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

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



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.

https://my.wmw	ware.com/web/vmware/info/slug/datacenter_cloud_infrastructure/vmware_vsphere/6_5#drivers_tools 🔹 🖨 🖒 🛛	earch	- □ 戶- 命☆
d VMware vSphere	x		
/are [.]	Home / VMware vSphere		
	Download VMware vSphere	Product Resources	
	Bomiloud Minule vopilere	View My Download History	
CLOUD	Select Version: VMware Software Manager makes it easy to find, select, and download the content	Product Information	
8	6.5 needed to install or upgrade a VMware product or suite with the push of a button. 	Documentation	
ICTS	Cat Vaury Cabara Lizanza Kay	Support Resources	
ŝ	Get Your vsphere License Key	Support Resources	
IONS	Read More	0	
DADS	Driver / Tool Re	elease Date	
	> Driver CDs		
IONAL CES	> VMware Remote Console		
IER .	V VMware Tools		
AMS	VMware Tools 10.1.15 20	017-09-26 Go to Downloads	
ANY	VMware Tools 10.1.10 20	017-07-27 Go to Downloads	
	VMware Tools 10.1.7 20	017-05-18 Go to Downloads	
	VMware Tools 10.1.5 20	017-02-23 Go to Downloads	
	VMware Tools 10.0.12 20	016-10-25 Go to Downloads	
	VMware vRealize Orchestrator Plugin		

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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**.

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 Packages Approval Requests Global Conditions Appr-V Virtual Environments Windows Sideloading Keys Application Management Policies Assets and Compliance Software Library Monitoring Administration 		
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: Erowse 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.



Treate 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	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	pes	
General General Information Application Catalog Deployment Types Summary	Configure deployment types and the priority in which they will be applied for t application Deployment types include information about the installation method and the source files for this application.	his
Progress	Deployment types: Increase Priority Decrease Priority	
Completion	Elter	0
	Priorita Maria Tura Language	~
	There are to show in this view	
	Add Edit Conv Dele	te
	Pida Copy Doo	
	< <u>Previous</u> <u>Next</u> Summary Ca	ncel

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	Details: General Information: • Application name: VMware Tools 10.2.0 • Application name: VMware Tools 10.2.0 • Aubinistrator comments: • Publisher: VMware • Outware version: 10.2.0 • Optional reference: Categories: Owners: • scomadmin Support contacts: • scomadmin Application Catalog entries specified for the following languages: • en-US	
	Deployment type names: To change these settings, click Previous. To apply the settings, click Next. < <u>Previous</u> <u>Next</u> > <u>Summary</u> Cancel	

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

Folder Tools System Center Con	figuration Manager (Connected to CHN - Beijing	Site) (Evaluation, 131 days left)	- 🗆 ×
Home Folder	Create Prestaged Content File	Reinstate ⊜Copy ⊗Retire @Refresh Type → Export ➤ Delete	nt Move Move Move Classify Relationships Relationships Relationships
Software Library	Applications 1 items		X Search Add Criteria •
A CAPPlication Management	Icon Name	Deployment T	ypes Deployments Status
License Information for Store Apps Approval Requests Gold Conditions	VMware Tools 10.2.0		•
Windows Sideloading Keys Physication Management Policies	Application Properties	Application Statistics	Related Objects
Assets and Compliance	Manufacturer: VMware Superseded: No Comments:	Devices with Installation Failure: Users with Application: Users with Installation	
Monitoring		Failure: Users with Catalog Installations: Last Update:	
Ready	Summary Deployment Types Deployments		

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 Conf	iguration Manager (Connected to CHN -	BeijingSite) (Evaluation, 131 days lef	ft)		- 0 ×
F Home Folder					^ 🔞
Create Feedback Feedback Sarches - Feedback	Create Prestaged Content File Revision History Update Statistics Application	Retire Refire ment Type Export Dele	te Deployment Mo	we Classify Relationship	Properties s • ps Properties
← → ▼ 📰 \ → Software Library → Over	view Application Management	Applications			- 2
Software Library <	Applications 1 items				
4 🔮 Overview	Search			🗙 🔎 Sean	h Add Criteria 🔻
A 🔛 Application Management	Icon Name	A	Deployment Types	Deployments Status	
Applications	VMware Tools 10.2.0		0	0 Active	
Packages Approval Requests Global Conditions					
🚝 App-V Virtual Environments	VMware Tools 10.2.0				~
Number Sideloading Keys	Application Properties	Application Statistic	3	Related Objects	
	Software Version: 10.2.0	Devices with App	lication:	🐻 Content Status	=
Assets and Compliance	Manufacturer: VMwa Superseded: No	e Devices with Inst Failure:	allation		
Software Library	Comments:	Users with Applic Users with Install	ation: ation		
Monitoring		Failure: Users with Catalo	g		
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	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		n: Example: \\Server\Share\File	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		Х
General Informa	tion		
General General Information Content Detection Method User Experience Requirements	Specify general info Applications can have any specify how the content is	ormation for this deployment type r number of deployment types. Deployment types include links to content and settings that delivered.	
Dependencies	Nam <u>e</u> :	VMTools 10.2.0	
Summary	Administrator comments:	^	
Progress		×	
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	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	This option allows clients that us 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	 Configure rules to dete 	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
			•	
				Genue
				Gr <u>o</u> up
				Ungroup
	 Use a custom script to 	detect the presence of this deployment	type:	
	Script type:			Edit
	Script length:			
		< Previous	Next > Summ	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 ¼\VMWare \VMWare Tools\ Browse File or folder name: vmtoolsd.exe Image: Comparison of the file systems. 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 indicate presence of this application Image: The file system setting must exist on the target system to indicate the presence of this application Property: Image: Operator: Greater than or equal to Image: Comparison of the file system	Setting Type:	File System	
Type: File Path: ½ProgramFiles¼\VMWare\VMWare Tools\ Browse File or folder name: vmtoolsd.exe Image: Second Seco	Specify the file or fold	er to detect this application.	
Path: %ProgramFiles%\VMWare\VMWare Tools\ Browse File or folder name: vmtoolsd.exe Image: Compare the system of the 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: Compare the system of the s	Typ <u>e</u> :	File 🗸	
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 indigate presence of this application The file system setting must satisfy the following rule to ingicate the presence of this application The file system setting must satisfy the following rule to ingicate the presence of this application Property: Version Operator: Greater than or equal to 	<u>P</u> ath:	%ProgramFiles%\VMWare\VMWare Tools\ 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 ingicate the presence of this application Prgperty: Version Operator: Greater than or equal to	File or folder name:	vmtoolsd.exe	
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 Operator: Greater than or equal to			
Operator: Greater than or equal to) The file system set	☐ This file or folder is associated with a 32-bit application on 64-bit systems. tting must exist on the target system to indicate presence of this application	
	 The file system set The file system set Property: 	This file or folder is associated with a 32-bit application on 64-bit systems. 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	~
Value: 10.2.0.1608	 The file system set The file system set Property: Operator: 	This file or folder is associated with a 32-bit application on 64-bit systems. Iting must exist on the target system to indicate presence of this application Iting must satisfy the following rule to indicate the presence of this application Version Greater than or equal to	~ ~
	 The file system set The file system set Property: Operator: <u>V</u>alue: 	This file or folder is associated with a 32-bit application on 64-bit systems. 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 Greater than or equal to 10.2.0.1608	~ ~
	 The file system set The file system set Property: Operator: <u>V</u>alue: 	This file or folder is associated with a 32-bit application on 64-bit systems. 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 Greater than or equal to 10.2.0.1608	~ ~

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 $\qquad \qquad \qquad$	
Requirements	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 have ts are met before contr	ve before they ent is
Dependencies	Requirements:				
Summary	Dhas				0
Progress	Hiter	- ·			
Completion	Requirement Type	Operator	Values		
			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.



法 Create Deployment Type	Wizard				×
Dependencies					
General General Information Content	Specify software de	ependencies for th	is deployment type		
User Experience	Software dependencies an	e deployment types that mu	st be installed before this depl	oyment type can be installed.	
Requirements					
Dependencies	Soft <u>w</u> are dependencies:				
Summary	Name	Application	Deployment Type	Automatically Install	
Progress					
Completion					
			644	Edia Delet	
			A <u>d</u> a	Ealt Deleg	e
		< <u>F</u>	erevious <u>N</u> ext >	<u>S</u> ummary Car	ncel

- 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**.



法 Create Deployment Type	Wizard	×
Summary		
General General Information Content Detection Method User Experience Requirements Dependencies Summary Progress Completion	Details: Description Amme: VMTools 10.2. Amme: VMTools 10.2. Technology. Script Installer Animistrator comments: Brainistrator comments: Content location: (\127.0.0.1Source/VMTools\10.2.0. Persist in client cache: No Posted peer content distribution: Yes Blabled peer coper content distribution: Yes Blabled peer coper content distribution: Yes Installation program: setup.exe /s /v/qi Mainator Construction: Nature: Details: Details Ontent location: (\127.0.0.1Source/VMTools\10.2.0. Persist in client cache: No Postel peer content distribution: Yes Installation program: setup.exe /s /v/qi Blable peer Content distribution: Yes Distribution program: setup.exe /s /v/qi Installation program: setup.exe /s /v/qi Dig mequirement: Dig mequirement: Dig mequirement: Dig mequirements: Dig mequirements: Dig mequirements: Dig mequirements: Dig mequirements: Dig mequirements: Dig meruirements: Dig	
	< <u>P</u> revious <u>Next</u> > <u>Summary</u> Can	cel

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**.

Folder Tools System Center Con	figuration Manager (Connected to (CHN - BeijingSite) (Eval	uation, 131 days left)					-	
Home Folder									^ 🔞
i 🖉 💆 🐉	Create Prestaged Content File	- 🛅 💄	Reinstate Copy	- II -				1	
Create Feedback Saved Manage Access Searches Accounts	Update Statistics	Create Deployment Type	Export X Delete	Simulate Dep Deployment	loy Distribute Content	Move	Classify Rel	View lationships •	Properties
Feedback Search	Applicati	ion		Deployr	ment	Move	Re	elationships	Properties
🗲 🔶 👻 🔝 🔪 Software Library 🔸 Ove	rview Application Management	nt Applications 							- 2
Software Library	Applications 1 items								
4 🧬 Overview	Search						×P	Search	Add Criteria 🔻
 Application Management 	Icon Name	*	0	Deployment Types	Deployments	Status			
Applications	VMware Tools 10.2.0			1	0	Active			
[4] Global Conditions App-V Virtual Environments Windows Sideloading Keys	VMware Tools 10.2.0		Application S	itatistics		Re	lated Objects		
Polication Management Policies	Software Version:	10.2.0	Devices wi	th Application: 0			🐻 Content S	Status	
E Assets and Compliance	Manufacturer: Superseded:	VMware No	Devices wi Failure:	th Installation 0					-
Software Library	Comments:		Users with Users with	Application: 0 Installation					_
Monitoring			Failure: Users with	0 Catalog					
Administration			Installation Last Updat	is 0 e					
	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**.

蹖 Distribute Content Wizard		х
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	
	Concel	_
	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 DAdd 🔻
	Name Description Associations Remove
	There are no items to show in this view.
	< <u>P</u> revious <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.		
Available distribution points.			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	Details: 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 Close	

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 Cont	figuration Manager (Connected to	CHN - BeijingSite) (Eva	uation, 131 days left)				-	I ×
Feedback Search Manage Access Accounts	Create Prestaged Content File Revision History Dpdate Statistics Applica	Create Deployment Type	Reinstate Copy Retire Refresh Export Delete	Simulate Deployment Deployment	loy Distribute Content ment	Move Move	View Relationships • Relationships	Properties Properties
← → ▼ 📰 \ → Software Library → Ove	rview Application Managem	ent Applications 						- 2
Software Library Software Library	Applications 1 items Search Con Name VMware Tools 10.2.0	*	D	eployment Types I	Deployments 0	Status Active	C Search	Add Criteria 🔻
Apper Virtual Environments Windows Sideloading Keys Endots Annual Annual Annual Statement Policies	VMware Tools 10.2.0 Application Properties		Application S	tatistics		Related O	bjects	
Assets and Compliance Software Library Monitoring Ci. Administration	Software Version: Manufacturer: Superseded: Comments:	10.2.0 VMware No	Devices wit Devices wit Failure: Users with Failure: Users with Installation	h Application: 0 h Installation 0 Application: 0 Installation 0 Catalog s: 0		🐻 Cor	ntent Status	
	Summary Deployment Types	Deployments	Last Updat	8				

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 Content Deployment Settings Scheduling User Experience Alerts Summary Progress Completion	Specify general Software: Cglection: Use default dist	al information for this deployment VMware Tools 10.2.0 TestClientDevices tribution point groups associated to this collection istribute content for dependencies	Browse Bro <u>w</u> se
	<u>Comments</u> (optional):	
	L	d Braviour Next N	Summany
		< <u>Previous</u> <u>N</u> ext >	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 softw	vare is deployed	
Scheduling	Action:	Install	~	
User Experience Alerts	Purpose:	Available	~	
Summary Progress Completion	Require a	dministrator approval if users request this appl	lication	
		< <u>P</u> revious	<u>N</u> ext > <u>S</u> umr	nary 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			х		
User Experience					
General	Specify the user expe	prience for the installation of this software on the selected			
Content	devices				
Deployment Settings					
Scheduling	C	- factoria dan la const			
User Experience	Specify user experience setting	ig for this deployment	_		
Alerts	User notifications:	Display in Software Center, and only show notifications for computer restarts $\qquad \sim$	/		
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 Windows 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	Confirm the settings for this new deployment Detail: Deta	*

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 ORGANIZATION	I.			
Applications	<u>F</u> ilter: All 👻	Sort by: Application name: A to Z 🔹	SEARCH	Q
<i>C</i> Updates			Open the Ap	olication <u>C</u> atalog web site
Constanting Systems	NAME	PUBLISHER	INSTALL DATE	STATUS
- Operating systems	VMware Tools 10.2.0	VMware	12/6/2017	Installed
Installation status				
G Device compliance				
Options				



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.

