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 Security Center & Endpoint Version 10 Licensing Quick Start Guide 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 continue to page 2.

For the second method, please skip to page 11.

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

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

If a system image has been configured and is ready for deployment to an existing machine, please skip to page 26.
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 package**.

![Kaspersky Security Center screenshot showing the creation of an installation package](image-url)
2. Select **Create package with operating system image**.

3. Select **Create operating system image based off computer**. Click **Next**.
4. Define a task name. Click **Next**.

5. Define an installation package name. Click **Browse**...
6. Select the computer from which an image should be created. Click **OK**.

7. Click **Browse...** to select a shared folder to store the image.
8. Select the desired shared folder. In this example, the manually-shared Documents folder is selected. Click OK.

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

![Selecting operating system restart option](image1.png)

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

![Selecting account to run task](image2.png)
12. Fill in the information for the desired account(s). Click **OK**, then click **Next**.

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

![Image of the OS Imaging Task Creation Wizard]

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.

![Image of a running task]

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.
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.

18. When the image capture has completed, the source computer will start to restore from the backup taken earlier.
19. The image can be viewed in the Security Center in the **Installation packages** sub-node of the **Remote installation** node.

<table>
<thead>
<tr>
<th>Name</th>
<th>Application</th>
<th>Version number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exchange ActiveSync Mobile Device Server...</td>
<td>Managing mobile devices via Exchange server</td>
<td>10.2.434</td>
</tr>
<tr>
<td>iOS MDM Mobile Device Server (10.2.434+)</td>
<td>Management of iOS-based mobile devices</td>
<td>10.2.434</td>
</tr>
<tr>
<td>Kaspersky Endpoint Security 10 for Windows...</td>
<td>Kaspersky Endpoint Security 10 Service Pack 1 for Windows</td>
<td>10.2.2.10535</td>
</tr>
<tr>
<td>Kaspersky Security Center Network Agent...</td>
<td>Kaspersky Security Center Network Agent</td>
<td>10.2.434</td>
</tr>
<tr>
<td>Windows 7 x64</td>
<td>Microsoft Windows 7 Professional Service Pack 1 (build 7601), 64-bit</td>
<td>6.1.7501</td>
</tr>
</tbody>
</table>

*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 [skip to page 16](#).*
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**.
3. Select **Select operating system image from WIM file**. Click **Select...**.

4. Navigate to the desired WIM file. Click **Open**.
5. Select the desired OS image. In this example, **Windows 8.1 Pro** is selected. Click **Next**.

6. Wait for the image files to be extracted to a temporary folder.
7. Define an installation package name. Click **Next**.

8. Wait for the package files to be uploaded to the Administration Server. This may take several minutes.
9. Click **Finish** when the package has been uploaded.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Application</th>
<th>Version number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exchange ActiveSync Mobile Device Server...</td>
<td>Managing mobile devices via Exchange server</td>
<td>10.2.434</td>
</tr>
<tr>
<td>IOS MDM Mobile Device Server (10.2.434)</td>
<td>Management of iOS-based mobile devices</td>
<td>10.2.434</td>
</tr>
<tr>
<td>Kaspersky Endpoint Security 10 for Windows</td>
<td>Kaspersky Endpoint Security 10 Service Pack 1 for Windows</td>
<td>10.2.2.10535</td>
</tr>
<tr>
<td>Kaspersky Security Center Network Agent...</td>
<td>Kaspersky Security Center Network Agent</td>
<td>10.2.434</td>
</tr>
<tr>
<td>Windows 7 x64</td>
<td>Microsoft Windows 7 Professional Service Pack (build 7601), 64-bit</td>
<td>6.1.7601</td>
</tr>
<tr>
<td>Window 8.1 Pro x64</td>
<td>Windows 8.1 Pro</td>
<td>6.3.9600</td>
</tr>
</tbody>
</table>

**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 continue to page 16.**
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.

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

4. Define the name that should be displayed for the desired driver. Click **Select**.
5. Browse for the folder containing the desired driver. Click OK, then OK again.

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

   *Note that these settings can also be customized during OS deployment.*

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.
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.

![Network Settings Screen](image)

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.

![Additional Installation Scripts](image)
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.

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 **continue to page 22**.

For instructions on how to deploy an image to an existing computer, please **skip to page 26**.
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.

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

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.*
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**.

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.
8. The target computer will receive the image.

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

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.

2. Click **Select computers for deployment**.
3. Select the desired computer(s) to deploy the system image. Click **Next**.

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

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

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

10. The installation files will be copied over to the target machine(s) and will begin to run.
11. The target machine(s) will need to be rebooted. If prompted, click **Restart**.

In the Security Center console, the task status will change to **Restart is required**.
12. The target computer will receive the image and start to apply it. This process will take several minutes.

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.*