The Queen's College IT Open Morning

Microsoft Deployment Toolkit

What does it do?

- Deploy Windows Operating Systems
- Initial Installation of Applications
- Can be run from
  - PXE Server (network boot) + Network Share
  - USB/DVD + Network Share
  - USB/DVD standalone
- Single OS Image (with or without modification)
- Driver packs from OEMs like Dell, Lenovo and HP Inc.

Alternatives…

- Windows Deployment Services (without MDT)
- Manage Engine OS Deployer
- Altiris (OSD element)
- System Centre Configuration Manager (OSD element)
- Ghost
- KACE (OSD element)
- and many others

Installation (the Oxford way!)

- New VM – pretty much a file server
- Install prerequisites
  - ADK
  - WDS
    - DHCP
- MDT Install
- OS Image
- Dell Driver Packs
- Applications
- Build boot image

ADK Download

https://developer.microsoft.com/en-us/windows/hardware/windows-assessment-deployment-kit

https://developer.microsoft.com/en-us/windows/t | Windows ADK downloads -... ✕

Customize, assess, and deploy Windows on your hardware

Download the Windows ADK for Windows 10, version 1709, to get the new and improved deployment and provisioning tools used to automate a large-scale deployment. The Windows ADK includes:

- The Windows Assessment Toolkit and the Windows Performance Toolkit to assess the quality and performance of systems or components.

- Deployment tools such as WinPE, Sysprep, DISM and other tools that you can use to customize and deploy Windows 10 images.

Download now

Other ADK downloads

Windows ADK for Windows 10, version 1703

You must use Windows 10, version 1703, with this version of the Windows ADK and the Windows 10 IoT Core ADK Add-Ons for version 1703.
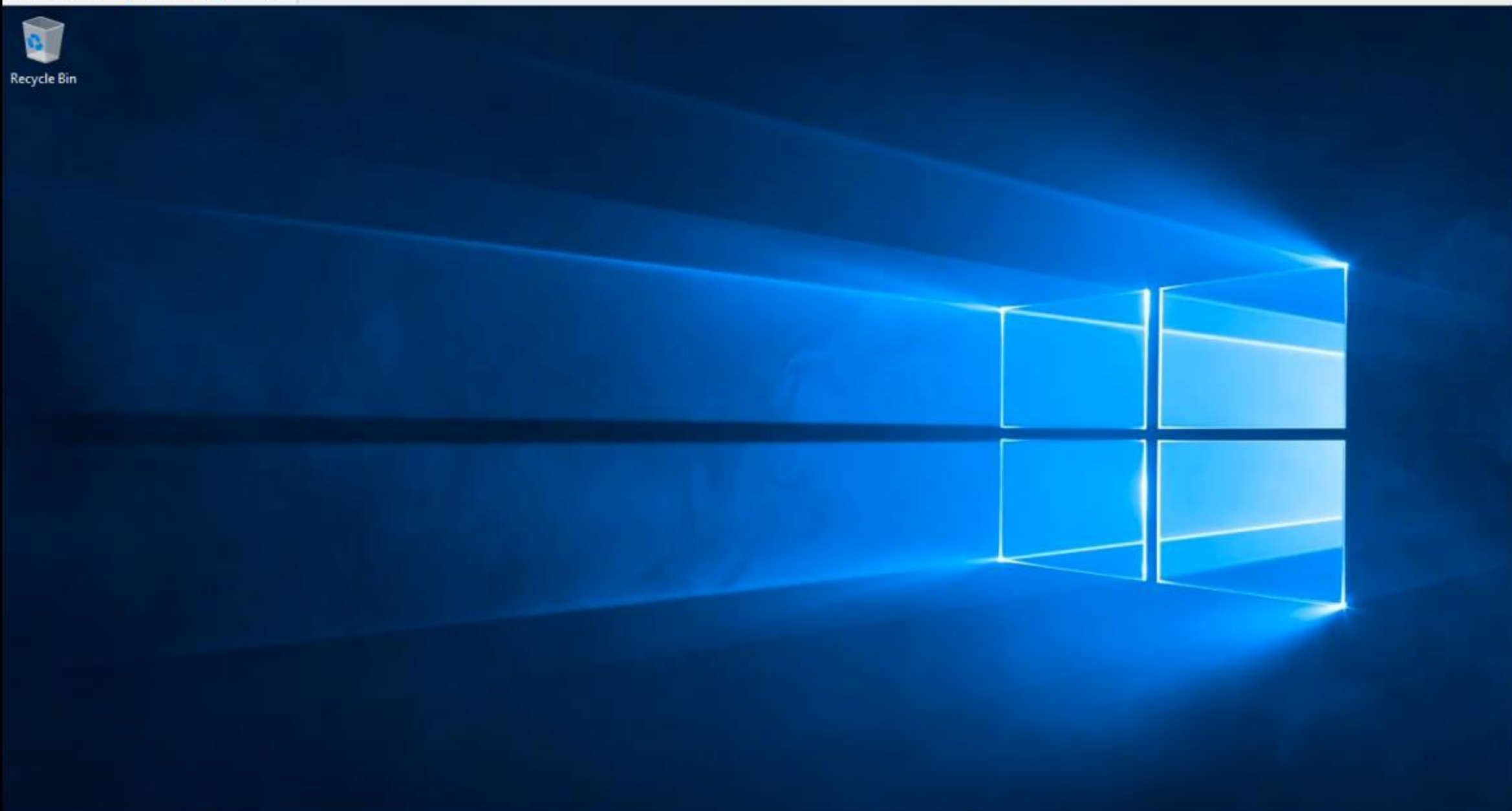
Learn more   Download now

Windows ADK for Windows 10, version 1607

You must use Windows 10, version 1607, with this version of the Windows ADK and the Windows 10 IoT Core ADK Add-Ons for version 1607.
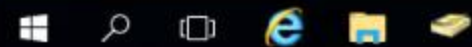
Learn more   Download now

Recycle Bin

Status: Running

16:27
06/12/2017

Active Directory Users and Computers

Active Directory Users and Computers [KC-DC01.kings.ox.ac.uk]

Name	Type	Description

There are no items to show in this view.

- Saved Queries
- kings.ox.ac.uk
  - Builtin
  - Computers
  - Domain Computers
  - Domain Controllers
  - Domain Servers
  - Domain Users
    - Service Accounts
    - Staff
    - Students
  - ForeignSecurityPrincipals
  - Keys
  - LostAndFound
  - Managed Service Accounts
  - Program Data
  - System
  - Users
  - NTDS Quotas
  - TPM Devices

MDT PowerShell User Script

https://gallery.technet.microsoft.com/Configure-permissions-in-2326651a

https://gallery.technet.microsoft.com/Configure-permissions-in-2326651a

TechNet Configure permiss... ✕

Microsoft

TechNet

Search TechNet with Bing

United States (English) ▾   Sign in

Home   Library   Wiki   Learn   **Gallery**   Downloads   Support   Forums   Blogs

Resources for IT professionals > Gallery > Operating System > Configure permissions in Active Directory for Windows deployment account

Try Out the Latest Microsoft Technology

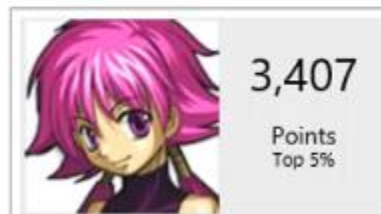# Configure permissions in Active Directory for Windows deployment account

The Set-OUPermissions script creates a domain account and then configures OU permissions to allow the account to join machines to the domain in the specified organization unit (OU).

Quick access

My contributions

Upload a contribution

Download   Set-OUPermissions.zip

Ratings	★★★★★ (14)	Updated	4/6/2016
Downloaded	12,639 times	License	TechNet terms of use
Favorites	Add to favorites	Share	✉ 🐦 ▪ 🔖 f
Category	Operating System		
Sub-category	Processes		
Tags	Operating System Deployment, MDT, Windows 8.1, MDT 2013		

3,407

Points
Top 5%

Heather Poulsen

Joined Feb 2009

View contributions

Show activity

Report abuse to Microsoft

Description

MDT Website

https://technet.microsoft.com/en-us/windows/dn475741.aspx

TN https://technet.microsoft.com/en-US/windows/dn

TN Microsoft Deployment Tool...

Microsoft   Microsoft 365   Azure   Office 365   Dynamics 365   SQL   Windows 10   More   Sign in

Windows IT Pro Center   Explore   Docs   Downloads   Scripts   Support

Microsoft Deployment Toolkit

The Microsoft Deployment Toolkit (MDT) provides a unified collection of tools, processes, and guidance for automating desktop and server deployments. In addition to reducing deployment time and standardizing desktop and server images, MDT offers improved security and ongoing configuration management.

News and highlights

Microsoft Deployment Toolkit (MDT), build 8443 now available

Moving forward, MDT will be updated to align with the current branches of Windows 10 and System Center Configuration Manager. Find out which branches of Windows 10 and Configuration Manager are supported, and what to expect with regard to updates of the toolkit moving forward.

Download the toolkit

Microsoft Deployment Toolkit (8443)

MDT, build 8443 is the newest version of the Microsoft Deployment Toolkit and offers:

- Support for the deployment and upgrade of Windows 10, version 1607 (including Enterprise LTSB and Education editions) and Windows Server 2016

- Support for the Windows ADK for Windows 10, version 1607

- Support for integration with Configuration Manager, version 1606

Get started

Microsoft Deployment Toolkit 2013 resources

- Deploy Windows 10 with MDT
- Deploy Windows 10 with Configuration Manager (and MDT)
- Upgrade to Windows 10 with MDT
- Upgrade to Windows 10 with Configuration Manager (and MDT)

17:34
06/12/2017

Status: Running

Recycle Bin

17:37
06/12/2017

Management, Microsoft Application Virtualization for Windows Desktops, Microsoft User Experience Virtualization, Microsoft BitLocker Administration and Monitoring, the Microsoft Diagnostics and Recovery Toolset, and Microsoft Enterprise Desktop Virtualization.

Use of this product is covered under our Campus Agreement so it should only be used on University or College owned computers.

Windows Desktop Operating Systems

These files can be burned to a DVD, mounted as ISOs or used from a suitable bootable USB drive, which you can set up using a tool such as **Rufus**. USB 3.0 pen drives make excellent installation media. Activation is **via the KMS**.

WINDOWS 10 1709 BUNDLE includes Education, Professional, Enterprise

Windows 10 EDUCATION-PRO-ENT 1709 - 32Bit English Eng Intl (Nov 2017)
    Checksum:
    MD5: F007B418DB20AF420CE84DA48E946D59
    SHA-1: 8C274CE27B49D43216DFEF115B811936880E6E06
    SHA-256: 1EF6A98ACE4782B368BBFA5B8652959BBB1CB52B84AC1AB5363D56A1078C0FD9
Windows 10 EDUCATION-PRO-ENT 1709- 64Bit English Eng Intl (Nov 2017)
    Checksum:
    MD5: 677A8FF33A41142C7E35B08200F15095
    SHA-1: 1BBF886697A485C18D70AD294A09C08CB3C064AC
    SHA-256: 93F91010979387EC0B2417C94DFF7A00E827990F8F40B3D5885774D68EB74BB9

EDUCATION 1703

Microsoft Windows 10 Education 1703 32-bit English MLF
    Checksum: MD4: d5a033d2ce67af055fbaaef38e893c81 MD5: f98989058d53843afb3f866004bbc9bc SHA-1:
    bea136ed4bfca56d2edc333e3fcc9dbf0166452d
Microsoft Windows 10 Education 1703 64-bit English MLF
    Checksum: MD4: 826394ff9e730eb84e373857e8011332 MD5: 9dfc123ec8be46c33c5bebd10d2c5651 SHA-1:
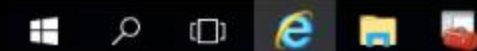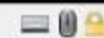
Recycle Bin

SW_DVD5_Wi
n_Pro_Ent_Ed
u_N_10_1709
_64BIT_Eng_I
ntl_MLF_X21-
50145

17:49
06/12/2017

Dell Driver Website

http://en.community.dell.com/techcenter/enterprise-client/w/wiki/2065.dell-command-deploy-driver-packs-for-enterprise-client-os-deployment
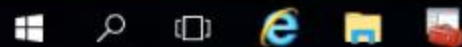
Dell Command | Deploy - D... ×

● TechCenter ○ Dell Community

TechCenter

Topics: All ⌄   Wikis   Forums   Blog   Video   TechChat   Events   About

TechCenter > Client and Mobile Solutions > Enterprise Client - Wiki > Dell Command | Deploy - Driver Packs for Enterprise C...

Join   Sign in

G Select Language ▼

Dell Client and Mobile Solutions

Learn how to Deploy, Manage, Secure, and Virtualize
BYOD, Enterprise Client, and Mobility Solutions
from Experts and Peers

TechCenter Home   Topic Home   Forums   Wyse Forums   **Wikis**   Videos   Twitter

🏠 Article   ⊙ History

Wikis - Page Details

First published by
DELL-Greg R
26 May 2009 8:59

Last revision by
Warren Byle
23 Oct 2017 18:37

Revisions: **526**   Comments: **134**

Dell Command | Deploy - Driver Packs for Enterprise Client OS Deployment

ENTERPRISE CLIENT - WIKI
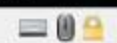
```
Get-WmiObject Win32_Computersystem | Format-List manufacturer, model
```

```
PS C:\Users\quee3211> Get-WmiObject Win32_Computersystem | Format-List manufacturer, model


manufacturer : LENOVO
model        : 20FCS0CS00
```

Lenovo Driver Website

https://pcsupport.lenovo.com/gb/en/solutions/sccm-index

https://pcsupport.lenovo.com/gb/en/solutions/sccm-index | Microsoft System Center C... ✕

SHOP   SUPPORT

Search PC Support   🔍

My Account   English

Product Home   Drivers & Software   How-tos & Solutions   Documentation   Diagnostics   Warranty & Repair ▾   Parts & Accessories ▾   Contact Us   ☰ More

Microsoft System Center Configuration Manager (SCCM) and Microsoft Deployment Toolkit (MDT) Package Index

Back

Overview   **Deployment Recipe Cards**   **Driver Packs**

This document lists the available hardware device driver packs that can be used with Microsoft System Center Configuration Manager and/or Microsoft Deployment Toolkit to simplify the operating system deployment process for enterprise customers.

Driver packs are also provided for the following Think business-class computers:

- ThinkPad
- ThinkCentre / Lenovo Desktop
- ThinkStation

WinPE Boot Image Driver Packs

WinPE ethernet driver for SCCM or MDT deployments using Lenovo USB 3.0 Pro or USB 3.0 Ultra Dock - ThinkPad

Feedback

↑
Back to top

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (C:\DeploymentShare)\Out-of-Box Drivers]

File Action View Help

Name	Manufacturer	Version	Date	Platform
Dell				

Import Drivers
New Folder
View
Refresh
Export List...
Help

Actions

Out-of-Box Drivers

Import Drivers
New Folder
View
Refresh
Export List...
Help

Deployment Workbench
Information Center
Deployment Shares
MDT Deployment Share (C:\DeploymentS)
Applications
Operating Systems
Out-
D
Packa
Task
Adva
Moni

Import drivers

Status: Running
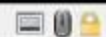
14:51
08/12/2017

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (C:\DeploymentShare)\Advanced Configuration]

File   Action   View   Help

Deployment Workbench
  Information Center
  Deployment Shares
    MDT Deployment Share (C:\DeploymentShare)
      Applications
      Operating Systems
      Out-of-Box Drivers
        Dell
          7440 AIO
        Lenovo
          X1 Carbon 20HC
      Packages
      Task Sequences
      Advanced Configuration
      Monitoring

Name
Selection Profiles
Linked Deployment Shares
Media
Database

Actions

Advanced Configuration
  View
  Export List...
  Help

Status: Running

15:07
08/12/2017

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (C:\DeploymentShare)\Task Sequences]

File   Action   View   Help
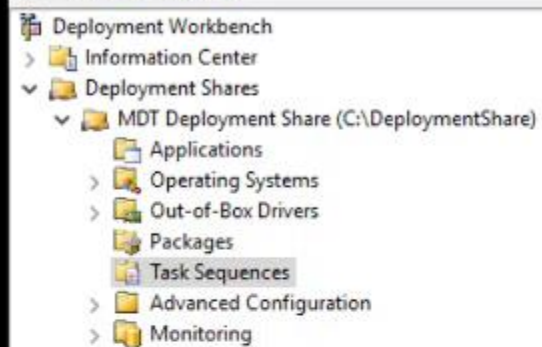
Name	ID	Version	TaskSequence...	enable	guid
	There are no items to show in this view.				

Deployment Workbench
- Information Center
- Deployment Shares
  - MDT Deployment Share (C:\DeploymentShare)
    - Applications
    - Operating Systems
    - Out-of-Box Drivers
    - Packages
    - Task Sequences
    - Advanced Configuration
    - Monitoring

Actions

Task Sequences
- New Task Sequence
- New Folder
- View
- Refresh
- Export List...
- Help

Status: Running

15:14
08/12/2017
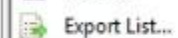
```ini
[Settings]
Priority=Default
Properties=MyCustomProperty

[Default]
_SMSTSOrgName=The Kings's College IT Office
OSInstall=Y
SkipCapture=YES
SkipAdminPassword=YES
AdminPassword=123456
JoinDomain=kings.ox.ac.uk
DomainAdmin=service-mdt
DomainAdminPassword=MDTPassword123
DomainAdminDomain=kings
SkipProductKey=YES
SkipComputerBackup=YES
SkipBitLocker=YES
BDEInstallSuppress=NO
SkipComputerName=NO
SkipRoles=YES
SkipDomainMembership=NO
SkipUserData=YES
DoCapture=NO
SkipLocaleSelection=YES
SkipTaskSequence=NO
SkipTimeZone=YES
SkipApplications=NO
SkipSummary=YES
SkipBDDWelcome=YES
EventService=http://KC-MDT01:9800
UILanguage=en-GB
UserLocale=en-GB
KeyboardLocale=0809:00000809
SystemLocale=en-GB
TimeZoneName=GMT Standard Time
TimeZone=085
WsusServer=https://kc-wsus01.kings.ox.ac.uk:8531
Home_page=http://www.kings.ox.ac.uk
FinishAction=REBOOT
DomainOUs1=OU=Domain Servers,DC=kings,DC=ox,DC=ac,DC=uk
DomainOUs2=OU=Domain Computers,DC=kings,DC=ox,DC=ac,DC=uk

[Settings]
Priority=Default

[Default]
DeployRoot=\\KC-MDT01\DeploymentShare
UserID=service-mdt
UserDomain=kings
UserPassword=MDTPassword123
SkipBDDWelcome=YES
```

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (C:\DeploymentShare)]

File   Action   View   Help

Deployment Workbench
- Information Center
- Deployment Shares
  - MDT Deployment Share (C:\DeploymentShare)
    - Applications
    - Operating Systems
    - Out-of-Box Drivers
    - Packages
    - Task Sequences
    - Advanced Configuration
    - Monitoring

Name
- Applications
- Operating Systems
- Out-of-Box Drivers
- Packages
- Task Sequences
- Advanced Configuration
- Monitoring

Actions

MDT Deployment Share (C:\Deploymen...
- Update Deployment Share
- Close Deployment Share
- View
- Refresh
- Export List...
- Properties
- Help

Status: Running

15:29
08/12/2017

Recycle Bin

DeploymentWorkbench - [Deployment Workbench\Deployment Shares\MDT Deployment Share (C:\DeploymentShare)]

File   Action   View   Help

Deployment Workbench
- Information Center
- Deployment Shares
  - MDT Deployment Share (C:\Deploym
    - Applications
    - Operating Systems
    - Out-of-Box Drivers
    - Packages
    - Task Sequences
    - Advanced Configuration
    - Monitoring

Update Deployment Share Wizard

Confirmation

Options
Summary
Progress
Confirmation

ⓘ   The process completed successfully.

```
Copy: C:\DeploymentShare\Tools\x64\TsProgressUI.exe to C:\Users\ADMINI~1.KIN\AppData\Loc
Copy: C:\DeploymentShare\Tools\x64\TSResNlc.dll to C:\Users\ADMINI~1.KIN\AppData\Local\T
Copy: C:\DeploymentShare\Tools\x64\CommonUtils.dll to C:\Users\ADMINI~1.KIN\AppData\Local
Copy: C:\DeploymentShare\Tools\x64\ccmgencert.dll to C:\Users\ADMINI~1.KIN\AppData\Local\
Copy: C:\DeploymentShare\Tools\x64\msvcp120.dll to C:\Users\ADMINI~1.KIN\AppData\Local\T
Copy: C:\DeploymentShare\Tools\x64\msvcr120.dll to C:\Users\ADMINI~1.KIN\AppData\Local\Te
Copy: C:\DeploymentShare\Tools\x64\00000409\tsres.dll to C:\Users\ADMINI~1.KIN\AppData\Lo
Copy: C:\DeploymentShare\Tools\x64\Microsoft.BDD.Utility.dll to C:\Users\ADMINI~1.KIN\AppData
Copy: C:\Program Files\Microsoft Deployment Toolkit\Samples\Background.bmp to C:\Users\ADMIN
Compressing the WIM to reclaim unused space.
Copying WIM to the deployment share.
Creating an ISO.
Copying ISO to the deployment share.


=== Completed processing platform x64 ===


*** Processing complete ***
```

Save Output...   View Script

Previous   **Finish**   Cancel

Actions

MDT Deployment Share (C:\Deploymen...
Update Deployment Share
Close Deployment Share
View
Refresh
Export List...
Properties
Help

Status: Running

15:44
08/12/2017

File   Action   Media   Clipboard   View   Help

The virtual machine 'KC-ClientPC' is turned off

To start the virtual machine, select 'Start' from the Action menu

Start

Status: Off
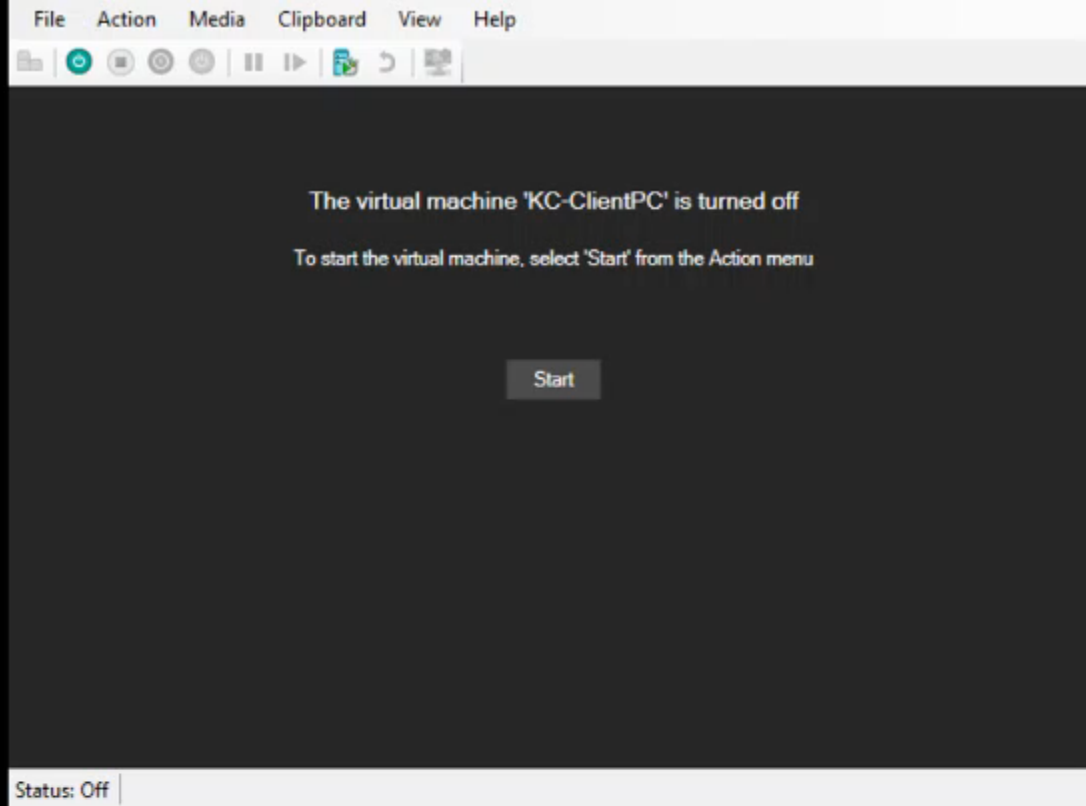
MDT at Queens

Deployment Workbench
  > Information Center
  ∨ Deployment Shares
    ∨ MDT Deployment Share (C:\Deploy
        Applications
      > Operating Systems
      > Out-of-Box Drivers
      > Packages
      > Task Sequences
      > Advanced Configuration
      > Monitoring

Name	ID
Deploy Hyper-V Host	02
Deploy Server 2016 Core	06
Deploy Server 2016 GUI	07
Deploy Windows 10	18
Deploy Windows 10 - Fellows	16
Deploy Windows 10 - Library Terminal	15
Install Applications	19

Install Applications Properties

General | **Task Sequence** | OS Info

✳ **Add** ▾ ✖ **Remove** ⬆ **Up** ⬇ **Down**

✅ Install Application

Properties | Options

Type: `Install Application`

Name: `Install Application`

Description:

◉ **Install multiple applications**

Install mandatory (MandatoryApplications) and optional applications (Applications) configured via rules or specified via the deployment wizard.

○ **Install a single application**

Application to install:

[   ]

Browse...

Success codes (suppress errors):

`0 3010`

\\kc-mdt01\DeploymentShare\Scripts

Name	Date modified	Type	Size
LiteTouch.vbs	14/09/2016 04:02	VBScript Script File	3 KB

Sophos Cloud Client Installer Properties

General | **Details** | Dependencies

○ Application bundle

There is no installation command associated with this application. Instead, only the dependencies of this application will be installed.

● Standard application

Quiet install command:

`SophosInstall.exe -q`

Working directory:

`.\Applications\Sophos Cloud Client Installer`

Uninstall registry key name:

☑ Reboot the computer after installing this application

● This can run on any platform.

○ This can run only on the specified client platforms:

- ☐ All x86 NT
- ☐ All x86 Windows 7 Client
- ☐ All x86 Windows 8 Client
- ☐ All x86 Windows 8.1 Client
- ☐ All x86 Windows 10 Client
- ☐ All x64 Windows 7 Client

OK | Cancel | Apply | Help

- State Restore
  - Gather local only
  - Post-Apply Cleanup
  - Recover From Domain
  - Tattoo
  - Opt In to CEIP and WER
  - Install Roles and Features
  - Windows Update (Pre-Application Inst
  - Set KDC
  - Install Applications
  - Install Application Lenovo Hotkeys
  - Install Adobe Reader DC
  - Windows Update (Post-Application Ins
  - Install Sophos Cloud
  - Custom Tasks
  - Enable BitLocker
  - Restore User State
  - Restore Groups
  - Apply Local GPO Package
- Imaging

☑ Hide this application in the Deployment Wizard

☑ Enable this application

Set KDC Properties   ✕

General   Details   Dependencies

○ Application bundle

There is no installation command associated with this application. Instead, only the dependencies of this application will be installed.

● Standard application

Quiet install command: reg import kdc.reg

Working directory: .\Applications\The Queens College Set KDC 1

Uninstall registry key name:

☐ Reboot the computer after installing this application

● This can run on any platform.

○ This can run only on the specified client platforms:

☐ All x86 NT
☐ All x86 Windows 7 Client
☐ All x86 Windows 8 Client
☐ All x86 Windows 8.1 Client
☐ All x86 Windows 10 Client
☐ All x64 Windows 7 Client

OK   Cancel   Apply   Help

Further Reading

- MDT Landing Page - https://technet.microsoft.com/en-us/windows/dn475741.aspx

- Build a test lab - https://docs.microsoft.com/en-gb/windows/deployment/windows-10-poc-mdt

- Deploy Windows 10 - https://docs.microsoft.com/en-gb/windows/deployment/deploy-windows-mdt/deploy-windows-10-with-the-microsoft-deployment-toolkit

- Lynda.com - https://www.lynda.com/search?q=mdt