

bizhub Evolution SECURITY CUBE

Installation GuideVersion: 1.0





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Specifications

The On-Premise-Security Cube is a first generation Hyper-V. To use the Security Cube, the following requirements must be met:

- Existing Microsoft Hyper-V environment
- Internet connection
- 1 GB RAM for virtual machines

In the case of proxy authentication:

• "Basic Authentication" is supported.

Preparation

1. Download "HyperV Image" by bizhub Evolution.

https://demo.bizhubevolution.eu/de/kunde/security_col	pes 🔎 + 🗎 C 🤤 bizhub Evolution - Security ×	and the second s	
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Arrwaitung > Security Cubes			
Security Cube (Cloud) I Status I Ansahi Nutter	Aktiviett 3 Kontiigurteren Nutzerverwalkung	Security Cube (selbst gehostet) I Status Nicht verfügbar Download HyperV4	nage Hin Jilugen

2. Save and unpack the *.zip archive on your Hyper-V server.

Import

Import the Hyper-V image so that you can use the Security Cube.

- 1. Start "Hyper-V Manager".
- 2. Select [Import Virtual Machine ...].

				Hyper-V	Manager				_	D X
File Action View	Help									
Import Virtu	al Machine	·		_						
North Sector	tings	ines						Action	is RV-01	
Vir <u>t</u> ual Swit Virtual S <u>A</u> N	ch Manager Manager	▲ IPv6 Client	State Running	CPU Usage 0 %	Assigned Memory 2048 MB	Uptime 257.05:17:46	Status	N	lew	•
Edit Disk Inspect Disk		IPv6 Server	Running	0 %	1490 MB	257.05:17:46		H	nport Virtual Machine. lyper-V Settings	
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3. Select the folder containing the downloaded files. Click on [Next].

2	Import Virtual Machine	x
Locate Folder	r	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Specify the folder containing the virtual machine to import. Folder: D:\Security_Cube_HyperV_Image_live\SecurityCube\ Browse.	>
	< Previous Next > Finish Cance	

Security Cube / IG-EN / 09.2016 / 1.0

4. Select the Security Cube in order to import it. Click on [Next].

	Import Virtu	al Machine	×
Select Virtua	l Machine		
Before You Begin	Select the virtual machine to import		
Locate Folder	Name		Date Created
Select Virtual Machine	SecurityCube		18.05.2016 12:59 8
Choose Import Type			
Summary			
			_
		< Previous Next >	Finish Cancel

5. Select "Register the virtual machine in-place (use the existing unique ID)". Click on [Next].

M Import Virtual Machine X									
Choose Import Type									
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Choose the base of impart to perform								

The import settings will be displayed.

6. Click on [Finish] to start the import.

Import Virtual Machine									
Completing Import Wizard									
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	You are about to perform the following operation. Description: Virtual Machine: SecurityCube Import Tise: D:\Security_Cube_HyperV_Image (2)\SecurityCube\Virtual Machines\D2420976-19E Import Type: Register (keep ID)								
	< III > To complete the import and close this wizard, click Finish.								
	< Previous Next > Finish Cancel								

The "Security Cube" is displayed in the Hyper-V Manager.

7. Select the Security Cube.

			Hyper-V	Manager					- 5	1	x
File Action View He	lp										
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								Virtual Switch Mar	ager		
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	·							Stop Service			
	SecurityCube						X	Remove Server			
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	Created: 18.	05.2016 12:59:58		Clustered:	No		1	View		►	
	Version: 5.0 Generation: 1						?	Help			
	Notes: None							urityCube			
								Connect			11
								Settings			
	Summary Memory Networking Re	plication					0	Start			-
HYPERV-01: 1 virtual mach	ine selected.									_	

8. Click on [Settings] to edit the Security Cube settings.

			Hyper-V	Manager			_ □	x	
File Action View He	þ								
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							Virtual Switch Manager		
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	Notes:	None					SecurityCube	•	
							onnect		
							💽 Settings		
	Summary Memory Networking	Replication					💿 Start	~	
HYPERV-01: 1 virtual machi	ne selected.								

9. Select the relevant network adapter. Click on [OK].

SecurityCube Add Hardware BIOS Bot from DE Memory 1024 MB Posciesor 1 Wrtual processor IDE Controller 1 SccurityCube Water Intervention Biot form DE Wrtual Processor IDE Controller 0 Biot Controller 1 SccurityCube.vhd Disconsected Posciester None Discette Drive None None Discette Drive None ScarityCube Integration Services Some services offered None Sone Services Some services offered None Smart Paging File Location Discentry Cube_HyperV_Image None Smart Paging File Location Discentry Cube_HyperV_Image None Smart Paging File Location Disteration Strue Sore Swei Automatic Stop Action Save	10 · · · · · · · · · · · · · · · · · · ·	Settings for SecurityCube on HYPERV-01
 kardware BiOS Boot from IDE Boot from IDE Wetwork Adapter Secontry Cube virual LAN identification Controller 0 Francessor Secontry Cube virual LAN identification The VLAN identification strongh this network adapter. Secontry Cube virual LAN identification The VLAN identification strongh this network adapter. Secontry Cube virual LAN identification Secontry Cube virual LAN identification in the virual machine will use for all extreme virual LAN identification Secontry Cube virual LAN identification Secontry Cube virual LAN identification in the virual LAN identification Secontry Cube virual LAN identification in the virual machine will use for all extreme virual LAN identification in the virual LAN identification Secontry Cube virual LAN identification in the virual machine virual machine virual machine virual LAN identification in the virual machine virual control virual virual virual virual virual virual virual virual machine virual virual virual virual virual virual vi	SecurityCube	✓ 4 ► Q
Restart if previously running Automatic Stop Action Save OK Cancel Apply	SecurityCube	A weight is unique ation of the network adapter or use the network adapter. Specify the unique ation of the network adapter or use the network adapter. Wrual switch: Not connected Termal Network Or the network adapter or use the network adapter or use the network adapter. Define of the visual LAN identification The VLAN identifier specifies the virtual LAN that this virtual machine will use for all not connected Define visual CAN identification The VLAN identifier specifies the virtual LAN that this virtual machine will use for all or of the visual CAN identification The VLAN identification the visual machine will use for all or of the visual constraint of the network adapter. or Definition Definition
	Automatic Stop Action Save	OK Cancel Apply

10. Select the Security Cube and click on [Start].

Hyper-V Manager							
File Action View Hel	р						
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🔡 Hyper-V Manager							Actions
HYPERV-01	Virtual Machines						HYPERV-01
	Name	State	CPU Usage	Assigned Memory	Uptime	Status	New
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	Version: 5.0						👔 Help
	Generation:						SecurityCube
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	Summary Memory Networking Rep	ication					Settings
	Commany I manage in the						Start 🗸
Turns off the selected virtual	l machine.						

NOTE

The console displays the start process and provides information on the IP address that has been assigned by your DHCP server.

Network SecurityCube on HYPERV-01 - Virtual Machine Connection	- [x	
File Action Media Clipboard View Help				٦
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 9.395577] Adding 1045500k swap on /dev/sda5. Priority:-1 extents:1 across 10.214604] piix4_smbus 0000:00:07.3: SMBus base address uninitialized - upg addr-Dxaddr * Starting AppArmor profiles Skipping profile in /etc/apparmor.d/disable: usr.sbin.rsyslogd Checking for certificate Certificate not found, creating self signed certificate Generating RSA private key, 2048 bit long modulus 	r			
e is 65537 (0x10001)				
Signature ok subject=/C=DE/ST=Lower Saxony/L=Langenhagen/OU=bizhub Evolution/CN=localhost Getting Private key unable to write 'random state' Certificate created * Restoring resolver state Starting KMBox DEBUG - Startup 1.0.0-rc.1 DEBUG - Startup 1.0.0-rc.1 DEBUG - config.json not found, create new app config DEBUG - save config.json INFO - Start API at http://10.239.225.54:40003 DEBUG - Internal API is up and running INFO - Start Admin API at http://10.239.225.54:40004 DEBUG - Admin API at nttp://10.239.225.54:40004 DEBUG - Startup finished INFO - No api url found. Cannot connect to cloud server.			=	
< III			>	1
Status: Running	0	8	٩.	

Registration

Enable the Security Cube in bizhub Evolution.

1. Click on [Sign up].

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laintenance + Security Cubes			
Report a problem			
Security Cube (Cloud)	•	Security Cube (self-hosted)	
IState Disabled IUser count 0			Download HyperV mape Sign up
Activate Configure User administrat	ion Delete		
• Imprint + Cookies statement + Data Privacy Statement	Share un	in 💌	Giving Shape to Idea
Imprint + Cookies statement + Data Privacy Statement	Share us:	in 🔛	Giving Shape to Idea

2. Follow the instructions displayed in the window.

Registe	er en
Securit	y Cube Connection Guide
1. Please 2. Enter t 3. Accept	connect your Security Cube to your network and plug in its power supply unit. he IP of the Security Cube into the box beneath this guide. t the SSL-Certificate.
3	There is a problem with this website's security certificate.
	The security certificate presented by this website was not issued by a trusted certificate authority. The security certificate presented by this website was issued for a different website's address.
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
	We recommend that you close this webpage and do not continue to this website.
	Click here to close this webpage.
	Continue to this website (not recommended)
	More information
4. The de	fault username / password for a new Security Cube is admin / 12345678
5. Conne	ot the Security Cube to the Cloud: "Connect to Cloud"

Configuration

Log into the Security Cube to configure it.

1. Select [MAINTENANCE], [Security Cubes], [Security Cube (self-hosted)] and finally [Configure].

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Maintenance > Security Cubes			
Report a problem	Windows-Sicherheit iexplore Der Server "10.239.225.54" fordert Ihren Be	× enutzernamen und Ihr Kennwort	
Security Cube (Cloud) I State I User count	an. Der Server ist von "Kmbox Administrat	ion". ted) cloud server: ustomer network:	•
Co	figure Anmeldedaten speich	hern	Delete
Security Cube (self-host	id) HyperV Image Sign up	UN ADDIECTION	

2. Log in with the following details:

User name:	Admin
Default password:	12345678

NOTE

We recommend that you change the default password immediately after logging in for the first time.

Details

Select [MAINTENANCE], [Security Cubes] and finally [Details].

Here you can find detailed information about the bizhub Evolution Security Cube. You can download log files or create a backup copy of your Security Cube installation.

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Authentication

Select [MAINTENANCE], [Security Cubes], [Details] and finally [Authentication].

The example shows the settings for an Active Directory authentication.

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> Maintenance > Security Cubes > De	etails > Authentication									
Details Authentication Us	er administration <u>SMTP</u> Proxy									
External Authentication										
Source: *	Active Directory	Ŧ								
Host: *	10.239.224.100									
Port: *	389	÷								
kmbox_admin.username: *	lab\tber									
Password: *	••••••									
Encryption mode: *	None	Ŧ								
User search base: *	ou=Users,ou=BEU,dc=lab,dc=ssd									
User search predicate: *	(objectCategory=User)									
userPrinicipalName suffix: *	@lab.ssd									

Setting	Value
Source	Active Directory
Host	IP address of your Active Directory server
Port	Active Directory communication port
kmbox_admin.username	Service Account to browse the Active Directory
Password	Password for kmbox_admin.username
Encryption mode	Active Directory encryption
User search base	Defines where the LDAP Search is started.
User search predicate	LDAP query https://technet.microsoft.com/en-us/library/aa996205(v=exchg.65).aspx
User PrincipalName suffix	UPN suffix

The bizhub Evolution Security Cube can automatically synchronize users with Active Directory. To do this, information from Active Directory is read and written to the bizhub Evolution Security Cube.

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> Maintenance > Security Cub	es > Details > Authentication	on								
Auto sync users	5									
Enabled										
Sync every day at: *	09:24									
Last sync: *	06/23/2016 1	4:40:27								- 1

Setting	Value
Enable	Enable for automatic synchronization
Sync every day at	Time frame for the synchronization process
Last sync	Details on the last synchronization process

In the "Properties" area, you can synchronize your Active Directory settings with the bizhub Evolution user management.

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inter the matter that the matter the matter that the matter thematter the matter the matter thematter the matter the matte	MAINTENANCE	I	EN	٨	?	¢	
Maintenance Security Cubes	Details > Authentication						
Properties							
Unique identifier: *	objectSid						
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Lastname: *	sn						
E-mail: *	mail						
Phone: *	telephoneNumber						
Facsimile: *	facsimileTelephoneNumber						
Cellphone: *	mobile						
	department						

Click on [Test connection] to check whether a connection can be established. Then click on [Save] to save your settings.

NOTE

For more information on the default values, see Microsoft Tech Net: https://msdn.microsoft.com/en-us/library/ms675090(v=vs.85).aspx

User administration

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All synchronized Active Directory users are listed here. You can assign ID cards to your users via this page.

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Maintenance > Security Cubes > Detai	ils → User admini	stration	_							
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Details Authentication User	administration									
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Details Authentication User . test	User name	First name	Last name	E-mail address	<u>Sync</u> Department	users with Has vali	h Active	e Dire rd	ectory	
Details Authentication User , test D atouwae@evolution konicaminoita.de	User name pctest5	First name	Last name	E-mail address pctest5@lab.ssd	<u>Sync</u> Department	<mark>users wit</mark> l Has vali No	<u>h Active</u> id ID car	e Dire rd	ectory	
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Details Authentication User test	User name pctest5 test7 test8	First name pctest5 test7 test8	Last name	E-mail address pctest5@lab.ssd test7@lab.ssd test8@lab.ssd	<u>Sync</u> Department	users with Has vali No No No	<u>h Active</u> id ID car	e Dire	ectory	
Details Authentication User test	User name pctest5 test7 test8 t01	First name pctest5 test7 test8 test	Last name	E-mail address pctest5@lab.ssd test7@lab.ssd test8@lab.ssd test80.lab.ssd	<u>Sync</u> Department	users with Has vali No No No	h Active	e Dire	ectory	
Details Authentication User , test atouwae@evolution.konicaminolta.de yredroui@evolution.konicaminolta.de dradrouc@evolution.konicaminolta.de souproup@evolution.konicaminolta.de	User name pctest5 test7 test8 t01 t02	First name pctest5 test7 test8 test test	Last name 01 02	E-mail address pctest5@lab.ssd test7@lab.ssd test8@lab.ssd test01@lab.ssd test01@lab.ssd	<u>Sync</u> Department	USERS WIT	h Active	e Dire	ectory	
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Details Authentication User , test p ratouwae@evolution konicaminolta.de wredrouj@evolution konicaminolta.de dradrouc@evolution.konicaminolta.de niuaemia@evolution.konicaminolta.de niuaemia@evolution.konicaminolta.de wiraibea@evolution.konicaminolta.de iraibea@evolution.konicaminolta.de iraibea@evolution.konicaminolta.de	User name pctest5 test7 test8 t01 t02 t03 t04 t05 t06	First name pctest5 test7 test8 test test test test test	Last name 01 02 03 04 05 06	E-mail address pctest5@lab.ssd test7@lab.ssd test8@lab.ssd test01@lab.ssd test02@lab.ssd test03@lab.ssd test03@lab.ssd test05@lab.ssd test05@lab.ssd	Sync. Department	USERS WIT	h Active	e Dire	<pre>> ctory > </pre>	

SMTP

Specify how bizhub Evolution can connect to your e-mail server.

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> Maintenance > Security Cubes >	Details > SMTP	-							
Details Authentication	Jser administration SM	ITP <u>Proxy</u>							
Host: *									
Port: *	25		÷						
TLS: *	No TLS		*						
Default sender address: *									
EHLO									
SPA (Secure password authentication)									
User name: *									
Password: *									

Proxy

Specify how the bizhub Evolution Security Cube can communicate via a proxy connection.

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Maintenance Security Cub	es > Details > Proxy							
Details <u>Authentication</u>	User administration SM	<u>ATP</u> Proxy						
	_							
Enabled								
Host: ^								
Port: *	8080							
User name:								
Password:								
			Save					
								,

NOTE

Only "basic authentication" is supported.



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