Required – Windows assessment and deployment Kit.   
 http://www.microsoft.com/en-us/download/details.aspx?id=39982

* Creating and managing WINPE boot key.
* <https://technet.microsoft.com/en-us/library/hh825109.aspx>
* Follow link above for documentation on creating and bootable usb drive and adding drivers.

**Sync.bat Batch file –**

**This file called after winpe has completed loading. The commands in this file initializes the network settings and sets ip and subnets. The ip range being used is 169.254.0.0 to 169.254.255.255. This is the APIPA (automated private ip addressing). Incase an error occurs network cards can automatically be assigned an ip in this range when a dhcp server is not preset on the network and the NIC card cannot attain a valid IP. Thus using this ip range was an excellent failsafe for allowing the units being imaged and the server to communicate via ip on the same subnet. Units must be within the same subnet (255.255.0.0) to communicate with server**

@echo off

setlocal EnableDelayedExpansion [Allows the use of recursive calls]

SET count=10

Set TIME=0

Set TIM=3

netcfg –winpe [loads support for networking]

wpeutil InitializeNetwork [Winpe utility that initializes network/wireless]

netsh interface ipv4 set address "Ethernet" static 169.254.255.9 255.255.0.0

[Temporarily assigning the Ethernet adaptor with ip address 169.254.255.9 and on the subnet 255.255.0.0]

goto :T

:T [Subroutine to assign a valid ip address starting from 169.254.255.10]

set /A count+=1 [Increments count by 1]

set "delay=1" seconds

[next 2 lines are a work around to add a delay due to lack of sleep/pause commands in winpe]

set /a delay+=1

ping 127.0.0.1 -n %delay% > nu

for /f %%i in ('ping -n 1 169.254.255.%count% ^| find /c "(0%% loss)"') do SET MATCHES=%%i

[ping loop to determine if the current ip is taken or not, using % loss of packets]

if %MATCHES% == 1 goto :x

if %MATCHES% == 0 goto :T

goto :eof [call to end subroutine]

:x [subroutine to use new valid ip instead of temp]

netsh interface ipv4 set address "Ethernet" static 169.254.255.%count% 255.255.0.0 [ip as new valid ip]

goto :V

:V [subroutine to sync to nuc image server ]

echo IP Address set!

set "delay=5" seconds

set /a delay+=1

ping 127.0.0.1 -n %delay% > nu

net use z: \\THESERVER-PC\image /user:Admin ""

[command to sync to server. Z is just arbitrary letter used to map drive, which will later be used to access the drive. If this is changed, image.bat must also be changed. ]

echo Sync to Image server!

goto :eof

**Nuc Server Image.bat –**

**The image.bat file located in the mapped drive of the image server lists images available. It uses a combination of loops to list and prompt users to choose an image based on number. The final part of the image.bat is the original image.bat file for careworx keys. However in this variation it accepts an argument from previous subroutines in the script to begin imaging the selected image.**

@echo off

setlocal EnableDelayedExpansion

SET count=1

SET Co=1

SET B=B

echo \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

echo \*\*\*\*\*\*\*\*\*\*\*\*Avalue Image Station\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

echo \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

echo

goto :Start

:Start

FOR %%G IN (\*.wim) DO call :L %%G [Loop to list all .wim files that calls subroutine L after each file]

Set /p K=Select Image and press enter. [Prompt asking for input of image number to select]

FOR %%G IN (\*.wim) DO call :List %%G [loop assign number to correct selected image file.]

GOTO :eof

:L [Subroutine to assign a number to each image file.]

echo %count% %1

set /A count+=1

Goto :eof

:Pick [not used]

REM set /A M=%count% [Rem is used to comment]

REM call :Pick %%count

Goto :eof

:List [Used to assign number to selected image]

if %K%==%Co% (Call :Check %1)

Set /a Co+=1

Goto :eof

:Check

Set /p V=You selected %1 Image. Is this correct?(Y/N)

if "%v%" == "n" (goto :Start)

if "%v%" == "no" (goto :Start)

if "%v%" == "y" (goto :Image %1)

if "%v%" == "yes" (goto :Image %1)

Goto :eof

:Image

[similar to image.bat that was used in careworx keys. However the Z is the location of the image file (assigned from sync.bat)]

echo Partitioning in progress...

start /wait diskpart /s boot.txt

[boot.txt contains disk portioning information, this file needs to be in same folder with batch file]

echo Imaging in progress...

imagex.exe /apply z:\%1 1 c:\

bcdedit /set {default} device partition=C:

bcdedit /set {default} osdevice partition=C:

echo Done!

wpeutil reboot

Goto :eof