Telemetry for usage and health is not available through Azure Log Analytics. | Telemetry for usage and health is available through Azure Log Analytics. |

25 25

26 26 You can use the following application package types and file formats:

27 27

MSIX app attach

Applications are delivered using RemoteApp or as part of a desktop session. Permissions are controlled by assignment to application groups, however all desktop users see all MSIX app attach applications in the desktop application group.

Applications might only run on one host pool. If you want it to run on another host pool, you must create another package.

Applications can only run on the host pool in which they're added.

To update the application, you must delete and recreate the application with another version of the package. You should update the application in a maintenance window.

Users can't run two versions of the same application on the same session host.

Telemetry for usage and health is **now** available through Azure Log Analytics.

Users can run two versions of the same application concurrently on the same session host.

Telemetry for usage and health is available through Azure Log Analytics.



Shout out to Jim Moyle!

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JimMoyle / Community.AppAttach

<> Code Issues Pull requests Actions Projects Security Insights

Community.AppAttach Public

main 1 Branch 0 Tags

Go to file Add file

JimMoyle Path check for msix manager 2ced0e9 · 2 weeks ago

functions	Path check for msix manager
.gitignore	Signing function added and silent install started
CaaPack.cer	Adding and removing VMs and SSL changes
LICENSE	Initial commit
PrepPackMachine.ps1	Adding and removing VMs and SSL changes
README.md	Initial commit
SampleTemplate.xml	structure and move
SetupHost.ps1	Signing function added and silent install started
Start.ps1	Terminal
convert.ps1	new or update app attach working



github.com/JimMoyle/Community.AppAttach



What's next?

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Allow App-V packages to be supported by app attach

- Intended only as a migration option to
- This will not change the EOL date of App-V
- ETA: Coming Soon ;)



Conclusion

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Does app attach fundamentally change application delivery for AVD?

Is app attach the one solution that rules them all?

...?





We love Feedback

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Great Session!



Okay Session!



Not so okay Session!



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Thank You



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