Security Dashboard Console Quick Installation Guide

(for VMware Workstation and ESXi)

Version 1.2, June 2021

Technical Support Contact Information www.moxa.com/support



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P/N: 180200000A022

System Requirements

The computer that SDC is installed on must satisfy the following system requirements. The systems requirements depend on the number of nodes that will be managed through SDC.

System Requirements								
Managed Nodes	50	100	150	200	300	400	500	
CPU (virtual cores)	4	4	6	8	12	14	16	
RAM (GB)	8	16	16	32	64	128	256	
Hard Disk Space	256 GB or above (recommended)							
Supported Virtual Machines	VMWare ESXi 6.x or above, VM Workstation 14 or above, KVM 2.x or above							

Installing SDC on a VMware Workstation

This section describes how to deploy Security Dashboard Console (SDC) to a VMware Workstation system.

Prerequisites

- The OVA packages provided by Moxa must be available and accessible to the VMware Workstation.
- VMware workstation 14 or later is required.

Deploying Security Dashboard Console

- 1. Start the VMware Workstation and click File on the menu bar.
- 2. Select **Open** to import the SDC VM image file (*.ova).
- 3. Select the SDC VM image file from your localhost file path and click **Open**.
- 4. Specify the name for the new virtual machine, and the storage path for the new virtual machine, and then click **Import**.
- Check the detailed VM information of the imported SDC VM (Virtual Machine).



6. Add an external disk. The SDC requires one external disk with at least 50 GB of available storage, otherwise the SDC will not finish initialization and the boot process will not be completed. The external disk is used to store the system configurations and event logs. You may attach the external disk of a terminated SDC instance here instead of adding a new disk if you want to migrate the previous configurations and logs to the new SDC instance.



ATTENTION

Due to software architecture changes, SDC v1.0 and v1.1 are not fully compatible. If you are migrating from SDC v1.0 to v1.1, we highly recommend attaching a new external drive and not use the old drive. Refer to the **System Migration** section for more information.

- a. Click Edit virtual machine settings
- b. Click Add, then choose Hard Disk

Add Hardware Wizard		×
Hardware Type What type of hardware do	you want to install?	
Hardware types:	Explanation	
Hard Dick C CD/DV Drive Floppy Drive Vetwork Adapter Substrational Card Darallel Port Derive Derive Derive Derive	Add a hard disk.	
Generic SCSI Device		

c. Select a disk type



d. Select Disk size. You can decide the external disk size depending on the number of logs you want to store, as shown in the table below.

# of Logs	Disk
10,000,000	50 GB
50,000,000	150 GB
100,000,000	300 GB

If the SDC needs to increase the number of the logs that can be stored, please perform the following steps:

- i. Power off the SDC.
- ii. Enlarge the external disk size to fit the maximum log requirement.
- iii. Power on the SDC instance.

L'Inn	
Create a n	ew virtual disk
A virtual d appear as easily be c	isk is composed of one or more files on the host file system, which will a single hard disk to the guest operating system. Virtual disks can opied or moved on the same host or between hosts.
O Use an exi	sting virtual disk
Choose th	is option to reuse a previously configured disk.
O Use a phys	ical disk (for advanced users)
Choose th Requires a	is option to give the virtual machine direct access to a local hard disk. dministrator privileges.
Add Hardwar	e Wizard
Specify Dis How lar	k Capacity ge do you want this disk to be?
Specify Dis How lar Maximum disk si	k Capacity ge do you want this disk to be? ze (GB): 50
Specify Dis How lar Maximum disk si Recommended :	k Capacity ge do you want this disk to be? ze (GB): 50 - size for Other: 8 GB
Specify Dis How lar Maximum disk si Recommended :	k Capacity ge do you want this disk to be? ze (GB): 50 - size for Other: 8 GB isk space now.
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Specify Dis How lar Maximum disk si Recommended : Allocating th disk space t virtual disk s Store virtual Split virtual o	k Capacity ge do you want this disk to be? ze (GB): 50 . size for Other: 8 GB isk space now. Is full capacity can enhance performance but requires all of the physical be available right now. If you do not allocate all the space now, the tarts small and grows as you add data to it. disk as a single file lisk into multiple files

e. Select path to store the disk

f. Click OK

 (Optional) Adjust your SDC instance to use proper resource configurations based on the following sizing table or using default settings (8 CPU cores, 16 GB of memory). Click Edit virtual machine settings.

Sizing Table

Nodes	CPU	Memory
50	4 cores	8 GB
100	4 cores	16 GB
150	6 cores	32 GB
200	8 cores	32 GB
300	12 cores	64 GB
400	14 cores	128 GB
500	16 cores	256 GB

a. Click Edit virtual machine settings.

- b. Configure the amount of memory.
- c. Configure the number of CPU cores.
- 8. **(Optional)** Change the network adapter setting from 'NAT' to 'Bridged'.
 - a. Right click the SDC VM icon and select Settings.
 - Select Network Adapter and change the default setting from [NAT] to [Bridged] if necessary.
- 9. Boot the SDC VM, and the SDC instance will start.



IMPORTANT!

Because SDC v1.0 and v1.1 are not fully compatible due to software architecture changes, all logs, patterns, and firmware stored on SDC v1.0 cannot be migrated to SDC v1.1 automatically. Only policy enforcement rules, DDoS protection rules, and objects can be migrated from the SDC v1.0 over to SDC v1.1.

Follow the instructions below if you are upgrading from SDC v1.0 to v1.1:

1. Back up your current SDC v1.0 configurations.

2. Install the new SDC (v1.1) with a new external disk.

3. Activate the SDC v1.1 license key, followed by any IEC or IEF Series licenses.

4. Load the SDC v1.0 configuration backup file onto the new SDC v1.1 instance.

5. Confirm all your devices appear correctly in SDC v1.1.

When a new version of SDC is released, the settings of the old SDC can be migrated by attaching the external disk of the old SDC to the new SDC VM. The settings that will be migrated to the SDC includes:

- The UUID of the old SDC. (To ensure all virtual machines are identified properly, each virtual machine is automatically assigned a universal unique identifier (UUID).)
- The pattern and firmware downloaded by the old SDC.
- The system configuration set from the old SDC including its license, accounting information, security policies, and so on.
- The security event logs stored by the old SDC.

Procedure

- Launch the new instance of SDC. (For more details, see "Deploying Security Dashboard Console" under the "Installing SDC on a VMware Workstation".)
- 2. Power off the old SDC
- 3. Attach the external disk of the old ODC to the new SDC.
- 4. A window will pop up where you can select which settings and data will be migrated into the new SDC, and after your confirmation the old SDC's selected information will be migrated into the new SDC.

Installing SDC on a VMware ESXi

This chapter describes how to deploy the Security Dashboard Console to a VMware ESXi system.

Requirements

- The OVA packages provided by Moxa must be available and accessible to VMware ESXi.
- ESXi version 6 or above with the required specifications.
- The necessary networks have been properly created in ESXi.

Deploying Security Dashboard Console

- 1. Log in to the VMware vSphere web client.
- 2. Under Navigator, click Host and then click Create/Register VM.



3. Select Deploy a virtual machine from an OVF or OVA file.

1 New virtual machine		
Select creation type Select OVF and VMDK files Select storage	Select creation type How would you like to create a Virtual Machine?	
4 License agreements 5 Deployment options 6 Additional settings	Create a new virtual machine	This option guides you through the process of creating a virtual machine from an OVF and VMDK files.
7 Ready to complete	Register an existing virtual machine	
vm ware [®]		

4. Input a name for your SDC and then select an SDC image to upload.

5. Choose a storage location for the SDC virtual machine.

😰 New virtual machine - odc											
✓ 1 Select creation type ✓ 2 Select OVF and VMDK files ✓ 3 Select storage ✓ 4 Deployment options 5 Ready to complete	Select storage Select the datastore in which to store the configuration and disk files. The following datastores are accessible from the detinition resource hit you selected. Select the destination datastore for the virtual method conformation files and all of the virtual datas.						or				
	Name	- 0	Capacity	~	Free	~	Туре	~	Thin pro ~	Access	~
	datastore1	4	3.63 TB		1.63 TB		VMFS5		Supported	Single	
										1 item	s
vm ware [,]											
						Back		Vext	Finish	Canc	el

6. Select deployment options.

ն New virtual machine - odc							
 ✓ 1 Select creation type ✓ 2 Select OVF and VMDK files ✓ 3 Select storage 	Deployment options Select deployment options						
4 Deployment options 5 Ready to complete	Network mappings	NAT	test			•	
	Disk provisioning	OThi	n () Thick				
vm ware							
				Back	Next	Finish	Cancel

7. When you see the **Ready to complete** screen, click **Finish** to start the deployment.

🔁 New virtual machine - odc		
 ✓ 1 Select creation type ✓ 2 Select OVF and VMDK files ✓ 3 Select storage 	Ready to complete Review your settings selection before fini	shing the wizard
4 Deployment options 5 Ready to complete	Product	Unknown
	VM Name	odc
	Disks	instance.vmdk,instance.vmdk
	Datastore	datastore1
	Provisioning type	Thin
	Network mappings	NAT: test
	Guest OS Name	Debian_64
Vmware.	Do not refresh your brown	ver while this VM is being disployed.
		Back Next Finish Cancel

- Under the Recent tasks pane, you will see a progress bar indicating that the SDC image is being uploaded. Please wait until the upload is finished.
- Add an external disk with at least 50 GB free to the SDC instance.
 a. Power off the SDC instance if it is powered on.
 - b. Add the external disk by taking the following steps: Actions →
 Edit settings → Add hard disk → Save.

CPU 🛕	8 -	D				
Memory 🛕	20480	MB	Ŧ			
📇 Hard disk 1 🛕	25	GB	•			0
🛄 New Hard disk 🛕	50	GB	•			G
SCSI Controller 0	LSI Logic F	arallel		۲		C
Network Adapter 1	test			۲	Connect	G
Wideo Card	Specify cur	tom eattinge				
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dit settings - odc (ESXI 6.0 virtu ritual Hardware VM Options Add hard disk Will Add netwo	ual machine)	ld other devic	Ad	d an ex	tternal disk	Canc
dit settings - odc (ESXI 6.0 virtu rtual Hartware V.I. Cptions dat hard dak Mil Add netword dak	ual machine)	Id other devic	Ad	d an ex	save	Cano
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dit settings - odc (ESXI 6.0 virti rual Hardware VM Options Add hard disk M Add netwo New krad disk Existing hard disk Mentiony age G SGSI Controller 0 M Network Adapter 1	all machine)	Id other device	Ad •	d an ex	Connect	Cance

c. You can decide the external disk size depending on the number of logs to be stored, as shown on the table below.

#of Logs	Disk
10,000,000	50 GB
50,000,000	150 GB
100,000,000	300 GB

- d. **(Optional)** If the SDC needs to increase the number of logs that need to be stored, the steps are as follows: (1) power off the SDC, (2) enlarge the external disk size to fit the maximum log requirement, and (3) power on the SDC instance. After that, the SDC will have enlarged the available storage for log files.
- (Optional) If you want to migrate the existing SDC settings to the newly launched VM, please refer to System Migration.

- **NOTE** The SDC requires one external disk and the minimum size of the external disk must be above 50 GB, otherwise the SDC will not finish initialization and the boot process will not be completed.
- **NOTE** The external disk is used to store the system configurations and event logs. You may attach the external disk of a terminated SDC instance here instead of adding a new disk if you want to migrate the previous configurations and logs to the new SDC instance.



ATTENTION

Due to software architecture changes, SDC v1.0 and v1.1 are not fully compatible. If you are migrating from SDC v1.0 to v1.1, we highly recommend attaching a new external drive and not use the old drive. Refer to the **System Migration** section for more information.

- 10. Power on the VM.
- 11. **(Optional)** Adjust your SDC instance to use proper resource configurations based on the following sizing table or using the default settings (8 core CPU, 16 GB memory).
 - Shut down the instance of SDC and click Edit, and the Edit settings window will appear.
 - b. Configure the number of CPU cores.
 - c. Configure the amount of memory.
 - d. Boot the SDC instance.

Sizing Table

Nodes	CPU	Memory
50	4 cores	8 GB
100	4 cores	16 GB
150	6 cores	32 GB
200	8 cores	32 GB
300	12 cores	64 GB
400	14 cores	128 GB
500	16 cores	256 GB

Select the 'CPU' item to customize the number of CPU.)
16304 MB V	
100 GB 🔻	0
LSI Logic Parallel	0
VM Network 🔻 🗹 Connect	0
Specify custom settings	
	Select the 'CPU' item to customize the number of CPU. Is Use Parallel VM Network Specify custom settings

Memory August the amount of memory allocated to SDC instance. SDC SDC instance. SDC SCS Controller 0 LSL Logic Parallel Memory Contect Contect Contect Contect Contect Contect Contect Contect Contect	> 🖬 CPU 🛕	8 🔻 🚺	Select the 'Memory' item and
Image: Scisic Controller 0 LSI Logic Parallel Image: Controller 0 LSI Logic Parallel Image: Controller 0 Image: Controler 0 </th <th>🕨 🎆 Memory 🧘</th> <th>16384 MB *</th> <th>adjust the amount of memory allocated to SDC instance.</th>	🕨 🎆 Memory 🧘	16384 MB *	adjust the amount of memory allocated to SDC instance.
ICE SCSI Controller 0 LSI Logic Parallel	+ 🚍 Hard disk 1 🧥	100 GB	6
Wetwork Adapter 1 VM Network Card Specify custom settings	SCSI Controller 0	LSI Logic Parallel	•
Video Card Specify custom settings	Network Adapter 1	VM Network	🔻 🗹 Connect
	Video Card	Specify custom settings	

System Migration



IMPORTANT!

Because SDC v1.0 and v1.1 are not fully compatible due to software architecture changes, all logs, patterns, and firmware stored on SDC v1.0 cannot be migrated to SDC v1.1 automatically. Only policy enforcement rules, DDoS protection rules, and objects can be migrated from the SDC v1.0 over to SDC v1.1.

Follow the instructions below if you are upgrading from SDC v1.0 to v1.1:

1. Back up your current SDC v1.0 configurations.

2. Install the new SDC (v1.1) with a new external disk.

3. Activate the SDC v1.1 license key, followed by any IEC or IEF Series licenses.

4. Load the SDC v1.0 configuration backup file onto the new SDC v1.1 instance.

5. Confirm all your devices appear correctly in SDC v1.1.

When a new version of SDC is released, the settings of the old SDC can be migrated by attaching the external disk of the old SDC to the new SDC VM. The migration of settings includes:

- The UUID of the old SDC (To ensure all virtual machines are identified properly, each virtual machine is automatically assigned a universal unique identifier (UUID).)
- The pattern and firmware downloaded by the old SDC.
- The system configuration set from the old SDC including its license, accounting information, security policies etc.
- The security event logs stored by the old SDC.

Procedure

Launch the new instance of SDC. (For more details, see "Deploying Security Dashboard Console" under the "Installing SDC on a VMware ESXi".)

- 1. Power off the old SDC.
- 2. Attach the external disk of the old ODC to the new SDC.

3. The old SDC's information will be migrated into the new SDC.

New hard disk	8 *	0				
Existing hard disk	20480	MB	۲			
🔜 Hard disk 1 🧘	25	GB	•			8
SCSI Controller 0	LSI Logic F	Parallel		•		0
Network Adapter 1	test			٣	Connect	0
📑 Video Card	Specify cu	stom settings	i i	۲		

Configuring the SDC system

Accessing the SDC CLI

- 1. Open the SDC VM console.
- 2. Log in with "root/moxa"

Debian GNU/Linux 9 SDC tty1 SDC login: root Password: Linux SDC 4.9.0-11-amd64 #1 SMP Debian 4.9.189-3+deb9u2 (2019-11-11) x86_64 The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/#/copyright. Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. VShell, version v1.1.0 If you want to exit this shell, please type `exit` on `Ctrl-D`. Caution: please type the command ```oobe`` to active the VShell. Caution: please type the command ```oobe`` to active the VShell. Caution: please type the command ```oobe`` to active the VShell. Caution: please type the command ```oobe`` to active the VShell. Caution: please type the command ```oobe`` to active the VShell. Caution: please type the command ```oobe`` to active the VShell. Caution: please type the command ```oobe`` to active the VShell. Caution: please type the command ```oobe`` to active the VShell.

3. Change the default password

- a. Type the following command to change the default password \$ oobe
- b. Change the default password.
- c. Re-log in to the SDC with your new password.

```
Debian GNU/Linux 9 SDC tty1

SDC login: root

Password:

Last login: Thu Mar 12 15:58:01 GMT 2020 on tty1

Linux SDC 4.9.0-11-amd64 #1 SMP Debian 4.9.189-3+deb9u2 (2019-11-11) x86_64

The programs included with the Debian GNU/Linux system are free software;

the exact distribution terms for each program are described in the

individual files in /usr/share/doc/#/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent

permitted by applicable law.

vShell, version v1.1.0

If you want to exit this shell, please type `exit` or `Ctr1-D`.
```

4. After re-logging in to the SDC, you can type the "help" command to see a list of available commands for the instance.

/Shell, version ≀	/1.1.0
The commands pro	vided in:
access–list	Manage the IP whitelists
	Manage system environment variables
	Exit this shell
help	List all command usage
iface	Manage the network interfaces
ping	Test the reachability of a host
poweroff	Shut down the machine immediately
pwd	Change the root user password
reboot	Restart the machine immediately
resolv	Manage the domain name server
	Send files via scp
service	Manage the dashboard service
sftp	Send files via sftp
Phontout toble:	
Tob	Auto complete en abagan the next suggestion on the list
Ctpl + A	Co to the beed of the line (Wome)
Ctpl + E	Co to the tail of the line (Home)
Ctrl + D	Delete the character located at the cursor
Ctrl + I	Clear the screen
8	

Getting the IP Address of the SDC Instance

- 1. Type the following command to get the IP address of the SDC Instance.
 - \$ iface ls



- If your VMware network adaptor setting is using NAT, please set up port forwarding rules and specify NAT outbound IP to allow traffic to pass from the IEC-G102-BP Series to the SDC:
 - Setup port forwarding rules. Please click Edit → Virtual Network Editor, and then select the right network subnet. Click NAT Settings to create the following port forwarding rules:
 - To access a web management console, forward packets from host TCP port 8443 to the SDC server IP TCP port 443.
 - To allow users to configure the IEC-G102-BP Series through the SDC including all configuration settings and commands, packets should be forwarded from the host TCP port 7590 to the SDC server IP TCP port 7590.
 - iii. To allow IEC-G102-BP Series to upload logs to the SDC, packets should be forwarded from the host TCP port 9093 to the SDC server IP TCP port 9093.

Host Port	Type	Virtual Machine IP Address	Des	cription		
7590	TCP	192.168.18.128:7590	SDC	Command Chan	nel	
9093	TCP	192.168.18.128:9093	SDC Logging Channel			
8443	TCP	192.168.18.128:443	Web Console Access			

- b. Set up the NAT outbound IP address for the SDC environment parameters
 - Find the NAT outbound IP address on the VM host PC. If your host PC is using Windows, you can type "ipconfig" to find it.



- ii. Type the following command in the SDC CLI to set the IP environment parameters of the SDC Instance
 - \$ env exip [the NAT outbound IP address]
 - \$ service reload

(Optional) Configure the IP Address Settings

You can choose to configure the IP address manually.

 Use the "iface update" command to update the settings of an existing network interface. For example, the following command sets the interface "eth0" to a static IP address 10.7.19.157/24 with the Gateway IP address 10.7.19.254:

```
$ iface update eth0 --method static --address
10.7.19.157 --netmask 255.255.255.0 --gateway
10.7.19.254
```

Confirm the network interface settings are correct and execute the following command to bring the new settings into effect:

\$ iface restart eth0

3. Execute the following command to view the network interface settings:

 Use the "resolv add" command to add a DNS server and "resolv Is" to list the DNS servers that have been added. For example, the following command adds "8.8.8.8" to the DNS server list.

```
$ resolv mode custom [the name of server]
```

- \$ resolv add 8.8.8.8
- 5. Type the following command to view the DNS server settings.





 Open the TCP and UDP communication ports below to allow IEC-G102-BP and IEF-G9010 Series devices to communicate with SDC.

Service	UDP	ТСР	Description
Command	7590		Send commands to devices, bi-
Channel			directional
Events Log	9093		Send event logs to SDC
NTP Services		123	NTP time synchronizing services
Syslog	601	514	Send syslog to SDC
Web Console	443		Allow SDC to access the device
			web console
SSH	22		(Optional) Allow SDC to access
			the device command line

- 7. Execute the following command to reboot the VM:
 - \$ reboot

Opening the Management Console

The Security Dashboard Console provides a built-in management console that you can use to configure and manage the product. View the management console using a web browser.

NOTE View the management console using Google Chrome version 63 or later; Firefox version 53 or later; Safari version 10.1 or later; or Edge version 15 or later.

Procedure

1. In a web browser, type the address of the Security Dashboard Console in the following format:

https://<target server IP address or FQDN>

The login screen will appear.

2. Enter your user name and password.

Use the default administrator credentials when logging in for the first time:

- User name: admin
- Password: moxa
- 3. Click Log On.

If this is your first time to log on, the Login Information Setup frame will appear.

NOTE You must change the default login name and password at first log on before you can access the management console.

NOTE New login name cannot be "root", "admin", "administrator" or "auditor" (case-insensitive).

- a. Confirm your password settings.
 - New Login Name
 - New Password
 - Retype Password
- b. Click Confirm.

You will be automatically logged out of the system. The Log On screen will appear again.

c. Log on again using your new credentials.

NOX	∧ Securit	y Dashboard C	onsole				🛓 minghao (A	
ashboard	Visibility +	Node Management 💌	Logi 🕶	Administration •	About			
ermay +								0 Tel: Settings 🛛 🔅 And Miles
Environment Summ	ry (Group Burnmary)				Asset Types			
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	64 Attents		0 0 1 18 0mi	•		C)	Others 28 Delition Lastop 20 Pril 18 Renter 7
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All Groups				MX				
Device		100		Pattern Version		Firmware Version	Model	Assets
25-67649	172.160.8	• •	tine	MORATE ORIGINAL		P6.002.09.2	P5-132-8P	
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975-954463	172.160.9	•0	ine .	80997503865		P5.942.042	95-112-00	
95-469250	172.160.18	•0	sine .	M_91008_90		P5.942.03.1	95-192-04	
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Register IEC-G102-BP devices to SDC

On the web console of the IEC-G102-BP device, please go to **Administration** \rightarrow **Sync Settings**, and set up the SDC IP address and enable SDC management.

System	Visibility •	Device 🔻	Object Profiles *	Security 🔻	Pattern *	Logs 🔻	Administration *	About
Administr	ation > Sync Sett	ings						
SDC Se	ttings							
C E	nable SDC Mana	gement						
SDC S	erver Address 19	2.168.127.12						
SDC S	ync: Connected							