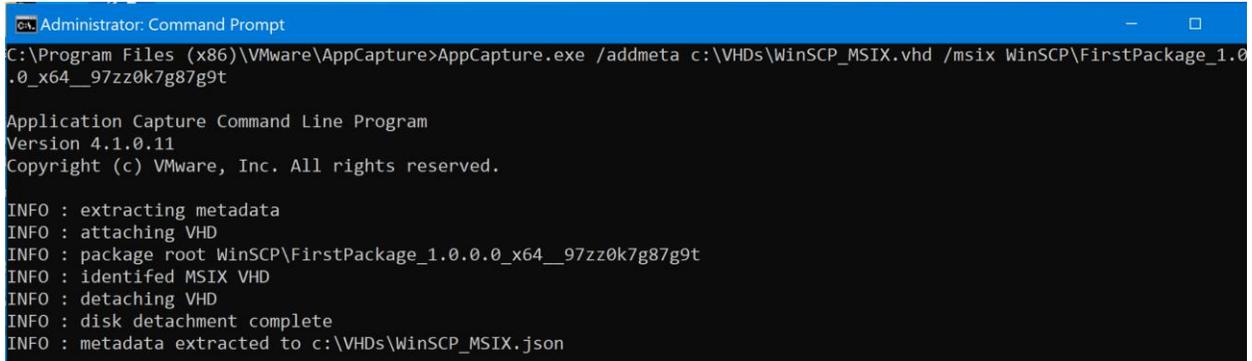


App Volumes Packaging Utility:

This App Volumes Packaging Utility helps to package applications. With this fling, packagers can add the necessary metadata to MSIX app attach VHDs so they can be used alongside existing AV format packages. The MSIX format VHDs will require App Volumes 4, version 2006 or later and Windows 10, version 2004 or later. This tool will not create MSIX app attach VHDs per se, it adds the needed metadata to the already created MSIX app attach VHDs.

Once the tool is installed, open an elevated command prompt and navigate to the tools installation location, which is generally, C:\Program Files (x86)\VMware\AppCapture



```
Administrator: Command Prompt
C:\Program Files (x86)\VMware\AppCapture>AppCapture.exe /addmeta c:\VHDs\WinSCP_MSIX.vhd /msix WinSCP\FirstPackage_1.0.0.0_x64__97zz0k7g87g9t

Application Capture Command Line Program
Version 4.1.0.11
Copyright (c) VMware, Inc. All rights reserved.

INFO : extracting metadata
INFO : attaching VHD
INFO : package root WinSCP\FirstPackage_1.0.0.0_x64__97zz0k7g87g9t
INFO : identified MSIX VHD
INFO : detaching VHD
INFO : disk detachment complete
INFO : metadata extracted to c:\VHDs\WinSCP_MSIX.json
```

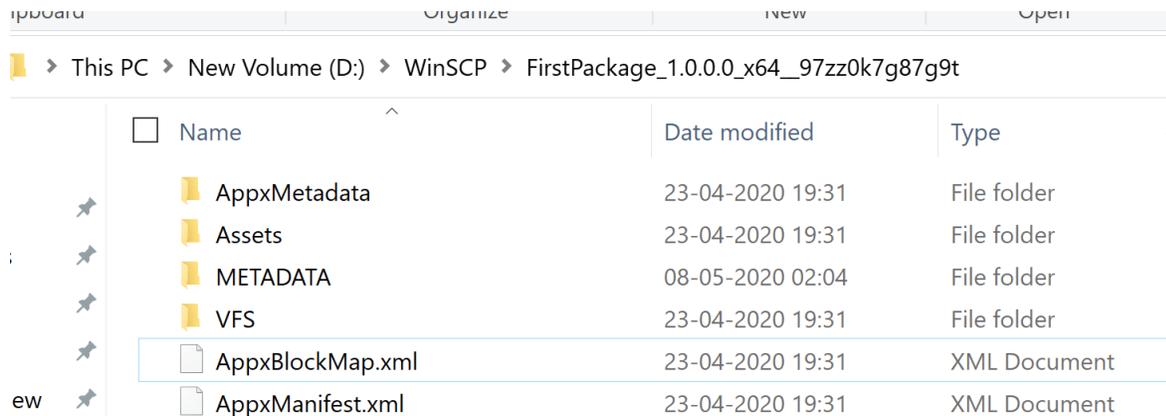
As pictured above, the command line syntax for the tool is

AppCapture.exe /addmeta <msixvhdfilename> /msix <packagerootpath>

msixvhdfilename – Full path of VHD (VHD shouldn't be mounted, during the operation the tool will mount the VHD)

packagerootpath – Package root of the MSIX appattach VHD.

In the above example, the package root is WinSCP\FirstPackage_1.0.0.0_x64__97zz0k7g87g9t. Package root is the path from the root of the VHD till the level where the MSIX package is un-packed. In the below bitmap, the package root is WinSCP\FirstPackage_1.0.0.0_x64__97zz0k7g87g9t



The tool creates .json file in the same location as the VHD (with the same name as VHD). This json file, along with the VHD, will be needed to import the MSIX app attach to App Volumes Manager. The json file will have the type field as "MSIX" as shown below.

```
"appstack" : {
  "volumeID" : "{4fc8f47b-a784-4a22-bb44-a040d961f8fd}",
  "applicationBundles" : {
    "count" : "1",
    "applicationBundle0" : {
      "guid" : "{e9181171-a355-466c-8128-d9d8af102942}",
      "name" : "winscp.url",
      "author" : "Mani",
      "description" : "WinSCP-Mani",
      "version" : "1.0.0.0",
      "notes" : "WinSCP-Mani",
      "type" : "MSIX",
      "packageroot" : "WinSCP\FirstPackage_1.0.0.0_x64__97zz0k7g87g9t",
      "operatingsystem" : {
        "osName" : "Microsoft Windows 10 Enterprise",
        "osProductType" : "4",
        "osVersion" : "10.0.18363",
        "osMajorVersion" : "10",
        "osMinorVersion" : "0",
        "osBuildNumber" : "18363",
        "osArchitecture" : "64-bit",
        "osLanguage" : "en-US English (United States)"
      }
    },
    "count" : "1",
    "apps" : [
      {
        "name" : "WinSCP 5.13.3",
        "version" : "5.13.3",
        "publisher" : "Martin Prikryl"
      }
    ]
  }
}
```

Importing the MSIX App Attach VHDs to the App Volumes Manager:

You can use App Volumes Manager to import MSIX app attach VHDs by using the Import Application functionality. You can copy the MSIX app attach VHDs to existing VHD file share configured with App Volumes Manager, then trigger an import operation or add a new file share (which contains the VHDs) in the App Volumes Manager which will import at the end of the operation. After importing the MSIX app attach VHDs, you can perform assignments using the App Volumes Manager.

FAQs:

- Can a MSIX app attach VHD contain more than one MSIX application package?
Only a single MSIX application package can be present within an MSIX app attach VHD.
- Which version of Windows 10 supports MSIX app attach delivery?
MSIX app attach VHD delivery is supported on Windows 10 2004 and later versions.
- How to create MSIX app attach VHDs?

Please refer <https://docs.microsoft.com/en-us/azure/virtual-desktop/app-attach>

The below screenshots of the App Volumes Manager UI can help one to add/use file shares.

Configuring VHDMoDe InGuestServices in the App Volumes Manager:

VMware App Volumes™

License AD Domains Admin Roles **Machine Managers** Storage Settings

Machine Managers

Register and configure in-guest services or leverage the performance of VMware vCenter Servers to deliver volumes.

Type: [VHD] In-Guest Services

Next

Adding a File Share to the App Volumes Manager:

VMware App Volumes™

License AD Domains Admin Roles **Machine Managers** **Storage** Settings

Storage

Add File Share Upload Templates Rescan

Configure storage options for Packages, Writable Volumes, and AppStacks.

Important Information:

- Use storage that is accessible to all virtual machine host servers.
- Local host storage may be used, but volumes will only be attached for VMs on that host.

Show 10

Name	UNC Path	Added
No file shares		

First Previous Next Last

Packages

Default Storage Location: Choose a storage location:

Default Storage Path: appvolumes/packages

Templates Path: appvolumes/packages_templates

Writable Volumes

Default Storage Location: Choose a storage location:

Default Storage Path: appvolumes/writable

Importing volumes to the App Volumes Manager after adding file share:

The screenshot shows the VMware App Volumes Storage configuration interface. At the top, there are tabs for License, AD Domains, Admin Roles, Machine Managers, Storage, and Settings. The Storage tab is active, showing buttons for 'Add File Share', 'Upload Templates', and 'Rescan'. Below this, there is a section for 'Storage' with instructions to configure options for Packages, Writable Volumes, and AppStacks. An 'Important Information' section lists two points: using accessible storage for all host servers and that local storage is only for VMs on that host. A table lists file shares, with one entry: 'VHDSHare' at path '\\10.112.19.31\VHDSHare' added on '2020-07-02 10:28:42 UTC'. Below the table are 'Packages' and 'Writable Volumes' configuration sections. A 'Confirm Storage Settings' dialog box is overlaid, showing default storage locations for Packages and Writable Volumes, and options to 'Import volumes in the background' (selected) or 'Import volumes immediately'. A 'Set Defaults' button is in the dialog.

Importing volumes to App Volumes Manager from existing file shares

The screenshot shows the 'Import Applications' form in the VMware App Volumes Manager. The top navigation bar includes 'INVENTORY', 'DIRECTORY', 'INFRASTRUCTURE', 'ACTIVITY', and 'CONFIGURATION'. Below this, there are tabs for 'Applications', 'Packages', 'Programs', 'Assignments', 'Attachments', and 'Writables'. The 'Applications' tab is active. The form title is 'Import Applications' with the instruction 'Create Applications by importing VMDK files from the selected datastores.' The form has two input fields: 'Storage:' with a dropdown menu set to 'Individual Storage: \\10.112.19.31\VHDSHare (Shared)' and 'Path:' with a text input field containing 'appvolumes/packages'. An 'Import' button is located at the bottom right of the form.