



# QUICKSTART GUIDE

## SYSTEMS IMAGING

Learn how to *quickly* configure the **imaging of your workstations** using the Kaspersky Security Center.

This is a *QuickStart* guide of this process. For more in-depth information, please refer to the official Kaspersky Security Center documentation

## Kaspersky Security Center 10 – Systems Imaging Guide

Kaspersky Security Center gives administrators the ability to deploy system images to network computers. This feature is unlocked as part of the Systems Management feature.

This guide assumes that the proper license has already been applied to Kaspersky Security Center. If this has not been done, please see the <u>Security Center & Endpoint Version 10 Licensing Quick Start Guide</u> for instructions.

### Prerequisites

- A Systems Management license, either included standalone or as part of a Kaspersky Endpoint Security Advanced or Total license
- Windows Assessment and Deployment Kit (WADK) installed to the server running Kaspersky Security Center
  - Both the Deployment Tools and Windows Preinstallation Environment (Windows PE) features must be installed
- The **DHCP Server** feature must be installed to a server that is not also running Kaspersky Security Center

### Notes

There are two methods to create an installation package which contains a system image. The first method is to capture an operating system image from a reference computer. The second method is to create an installation package from a WIM file.

For the first method, please <u>continue to page 2</u>.

For the second method, please <u>skip to page 11</u>.

*If an installation package containing a system image has been created and is ready for configuration, please <u>skip to page 16</u>.* 

If a system image has been configured and is ready for deployment to a bare metal machine, please <u>skip</u> to page 22.

If a system image has been configured and is ready for deployment to an existing machine, please <u>skip to</u> <u>page 26</u>.

## Capturing an Operating System Image from a Reference Computer

Follow the steps, below, on the server running Kaspersky Security Center.

1. Expand the **Remote installation** node. Select **Installation packages**. Click **Create installation** 



2. Select Create package with operating system image.

New	/ Package Wizard		×
$\Theta$	New Package Wizard		
	Select installation packa	ige type	
	Create in	nstallation package for a Kaspersky Lab application	
	Create in	nstallation package for specified executable file	
	Select ar package	n application from Kaspersky Lab database to create an installation	
	Create p The pad .WIM file	backage with operating system image cage can be created by taking an image of a reference computer or from a 2.	
		Cancel	

3. Select Create operating system image based off computer. Click Next.

• Select operating sy	stem image from W	/IM file		
Specify ,WIM file:				
Foliost computer for mostin	in OE imagai			energieren
OS	Proce	ssor archi	OS localization lan	guage

4. Define a task name. Click **Next**.

. 09	5 Imaging Task Creation Wizard		×
$\bigcirc$	OS Imaging Task Creation Wizard		
	Define the task name		
	Name: Create OS Image		
		Next	Cancel

5. Define an installation package name. Click **Browse...**.

ttings	
Installation package name:	
Windows 7 x64	
Computer from which the OS image will be t	taken:
	Browse
- Shared folder for storing the image:	
Shared folder for storing the image:	Browse
Shared folder for storing the image:	Browse
Shared folder for storing the image: Account with write rights to shared folde User name: Password:	Browse r:

6. Select the computer from which an image should be created. Click **OK**.

Managed computers  Deployment  Computers  Computers  Deployment  Computers  Computers  Deployment  Computers  Computers  Deployment  Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deployment Deploy	Add If target computers are not displayed in the list, click Add to type their names or IP addresses.
	OK Cancel

7. Click **Browse...** to select a shared folder to store the image.

Installation package name: Windows 7 x64	
Computer from which the OS image will b	pe taken:
ZS-W7-SOURCE	Browse
	Browse
Account with write rights to shared fol User name: Password:	Ider:

8. Select the desired shared folder. In this example, the manually-shared **Documents** folder is selected. Click **OK**.

<b>Q</b> Network			1
🛨 🖳 ZS-DC			
🕀 🚰 ZS-KSC			
E 🖳 ZS-KSC-TE	ST		
📕 Documer	nts		
🕀 📕 klshare			
🕀 🌉 Users			
₩ 1 TS-W7			

9. Enter the credentials to an account that has sufficient privileges to write to the selected folder. Click **Next**.

	New task wizard		
Se	ettings		
	Installation package name:		
]	Windows 7 x64		
3	Computer from which the OS image will be tak	ken:	
1	ZS-W7-SOURCE		Browse
2	Shared folder for storing the image:		Bro <u>w</u> se
	Shared folder for storing the image: \\ZS-KSC-TEST\Documents\ Account with write rights to shared folder:		Bro <u>w</u> se
	Shared folder for storing the image: \\ZS-KSC-TEST\Documents\ Account with write rights to shared folder: User name:	administrator	Bro <u>w</u> se
	Shared folder for storing the image: \\ZS-KSC-TEST\Documents\ Account with write rights to shared folder: User name: Password:	administrator	Bro <u>w</u> se
	Shared folder for storing the image: \\ZS-KSC-TEST\Documents\ Account with write rights to shared folder: User name: Password: Confirm password:	administrator	Bro <u>w</u> se
	Shared folder for storing the image: \\ZS-KSC-TEST\Documents\ Account with write rights to shared folder: User name: Password: Confirm password:	administrator	Browse

10. Select an option to determine what should happen if a reboot of the source computer is required. In this example, a forced reboot is selected. Click **Next**.

)	OS Imaging Task Creation Wizard	
	Selecting operating system restart option	
	Select an action that will be performed if reboot is required.	
	C Do not restart the computer	
	C Prompt user for action	
	Restart is required.	<u> </u>
	Repeat prompt every (min):	5 🚔
	Restart after (min):	30 -

11. Click **Add** to run the task as a certain account.



12. Fill in the information for the desired account(s). Click **OK**, then click **Next**.

5 Imagin	g Task Creation Wizard	
05	Imaging Task Creation Wizard	
Selecti	ng account to run task	
22	List of user accounts to be used to m	un the task. Accounts will be selected in the order listed.
	Account	?  ×
-		
	administrator	·
	Password:	5
	Confirm password	· · · · · · · · · · · · · · · · · · ·
		OK Cancel
		~
		Next
		Next

13. Select the desired schedule for the task. In this example, Manually is selected. Click Next.

05 Imaging Task Creation Wiza	Ird	
Configure task scheduling settings		
Scheduled start:	Manually	
	Every N hours Daily (daylight saving not supported) Weekly Monthly Once	
	Manually Immediately When new updates are downloaded t On virus outbreak On completing another task	to the repository
Run missed tasks		
🔲 Define task launch delay automatic	ally	
🗖 Randomize the task start with inter	rval (min):	1 2

14. Select **Run task after Wizard finishes** to run the task immediately if the **Immediately** option was not selected in the previous step. Click **Finish**.

0	5 Imaging Task Creation Wizard		×
0	OS Imaging Task Creation Wizard		
	Finish creating the task		
	Click the Finish button to create "Create OS Image" and complete the Wizard.		
	Run task after Wizard finishes		
		Finish	Cancel

15. The task should now be running on the desired computer. The amount of time the task takes to complete depends on several variables, including the size of the image and network speed.



16. The source computer will boot into WinPE to start a backup. The task status will remain the same. This creates the folder **OSDEPL\_BACKUP** in the share.

X:\windows\system32\cmd.exe - startnet.cmd	- • •
16.11.2015 09:50:55.488 Windows IP Configuration       Host Name	ype
16.11.2015 09:50:55.534 Attempt to send event OSDE_CAPTURING_READY_TO 16.11.2015 09:50:55.581 Attempt to send event is OK. 16.11.2015 09:50:55.581 Thread was created. 16.11.2015 09:50:55.581 Connect to share: \\ZS-KSC-TEST\Documents\ 16.11.2015 09:50:55.753 The connection to share is established. 16.11.2015 09:50:55.753 Try create folder \\192.168.169.101\Documents\ KUP\9a9894b6-338c-479c-8d14-d86635c0ea6a\. 16.11.2015 09:50:55.753 Backup	_START.

17. The source computer will reboot into Windows, and reboot again into WinPE after a short time to start an image capture. The task status will remain the same. This creates the folder **OSDEPL\_WORKING** in the share.

📼 X:\windows\system32\cmd.exe - startnet.cmd	
: minint-pvqe5fo Primary Dns Suffix : Node Type Enabled : NoEthernet adapter Ethernet: Connection-specific DNS Suffix : Description : Intel(R) PRO/1000 MT Network Connection Physical Address : 00-50-56-AF-AC-80 DHCP Enable d : Yes Autoconfiguration Enabled : Yes Link-lo cal IPv6 Address : fe80::c8c7:e383:2dfb:ca07%3(Preferred) IPv4 Addr ess : : 192.168.169.5(Preferred) Subnet Mask . : : 255.255.255.0 Lease Obtained : : Monday, November 16, 2015 10:42:19 AM Lease Expires : : 192.168.169.1 DHCP Serv	~
eF	
88.4.4 NetBIOS over Tcpip : Enabled 16.11.2015 10:42:35.351 Attempt to send event OSDE_CAPTURING_READY_TO_START.	
16.11.2015 10:42:35.398 Thread was created. 16.11.2015 10:42:35.398 Thread was created. 16.11.2015 10:42:35.398 Connect to share: \\ZS-K§C-TEST\Documents\	
16.11.2015 10:42:35.476 The connection to share is established. 16.11.2015 10:42:35.476 Try create folder \\192.168.169.101\Documents\OSDEPL_WOR KING\9a9894b6-338c-479c-8d14-d86635c0ea6a\ca0d8206-1687-4167-8822-c21cfd5d2e7a\e	
хес\. 16.11.2015 10:42:35.585 Try capture image _	~

18. When the image capture has completed, the source computer will start to restore from the backup taken earlier.

📼 X:\windows\system32\cmd.exe - startnet.cmd	
Suffix : Description : Intel(R) PRO/1000 MT Network / Connection Physical Address : 00-50-56-AF-AC-80 DHCP Enable d : Yes Autoconfiguration Enabled : Yes Link-lo cal IPv6 Address : fe80::c8c7:e383:2dfb:ca07%3(Preferred) IPv4 Addr	•
ess	
er DHCPv6 IAID	
16.11.2015 10:42:35.351 Attempt to send event OSDE_CAPTURING_READY_TO_START. 16.11.2015 10:42:35.382 Attempt to send event is OK. 16.11.2015 10:42:35.398 Thread was created. 16.11.2015 10:42:35.398 Connect to share: \\ZS-KSC-TEST\Documents\	
16.11.2015 10:42:35.476 The connection to share is established. 16.11.2015 10:42:35.476 Try create folder \\192.168.169.101\Documents\OSDEPL_WOR KING\9a9894b6-338c-479c-8d14-d86635c0ea6a\ca0d8206-1687-4167-8822-c21cfd5d2e7a\e xec\.	
16.11.2015 10:42:35.585 Try canture image 16.11.2015 11:31:26.544 Capturing ok. 16.11.2015 11:31:26.544 The capturing completed. 16.11.2015 11:31:26.544 Try to restore	State of State

19. The image can be viewed in the Security Center in the **Installation packages** sub-node of the **Remote installation** node.

Name 🔺	Application	Version number
Exchange ActiveSync Mobile Device Server	Managing mobile devices via Exchange server	10.2.434
iOS MDM Mobile Device Server (10.2.434)	Management of iOS-based mobile devices	10.2.434
Kaspersky Endpoint Security 10 for Windo	Kaspersky Endpoint Security 10 Service Pack 1 for Windows	10.2.2.10535
Kaspersky Security Center Network Agent	Kaspersky Security Center Network Agent	10.2.434
Windows 7 x64	Microsoft Windows 7 Professional Service Pack 1 (build 7601), 64-bit	6.1.7601

Before the image is deployed, it can be configured to include any necessary drivers and modify the sysprep.exe configuration file. For instructions on how to prepare the image, please <u>skip to page 16</u>.

Follow the steps, below, on the server running Kaspersky Security Center.

1. Expand the **Remote installation** node. Select **Installation packages**. Click **Create installation package**.



2. Select Create package with operating system image.

![](_page_12_Picture_4.jpeg)

3. Select Select operating system image from WIM file. Click Select....

Nev	v Package Wizard					2
0	New Package Wizard					
1	Operating system image	source				
	C Create operating s	ystem image	based off comput	er		
	Select operating sy	stem image	from WIM file			
	Specify .WIM file:					
					Select	
	1. 					
	Select computer for creati	ng OS image:	Dracasser archi	OS localizatio		
	03		Processor architt		Intanguage	
						Grand
					Next	Cancel

4. Navigate to the desired WIM file. Click **Open**.

![](_page_13_Picture_3.jpeg)

5. Select the desired OS image. In this example, **Windows 8.1 Pro** is selected. Click **Next**.

New Package Wizard		
perating system image sour	ce	
C Create operating system	n image based off comp	uter
• Select operating system	image from WIM file	
Specify .WIM file:		
D:\sources\install.wim		Select
Select computer for creating OS	image: Processor archi	. OS localization language
Select computer for creating OS OS Windows 8.1 Pro	image: Processor archi AMD64 AMD64	. OS localization language English (United States) English (United States)
Select computer for creating OS OS Windows 8.1 Pro	image: Processor archi AMD64 AMD64	. OS localization language English (United States) English (United States)
Select computer for creating OS OS Windows 8.1 Pro Vindows 8.1	image: Processor archi AMD64 AMD64	. OS localization language English (United States) English (United States)
Select computer for creating OS OS Windows 8.1 Pro Windows 8.1	image: Processor archi AMD64 AMD64	. OS localization language English (United States) English (United States)
Select computer for creating OS OS Windows 8.1 Pro Vindows 8.1	image: Processor archi AMD64 AMD64	. OS localization language English (United States) English (United States)

6. Wait for the image files to be extracted to a temporary folder.

Extracting operating s	system image
Files of the selected ope folder on the computer.	erating system image are being extracted to a temporary This may take a few minutes.
	Cancel

7. Define an installation package name. Click **Next**.

🔜 Ne	w Package Wizard		x
0	New Package Wizard		
	Defining installation package name		
	Name:		
	Window 8.1 Pro x64		
		Next	1
		Titext Cancel	

8. Wait for the package files to be uploaded to the Administration Server. This may take several minutes.

🔜 Ne	w Package Wizard	×
$\bigcirc$	New Package Wizard	
	Uploading installation package to the Administration Server	
	Uploading package files to Administration Server	
		Next Cancel

9. Click **Finish** when the package has been uploaded.

🔜 Net	w Packag	ge Wizard	×
$\bigcirc$	New	Package Wizard	
		The installation package 'Window 8.1 Pro x64' for 'Windows 8.1 Pro v. 6.3.9600' has been successfully created.	
		Finish	

10. The image can be viewed in the Security Center in the **Installation packages** sub-node of the **Remote installation** node.

Name 🔺	Application	Version number
Exchange ActiveSync Mobile Device Server	Managing mobile devices via Exchange server	10.2.434
iOS MDM Mobile Device Server (10.2.434)	Management of iOS-based mobile devices	10.2.434
Kaspersky Endpoint Security 10 for Windo	Kaspersky Endpoint Security 10 Service Pack 1 for Windows	10.2.2.10535
Kaspersky Security Center Network Agent	Kaspersky Security Center Network Agent	10.2.434
Windows 7 x64	Microsoft Windows 7 Professional Service Pack 1 (build 7601), 64-bit	6.1.7601
Window 8.1 Pro x64	Windows 8.1 Pro	6.3.9600

Before the image is deployed, it can be configured to include any necessary drivers and modify the sysprep.exe configuration file. For instructions on how to prepare the image, please <u>continue to page 16</u>.

## Preparing an Operating System Image for Deployment to a Target Computer

Follow the steps, below, on the server running Kaspersky Security Center.

1. Expand the **Remote installation** node. Select **Installation packages**. Right-click on the desired system image and select **Properties**.

![](_page_17_Picture_3.jpeg)

2. Select Additional drivers. Click Add....

🔜 Properties: Windows 7 x64			? _ 🗆 🗙
Sections	Additional drivers		
General Additional drivers 1.			Q
sysprep.exe settings	Driver	2. Add Rem	ove
Help	1	OK Cancel	Apply

3. Select the desired driver and click **OK**. If the driver has not been added to the Administration Server database, click **Add...**.

Select drivers from the OS drivers database of Administration Server. If you cannot find the r in the database, you can add it to the database from a folder on a disk.	equired driver
Driver	Q
Driver	
Add Remove OK	Cancel

4. Define the name that should be displayed for the desired driver. Click Select....

![](_page_18_Picture_3.jpeg)

5. Browse for the folder containing the desired driver. Click **OK**, then **OK** again.

	📙 vmusbmo	use.inf_amo	16 <mark>4_neutral_</mark>	2! <b></b>	cannot find
	vmxnet.ir vmxnet3r	nf_amd64_n ndis6.inf_am	eutral_4e0e0 d64_neutral	DE	
	volsnap.ir	nf_amd64_n f_amd64_ne	eutral_7499 eutral_df8be	a4 a4	
<u>.</u>	wave.inf	nf_amd64_n _amd64_neu	eutral_be11 itral_7a0a0b	27 dm 1€ ▼	ninistration
Folder: vmxr	et3ndis6.inf_	_amd64_neu	tral_812903	7b2d	
Make New Fold	er	OK	Cance		
C:\Windows\Syst	em32\Drivers	Store FileRe	pository\vm	Sel	ect

6. The driver now appears in the **Select driver** list and can be added into the deployment package. Select the driver and click **OK**.

Select driver		
Select drivers from th in the database, you	: OS drivers database of Administration Server an add it to the database from a folder on a c	r. If you cannot find the required driver disk.
		<u></u>
TANKIET J NDI 30		
Add	Remove	OK Cancel

7. Select sysprep.exe settings to select or modify the configuration file for the system image. To modify, select **Specify custom values of main settings**. Click **Settings**. No

	ote	that	these	settings	can	also	be	customized	during	OS	deploymen	it.
--	-----	------	-------	----------	-----	------	----	------------	--------	----	-----------	-----

Properties: Windows 7 x64		? _ 🗆 🗙
Sections	sysprep.exe settings	
General	This configuration file is used to complete configuration of the installed OS image	
Additional drivers		
sysprep.exe settings		
		Learn more
	C Use default configuration file	
	Specify custom values of main settings	<u>Settings</u>
	C Specify configuration file	
Help	OK Cancel	Apply

8. Select Installation. This section allows an administrator to select the Installation language (MUI), Region, and Time zone, specify a Key, set the local administrator password, and define the computer protection level.

🔜 Settings		?					
Sections	Installation						
Installation Network Additional installation scripts Additional packages	Installation language (MUI): English (United States) Region: English (United States) Time zone: (UTC-05:00) Eastern Time (US & Canad						
	Key: X0000-30000-30000-300000						
	Set administrator password Administrator password: Confirm administrator password:	•••••					
	Computer protection level:						
	Install critical and recommended updates (recommended)						
	Do not show License Agreement page						
<u>Help</u>	1	OK Cance	2				

9. Select **Network**. This section allows an administrator to specify the computer name and type of network, create a computer user account, and connect the computer to a domain.

🔝 Settings		<u>? - D ×</u>				
Sections	Network					
Installation Network Additional installation scripts Additional packages	Computer name: TARGET-COMPUTER Type of network for computer connection: Working network Computer user account: CompUser Password: Confirm password:					
	Connect computer to domain Domain: Domain administrator account: Password:	domain domain\administrator				
	Confirm password:	mputer				
<u>Help</u>		OK Cancel				

10. Select **Additional installation scripts**. This section allows an administrator to specify scripts to execute when deploying the system image to a target machine. The scripts may be launched asynchronously, synchronously, at the first system logon, or when the operating system installation is finalized.

🔜 Settings		? <u>- D ×</u>
Sections	Additional installation scripts	
Installation	Additional scripts to be executed when deploying the operating system ima	age on client computers
Additional installation scripts		
Additional packages	Scripts launched asynchronously Re	eboot is required
		Add
Help		OK Cancel

11. Select **Additional packages**. This section allows an administrator to deploy additional software when deploying the system image. Clicking **Add...** lists the applicable packages from the Security Center storage.

Settings	? <u>-</u> □×
Sections	Additional packages
Installation	Additional installation nackages to be installed when deploying the operation system image on client
Network	computers.
Additional installation scripts	
Additional packages	
	▲
Help	OK Cancel

The system image is now prepared for deployment to a target computer. For instructions on how to deploy an image to a target bare metal computer, please <u>continue to page 22</u>.

For instructions on how to deploy an image to an existing computer, please <u>skip to page 26</u>.

# Deploying an Operating System Image to a Bare Metal Computer

Follow the steps, below, on the server running Kaspersky Security Center.

1. Expand the **Remote Installation** node. Select **Deploy computer images**. Click **Manage the list of PXE servers in the network**.

📕 Kaspersky Security Center						×			
File Action View Help									
🗢 🏓 📶 🖬 🖬 🖬									
Kaspersky Security Center     Administration Server Z3+SSC-TEST     Managed computers     Administration Server tasks     Tasks for specific computers     User accounts     Reports and notifications     Application management     Peloy computer mages     Installation packages     Whole Device Management     Whasigned devices     Repositories	Deploy Control point fo Add MAC Import M Managet Oview the Configure Add/Remov Refresh	Getting started > Remote installation > Deploy computer images         Deploy computer images         Control point for deploying computer images to devices that requested operating system and software installation through PXE server.         Add MAC address of target computer         Import MAC addresses of target computers from file         Manage the list of PXE servers in the network         Very the list of OS images         Configure driver set for Windows Preinstallation Environment (WinPE)         Add Remove columns         P Refersh							
				·····	Text:	٩			
	MAC address	Detection *	Computer name	IP address	Status	< No selected items >			
•	1				Þ				
Requests for image installation: 0									

2. Click **Add...**.

🔜 Properties: Deploy computer images		? _ 🗆 🗙					
Sections	PXE servers						
PXE servers	PXE servers in the network:						
	Address	Status					
	Refresh statuses	Add Properties					
Help		OK Cancel Apply					

🔝 Properties: Deploy	computer images	?×
Sections	PXE servers	
Sections PXE servers	PXE servers	
		OK Cancel
<u>Help</u>		OK Cancel Apply

4. Return to the **Deploy computer images** node. Click **Add MAC address of target computer** if the list of computers is empty.

If no computers appear, no machines have yet booted into WinPE.

3. Select the Kaspersky Security Center server. Click **OK** three times.

File Action Vew Vec   Carected y Security Center Manaptation Serve takes Take of separation computer images Deploy computer images to device that requested operating system and software installation through P/E server. E Add MAC address of Target computers Total also package E Manaptation mageneric Manaptation mageneric Manaptation mageneric Manaptation Serve takes Deploy computer images to device that requested operating system and software installation through P/E server. Manaptation mageneric Manaptatio	Kaspersky Security Center						<u>_ 5 ×</u>
Computer visuality control installation > Deploy computer images Control your is add on Server 24:45C-1551 Add Address of Larget computers Reports and notifications Reports and notifications Report and notifications Remote installation Manage the last of PXE servers in the network Installation packages Report MAC address of Carget computers MAC address Detection * Computer name IP address Status Status Name	File Action View Help						
Certify Center  Center  Certify Center  Cente	🗢 🔿 🗾 🛅 🖾 🌾 🐢						
Text:   MAC address Detection * Computer name IP address Status A No selected items >	Administration Server ZS-KSC-TEST     Administration Server ZS-KSC-TEST     Administration Server ZS-KSC-TEST     Administration Server tasks     Administration Server tasks     Tasks for specific computers     User accounts     Application management     Application management     Destov computer mages     Trataliation packages     Trataliation packages     Menositing and the position of the server tasks     Application packages     Monosement     Set User Server Serv	Deploy Control point for Add MAC Timport M Anange t View the I Configure Add/Remov Refresh	computer r deploying computer address of target AC addresses of ta he list of PXE serve list of OS images driver set for Win ve columns	images images to devices that requ computer riget computers from fil ers in the network dows Preinstallation Env	Gettir ested operating syste e ironment (WinPE)	ng started > Re	emote installation > Deploy computer images
MAC address Detection  Computer name IP address Status No selected items >					<u></u>	Text:	Q
		MAC address	Detection *	Computer name	IP address	Status	< No selected items >
	•	•				Þ	

5. Enter the target computer's MAC address, with each group of two hexadecimal digits separated by colons (:). Click **OK**.

? ×

6. Right-click on the target computer and select Assign OS image installation package.

MAC address	Detection 🔻	Computer name	IP address
00:50:56:af:75:b3	11/17/2015 10:	10.00	197 168 169 6
		Assign OS image in	stallation package
		Cancel installation	of OS image package
		All Tasks	۲
		Delete	
		Export list	
		Properties	

7. Select the installation package containing the desired OS image, the desired disk number for installation, and the desired configuration file. For this example, **Specify custom values of main settings** has been selected. Click **OK**.

![](_page_25_Picture_5.jpeg)

8. The target computer will receive the image.

X:\windows\system32\cmd.exe - startnet.cmd	23
cal IPv6 Address : fe80::284b:6e1f:2767:55f8%3(Preferred) IPv4 Add ess : 255.255.0 Lease Obtained : Tuesday, November 17, 2015 6:39:31 PM Lease Expires : Tuesday, November 24 2015 6:39:30 PM Default Gateway : 192.168.169.1 DHCP Ser er : : : : : : : : : : : : : : : : :	۲ م ۲ م
0352214 DHCPv6 Client DUID 00-01-00-01-1D-DD-9D-3A-00-50-56- D-75-D2 DNC Services	A
8.8.4 NetBIOS over Tcnin Enabled	
17.11.2015 18:39:36.685 Attempt to register.	
17.11.2015 18:39:36.685 My ip and mac: 192.168.169.6, 005056af75b3.	
17.11.2015 18:39:37.247 Registration number is 3.	
17.11.2015 18:39:37.263 Attempt to send status_PCS_INITIAL.	
17.11.2015 18:39:37.263 Received command PCC_IDLE.	
17.11.2015 18:43:07.123 Received command PCC_START_INSTALL.	
17.11.2015 18:43:07.138 Connect to share: \\ZS-KSC-TEST\KLSHARE	
17.11.2015 18:43:07.248	e
c\os_image.wim	
17.11.2015 18:43:07.248 diskpart /s script.txt	
17.11.2015 18:43:21.904 Attempt to send status PCS_OSIMAGE_INSTALL_INPROG.	
17.11.2015 18:43:21.935 Received command PCC_IDLE.	
17.11.2015 18:43:21.935 The image is being applied.	
17.11.2015 18:43:21.935 imagex.exe /apply "\\192.168.169.101\KLSHARE\OsImages\p	×
e_osimage_package_6.1.7601\exec\os_image.wim" 1 C:	
	V.

In the Security Center console, the installation status of the target computer will change to **Deploying OS image**.

Installation req time:	uest send	11/17/2015 10:45:59 AM
MAC address:		00:50:56:af:75:b3
Installation sta	tus:	Deploying OS image
Installation sta description:	tus	Connected.
Installation pac	:kage:	Windows 7 x64
IP address:		192.168.169.6
Computer name	e:	
MAC addresses	conflict	No
Motherboard:	440BX Des Platform	ktop Reference
CPU:	Intel(R) Xe @ 2.00GH	eon(R) CPU E5-2640 v2 z
RAM:		
Drive:	VMware Vi Device	rtual disk SCSI Disk
Network adapter:	Intel(R) PF Connection	RO/1000 MT Network

9. When the deployment has succeeded, the target computer will boot into Windows setup and apply the settings in the configuration file, if applicable.

The image has now been deployed from the Security Center server to a bare metal machine. The target computer is now ready for use.

## Deploying an Operating System Image to an Existing Computer

Follow the steps, below, on the server running Kaspersky Security Center.

- 1. Expand the **Remote Installation** node. Select **Installation packages**. Right-click on the desired system image. Click **Install application**. In this example, **Windows 8.1** has been selected.
  - Kaspersky Security Cente \_ 8 × File Action View Help 🗢 🔿 🖄 📅 🔯 🛯 🖬 😻 Kaspersky Security Center

    Administration Server ZS-KSC-TEST

    Managed computers Getting started > Installation packages Administration Server tasks Installation packages Administration Server tasks Tasks for specific computers User accounts Computer Second Secon Create installation package You have the option of creating installation packages for remote installation of Kaspersky Lab products, third-party products, or scripts. You can also create packages for deploying operating systems from images. You can create packages for deploying operating systems from images by making OS images from reference computers or from WIM files. Deploy computer images
     Installation packages
     Mobile Device Management Manage packages of mobile applications Mobile applications packages are intended for installation on mobile devices not using Kaspersky Security Center. For example, a mobile applications package can be sent to a user via email or can be uploaded to the Web server for further downloading and installation. Unassigned devices
     Repositories View the list of stand-alone packages Stand-alone installation packages are intended for installation not using Kaspersky Security Center. For example, a stand-alone package can be sent to a user via email or can be uploaded to the Web server for further downloading and installation. Stand-alone packages are created based on an existing installation package and inherit its settings. View current version of Kaspersky Lab applications View report on versions of installed applications Add/Remove columns Refresh Name ^ Application Window 8.1 Pro x64 Exchange ActiveSync Mobile Device Server... Managing mobile devices via Exchange server Application: Windows 8.1 Pro 6.3.9600 iOS MDM Mobile Device Server (10.2.434) Management of iOS-based mobile devices Version: Kaspersky Endpoint Security 10 for Windo... Kaspersky Endpoint Security 10 service Pack 3187550 KB Kaspersky Security Center Network Agent ... Kaspersky Security Center Network Agent Palate install application Delete installation package Window 8.1 Pro x64 Install application Windows 7 x64 sional Service Pac Group by column Delete Export list.. Properties 4 • ion packages: 6

## 2. Click Select computers for deployment.

lecting com	puters for installation
	Deploy to a group of managed computers
	Use this installation mode if you have already included computers in administration groups. The application will be installed on all matching computers from the selected group and its subgroups.
-	Select computers for deployment
	Use this installation mode to install the application on computers that are not included in administration groups (for example, at the first system deployment). You should also use this option when you need to install the application on selected computers.
Compute	an advantation of the contract of the contract on the test of the second state of the
not be at	rs where the same of facer version of the selected application is already installed will fected.

3. Select the desired computer(s) to deploy the system image. Click Next.

📘 Rem	note Installation Wizard	2
9	Remote Installation Wizard	
9	Selecting computers for installation	
	Managed computers     Deployment     ZS-W7-SOURCE	Add
	ZS-W7-TARGET	If target computers are not displayed in the list, click Add to type their names or IP addresses
		audi esses.
		Next Cancel

4. Select the desired methods for downloading the installation package. For this example, Using Microsoft Windows resources by means of Administration Server has been selected.

🔜 Re	mote Installation Wizard		×
0	Remote Installation Wizard		
	Defining remote installation task settings		
	Force download of the installation package		
	Using Network Agent		
	Using Microsoft Windows resources by means of Update Agents		
	I ✓ Do not install application if it is already installed		
		Next	Cancel

5. Select the desired restart procedure. For this example, **Restart the computer** has been selected.

🔜 R	emote Installation Wizard	×
G	Remote Installation Wizard	
	Selecting action if operating system restart is required during installation	
	Select the action that will be performed if application installation requires an operating system restart.	
	O Do not restart the computer	
	Restart the computer	
	Computer will be restarted automatically	
	C Prompt user for action	
	User will be prompted to restart computer Prompt will appear every 5 minutes Computer will be restarted after 30 minutes	
	Modify	
	Force dosing the applications in blocked sessions	
		. 1
	Next C	ancel

### 6. Click Add.

![](_page_29_Picture_3.jpeg)

7. Fill in the information for the desired account(s). Click **OK**, then click **Next**.

Remote Installation Wizard		
Selecting accounts to access the c	omputers	
Account		
4 <u></u>		
administrator		Learn mor
Password:	•••••	Add
Confirm password:	•••••	Properties
	OK Cancel	
		┫ 🕹 🔰
		Next C

8. Click **Next** to start deployment.

📘 Rem	note Installation Wizard	×
9	Remote Installation Wizard	
s	Starting installation	
	Click Next to start deployment.	
		Next Cancel

9. A deployment task will be created and will automatically start on the selected computers. Click **Next**.

Remote Installation Wizard         Starting installation         The deployment has successfully started.
Starting installation The deployment has successfully started.
The deployment has successfully started.
✓ Deployment task created
Septoyment task started
Click Next for details.
Next

10. The installation files will be copied over to the target machine(s) and will begin to run.

![](_page_31_Figure_3.jpeg)

11. The target machine(s) will need to be rebooted. If prompted, click **Restart**.

	klpxeut.exe	
	Restart is required	
Wou	ld you like to restart your operating sy	stem now?

In the Security Center console, the task status will change to **Restart is required**.

![](_page_32_Figure_3.jpeg)

12. The target computer will receive the image and start to apply it. This process will take several minutes.

C145	X:\windows\system32\cmd.exe - startnet.cmd	- • ×
X:\windows\syste	m32>wpeinit	^
X:\windows\syste	m32>start	
X:\windows\syste RevertBootConfig RevertBootConfig Stop trace. Star 19.11.2015 12:07 : minint-ev Enabled Suffix .: D Connection Phy d cal IPv6 Address ess cal IPv6 Address ess 50352214 DH 56-AF-C6-F0 DN 19.11.2015 12:07 19.11.2015 12:07 19.11.2015 12:07 19.11.2015 12:07 19.11.2015 12:07 19.11.2015 12:07 19.11.2015 12:07 19.11.2015 12:07	m32>X:\OSDTools\klpxeut.exe uration. uration ok. t trace to C:\Windows\TEMP\\$klpxeut.winpe.log. :11.037 Windows IP Configuration Host Name K3igo Primary Dns Suffix : Node Ty : Hybrid IP Routing Enabled No W : NoEthernet adapter Ethernet: Connection-spe escription : 00-50-56-AF-C6-F0 I : Yes Autoconfiguration Enabled : Yes : fe80::a173:9e12:efbf:45a4%3(Preferred) : 192.168.169.8(Preferred) Subnet Mask 55.255.0 Lease Obtained : 192.168.169. Servers : 00-01-00-01-1D-DF-E4 S Servers : 8.8.8.8 8.8.4.4 NetBIOS over Tcpip : Enabled :11.116 Attempt to send event OSDE_INSTALLING_READY_TO :11.225 Thread was created. :11.225 Connect to share: \\ZS-KSC-TEST\KLSHARE :11.235 The disk is being formed :25.897 The image is being applied	pe INS Proxy scific DNS TNetwork DHCP Enable Link-lo IPv4 Addr Ay, November Ay, November 1 DHCP 1-37-00-50- D_START.

13. When the deployment has succeeded, the target computer will boot into Windows setup and apply the settings in the configuration file, if applicable.

The image has now been deployed from the Security Center server to a machine with an existing operating system. The target computer is now ready for use.