# DEPLOYING VMWARE TOOLS USING SCCM USER GUIDE

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#### **Intended Audience**

This information is intended for administrators or specialists responsible for VMware Tools deployment using SCCM 2016.

#### Document conventions

Conventions	Description
Bold	Lowercase commands and mixed case commands that are otherwise difficult to distinguish from surrounding text.
	Interface controls (check boxes, push buttons, radio buttons, spin buttons, text boxes, folders, icons, list boxes, items inside list boxes, multicolumn lists, containers, menu choices, menu names, tabs, property sheets), labels (such as Tip and Operating system considerations)
	Keywords and parameters in text.
Italic	Emphasis of words (words as words)
	Variables and values you must provide
Monospace	Examples and code examples
	File names, programming keywords, and other elements that are difficult to distinguish from surrounding text
	Message text and prompts addressed to the user
	Text that the user must type
	Values for arguments or command options

#### Support

To deploy VMware Tools using SCCM and for any troubleshooting queries, contact the support team.



#### Deployment Workflow





#### System Requirements

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Following are the requirements for deploying VMware Tools using SCCM.

#### Software requirements

• Windows Server 2016 and SCCM 2016

#### Supported products and versions

Environment	Version/Model	Description
VMware vSphere	vSphere 6.5	The vSphere Server which Windows VMs run on
	vSphere 6.0	
VM Guest OS	Windows Server 2016	The Windows Guest OS to deploy VMware Tools to
	Windows 10	using SCCM 2016
	Windows Server 2012	
	Windows Server 2008	
	Windows 8.1	
	Windows 7	
VMware Tools	10.2.0	The VMware Tools to deploy
	10.1.15	using SCCM 2016
	10.1.10	
	10.1.7	
	10.1.5	
	10.1.0	
	10.0.9	
	10.0.8	
	10.0.6	
	10.0.0	



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### The Deployment Process

#### Download VMware Tools installation package

The following steps provide details to download VMware Tools installation package.

- 1. Download and extract VMware Tools installation files
  - a. Open and login to VMware website https://my.vmware.com/web/vmware/downloads Note, register an account if don't have one: https://my.vmware.com/web/vmware/registration
  - b. In the All Products Datacenter & Cloud Infrastructure category, click "Drivers & Tools" of VMware vSphere
  - c. In the download page, expand **VMware Tools**, and download the version we want
  - d. Extract the downloaded compressed package and windows.iso file, then put the VMware Tools installation files to a location where SCCM can access.

oad VMware vSphere	are.com/web/immare/info/lug/datacenter_cloud_infrashucture/immare_inphere/6_5Rdrivers_tools	Search	م	 - 0 0 0
	Steet Version         VMware Software Manager makes it easy to find, select, and download the content needed to install or upgrade a VMware product or suite with the push of a button.           Get Your vSphere License Key           Read More	V P C V S	Product Resources  Arew My Download History  roduct Information  bocumentation  Sphere Community  support Resources  Get Free Trial	
	Product Downloads Drivers & Tools Open Source Custom ISOs			
	Product Downloads Drivers & Tools Open Source Custom ISOs Driver / Tool	Release Date		
		Release Date		
	Driver / Tool       > Driver CDs       > VMware Remote Console       VMware Tools       VMware Tools 10.115	2017-09-26	Go to Downloads	
	Driver / Tool > Driver CDs > VMware Remote Console  V Wware Tools		Go to Downloads Go to Downloads Go to Downloads	
	Driver / Tool       > Driver CDs       > VMware Remote Console       V VMware Tools       V4ware Tools 10.115       VMware Tools 10.110	2017-09-26 2017-07-27	Go to Downloads	

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#### **Create a VMware Tools Application**

The following steps provide details on how to create the VMware Tools application.

- 1. Start the Create Application Wizard
  - a. In the Configuration Manager console, click **Software** Library.
  - b. In the **Software Library** workspace, expand **Application Management**, and then click **Applications**.
  - c. On the **Home** tab, in the **Create** group, click **Create Application**.

E Folder Tools System Center Configuration Manager (Connected to CHN - BeijingSite) (Evaluation, 131 days left)	- /	-   ×
Home Folder		^ 🕜
Create Application Application		
Create Feedback Search		
← → ▼ 📰 \ → Software Library → Overview → Application Management → Applications		- 2
Software Library 4 Applications 0 items		
4 @ Overview Search	X Search Add	d Criteria 🔻
Application Management Icon Name	Deployment Types	Deploymen
Applications     License Information for Store Apps     Approval Requests     Global Conditions     Appr-V Virtual Environments     Windows Sidelbaading Keys     Application Management Policies      Assets and Compliance     Software Library     Monitoring     Monitoring     Addiministration		
Ready		

- 2. Specify the VMware Tools application information. VMware Tools is to be installed using an executable file (.EXE) and we need to carry out some manual steps to configure the application information. We will also manually configure a deployment type and create the detection method based on the version of a present file.
  - a. On the General page of the **Create Application Wizard**, select "Manually specify the application information", and then click **Next**.



to Create Application Wizard	4	×
General		
General General Information Application Catalog Deployment Types Summary Progress Completion	Specify settings for this application Applications contain software that you can deploy to users and devices in your Configuration Manager environment. Applications can contain multiple deployment types that customize the installation behavior of the application.	
	Automatically detect information about this application from installation files:      Type: Windows Installer (* msi file)      Location:      Example: \\Server\Share\File      Manually specify the application information	
	< <u>Previous</u> <u>Next</u> Summary Cancel	

 b. Specify the general information, for example Name ('VMware Tools 10.2.0'), Publish ('VMWare'), Version ('10.2.0'), Comments and Owners etc.



i Create Application Wizard	ł				×
General Informa	tion				
General	Specify information	about this applica	ation		
General Information					
Application Catalog					
Deployment Types	Na <u>m</u> e:	VMware Tools 10.2.0			
Summary	Administrator comments:				<u>^</u>
Progress Completion					
Completion	Publishe <u>r</u> :	VMware	Software version:	10.2.0	
	Optional reference:				
	Administrative categories:			∧ Sele <u>c</u> t	
				~	
	Date published:	12/ 5/2017			
	Allow this application to	he installed from the Insta	II Application task sequence activ	on without being deploye	ad
		De installed from the insta	in Application task sequence actin	on without being deploye	
	Specify the administrative u	sers who are responsible f	or this application.		
	O <u>w</u> ners:	sccmadmin		Browse	J
	Support contacts:	sccmadmin		Browse	<u></u>
		< <u>P</u> r	evious <u>N</u> ext >	<u>S</u> ummary C	ancel

- c. Click Next.
- d. Specify the following information in the **Application Catalog page**(optional):
  - Selected language, Localized application name, User categories, User documentation, Link text, Privacy URL, Localized description, Keywords, Icon etc.
- e. Click Next.
- f. On the **Deployment Types** page of the Create Application Wizard. We can click **Add** to create a new deployment type or just skip to create it later, refer to step "**Create Deployment Type for VMware Tools Application**" below for details.

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💼 Create Application Wizar	rd	×
Deployment Ty	rpes	
General General Information Application Catalog Deployment Types Summary	Configure deployment types and the priority in which they will be applied for the application Deployment types include information about the installation method and the source files for this application.	iis
Progress	Deployment types: Increase Priority Decrease Priority	
Completion	Filter	2
	Priority Name Type Languages	~
	There are no items to show in this view.	
	Add Edit Copy Delete	
	Poor Copy Door	r
	< <u>P</u> revious <u>N</u> ext > <u>S</u> ummary Can	icel

g. Click **Next**, review the application information on the **Summary** page, and then complete the Create Application Wizard.



🛅 Create Application Wizard	I	×
Summary		
General General Information Application Catalog Deployment Types Summary Progress Completion	Confirm the settings for this application Details: General Information: Application name: VMware Tools 10.2.0 Administrator comments: Application and the set of the	
	Deployment type names:         To change these settings, click Previous. To apply the settings, click Next.         < <u>Previous</u> <u>Next &gt;</u> Summary       Cancel	

h. The new VMware Tools application appears in the **Applications** node of the Configuration Manager console.

Home Folder	onfiguration Manager (Connected					-	□   ×
Feedback Saved Feedback Searches - Feedback Search	T Update Statistics	File Create Deployment Typ lication	▶ Reinstate ≧ Copy ⊗ Retire	Deployment M		View Relationships • Relationships	Properties Properties
- 🔶 👻 📰 🔪 + Software Library + C	Overview      Application Manage	ement + Applicatio	ns				- (
ftware Library	<ul> <li>Applications 1 items</li> </ul>						
Toverview	Search				×	🔎 Search	Add Criteria
<ul> <li>Application Management</li> </ul>	Icon Name	A		Deployment Types	Deployments	Status	
Applications	VMware Tools 10.2	2.0		0	0	Active	
Packages Approval Requests							
Approval Requests	VMware Tools 10.2.0						
Approval Requests     [1] Global Conditions     [4] App-V Virtual Environments     [8] Windows Sideloading Keys	VMware Tools 10.2.0 Application Properties		Application Statistics		Related Ob	jects	
Approval Requests Global Conditions App-V Virtual Environments		10.2.0	Application Statistics Devices with Applic	ation:		ijects tent Status	
Approval Requests     [1] Global Conditions     [4] App-V Virtual Environments     [8] Windows Sideloading Keys	Application Properties Software Version: Manufacturer: Superseded:	10.2.0 VMware No	Devices with Applic Devices with Installa Failure:	ation			
Approval Requests     Global Conditions     App-V Virtual Environments     Mondows Sideloading Keys     Application Management Policies     —	Application Properties Software Version: Manufacturer:	VMware	Devices with Applic Devices with Install	ation			
Approval Requests  Cl. Global Conditions  App-V Virtual Environments  Application Management Policies  Assets and Compliance	Application Properties Software Version: Manufacturer: Superseded:	VMware	Devices with Applic Devices with Install Failure: Users with Applicat Users with Installati Failure: Users with Catalog	ation			
Approval Requests Conditions Approval Requests Conditions App-Virtual Environments Conditions Cond	Application Properties Software Version: Manufacturer: Superseded:	VMware	Devices with Applic Devices with Install Failure: Users with Applicat Users with Installati Failure:	ation			

Create Deployment Type for VMware Tools Application



The following steps provide the details on how to create a deployment type for VMware Tools 10.2.0.

- 1. Start the Create Deployment Type Wizard
  - a. In the Configuration Manager console, click **Software** Library.
  - b. In the Software Library workspace, expand Application Management, and then click Applications.
  - c. Select the VMware Tools application 'VMware Tools 10.2.0' and then, on the **Home** tab, in the **Application** group, click **Create Deployment Type** to create a new deployment type for this application.

Folder Tools System Center Confi	iguration Manager (Connected to CHN - I	eijingSite) (Evaluation, 131 days left)			- 0 ×
F Home Folder					^ 🔞
<ul> <li>Feedback Saved Manage Access</li> </ul>	Revision History	► Reinstate Copy Retire Refres Retire Refres Paper Export Delete	- Mor	ve Classify View Relationship	
← → ▼ 📰 \ ► Software Library ► Over	view <ul> <li>Application Management</li> </ul>	Applications			- 2
Software Library <	Applications 1 items				
4 🔮 Overview	Search			🗙 🔎 Sear	h Add Criteria *
A 🔛 Application Management	Icon Name	*	Deployment Types	Deployments Status	
Applications	VMware Tools 10.2.0		0	0 Active	
License Information for Store Apps     E     Approval Requests     Id Global Conditions					
🚝 App-V Virtual Environments	VMware Tools 10.2.0				~
Windows Sideloading Keys Provide the state of t	Application Properties	Application Statistics		Related Objects	
	Software Version: 10.2.0	Devices with Appli		🐻 Content Status	E
Assets and Compliance	Manufacturer: VMwar Superseded: No	Failure:			
Software Library	Comments:	Users with Applica Users with Installat			
Monitoring		Failure: Users with Catalog			
Administration		Installations: Last Update:			
•	Summary Deployment Types Deploy	ments			· · ·
Ready					

#### 2. Manually specify the deployment information

- a. On the General page of the Create Deployment Type Wizard, select "Manually specify the deployment type information".
- b. In the **Type** field, select "Script Installer" from the dropdown list, otherwise the deployment may fail.

Note, SCCM supports MSI natively, but unfortunately VMware Tools installer is an executable file (.EXE) and we need to use the Script Installer type here.



法 Create Deployment Type	Wizard		×
General			
General General Information Content	Specify s	ettings for this deployment type	
Detection Method User Experience	Deployment	types include information about the installation method and source files for this application.	
Requirements Dependencies	Typ <u>e</u> :	Script Installer	~
Summary Progress Completion			Browse
	( <u>M</u> anual	y specify the deployment type information	
		< Previous Next > Summary	Cancel

- c. Click Next.
- d. On the General Information page, specify the deployment type Name as 'VMTools 10.2.0', an optional description, and the languages, and then click Next.



法 Create Deployment Type	Wizard		×
General Informa	tion		
General General Information Content Detection Method User Experience Requirements		ormation for this deployment type y number of deployment types. Deployment types include links to content and settings that delivered.	
Dependencies	Nam <u>e</u> :	VMTools 10.2.0	
Summary Progress	Administrator comments:		
Completion	Languages:	Selegt	
		< Previous Next > Summary Cancel	

#### 3. Specify Content for the Deployment Type

Specify the location of the VMware Tools installation files, along with the installation and uninstallation commands for VMware Tools.

- a. On the Content page of the Create Deployment Type Wizard, specify the following information:
  - **Content location**: Specify the location of VMware Tools installation files, or click Browse to choose the deployment type content folder.
  - Select the check box "Allow clients to share content with other clients on the same subnet"
  - Installation program: Specify VMware Tools installation program and parameters, for example: setup.exe /s /v/qn
  - **Installation start in**: Leave it empty, this field is optional.
  - Uninstall program: This field is also optional. We can specify VMware Tools uninstallation string here, for example "MsiExec.exe /I{766355C9-1851-4890-9C1F-9F043A43AFCE}".

Note, VMware Tools can be uninstalled in Windows Control Panel/Programs. If we want to uninstall it using Software Center (client agent of SCCM), we

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need to configure this item. To get the uninstallation string, manually install the VMware Tools on a test machine first, and find the **UninstallString** in output of command:

"reg query

HKEY\_LOCAL\_MACHINE\Software\Microsoft\Windo ws\CurrentVersion\Uninstall\/s"

• Uninstall start in: Leave it empty, this field is optional.

🚵 Create Deployment Type	Wizard		×
Content			
General General Information Content	Specify information ab	out the content to be delivered to target devices	
Detection Method User Experience	Specify the location of the deploy devices. All the contents in the p	ment type's content and other settings that control how content is delivered to targ ath specified will be delivered.	at
Requirements Dependencies	Content location:	\\127.0.0.1\Source\VMTools\10.2.0 Browse	
Summary	Persist content in the client of	ache	
Progress	Allow clients to share conten	t with other clients on the same subnet	
Completion	Content downloads from cloud-b BranchCache.	e Windows BranchCache to download content from on-premises distribution points. ased distribution points can always be shared by clients that use Windows	
	Specify the command used to ins	stall this content.	
	Installation program:	setup.exe /s /v/qn Browse	
	Installation start in:		
	Configuration Manager can remo	ve installations of this content if an uninstall program is specified below.	
	Uninstall pr <u>og</u> ram:	Browse	
	Uninstall start in:		
	Run installation and uninstall	program as 32-bit process on 64-bit clients.	
		< Previous Next > Summary Can	cel

- b. Click Next.
- 4. Configure Detection Methods to indicate whether the VMware Tools deployment type is already installed.
  - a. On the **Detection Method** page of the Create Deployment Type Wizard, select "Configure rules to detect the presence of this deployment type", and then click **Add Clause**.



🚔 Create Deployment Type	Wizard			×
Detection Meth	od			
General General Information	Specify how this de	eployment type is detected		
Content				
Detection Method	Specify how Configuration	Manager determines whether this deplo	yment type is already present o	on a device. This
User Experience	detection occurs before the	e content is installed or when software in	nventory data is collected.	
Requirements				
Dependencies	<ul> <li>Configure rules to dete</li> </ul>	ct the presence of this deployment type		
Summary	Connector	( Clause	)	Add <u>C</u> lause
Progress				E <u>d</u> it Clause
Completion				Delete Clause
				Delete Ciabae
			•••	
				Group
				Ungroup
	Use a custom script to	detect the presence of this deployment	type:	
	Script type:			Edit
	Script length:			
		< Previous	Next > Summ	nary Cancel
		. Licitoda		

- b. In the **Detection Rule** dialog box, in the Setting type drop-down list, select "File System"
- c. Specify the file details to detect whether VMware Tools 10.2.0 is installed.
  - Type: select "File"
  - **Path**: fill in "%ProgramFiles%\VMWare\VMWare Tools\"
  - File or folder name: fill in "vmtoolsd.exe"
- d. Select the "The file system setting must exist on the target system to indicate presence of this application" check box
  - Property: select "Version"
  - **Operator**: select "Greater than or equal to" Note, VMware Tools doesn't support degrading, and we don't select "Equal to" here.
  - **Value**: fill in "10.2.0.1608" (right click on the .exe file, click properties->details to get the file version)

### 

Specify the file or folder to detect this application.         Type:       File         Path:       ½ProgramFiles%\VMWare\VMWare Tools\       Browse         Eile or folder name:       vmtoolsd exe       Image: This file or folder is associated with a 32-bit application on 64-bit systems.         O       The file system setting must exist on the target system to indicate presence of this application       Image: The file system setting must exist on the target system to indicate the presence of this application         Image: The file system setting must exist on the target system to indicate the presence of this application       Image: The file system setting must exist on the target system to indicate the presence of this application         Image: The file system setting must exist on the target system to indicate the presence of this application       Image: The file system setting must exist on the target system to indicate the presence of this application         Image: The file system setting must exist on the target system to indicate the presence of this application       Image: The file system setting must exist on the target system to indicate the presence of this application         Image: The file system setting must exist on the target system setting must exist on target system setting must exist on target system seting must exist on target system seting mus	Typg:       File         Path:       %Program Files%\VMWare\VMWare Tools\       Browse         Elle or folder name:       vmtoolsd.exe       Image: This file or folder is associated with a 32-bit application on 64-bit systems.         The file system setting must exist on the target system to indigate presence of this application       The file system setting must satisfy the following rule to indicate the presence of this application         Progretty:       Version	Setting Type:	File System	
Path:       %ProgramFiles%\VMWare\VMWare Tools\       Browse         Elle or folder name:       vmtoolsd.exe       Image: This file or folder is associated with a 32-bit application on 64-bit systems.         The file system setting must exist on the target system to indigate presence of this application       Image: The file system setting must satisfy the following rule to indicate the presence of this application         The file system setting must satisfy the following rule to indicate the presence of this application       Property:         Version       Version	Path: %ProgramFiles%\VMWare\VMWare Tools\ Browse Browse Browse Browse This file or folder is associated with a 32-bit application on 64-bit systems. The file system setting must exist on the target system to indigate presence of this application The file system setting must satisfy the following rule to indicate the presence of this application The file system setting must satisfy the following rule to indicate the presence of this application Property: Version	Specify the file or fold	er to detect this application.	
File or folder name:       vmtoolsd.exe         This file or folder is associated with a 32-bit application on 64-bit systems.         The file system setting must exist on the target system to indicate presence of this application         The file system setting must satisfy the following rule to indicate the presence of this application         Prgperty:       Version	Elle or folder name:       vmtoolsd.exe         Image: This file or folder is associated with a 32-bit application on 64-bit systems.         Image: The file system setting must exist on the target system to indigate presence of this application         Image: The file system setting must exist on the target system to indigate presence of this application         Image: The file system setting must exist on the target system to indigate presence of this application         Image: The file system setting must satisfy the following rule to indicate the presence of this application         Image: Property:       Version         Image: Operator:       Image: Greater than or equal to	Typ <u>e</u> :	File V	
The file system setting must exist on the target system to indicate presence of this application The file system setting must satisfy the following rule to indicate the presence of this application Property: Version Version	This file or folder is associated with a 32-bit application on 64-bit systems. The file system setting must exist on the target system to indigate presence of this application The file system setting must satisfy the following rule to indicate the presence of this application Property: Version Greater than or equal to	<u>P</u> ath:	%ProgramFiles%\VMWare\VMWare Tools\ Browse	
The file system setting must exist on the target system to indicate presence of this application The file system setting must satisfy the following rule to indicate the presence of this application Property: Version	The file system setting must exist on the target system to indigate presence of this application The file system setting must satisfy the following rule to indicate the presence of this application Prgperty: Version Version Greater than or equal to Version Vers	File or folder name:	vmtoolsd.exe	
The file system setting must satisfy the following rule to indicate the presence of this application     Property:     Version	The file system setting must satisfy the following rule to indicate the presence of this application  Property: Version Operator: Greater than or equal to			
Operator: Greater than or equal to		○ The file system set		
	Value: 10.2.0.1608	The file system set	tting must exist on the target system to indicate presence of this application tting must satisfy the following rule to indicate the presence of this application	~
Value: 10.2.0.1608		The file system set Property:	tting must exist on the target system to indicate presence of this application tting must satisfy the following rule to indicate the presence of this application Version	> >
		<ul> <li>The file system set</li> <li>Property:</li> <li>Operator:</li> </ul>	ting must exist on the target system to indicate presence of this application ting must satisfy the following rule to indicate the presence of this application Version Greater than or equal to	

e. Click Next.

#### 5. Specify User Experience Options

a. On the User Experience page of the Create Deployment Type Wizard, specify the following information:

- Installation behavior: select "Install for System if resource is device; otherwise install as user"
- Logon requirement: select "Whether or not a user is logged on"
- Installation program visibility: select "Normal"



法 Create Deployment Type	Wizard	:	×
User Experience			
General General Information Content Detection Method	Specify user experience settir	ngs for the application	
User Experience	Installation behavior:	Install for system if resource is device; otherwise install for user $\qquad \qquad \lor$	
Requirements Dependencies	Logon <u>r</u> equirement:	Only when a user is logged on $\qquad \qquad \checkmark$	
Summary	Installation program visibility:	Nomal	
Progress		Allow users to view and interact with the program installation	
Completion			
	Specify the maximum run time and estimate estimated installation time displays to the u	ed installation time of the deployment program for this application. The ser when the application installs.	
	Maximum allowed run time (minutes):	120	
	Estimated installation time (minutes):	0	
		< Previous Next > Summary Cancel	

- b. Click Next.
- 6. Specify Requirements for VMware Tools Deployment Type. We can specify the conditions (Operating System version, disk space and so on) to install VMware Tools here.

Note, leave it as is unless we do have some special requirements. It may prevent the VMware Tools deployment on some client computers.



🗽 Create Deployment Type	Wizard				×
Requirements					
General General Information Content	Specify installation re	equirements	for this deployment type		
Detection Method User Experience Requirements	Specify any requirements, su can install this deployment ty deployed to the device.	ch as hardware fe be. Configuration I	atures or the operating system version, Manager verifies that these requirement	that devices must hav ts are met before conto	ve before they ent is
Dependencies	Requirements:				
Summary					0
Progress		- ·			P
Completion	Requirement Type	Operator	Values are no items to show in this view.		
			A <u>d</u> d	<u>E</u> dit	Delețe
			< <u>P</u> revious <u>N</u> ext >	<u>S</u> ummary	Cancel

7. Specify Dependencies for VMware Tools Deployment Type. We can define one or more deployment types from another application that must be installed before VMware Tools deployment type is installed.

Note, leave it as is unless we do have some special dependencies. The dependencies failure will impact the success of deployment.



Create Deployment Type Wizard   Dependencies     General   General   General   General   General Information   Content   Detection Method   User Experience   Requirements   Dependencies   Software dependencies are deployment types that must be installed before this deployment type can be installed.   Software dependencies are deployment types that must be installed before this deployment type can be installed.   Software dependencies:   Software dependencies:   Summary   Progress   Completion     Name   Application        Image: Completion     Image: Completion     Image: Completion     Image: Completion									
General       Specify software dependencies for this deployment type         General Information       Content         Detection Method       User Experience         Requirements       Software dependencies are deployment types that must be installed before this deployment type can be installed.         Summary       Progress         Completion       Name         Application       Deployment Type         Automatically Install       Image: Completion	×						Wizard	Deployment Type	🚵 Create
General Information       Content         Detection Method       Software dependencies are deployment types that must be installed before this deployment type can be installed.         User Experience       Requirements         Dependencies       Software dependencies:         Summary       Name         Progress       Completion								Dependencies	
User Experience Requirements Dependencies Software dependencies: Software dependencies: Software dependencies:				nis deployment type	ependencies for th	/ software d	Specify		Genera
Summary Progress Completion			aent type can be installed.	ust be installed before this deploy	e deployment types that m	e dependencies ar	Software	perience	User Ex
Completion						e dependencies:	Soft <u>w</u> are	dencies	Depen
Completion			Automatically Install	Deployment Type	Application	Name			-
	-								-
								on	Completi
	_								
Add Edit Delețe			Edit Del	A <u>d</u> d					
< <u>Previous</u> <u>Next</u> > <u>Summary</u> Cancel		Cancel	<u>S</u> ummary C	Previous <u>N</u> ext >	<				

- 8. Confirm the VMware Tools Deployment Type Settings and Complete the Wizard
  - a. On the **Summary** page, review the actions that the wizard will take. Click **Next**.



🚵 Create Deployment Type	Wizard	×
Summary		
General General Information Content Detection Method User Experience Requirements Dependencies Summary Progress Completion	Confirm the settings for this deployment type  Detais:  Densel Information:  Amme: VMTools 10.2.  Amministrator connents:  Camministrator connects:  Camministrator connects: Camministrator connects: Camministrator connects: Camministrator connects: Camministrator connects: Camministrator connects: Cammi	
	< Previous Next > Summary Can	ncel

b. After the Progress page of the wizard finishes, review the actions that the wizard took, and then click Close.

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#### **Distribute the VMware Tools Application**

The following steps provide details on how to distribute the VMware Tools application.

#### 1. Start the Distribute Content Wizard

- a. In the Configuration Manager console, click **Software** Library.
- b. In the **Software Library** workspace, expand **Application Management**, and then click **Applications**.
- c. In the Applications list, select the VMware Tools application that you want to deploy. Then, in the **Home** tab, in the **Deployment** group, click **Distribute Content**.

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Folder Tools System Center Con	iguration Manager (Connected to C	HN - BeijingSite) (Evaluation, 1	31 days left)			-	
Home Folder							^ 🔞
🔶 🧭 ይ 🥈	Create Prestaged Content File	Reinstat (X) Retire	e 🖹 Copy		Part 1	<b>15</b>	
Create Feedback Saved Manage Access Searches • Accounts		Create Deployment Type	X Delete Deployme		Move Classify	View Relationships •	Properties
Feedback Search	Applicatio			Deployment	Move	Relationships	Properties
🗲 🔶 👻 📰 🛝 🔸 Software Library 🔸 Ove	rview <ul> <li>Application Managemen</li> </ul>	t      Applications					- 2
Software Library	Applications 1 items						
4 🧬 Overview	Search				×	( 👂 Search	Add Criteria 🔻
<ul> <li>Application Management</li> </ul>	Icon Name	*	Deployment Tj	/pes Deployments	Status		
Applications	VMware Tools 10.2.0		1	0	Active		
Approval Requests     (J) Global Conditions     App-V Virtual Environments     Monows Sideloading Keys	VMware Tools 10.2.0 Application Properties		Application Statistics		Related OI	bjects	
Application Management Policies		10.2.0	Devices with Application		🐻 Con	tent Status	-
Assets and Compliance	Superseded: 1	/Mware No	Devices with Installation Failure:	0			
Software Library	Comments:		Users with Application: Users with Installation	0			
Monitoring			Failure: Users with Catalog	0			
Administration			Installations: Last Update:	0			
	Summary Deployment Types	Deployments					
Ready							

#### 2. Specify the Distribute Content.

- a. On the General page of the Distribute Content Wizard, then click **Next**.
- b. Review the content to distribute, and click **Next**.

🛃 Distribute Content Wizard		×
General		
General Content	Review selected content	
Content Destination Summary Progress	You have selected the following content for distribution.	
Completion	Content: VMware Tools 10.2.0	
	~	
	Some content might have associated dependencies that must be installed before the content can be installed. Detect associated content dependencies and add them to this distribution	
	< Previous Next > Summary Cancel	

c. Specify the content destination, click Add.



🛃 Distribute Content Wizard	rd ×
Content Destina	ation
General Content Content Destination	Specify the content destination
Summary Progress Completion	Content will be distributed to the following distribution points, distribution point groups, and the distribution point groups that are currently associated with collections.
	Content destination:
	Filter P Add
	Name Description Associations Remove
	There are no items to show in this view.
	< <u>Previous</u> <u>N</u> ext > <u>Summary</u> Cancel

d. On the page of **Add Distribute Points**, choose the Distribute Points which will hold the content. Click **OK**.



Add Distribution Points			×
Select distribution points that will host this conten	t.		
Filter			Q
Name	Type On-premises	Description	
		ОК	Cancel

- e. Click Next.
- f. On the Summary page, review the setting. Click Next.
- g. After the Progress page of the wizard finishes, review the actions that the wizard took, and then click **Close**.



Distribute Content Wizard Completion		×
General Content Content Destination Summary Progress Completion	Determine         Content (1):         • VMware Tools 10.2.0         Dependencies (1):         • VMware Tools 10.2.0         Collections (0):         Distribution point groups (0):         Distribution points (1):         • SCCMSERVER.VMTOOLSQE.COM	
	< <u>P</u> revious <u>N</u> ext > <u>S</u> ummary <b>Close</b>	

#### **Deploy the VMware Tools Application**

The following steps provide details on how to deploy the VMware Tools application.

#### 1. Start the Deploy Software Wizard

- a. In the Configuration Manager console, click **Software** Library.
- b. In the Software Library workspace, expand Application Management, and then click **Applications**.
- c. In the Applications list, select the "VMware Tools 10.2.0" application. Then, in the **Home** tab, in the **Deployment** group, click **Deploy**.

### 

Folder Tools System Center Confi	guration Manager (Connected to	CHN - BeijingSite) (B	valuation, 131 days le	ft)			-	0 ×
Easthart Savet Manage	Create Prestaged Content File Revision History Lupdate Statistics Applica	Create Deployment Type	▶ Reinstate Bacop	esh Simulate D te Deployment	eploy Distribute Content	Move Classif	View Relationships • Relationships	Properties Properties
a contract of the second secon	view      Application Management	ent  Application	;					• \$
Software Library    Software Library     Software Library	Applications 1 items Search Icon Name VMware Tools 10.2.0	*		Deployment Types	Deployments 0	Status Active	K 👂 Search	Add Criteria *
<ul> <li>[F] Global Conditions</li> <li>App-V Virtual Environments</li> <li>Windows Sideloading Keys</li> <li>Application Management Policies</li> </ul>	VMware Tools 10.2.0 Application Properties		Applicat	on Statistics		Related C	bjects	
Approximation management volicies     Assets and Compliance     Software Library     Monitoring	Software Version: Manufacturer: Superseded: Comments:	10.2.0 VMware No	Device Failure Users Users Failure Users	with Application: 0 with Installation : 0 with Catalog		🐻 Co	ntent Status	
Z Administration	Summary Deployment Types	Deployments	Install: Last U					
Ready								

#### 2. Specify the general information for the deployment

- a. On the General page of the Deploy Software Wizard, specify the following information, and then click **Next**.
  - **Software**: It displays the VMware Tools 10.2.0 application to deploy by default. We can click **Browse** to change if necessary.
  - **Collection**: Click **Browse** to select the collection to deploy the VMware Tools application to.

🔶 Deploy Software Wizard			×
General			
General	Specify general in	nformation for this deployment	
Content	opoony gonorani		
Deployment Settings			
Scheduling			
User Experience	Software:	VMware Tools 10.2.0	Browse
Alerts	Collection:	TestClientDevices	Browse
Summary			
Progress	Us <u>e</u> default distribut	tion point groups associated to this collection	
Completion	Automatically distribution	ute content for dependencies	
	Comments (optional):		
	<u>c</u> ommenta (optional).		<u>^</u>
			~
		< <u>P</u> revious <u>N</u> ext > <u>S</u> umma	ry Cancel



- b. On the Content page of the Wizard, click Next.
- c. On the Deployment Settings page of the Deploy Software Wizard, specify the following information, and click **Next** 
  - Action: select Install.
  - Purpose: select Required if you want VMware Tools deployed automatically, or select Available to let client user to install it on demand.

Deploy Software Wizard				×
Deployment Set	tings			
General Content Deployment Settings	Specify se	ttings to control how this softwa	re is deployed	
Scheduling	Action:	Install	~	
User Experience Alerts	Purpose:	Available	~	
Summary Progress Completion	Require a	dministrator approval f users request this applica	ation	
		< <u>P</u> revious	<u>N</u> ext > <u>S</u> ummary	Cancel

d. On the Scheduling page of the Deploy Software Wizard, configure when VMware Tools will be made available or deployed. And then click **Next**.



🜩 Deploy Software Wizard		×
Scheduling		
General Content Deployment Settings Scheduling User Experience Alerts Summary Progress Completion	Specify the schedule for this deployment         This application will be available as soon as possible by default. If this application should be made available at a different time, change the availability time to the desired UTC time.         Time based on:       UTC         Schedule the application to be available at:         12/ 5/2017       ▼         7.39 AM	
	< <u>P</u> revious <u>N</u> ext > <u>S</u> ummary Cancel	

e. On the User Experience page of the Deploy Software Wizard, we can specify information about how users can interact with the application installation. Leave it as is and click **Next**.



🜩 Deploy Software Wizard			×		
User Experience					
General	Specify the user expe	erience for the installation of this software on the selected			
Content	devices				
Deployment Settings					
Scheduling	Specify user experience settir	- factoria danta mant			
User Experience	Specify user experience setting	ig for this deployment	_		
Alerts	User notifications:	Display in Software Center, and only show notifications for computer restarts $\qquad \lor$	•		
Summary					
Progress	When the installation deadline window:	e is reached, allow the following activities to be performed outside the maintenance			
Completion					
	Software Installation				
	System restart (if required to complete the installation)				
	Write filter handling for Windo	ws Embedded devices			
	Commit changes at d	eadline or during a maintenance window (requires restarts)			
	If this option is not se	lected, content will be applied on the overlay and committed later.			
		< Previous Next > Summary Cancel			

f. Alerts options. Leave it as is. And then click Next.

### 3. Confirm the VMware Tools Deployment Settings and Complete the Wizard

a. On the Summary page of the Deploy Software Wizard, review the actions that will be taken by this deployment, and then click **Next**.



🔶 Deploy Software Wizard		×
Summary		
General Content Deployment Settings Scheduling User Experience Alerts Progress Completion	Details:         Deployment Settings         Pation: Install         Propriction Name: (Mware Tools 10.20         Deploration Version: 10.20 (Propriction Name: (Mware Tools 10.20)         Deploration Version: 10.20 (Propriction Name: (Mare Tools 10.20)         Deploration Version: 10.20 (Propriction Name: (Mare Tools 10.20)         Deploratin: (Propriction Name: Contert, Conterations	el

b. After the Progress page of the wizard finishes, review the actions that the wizard took, and then click **Close**.





#### VMware Tools deployment on Client Computer

The following steps provide details to verify the VMware Tools application is deployed to client computers.

- 1. Install VMware Tools in the client agent application Software Center
  - a. In the Software Center windows, click Applications.
  - b. Select the software "VMware Tools 10.2.0".
  - c. Click **INSTALL** to start VMware Tools installation.





d. After VMware Tools installation finishes and OS restarts, open **Software Center** and click **Installation Status.** Verify VMware Tools 10.2.0 is installed.

🔮 Software Center				
SCCM ORGANIZATIO				
Applications	<u>F</u> ilter: All	Sort by: Application name: A to Z	SEARCH	م
<b>∂</b> <u>U</u> pdates	NAME	PUBLISHER		plication <u>Catalog</u> web site
🔁 Operating Systems	VMware Tools 10.2		12/6/2017	Installed
Installation status	Viviware 100is 10.2	.0 viviware	12/6/2017	Installed
Device compliance				
Options				



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#### Frequently Asked Questions

#### 1. How to check if the deployment is completed?

- The following steps provide details to check the deployment status:
- 1) In the Configuration Manager console, click **Monitoring**.
- 2) In the **Monitoring** workspace, expand **Overview**, and then click **Deployments**.
- 3) Select the VMware Tools application to view status, and refer to **Completion Statistics** for details.

### 2. Why is VMware Tools not installed on client computers after deployment?

The following steps provide details for trouble shooting:

- Ensure the client computers is active In the Configuration Manager console, click Asserts and Compliance -> Overview -> Devices to check status of client computers
- Check the schedule setting when the application becomes available.
   Refer to step "Specify the general information for the deployment" for details.
- Check the detection rule setting if the file path and version of vmtoolsd.exe are correct.
   Refer to step "Configure Detection Methods to indicate whether the VMware Tools deployment type is already installed" for details.
- Check the cache directory(C:\Windows\ccmcache) on client computers to ensure the VMware Tools installation files are downloaded to localhost.
  - If yes, check the installation command by executing it on a test computer manually.
  - If not, double check items 1)-3) above.

### 3. What happens if I deployed multi versions of VMware Tools applications?

The highest version of VMware Tools will be installed finally.

