KASPERSKY SECURITY CENTER 10 & KASPERSKY SECURITY FOR SERVER

Testing of Installation base on the AWS server

Abstract

This document create to present the result of testing installation of KSC 10 and the Kaspersky Security for Server (ks4w). The result show the component that contain in the KES console if the KES install into the server. This document also show the Network Polling to push Network Agent remotely on the AWS server. Perform Backup & Restore the KSC.

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Introduction

For this testing environment, have create two (2) AWS Server that name as KSC Server and KES Server.

Before install the KSC, make sure all the port are open and close the Windows Firewall for both server. Install the telnet client and server on the both server.

Installation Kaspersky Security Center on Windows Server 2012 (KSC Server)

After installation and active the license of KSC into the server, click **Policies** (**Managed computers** > **Policies**), double click on Kaspersky Endpoint Security 10. Refer Figure 1.

	Computers	Policies	Tasks		
Jame Status Kaspersky Endpoint Security 10 Service Pack 1 Maintenance Release 2 for Windows Active	Create a policy	Import policy	y from file	Add/Remove columns	
	Name		~		Status
Kaspersky Security Center 10 Network Agent Active					
				intenance Release 2 for Windows	
				intenance Release 2 for Windows	

Figure 1: List of Policies

Then, select **Firewall > Setting (Configure rules for Application Privilege Control in the operating system)**. Refer to Figure 2.

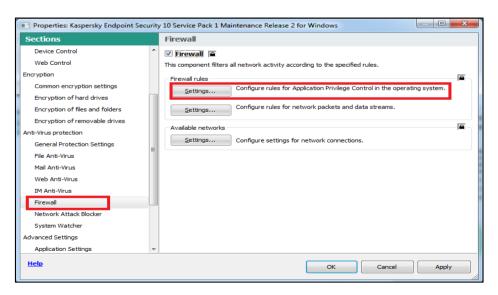


Figure 2: Properties: KES 10

Select **Network packet rules > Remote Desktop network activity > Edit**. Refer Figure 3.

🔀 Firewall		_								
Application control rules Network packet rules Networks										
Configure network packet rules Kaspersky Endpoint Security 10 for Windows monitors inbound and outbound network activities by using network packet rules created by default. You can create a new set of conditions and actions to take on network packets and data streams by adding or editing network packet rules.										
🕂 Add 🖉 Edit 🔀 Delete 🕆 Move up 🕹 Move down										
Network service 🕀	Permission	Address	E 🔺							
Requests to DNS server over TCP										
Requests to DNS server over UDP	W									
Sending e-mails	W									
Any network activity	~	Trusted networks								
Any network activity	W	Local networks								
Remote Desktop network activity	0									
✓ TCP connections through local ports	Image: CP connections through local ports Image: UDP connections through local ports									
UDP connections through local ports										
Incoming TCP stream	T									
✓ Incoming UDP stream	T									
ICMP Destination Unreachable incoming responses	 ✓ 									
ICMP Echo Reply incoming packets	 ✓ 									
ICMP Time Exceeded incoming responses	☑ ICMP Time Exceeded incoming responses									
Incoming ICMP stream										
ICMPv6 Echo Request incoming packets	0		-							
· · · · · · · · · · · · · · · · · · ·			P.							
✓ - allowed Ø - blocked	2									
Help		<u>ok</u>	<u>C</u> lose							

Figure 3: Firewall setting Window

Change the **Action** status from Block to Allow. (This setting to allow the RDP activity to AWS server). Then click OK. Refer Figure 4.

K Network rule					×		
Action:	Allow 🗸						
Name:	Remote Deskto	p network activity	Y		0		
Protocol:	TCP				•		
Direction:	Inbound				•		
Remote ports:							
Local ports:	3389						
	Name	Interface t	IP addresses	MAC addre			
Network adapters:							
	🕂 Add 🖉 Edit 💥 Delete						
Maximum packet time to live:					255 🚔		
Remote addresses:	Any address						
Local addresses:	Any address				-		
				E Log	events		
Help			0 <u>K</u>	<u> </u>	ancel		

Figure 4: Network rule

Then install the KES and make sure all the status on **Managed computers** > **Computer** are green. Refer to the image below.

K	Kaspersky Security Center 10	_ 🗆 X
File Action View Help		
Kaspersky Security Center 10 A Administration Server 54.179.149.233 Managed computers	Administration Server 54.179.149.233 > Managed computers	
Computer selections Inassigned devices	Client computers	
 Image: Policies Image: Tasks ▲ Advanced 	Computers Policies Tasks	<u>Group settings</u>
User accounts ☐ Application management	Add computers New group Perform action * Add/Remove columns	<u>Refresh</u>
▷ 모 Remote installation ▷ D Mobile Device Management ▷ Q Network poll	No filter specified, records total: 2	
 Repositories Administration Server 172.31.6.0 	Select statuses: 🗹 Critical: 0 🔽 Warning: 0 🔽 OK: 2 (including subgroups)	Q
	Name A Type of operat Dom Agent installed Agent running Real-time file s Connecting to Last update	Status S Unknown
	🛛 WIN-AAAVI1CR2ET 👯 Microsoft WOR 🗸 Yes 🗸 Yes 4 hours ago 5 hours ago	 OK/Last vis
	< III Help V	× KASPERSKY
Groups: 0, computers: 2		

Figure 5: KSC 10 Console

For the Windows Server, there are only three (3) component of the KES 10 for Windows running to protect the server and no Endpoint Control running for server. KES 10 for Windows run full protection only for the Endpoint Workstation.

There are three (3) component that run on the server.

- File Anti-Virus Protection
- Firewall Protection (if the server running by RDP, must allow the RDP session on Firewall setting under Policies)
- Network Attack Blocker protection

Image below show the different of the KES 10 for Windows on Server and Endpoint Workstation.

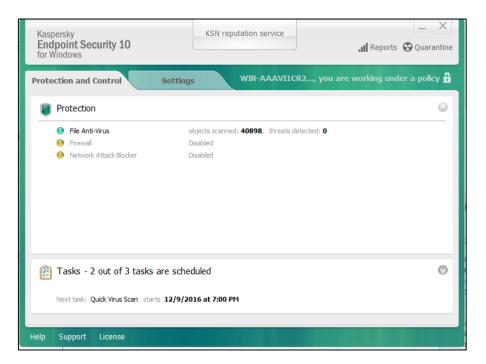


Figure 6: KES 10 for Windows on Server

Kaspersky Endpoint Security 10 for Windows	KSN reputation service
Protection and Control	Settings BooGunZO-PC\Bo, you are working under a policy 🔒
Endpoint control	0
Application Control	Application Monitor
Application Startup Co	ntrol application startup attempts allowed: 155, application startup attempts blocked: 0
Application Privilege C	ontrol applications started from the "Trusted" group: 72, the "Low Restricted" group: 5
🤭 Vulnerability Monitor	Disabled
Device Control	operations with devices allowed: 0, blocked: 0
Web Control	attempts to access web resources allowed: 26, blocked: 0
Protection enabled objects scanned: 18387, three	its detected: 0
Tasks - 2 out of 3 task	s are scheduled 💿
Next task: Quick Virus Scan st	arts 19/12/2016 at 1:15 PM
Help Support License	

Figure 7: KES 10 for Windows on Endpoint Workstation (Endpoint Control)

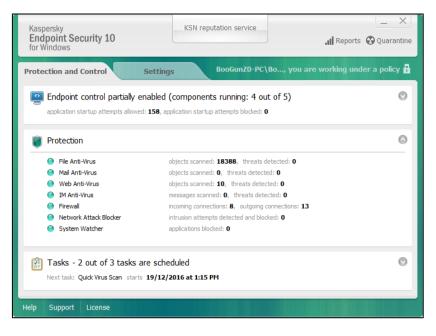


Figure 8: KES 10 for Windows on Endpoint Workstation (Protection)

Remote Installation of Network Agent and KES 10 (KES Server)

1. Network Polling

For the computers in same network or domain, it will detect on under the **Unassigned device**. For AWS server, we need to perform the Network poll to push the Network agent into the targeted device. To perform the Network poll as follow.

Advanced > Network poll > Add subnet

Select **Specify IP subnet using IP address range** by put the private IP address of the Server. For example, the KES Server private IP address are 172.31.25.31 and put the range of the IP address between 172.31.25.29 – 172.31.25.34 then click OK. Then click Poll now to poll the IP address. Refer to Figure 5. Wait until the process of the network polling finish. After finish, click the Private under IP subnet to find the IP address for the KES Server.

×	Kaspersky Security Center 10	- 0 ×
File Action View Help		
🔶 🔶 📶 🖾 🐼 🖬 🖬		
Kaspersky Security Center 10 / 2 A definitiation Server 172.31.6.0 A □ Administration Servers □ Administration Servers □ Computer selections □ Unassigned devices Policies Policies	Administration Server 172.31.6.0 > Advanced > Network poll > IP subnets IP subnets Depkys results of P subnet pol on the network by sending an ICMP packet. Actions New IP subnet 7 X	Properties
Advanced Advanced Application management Application management Application management Application management Application management Software update Software update	 If add subnet Postnow Specify IP subnet using the address and the subnet and Specify IP subnet using the address and the subnet address address and the subnet address addre	
Hardware Updates	V	

Figure 9: Setup the IP address range

Find the IP address, then move the IP address into Managed Computer by Right-click and select move.

Name	Description	Туре	Subtype	Last vi
WIN-U1F2FNGCVDG		Computer		12/8/2
WIN-J3R1PQHEJH5		Computer		12/7/2
WIN-AAAVI1CR2ET		Computer		12/8/2
WIN-6J0C1KGN65D		Computer		12/8/2
🖵 ip-172-31-31-199		Computer		12/7/2
🖵 ip-172-31-28-36		Computer		12/8/2
🖵 ip-172-31-28-180		Computer		12/7/2
🖵 ip-172-31-25-31		Computer		12/8/2
📮 ip-172-31-12-151		Computer		12/8/2
🖵 ip-172-31-0-1		Computer		12/8/2
ec2-52-221-253-77		Computer		12/8/2
ec2-52-221-253-69		Computer		12/8/2
🖵 ec2-52-221-253-68		Computer		12/8/2

Figure 10: List of the IP Address

2. Push installation of Network Agent and KES

After move the IP address into Managed computer, run push installation of Network Agents to the server. After finish, the name of the server will appear into the Managed computer with status of the Agent installed green and the IP still with red status. The KES Server have register by the name of server into Managed computer.

Click the server name and run the installation of the KES 10 for Windows. After installation, make sure all the status are green and protected.

×				Ka	ispersky Securi	ty Center 10					_ 0 ×
File Action View Help											
🗢 🏟 🙇 📰 📋 🖾 🧟 🖬											
 Kaspersky Security Center 10 Administration Server 172.31.6.0 Administration Servers Administration Servers Computer selections Unassigned devices Venticies 	^	Administration Server	ters	/lanageo	l computers						<u>Group settings</u>
		Add computers	2 1	Perform a	action ▼ Add	//Remove column:	8				Refresh
Applications registry Executable files	=	Select statuses: 🔽 Cri	tical: 0 🔽 Wa	rning: O	OK: 3 (inc	uding subgroups)		Search b	y text columns	Q
 Software vulnerabilities Software updates 		Name	Type of operat	Dom	Agent installed	Agent running	Real-time file s	Connecting to	Last undate	Status	Status description
Sortware updates Sartware updates Third-party licences usage Tinid-party licences usage Deploy computer images Initialistion packages Mobile devices Mobile devices Mobile devices Active Directory Publicetor Private Public Private Public Network police		♥ ip-172-31-25-31 WIN-AAAVIICR2ET WIN-UIF2FNGCVDG	Microsoft	WOR	● No ✓ Yes ✓ Yes	 ● No ✓ Yes ✓ Yes 	Unknown ✓ Yes ✓ Yes	4 minutes ago 4 minutes ago	9 minutes ago 1 hour ago	Unknown V OK/Last vis OK/Last vis	
⊿ 🗄 Repositories		<	Ш								>
Hardware Updates	~									Help	 KASPERSKY¹

Figure 11: Status of the installation server

Kaspersky Security for Windows Server (ks4ws)

For windows server, we need to install the security protection to prevent the malicious attack to the server. For server, there are using the Anti-Cryptor technology to prevent the Ransomware attack to the server.

1. Download the ks4ws into the KES Server

Download the ks4ws installer from link \rightarrow <u>http://support.kaspersky.com/ksws10#downloads</u>

2. Install the ks4ws into KES Server.

Before run the installation, we need to uninstall the KES 10 from the server. KES 10 and ks4ws can't in same workstation.

Double click the .exe file to run the installation.

💑 kes10winsp1_mr3_en_aes256(file server).exe	
🄏 klcfginst.exe	
🎇 ks4ws_10.0.0.486_en.exe	Ι
🚰 setup10.3.407full_en.exe	

Figure 12: ks4ws.exe Installer

Click **Next** Button twice to unpack the installation. Wait until the installation window appear. Refer Figure 13.

B Kaspersky Security 10 for Windows Server	×				
Solution for corporate servers security and network attached storages protection. *					
Installation	Documentation				
 Install Kaspersky Security Install Kaspersky Security Console Install Kaspersky Security Plug-in 	 Release Notes Installation Guide Administrator's Guide Network Storages Implementation Guide Application Web Page Kaspersky Lab Website Technical Support 				
* Network Attached Storages Protection functionality is ava solution. © 2016 AO Kaspersky Lab. All Rights Reserved.	ailable as a part of the Kaspersky Security for Storage				

Figure 13: KS4WS installation console

On KES Server, we need to install the **Kaspersky Security** and **Kaspersky Security Console**.

First click on Install Kaspersky Security. Click Next on welcome wizard.

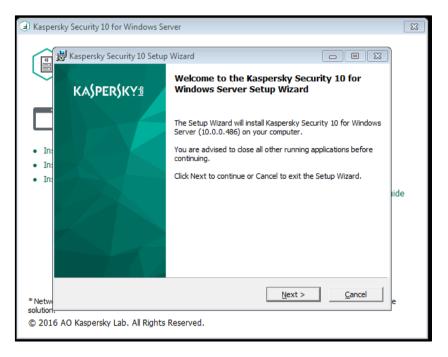


Figure 14: Welcome page setup wizard

Accept the term and click Next.

📸 Kaspersky Security 10 Setup Wizard 📃 🔲 🛋
End User License Agreement
Please review the terms of End User License Agreement.
Please read the text of End User License Agreement carefully. You must accept the terms of this End User License Agreement to continue installation.
KASPERSKY LAB END USER LICENSE AGREEMENT
IMPORTANT LEGAL NOTICE TO ALL USERS: CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT BEFORE YOU START USING THE SOFTWARE.
BY CLICKING THE ACCEPT BUTTON IN THE LICENSE AGREEMENT WINDOW OR BY ENTERING CORRESPONDING SYMBOL(-S) YOU CONSENT TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT. SUCH ACTION IS A SYMBOL OF YOUR SIGNATURE AND
\checkmark I accept the terms of End User License Agreement
< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

Figure 15: End User License Agreement

Tick Scan computer for viruses and click Next. After finish virus scan, click Next button.

📸 Kaspersky Security 10 Setup Wizard 📃 🖃 💌
Quick scan of the computer before installation You are advised to run an quick scan before starting the installation process.
To perform a quick scan, select Scan computer for viruses check box and click Next. All active processes will be scanned and possibly removed from memory if they are recognized as dangerous or probably dangerous.
An anti-virus scan requires at least 25 MB of free space on the local drive for storing temporary files.
PLEASE SAVE ALL YOUR DATA BEFORE THE SCAN!
Scan computer for viruses
< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel

Figure 16: Quick Scan page

Click **Next** button until the Activation of the application. Enter the activation key license. Then click **Next**.

🗒 Kaspersky Security 10 Setup V	Vizard	- • •
Activation of the applicat Select the key file for activation of		
C: \Users \Izdihar \Desktop \50E0	C7236.key	Browse
-Information about the license -		
Key:	227e-000451-50ec7236	
Type:	Commercial	
Key usage restriction:	20	
Restriction type:	Computers	
Expiration date:	11/4/2017	
	< <u>B</u> ack <u>N</u> ex	t > Cancel

Figure 17: Activation of the application

Click Install button to install the Kaspersky Security.

Second, install Kaspersky Security Console. Click the installation

B Kaspersky Security 10 for Windows Server	×				
Kaspersky Security for Windows Server Solution for corporate servers security and network attached storages protection. *					
Installation	Documentation				
 Install Kaspersky Security Install Kaspersky Security Console Install Kaspersky Security Plug-in 	 Release Notes Installation Guide Administrator's Guide Network Storages Implementation Guide Application Web Page Kaspersky Lab Website Technical Support 				
* Network Attached Storages Protection functionality is av solution. © 2016 AO Kaspersky Lab. All Rights Reserved.	ailable as a part of the Kaspersky Security for Storage				

Figure 18: KS4WS installation console

On welcome windows click **Next**.

Accept the terms of end user license then click Next.

Click Next button for following page. On advanced installation settings, tick allow remote access. Then click **Next**.

On installation page, click **Install**. Wait until finish the installation. Figure 19 show the Kaspersky security console.

Kaspersky Security Console					# ×
K File Action View Window Help					_ 8 ×
🗢 🔿 🖄 🛛 🕨 💷					
Kaspersky Security Real-Time Protection Server Control Outrusted Hosts Blocking	Anti-Cryptor				*
 Anti-Cryptor Applications Launch Control 	Management		Properties		
Rule Generator for Applications La ₽ ₽ Network Attached Storage Protection ♀ Q. On-Demand Scan	Task status:	Running Stop	 Export settings Import settings 		
 ▷ Update ▷ Storages ▷ Logs © Licensing 	Start time:	12/7/2016 11:46:43 PM Open task log	Refresh (7) Helo		
a beening	Properties		Statistics		
	Schedule:	Not specified	Name	Value	-
	Next start:	Undefined	Malicious encrypting attempts detected	0	
	Protection scope: all retrivo Exclude some folders from Neuratic analysis level: Me	protection: no	Processing errors Objects processed	0	
< +					-

Figure 19: Kaspersky Security Console

3. Install Kaspersky Security Plug-in into KSC Server

The Plug-in ensures the application integration with Kaspersky Security Center for centralized application management on a group of protected servers.

Click Install Kaspersky Security Plug-in to install plug-in into KSC Server.

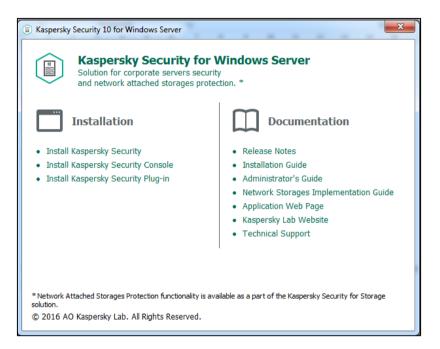


Figure 20: KS4WS installation console

Click Next to start install the plug-in. After done install, click OK to finish the installation.



Figure 21: Plug-in setup Wizard

4. Create Windows Server Policies

Click Create a policy to add Windows Server policy.

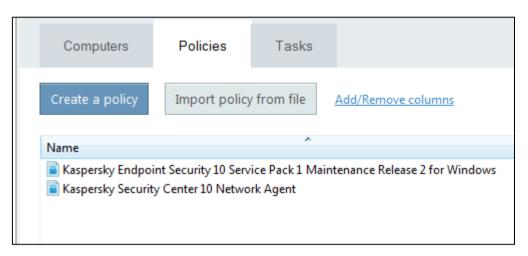


Figure 22: Policies tab

Enter the Policy Name. Then click Next button.

	x
New Policy Wizard	
Enter the name of the group policy for the application	
Name: Windows Server	_
Next	Cancel

Figure 23: New Policy wizard

Select the application that want to create group policy, then click Next.

	X
New Policy Wizard	
Select an application for which you want to create a group policy	
Application name:	
Kaspersky Security Center 10 Network Agent	^
Kaspersky Endpoint Security 10 Service Pack 1 for Windows	
Kaspersky Endpoint Security 10 Service Pack 1 Maintenance Release 2 for Windows	
Kaspersky Endpoint Security 10 for Mobile Service Pack 1 Maintenance Release 3	=
Kaspersky Mobile Device Management 10 Service Pack 1 Maintenance Release 3	
Kaspersky Security 10 for Windows Server	~
Next	Cancel

Figure 24: Application to create a group Policy

On the following page, select New for policy creation method, then click Next.

On Real-Time Protection page, the setting for the Real-Time File Protection, Script Monitoring and KSN Usage. We can do a setting to this policy to apply.

On following page, select the Active policy then click Finish.

Wait the policy apply to the server on KES Server. Using this policy, we can control by remote to apply the protection on Console.

ĸ			Kaspersky Secu	rity Center 10			- 6
File Action View Help							
◆ ⇒ 2 🗊 🖹 🖸 🖓 🖬							
 Kaspersky Security Center 10 Administration Server 172.31.6.0 Administration Server 54.179.149.233 Managed computers 	Administration Se	rver 54.179.149.233	> Managed comp	uters			
	Computers	Policies Ta	asks				Group settin
Bass Advanced	Create a policy	Import policy from	file <u>Add/Remove co</u>	<u>olumns</u>			Refre
	Name	•		Status	Application		
	Kaspersky Endpoint Security 10 Service Pack 1 Maintenance Releas				Kaspersky Endpoint Security 10 Service Pac	Application: Kaspersky Security 1 Windows Server	
	Kaspersky Security Center 10 Network Agent WS			Active Kaspersky Security Center 10 Network Agent Active Kaspersky Security 10 for Windows Server	Kaspersky Security 10 for		
			Active				
						Created: Changed:	12/9/2016 4:20:15 AM 12/9/2016 4:29:58 AM
						Inherited policy:	Not inherited
							Affected: 1 computers Enforcement succes 1 computers Details
	<		и		×	Change policy Configure not Delete policy	

Figure 25: Window Server policy created

Backup and Restore the KSC

Do a backup on the KSC Server and KSC Server will terminate. Create new KSC Server then install the KSC into the new server. Then restore back the backup into new server.

1. Apply Backup on KSC Server

C:\Program Files (x86)\Kaspersky Lab\Kaspersky Security Center

Double click klbackup.exe. On welcome page, click Next.

i 🗋 🚽 🚺 🖛 🛛	Application Tools	Kaspersky Sec	urity Center		⊐ ×
File Home Share	View Manage				~
🗲 🍥 🔻 🕇 퉬 « Pr	ogram Files (x86) 🔸 Kaspersky Lab 🔸 Kasp	persky Security Center	✓ 🖒 Search	Kaspersky Security C	e ,P
☆ Favorites	Name	Date modified	Туре	Size	
Desktop		3/22/2016 1:31 AM	Compressed (zipp	28 KB	
Downloads	klakcev.dll	3/22/2016 3:33 AM	Application extens	422 KB	
Recent places	lakcon.dll	7/7/2016 10:00 AM	Application extens	10.711 KB	
	😰 klakdb	3/22/2016 1:32 AM	Compiled HTML	36 KB	
🖳 This PC	klaklocpar.dll	3/22/2016 3:34 AM	Application extens	3.210 KB	
	klapkpkg.dll	3/22/2016 3:06 AM	Application extens	1,349 KB	
📬 Network	🔜 klapkpkg	3/22/2016 3:06 AM	Application	613 KB	
	klapkpkg.exe.local	3/22/2016 1:31 AM	LOCAL File	0 KB	
	klarchive.dll	3/22/2016 3:34 AM	Application extens	749 KB	
	K klbackup	3/22/2016 3:34 AM	Application	966 KB	
	klbackup.exe.local	3/22/2016 1:31 AM	LOCAL File	0 KB	
	📄 klbackup	12/9/2016 4:01 AM	Text Document	1 KB	
	🚳 klbackuploc.dll	4/22/2016 8:58 PM	Application extens	501 KB	
	KLChrtAX.dll	3/22/2016 3:33 AM	Application extens	493 KB	
	🚳 klcsagt.dll	3/22/2016 3:34 AM	Application extens	474 KB	
	🚳 klcsdb.dll	3/22/2016 3:34 AM	Application extens	492 KB	
	klcsextr.dll	3/22/2016 3:34 AM	Application extens	917 KB	
	🗟 klcskca.dll	3/22/2016 3:34 AM	Application extens	27 KB	
	🚳 klcskca2.dll	7/14/2016 1:50 PM	Application extens	3,405 KB	
	klcsldcl	3/22/2016 3:35 AM	Application	100 KB	
	klcsldcl.exe.local	3/22/2016 1:31 AM	LOCAL File	0 KB	

Figure 26: klbackup.exe directory

Choose Perform backup of Administrator Server data, then click Next.

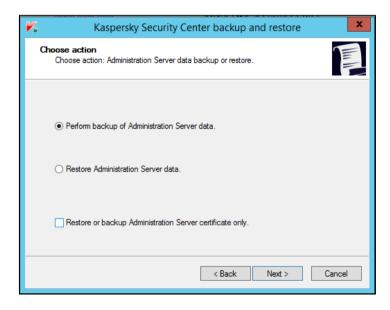


Figure 27: Choose action

On backup settings, select the destination folder and put the password. Then click **Next**. The backup of Administrator server done, click **Finish**. Copy the backup folder into the new KSC Server.

ĸ	Kaspersky Security Cent	er backup and restore
Bac	ckup settings For backup copying specify the destination f	older and password.
	Backup destination folder C:\Users\Administrator\Desktop\PS KSC For backups, include current date and tim	e in destination folder name
	Password: Confirm password:	•••••
		< Back Next > Cancel

Figure 28: Backup destination folder & password

2. Apply Restore on new KSC Server

Double click klbackup.exe. On welcome page, click Next.

l 🗋 💭 🛄 👳 l	Application Tools	Kaspersky Sec	urity Center	_	
File Home Shar	e View Manage				~
🔄 💿 🔻 🚹 🐨 F	Program Files (x86) 🔸 Kaspersky Lab 🔸 Kasp	ersky Security Center	∨ C Search	Kaspersky Securit	у Се 🔎
🔆 Favorites	Name	Date modified	Туре	Size	
Desktop		3/22/2010 1.31 AM	Compressed (zipp	28 KB	
Downloads	klakcev.dll	3/22/2016 1:51 AM	Application extens	422 KB	
Recent places	klakcev.dll	7/7/2016 10:00 AM	Application extens	422 KB 10.711 KB	
		3/22/2016 1:32 AM	Compiled HTML	36 KB	
🌉 This PC	klaklocpar.dll	3/22/2016 3:34 AM	Application extens	3.210 KB	
	klapkpkg.dll	3/22/2010 3:04 AM	Application extens	1.349 KB	
👊 Network	klapkpkg	3/22/2016 3:06 AM	Application	613 KB	
	klapkpkg.exe.local	3/22/2016 1:31 AM	LOCAL File	0 KB	
	klarchive.dll	3/22/2016 3:34 AM	Application extens	749 KB	
	🖌 klbackup	3/22/2016 3:34 AM	Application	966 KB	
	klbackup.exe.local	3/22/2016 1:31 AM	LOCAL File	0 KB	
	klbackup	12/9/2016 4:01 AM	Text Document	1 KB	
	klbackuploc.dll	4/22/2016 8:58 PM	Application extens	501 KB	
	KLChrtAX.dll	3/22/2016 3:33 AM	Application extens	493 KB	
	🗟 klcsagt.dll	3/22/2016 3:34 AM	Application extens	474 KB	
	🛞 klcsdb.dll	3/22/2016 3:34 AM	Application extens	492 KB	
	🚳 klcsextr.dll	3/22/2016 3:34 AM	Application extens	917 KB	
	🔕 klcskca.dll	3/22/2016 3:34 AM	Application extens	27 KB	
	🚳 klcskca2.dll	7/14/2016 1:50 PM	Application extens	3,405 KB	
	💷 klcsldcl	3/22/2016 3:35 AM	Application	100 KB	
	klcsldcl.exe.local	3/22/2016 1:31 AM	LOCAL File	0 KB	_
167 items 1 item select	ed 965 KB				800

Figure 29: klbackup.exe directory

Choose Restore Administrator Server data, then click Next.

Kaspersky Security Center backup and restore	×
Choose action Choose action: Administration Server data backup or restore.	
Perform backup of Administration Server data.	
Restore Administration Server data.	
Restore or backup Administration Server certificate only.	
< Back Next >	Cancel

Figure 30: Choose action

On Restore setting page, select the backup folder directory and put the password that we create when perform the backup. Then click **Next** button. Wait until the restore finish.

Kaspersky Security Ce	enter backup and restore		
Restore settings For restoration specify the folder containin Server data and password	ng a backup copy of Administration		
Folder for storage of backup copies C:\Users\Administrator\Desktop\PS KSC\klbackup2016-12-09#06 Select			
Password: Confirm password:	•••••		
	< Back Next > Cancel		

Figure 31: Folder for storage of backup copies

After done restore, we need to assign the new IP address of the new KSC Server to make the Network Agent communicate with the server.

3. Klmover - a utility for changing Network Agent settings

Klmover.exe utility is designed for changing Administration server parameters in Network agent settings on a client PC. The utility is located on a client PC in the Network agent installation folder - C:\Program Files\Kaspersky Lab\NetworkAgent.

The command \rightarrow klmover -address <the IP address new server>

Administrator: C:\Windows\system32\cmd.exe	
C:\Program Files (x86)\Kaspersky Lab\NetworkAgent>klmover -address 192.168.0.22 Checking command line optionsOK Initializing basic librariesOK Stopping service 'klnagent'OK Settings verificationOK Reading the settingsOK Preparing settingsOK Writing settingsOK Starting service 'klnagent'OK	- III
Operation completed successfully.	
C:\Program Files (x86)\Kaspersky Lab\NetworkAgent>	
	-



Now the Network Agent on KES Server are connected with KSC on KSC Server. This command need run on each client PCs that will connect to the server. If the Network Agent fail to communicate with server, it will not get the update and the protection from the server.