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:

 $download\ desktop app converter. zip *,$

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 (Baselmage-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/restricte
```

```
dcapabilities"
xmlns:desktop="http://schemas.microsoft.com/appx/manifest/desktop/windows10">
 <Identity Name="dna" ProcessorArchitecture="x64" <a href="Publisher="CN=dnaspider@live.com"</a>
Version="2.2.4.4" />
 <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"</p>
MaxVersionTested="10.0.14393.0" />
 </Dependencies>
 <Capabilities>
  <rescap:Capability Name="runFullTrust" />
 </Capabilities>
 <Applications>
  <Application Id="dna" Executable="VFS\dna\dna.exe"</pre>
EntryPoint="Windows.FullTrustApplication">
   <uap:VisualElements DisplayName="dna" Description="dnaspider"
BackgroundColor="#000000" 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.)
 32PackageFiles
 64PackageFiles

    32.bat

64.bat
     cd c:\users\_?_\desktop\dnaout\64PackageFiles
     del dna.appx
     cd C:\Program Files (x86)\Windows Kits\10\bin\x64
     makeappx.exe pack -d c:\users\_?_\desktop\dnaout\64PackageFiles -p
     c:\users\_?_\desktop\dnaout\64PackageFiles\dna.appx
```

```
SignTool sign /fd SHA256 /a /f C:\CERT\dnaspider.pfx C:\Users\_?_\Desktop\dnaout\64PackageFiles\dna.appx explorer C:\Users\_?_\Desktop\dnaout\64PackageFiles
```

pause

-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

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

//PVKZPIX / pvk C:\cert\iviykey.pvk / Spc C:\cert\iviykey.cer / pix C:\cert\iviykey.pi

// SignTool sign /fd SHA256 /a /f C:\CERT\MyKey0.pfx

C:\Users_?_\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

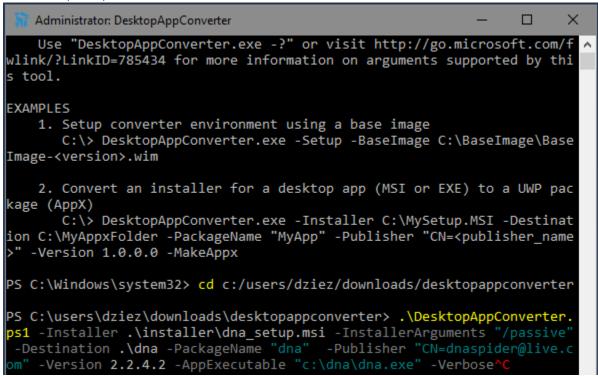
```
Yes
      Place all certificates in the following store
      Trusted Root Certification Authorities or Trusted People
      Ok
Make new appx:
      Run pac.bat from desktop or
      create new .txt file on desktop named pac.bat
      Right click edit pac.bat in notepad and place following contents:
      cd c:\users\_?_\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\dziez\desktop\dnaout\PackageFiles\dna.appx
      SignTool sign /fd SHA256 /a /f C:\CERT\MyKey0.pfx
      C:\Users\_?_\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\_?_\Documents\dnaspider\bin\release\dna.exe"
```

- In Visual studio 2017, Solution Explorer, My Project, Compile, Target CPU, AnyCPU (x86)
- In Visual studio 2017, Solution Explorer, dna setup, Build

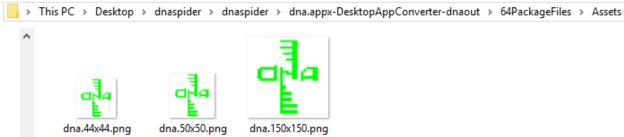
(or debug)

Next

- 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/_?_/downloads/desktopappconverter
- \DesktopAppConverter.ps1 -Installer \\installer\dna_setup.msi -InstallerArguments "/passive" Destination .\dna -PackageName "dna" -Publisher "<u>CN=dnaspider@live.com</u>" -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 (**32.bat**):

cd c:\users_?_\desktop\dnaout\PackageFiles

del dna.appx

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

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

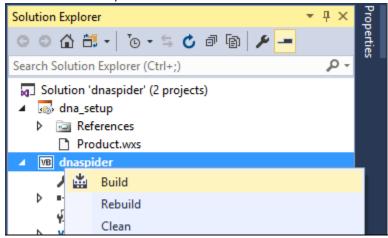
SignTool sign /fd SHA256 /a /f C:\CERT\MyKey0.pfx C:\Users_?_\Desktop\dnaout\packagefiles\dna.appx

explorer C:\Users_?_\Desktop\dnaout\32PackageFiles

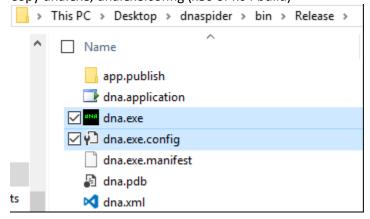
//x86 package

//Update x86 or x64 dna.appx from dnaout (small package size)

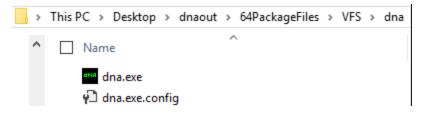
Visual Studio 2017, Build



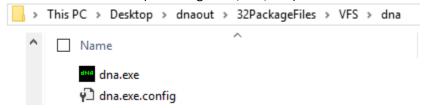
Copy dna.exe, dna.exe.config (x86 or x64 build)



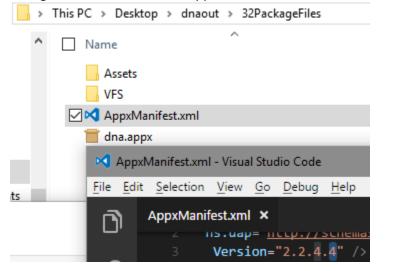
Paste to dnaout folder (64PackageFiles/VFS/dna)



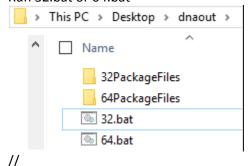
Paste to dnaout folder (32PackageFiles/VFS/dna)



Change version number from AppxManifest.xml



Run 32.bat or 64.bat



.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

Baselmage-14393.wim (Anniversary Update)

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