dnaspider@live.com

DesktopAppConverter Notes (dna.appx)

Download test .cer (info.txt):
https://1drv.ms/f/s!Ahtlv_yZlgKi9xXTt4ZAJasNnqWd

DesktopAppConverter link:

https://msdn.microsoft.com/en-us/windows/uwp/porting/desktop-to-uwp-run-desktop-app-converter

- Download desktopappconverter (desktop app converter) store app
- Download BaseImage-xxxxxx.wim matching version xxxxx
- To Find version: press Win key type `System information`, enter, on second line where it says version, Build xxxxx. Match with BaseImage-xxxxxx.wim download from link above
- Create folder in downloads named `desktopappconverter`
- Drag .wim in there
- Create these folders in desktopappconverter: `installer`, `dna`
- Drag dna_setup.msi into c:/users/dziez/downloads/desktopappconverte/installer and dna.exe into c:/dna
- Right click desktopappconverter app and run as administrator
- (First run setup: copy bullet press enter)
- cd c:/users/dziez/downloads/desktopappconverter
- Set-ExecutionPolicy bypass
- DesktopAppConverter.exe -Setup -BaseImage .\BaseImage-14393.wim -Verbose
- Y + enter when finished to restart
- Let the operation run (takes some time)
- Close dac and reopen in administrator
- cd c:/users/dziez/downloads/desktopappconverter
- DesktopAppConverter.exe -Installer .\installer\dna_setup.msi -InstallerArguments "/passive" -Destination .\dna -PackageName "dna" -Publisher "CN=dnaspider@live.com" -Version 2.2.4.2 -AppExecutable "c:\dna\dna.exe" -Verbose

//

From link and from store:

download desktopappconverter.zip*,

download desktopappconverter store app,
download baseimage matching version xxxxx (win key `System information`, version, Build xxxxx |
"about" to see os build),
extract zip,
move base image to extracted folder (BaseImage-14393.wim),
make new folder "installer",
drag your apps .msi setup package in there

First run setup (.zip):
start menu -> right click desktopappconverter run as admin

cd c:/users/dziez/downloads/desktopappconverter

Set-ExecutionPolicy bypass

.\DesktopAppConverter.ps1 -Setup -BaseImage .\BaseImage-14393.wim -Verbose

(restart computer if it tells you then reopen DAC in admin)

Already setup:
DesktopAppConverter

cd c:/users/dziez/downloads/desktopappconverter

.\DesktopAppConverter.ps1 -Installer .\installer\dna_setup.msi -InstallerArguments "/passive" -Destination .\dna -PackageName "dna" -Publisher "CN=dnaspider@live.com" -Version 2.2.1.0 -AppExecutable "c:\dna2\dna.exe" -sign -MakeAppx -Verbose

v2
-Extract DAC to downloads (C:\Users_?_\Downloads\DesktopAppConverter)
-Create folder (C:\Users_?_\Downloads\installer)
-Drag setup.msi to installer folder
-Create folder (C:\Users_?_\Downloads\dna) or make sure its empty
-Folders and files should exist if not create them:
        c:\cert\mykey0.cer (see create certificate)
        c:\dna2\dna.exe ?
        C:\Users_?_\Desktop\dnaout
        C:\Users_?_\Desktop\dnaout\PackageFiles
-Open DAC as administrator *and* run commands:
        cd c:/users/dziez/downloads/desktopappconverter (press enter)

        .\DesktopAppConverter.ps1 -Installer .\installer\dna_setup.msi -InstallerArguments "/passive" -Destination .\dna -PackageName "dna" -Publisher "CN=dnaspider@live.com" -Version 2.2.1.0 -AppExecutable "c:\dna2\dna.exe" -Verbose

-From contents from C:\Users_?_\Downloads\DesktopAppConverter\dnadownloads\dna to
C:\Users_?_\Desktop\dnaout\PackageFiles (so everything sits in there).
-Make changes to Assets (edit .png files) and AppxManifest.xml
-New AppxManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<Package xmlns="http://schemas.microsoft.com/appx/manifest/foundation/windows10"
xmlns:uap="http://schemas.microsoft.com/appx/manifest/uap/windows10"
xmlns:uap2="http://schemas.microsoft.com/appx/manifest/uap/windows10/2"
xmlns:uap3="http://schemas.microsoft.com/appx/manifest/uap/windows10/3"
xmlns:rescap="http://schemas.microsoft.com/appx/manifest/foundation/windows10/restrictedcapabilities"
xmlns:desktop="http://schemas.microsoft.com/appx/manifest/desktop/windows10">
  <Identity Name="dna" ProcessorArchitecture="x64"
Publisher="CN=dnaspider@live.com" Version="2.2.51.0" />
  <Properties>
   <DisplayName>dna</DisplayName>
   <PublisherDisplayName>dnaspider@live.com</PublisherDisplayName>
   <Logo>Assets\dna.50x50.png</Logo>
  </Properties>
  <Resources>
   <Resource Language="en-us" />
  </Resources>
  <Dependencies>
   <TargetDeviceFamily Name="Windows.Desktop" MinVersion="10.0.14393.0"
MaxVersionTested="10.0.14393.0" />
  </Dependencies>
  <Capabilities>
   <rescap:Capability Name="runFullTrust" />
  </Capabilities>
  <Applications>
   <Application Id="dna" Executable="VFS\dna\dna.exe"
EntryPoint="Windows.FullTrustApplication">
     <uap:VisualElements DisplayName="dna" Description="dna"
BackgroundColor="#777777" Square150x150Logo="Assets\dna.150x150.png"
Square44x44Logo="Assets\dna.44x44.png" />
     <Extensions />
   </Application>
  </Applications>
</Package>
```

-Create then Run pack.bat:
-Create pack.bat (right click on the desktop, New, Text Document and name it pack.bat and paste
following contents. Might have to adjust folder options to show file name extensions. Win+E, Alt,
V, HF, or View tab, Check file name extensions.)

```
cd c:\users\_?_\desktop\dnaout\PackageFiles
```

del dna.appx

cd C:\Program Files (x86)\Windows Kits\10\bin\x64

makeappx.exe pack -d c:\users_?_\desktop\dnaout\PackageFiles -p c:\users_?_\desktop\dnaout\PackageFiles\dna.appx

SignTool sign /fd SHA256 /a /f C:\CERT\MyKey0.pfx C:\Users_?_\Desktop\dnaout\packagefiles\dna.appx

explorer C:\Users_?_\Desktop\dnaout\PackageFiles
-Install certificate c:\cert\mycert.cer (see Install certificate.cer):
-Install appx (click dna.appx)
//v2

After first setup:
Drag newly created PackageFiles folder to desktop folder dnaout

Update Assets:
Add dna.44x44.png, dna.50x50.png, dna150x150.png images to dnaout -> Assets folder

Update AppxManifest.xml:
Replace (ctrl + h) SampleAppx with dna
Update Version="2.2.3.0" number

Create new certificate:
cd c:\

md CERT

CD C:\Program Files (x86)\Windows Kits\10\bin\x64

MakeCert /n "cn=dnaspider@live.com" /r /h 0 /eku "1.3.6.1.5.5.7.3.3,1.3.6.1.4.1.311.10.3.13" /e 10/12/2017 /sv "C:\CERT\MyKey.pvk" "C:\CERT\MyKey.cer"

Pvk2Pfx /pvk c:\cert\MyKey.pvk /spc c:\cert\MyKey.cer /pfx c:\cert\MyKey.pfx

Pvk2Pfx:
// Pvk2Pfx /pvk c:\cert\MyKey.pvk /pi thePassword /spc c:\cert\MyKey.cer /pfx c:\cert\MyKey.pfx
// no pw:
//Pvk2Pfx /pvk c:\cert\MyKey.pvk /spc c:\cert\MyKey.cer /pfx c:\cert\MyKey.pfx
// SignTool sign /fd SHA256 /a /f C:\CERT\MyKey0.pfx
C:\Users\dziez\Downloads\DesktopAppConverter\dna\dna.appx

Install Certificate:

      Install MyKey.cer to local, trusted root cetertfication authority to install new .appx

Install certificate.cer:

      Click MyKey.cer file
      Install Certificate…
      Local Machine
      Next
      Yes
      Place all certificates in the following store
      Browse
      Trusted Root Certification Authorities or Trusted People
      Ok

Make new appx:

      Run pac.bat from desktop or
      create new .txt file on desktop named pac.bat
      Right click edit pac.bat in notepad and place following contents:

```
cd c:\users\dziez\desktop\dnaout\PackageFiles

del dna.appx

cd C:\Program Files (x86)\Windows Kits\10\bin\x64

makeappx.exe pack -d c:\users\dziez\desktop\dnaout\PackageFiles -p
c:\users\dziez\desktop\dnaout\PackageFiles\dna.appx

SignTool sign /fd SHA256 /a /f C:\CERT\MyKey0.pfx
C:\Users\dziez\Desktop\dnaout\packagefiles\dna.appx

pause
```

Pac.bat notes:

      Files on desktop:
      pack.bat
      dnaout (folder)

      Cert folder in c:/
      cert > key.pfx

Make new appx:

If pac.bat success, and (click) mykey.cer from c:\cert is installed to local, certification authorities then new .appx install in dnaout is ready to install
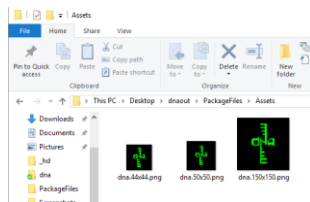
Misc.
// install auto-generated.cer -> local user -> trusted root certification authorities
// install .appx

//x86 package
- In Visual studio 2017 in Product.wxs change <Directory Id="ProgramFilesx86Folder"> to <Directory Id="ProgramFilesFolder"> and <File Source="C:\Users_ace\Documents\dnaspider\bin\release\dna.exe" (or debug)
- In Visual studio 2017, Solution Explorer, My Project, Compile, Target CPU, AnyCPU (x86)
- In Visual studio 2017, Solution Explorer, dna_setup, Build
- In Visual studio 2017, bin\Release\dna_setup.msi (move .msi to DesktopAppConverter\installer\dna_setup.msi)
- Move new dna.exe to c:/dna2.exe
- Run DAC in administrator
- DAC
- cd c:/users/_ace/downloads/desktopappconverter
- .\DesktopAppConverter.ps1 -Installer .\installer\dna_setup.msi -InstallerArguments "/passive" -Destination .\dna -PackageName "dna" -Publisher "CN=dnaspider@live.com" -Version 2.2.1.0 - AppExecutable "c:\dna2\dna.exe" -Verbose
- In Desktop\dnaout\PackageFiles delete VFS, dna.appx, Registry.dat
- From DesktopAppConverter\dna copy VFS and Registry.dat to Desktop\dnaout\PackageFiles
- Desktop\dnaout\PackageFiles\AppxManifest.xml = AppxManifest from above
- Update Assets:
  -
- AppxManifest.xml ProcessorArchitecture="x86" (change x64 to x86)
- Desktop\dnaout\PackageFiles\VFS\dna\dna.exe (add dna folder and dna.exe)
- Run new pack_x86.bat:
    cd c:\users_ace\desktop\dnaout\PackageFiles

    del dna.appx

    cd C:\Program Files (x86)\Windows Kits\10\bin\x86

    makeappx.exe pack -d c:\users_ace\desktop\dnaout\PackageFiles -p c:\users_ace\desktop\dnaout\PackageFiles\dna.appx

SignTool sign /fd SHA256 /a /f C:\CERT\MyKey0.pfx
C:\Users_ace\Desktop\dnaout\packagefiles\dna.appx

explorer C:\Users_ace\Desktop\dnaout\PackageFiles

//x86 package

.appx smallest package:
    -dnaout: keep only Assets, and AppxManifest.xml
    -VFS: keep only dna/dna.exe & dna/dna.exe.config
    -Exclude all other files

Links and setup:
    -win + break, change product key, Windows 10 Pro
    -win, developer, for developer settings, developer mode
    -Outlook.com, create new account
    https://docs.microsoft.com/en-us/windows/uwp/publish/opening-a-developer-account

    Download and install:
    -https://www.visualstudio.com/vs/
    -https://developer.microsoft.com/en-US/windows/downloads/windows-10-sdk
    x-https://www.xamarin.com/download
    -http://wixtoolset.org/releases/
    https://wix.codeplex.com/releases/view/624906

    Windows 10 (1607 Anniversary Update) DAC
    -Windows store: search and download 'desktop app converter'
    -https://www.microsoft.com/en-us/download/details.aspx?id=51691 (download 'Desktop App
    Converter Preview (Project Centennial)' from here also)
    -aka.ms/converterimages (download .wim image)
    https://www.microsoft.com/en-us/download/details.aspx?id=54758
    BaseImage-14393.wim (Anniversary Update)
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