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## 1. Mirasys Reporting Grafana

멾 General / Miras	ys VMS Audit 1	Frail V1.2 ★ 🖋								<b>⊪</b> ∳ ြ ⊗	🕑 La	st 12 hours	× Q ℃ 1m	· 🕀
Users SpotterWeb ~	Events All	<ul> <li>Application All - Serv</li> </ul>	ers All ~											
				User action	ons								User summary	
2021-11-12 09:06:32	SpotterWeb	SpotterWeb (172.17.102.25)	Open real-time video stream		Success	Camera 4				172.17.102.25:50	09	SpotterWeb	37	
2021-11-12 09:06:32	SpotterWeb	SpotterWeb (172.17.102.25)	Close playback video stream		Success	Camera 4				172.17.102.25:50	109			
2021-11-12 09:03:37	SpotterWeb	SpotterWeb (172.17.102.25)	Open playback video stream		Success	Camera 4				172.17.102.25:50	109			
														total
						<b>_</b>							icknowledge alarm	
												- /	idd new tab	
												- (	hange digital output state	
											<b>1</b>		change web views	
													lose Spotter window	
03:00	04:00	05:00 06:	00 07:00	08:00	(	19:00	10:00	11:00	12:00	13:00	14:00			
Channe divital output state														
Change upp views									_					
Close real-time video stream									_					
Open real-time video stream														
Select tab														
Acknowledge alarm														
Close playback video stream														
Close real-time video view														
Close Spotter window														
Close tab														
Open prayback video stream														
looput														
Open namera real-time view														
Pulse digital output state														
and the second second														



### 1.1. Introduction

Grafana reporting tool is used as a user interface to create reports from Mirasys VMS database.

Basic reports are created from the **Audit Trail** database and **VMS Alarm**s database.

Grafana user interface is browser-based, so it can be run in any modern browser (like Chrome, Edge, Firefox) and also inside Mirasys Spotter using the Spotter Web browser plugin



### 1.2. Requirements

- Mirasys VMS V7.6.1 or newer
- Microsoft SQL Express 2014 or newer
- Grafana 6.4.4 or newer
- Grafana plugins; Multistat and Grafana Image Renderer

https://grafana.com/grafana/plugins/michaeldmoore-multistat-panel

https://grafana.com/grafana/plugins/grafana-image-renderer



### 1.3. MICROSOFT SQL Configuration Manager

You can check this opening SQL Server Configuration Manager; this program can be found in Start-menu.

- 1. Start Microsoft SQL Server Configuration Manager
- 2. Select Protocols for SQLEXPRESS
- 3. Double-click top of the **TCP/IP**
- 4. Check that **TCP/IP** is enabled
- 5. Click **OK**

Protocol Name	Status	TCP/IP Properties	?	×
a Shared Memory	Disabled	Protocol IR Addresses		
a Named Pipes	Enabled	Troucis IF Addresses		
a ICP/IP	Enabled	General		
		Enabled Yes		-
		Keep Alive 30000		
		Listen All Yes		
		Enabled Enable or disable TCP/IP protocol for this server instance		
		OK Cancel Apply	H	ielp

- 6. Open **IP addresses tab**
- 7. Find IPALL
- 8. Remove all numbers TCP Dynamic Ports field
- 9. When this is done, press **OK**



TCP Port			
E 1P5			
Active		Yes	
Enabled		No	
IP Address		::1	
TCP Dynamic	Ports	0	
TCP Port			
E 1P6			
Active		Yes	
Enabled		No	
IP Address		127.0.0.1	
TCP Dynamic	Ports	0	
TCP Port			
TCP Dynamic	Ports		
TCP Port		1434	

and you should see the Warning message what is saying that you need to restart the SQL service.



- 1. Select SQL Server Services
- 2. Right mouse click and select Restart  $_{\text{File}\ Action\ View\ Help}$

🗢 🌩   🙇   🖾 🗟   📓   🕑 🕕 📀 🍼							
SQL Server Configuration Manager (Local)	Name		State	Start Mode	Log On As	Process ID	Service Type
SQL Server Services	SQL Server (SQL S	2/00500	Running	Automatic	LocalSystem	4448	SQL Server
SQL Server Network Configuration (32bit	SQL Server Ag	Start	Stopped	Other (Boot, Syste	NT AUTHORITY\NE	0	SQL Agent
SQL Native Client 11.0 Configuration (32)	C SQL Server Br	Stop	Stopped	Other (Boot, Syste	NT AUTHORITY\LO	0	
Ju SQL Server Network Configuration		Pause					
SQL Native Client 11.0 Configuration		Resume					
-		Restart					
		Properties					
		Help					

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### 1.4. MICROSOFT SQL Server Management Studio

There is also an option that you want to create your own user account in Microsoft SQL which is used for reading database information.

You may need your own account if you want to example make the connection more secure.

When you have installed VMS using the Full Installer package this normally use only Windows Authentication.

This means that you need to enable Mixed Mode in Microsoft SQL which allow using your own account for database login.

All needed changes and configuration for own user account can be done in Microsoft SQL Server Management Studio.

This program can be found in Start Menu.



### 1.4.1. MICROSOFT SQL account for the GRAFANA

### **Server Authentication**

- 1. Start Microsoft SQL Server Management Studio
- 2. Click **Connect**

🚽 Connect to Server		×
Microsoft S	QL Server 2014	
Server type:	Database Engine	~
Server name:	MIRASYS-VMS-2\SQLEXPRESS	~
Authentication:	Windows Authentication	$\sim$
User name:	MIRASYS-VMS-2\dvr	~
Password:		
	Remember password	
	_	
Conne	ct Cancel Help Opt	tions >>

- 3. Select SQL Server and right-click
- 4. Select Properties



Object Explorer	- ↓ ×
Connect 🕶 👥 👥 🖉 🖉 🌌	
<ul> <li>MIRASYS-VMS-2\SQLEXPRESS (SQL Ser</li> <li>Databases</li> <li>Security</li> <li>Server Objects</li> <li>Replication</li> <li>Management</li> </ul>	Ver 14 ∩ 1000 - MIRASYS-VMS-2\dvr) Connect Disconnect Register New Query Activity Monitor Start Stop Pause Resume Resume Restart Policies ► Facets Start PowerShell Reports ► Refresh Properties

- 5. Select SQL Server and Windows Authentication mode
- 6. Click **OK**



🔒 Login - New				-		×
Select a page	🔄 Script 🔻 📑 Help					
Server Roles User Mapping Securables	Login name: O Windows authentication SQL Server authentication	GrafanaUser			Search	
	Password:	•••••				
	Specify old password					
	Old password:					
	Enforce password policy	tion				
	User must change passv	vord at next login				
	<ul> <li>Mapped to certificate</li> </ul>			$\sim$		
	Mapped to asymmetric key			$\sim$		
Connection	Map to Credential			$\sim$	Add	
Server: MIRASYS-VMS-2\SQLEXPRESS	Mapped Credentials	Credential	Provider			
Connection: MIRASYS-VMS-2\dvr						
View connection properties						
Progress					Remov	/e
Ready	Default database:	master		~		
	Default language:	<default></default>		~		
			ОК		Cance	

### Adding new user

- 1. Select SecurityLogins
- 2. Right-click top of the Logins
- 3. Select New Login





This will open a new window where you can fill in information for this new user.

#### Example

- Login name: GrafanaUser
- SQL Server authentication
- Password: GrafanaUser
- Default database: master
- 4. Enter Login name
- 5. Set SQL Server Authentication
- 6. Enter **Password**
- 7. Remove Enforce password policy
- 8. Click OK



Select a page	🕄 Script 💌 🖪 Help			
🚰 General	T) contra 10 note			
Server Roles User Mapping Securables Status	Login name: Windows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password expirat	Grafana User		Search
	User must change passw	ord at next login		
	Mapped to certificate		~	
	<ul> <li>Mapped to asymmetric key</li> </ul>		$\sim$	
Connection	Map to Credential		$\sim$	Add
Server: DESKTOP-11A0KQH\SQLEXPRE	Mapped Credentials	Credential	Provider	
Connection: DESKTOP-11A0KQH\dvr				
View connection properties				
Progress				Remove
Ready	Default database:	master	~	
	Default language:	<default></default>	~	
			ОК	Cancel

### **Giving access to the Mirasys VMS database**

After this, you need to give rights for this user that they can access VMS databases.

1. Go to the User Mapping page



Object Explorer		<del>дх</del>				
Connect - 🔢 🖳 🖉 😰 😼						
MIRASYS-VMS-2\SQLEXPRESS (SQL Server 14.0.1000 - MIRAS     Databases     Databases	SYS-VMS-2\dvr)					
E Dogins	I Login Properties - Grafanal	cer		_		×
##MS_PolicyEventProcessingLogin##	Select 2 mm					~
BUILTIN/Administrators	General	🔄 Script 🔻 🚺 Help				
BUILTIN\Users     BUILTIN\Users     BESKTOP-CRO7PN1\dvr     A DESKTOP-CRO7PN1\dvr     A NT AUTHORITY\SYSTEM	Server Roles User Mapping	Login name: Vindows authentication	<u>Grafana User</u>		Search	1
A NT SERVICE\MSSQLESQLEXPRESS		SQL Server authentication				
MT SERVICE\SQLTELEMETRY\$SQLEXPRESS NT SERVICE\SQL Writer		Password:	•••••	•		
A NT SERVICE\Winmgmt		Confirm password:	•••••	•		
a sa		Specify old password				
GratanaUser		Old password:				
Credentials		Enforce password policy				
🕀 🧰 Server Objects		Enforce password expira	tion			
Replication     Management		User must change passv	vord at next login			
in angement		<ul> <li>Mapped to certificate</li> </ul>				
		<ul> <li>Mapped to asymmetric key</li> </ul>				
	Connection	Map to Credential			Add	
	Server: MIRASYS-VMS-2\SQLEXPRESS	Mapped Credentials	Credential	Provider		
	MIRASYS-VMS-2\dvr					
	View connection properties					
	Progress				Remov	/e
	Ready	Default database:	master	~		
	a <sup>d b</sup> a	Default language:	English	~		
				ОК	Cancel	۱

- 2. Map
  - a. DvmsData
  - b. RecorderDB
  - c. WdContext
- 3. Give **db\_datareader** role for each of these databases.
- 4. When you have done this you can click **OK**.



Login Properties - GrafanaU	ser				-		$\times$
Select a page		▼ Help					
General		6 <u>1</u>					
Server Holes		and a shire beats.					
Securables	Users ma	apped to this login:		D.C. H.C.L			-
Status	Мар	Database	User	Default Schema			
		Anpr					
		ConfigurationDatabase					
		DvmsData	GrafanaUser				
		Export					
		IncidentReporting					
		master					
		model					
		msdb					
		RecorderDB	GrafanaUser				
		StorageLocker					
		tempdb					
		WdContext	Grafanallear				
	Gues	t account enabled for: WdConte e role membership for: WdConte:	ert xt				
		packupoperator					
	db_d	latareader					
	d	latawriter					
		idiadmin lenvdatareader					
		lenydatawriter		Enable de da	taroador		
Connection	dbo	owner		Enable us ua	laicauci		
Server: MIRASYSJ/MS2/SOLEXPRESS	db_s	ecurityadmin		and public to	heach		
Connection:	e paos	•					
MIRASYS-VMS-2\dvr							
Vew connection properties							
-							
Progress							
Ready							
48 <sup>h</sup> A							
					OK	Canc	el



### 1.5. Mirasys Reporting Grafana

- 1. Download package from Mirasys Extranet. The current version is 1.0.3
- 2. Extract downloaded package
- 3. Browse to the Installation folder
- 4. Start the installation by clicking the installation package

Name	Date modified	Туре	Size
DvmsData.yaml	12.11.2021 9.25	YAML File	1 KB
🗊 grafana-enterprise-8.1.2.windows-amd64.msi	12.11.2021 9.25	Windows Installer	59 193 KB
grafana-image-renderer-3.0.1.windows-amd64.zip	12.11.2021 9.25	Compressed (zipp	165 209 KB
📱 michaeldmoore-multistat-panel-1.7.2.zip	12.11.2021 9.25	Compressed (zipp	140 KB
SQLEXPRESS-openport.ps1	12.11.2021 9.25	Windows PowerS	1 KB

#### 5. Click **Next**



6. Accept the License Agreement and click **Next** 



GRAFANA LABS LI	ICENSE AGREEMENT			^
PLEASE READ CA	REFULLY THIS GRAFAN	NA LABS LICENSE AG	BREEMENT (THIS	
"AGREEMENT"), W	HICH CONSTITUTES AT	LEGALLY BINDING A	GREEMENT AND G	OVERNS
AGREEMENT IS IN	ICLUDED ("GRAFANA LI	ABS SOFTWARE") TH	AT IS PROVIDED IN	N OBJECT
CODE FORMAT, B	Y INSTALLING OR USIN	IG ANY OF THE GRA	FANA LABS SOFTW	/ARE
ENTERPRISE, YO	U ARE ASSENTING TO 1	THE TERMS AND CON	NDITIONS OF THIS	
AGREEMENT, IF Y	OU DO NOT AGREE WI	TH SUCH TERMS AN	D CONDITIONS, YO	DU MAY
INOT INSTALL OR I	USE THE GRAFANA LAD	53 SUFTWARE GOVE		REEMENT.
IF YOU ARE INST/	ALLING OR USING THE	SOFTWARE ON BEH	ALF OF A LEGAL EI	NTITY, YOU
IF YOU ARE INST. REPRESENT AND	ALLING OR USING THE WARRANT THAT YOU P	SOFTWARE ON BEH HAVE THE ACTUAL A	UTHORITY TO AGR	NTITY, YOU EE TO THE

#### 7. Use all default settings and click **Next**

😸 GrafanaEnterprise Se	tup						×
Custom Setup Select the way you v	vant features to be ins	talled.	6	Gr	af	ar	١C
Click the icons in the	tree below to change t	he way	features	vill be install	ed.		
Grafa	na Grafana Enterprise Run Grafana as a Ser	vice	This feat hard driv subfeatu subfeatu hard driv	ture requires ve. It has 2 d ures selected ures require ve.	: 0KB or of 2 J. The 200MB	n your on your	,
Location: C:	\Program Files\Grafana	Labs\			В	rowse	
Reset	Disk Usage		Back	Next	٦	Cance	4

8. Click Install



😸 GrafanaEnterprise Setup	-	• ×
Ready to install GrafanaEnterprise	Gra	fana
Click Install to begin the installation. Click Back to re installation settings. Click Cancel to exit the wizard.	view or change any of your	,
$\triangleright$		
Back	Install	Cancel

9. Click Finish



After the installation check that Grafana service is running



1	<ul> <li>Services</li> </ul>				
	Grafana	Name	Description Status	Startup Type	Log On As
		GameDVR and Broadcast User Service_ac1cd	This user ser	Manual	Local System
	Stop the service	Ceolocation Service	This service	Manual (Trig	Local System
	Restart the service	🚱 Grafana	Grafana by Running	Automatic	Local System
		🧛 GraphicsPerfSvc	Graphics pe	Manual (Trig	Local System
		🤹 Group Policy Client	The service i	Automatic (T	Local System
	Grafana by Grafana Labs	A HP CASL Framework Service		Manual	Local System
	charana by charana cabs	Report Solutions Framework Service	This service Running	Automatic (	Local System



### 1.6. Login Grafana

If the service is running, then open the browser on the master server and enter an address **http://127.0.0.1:3000**.

If you run the browser on some other machine, please enter the master server IP address instead of 127.0.0.1

The default username is **admin** and password **admin**. It is recommended to change the default password as soon as possible.

Welco	<b>The to Grafan</b>	а
Email or username email or username		
' Password		
password		6
	Log in	
	Log in Forgot your p	password?

Set a new password for the admin user



a
۲
0



### 1.7. Database configuration

Grafana will need access to the VMS DvmsData database running on the Master server.

### Windows PowerShell

- 1. Create folder Grafana to the root of the C:
- 2. Browse to the extracted Grafana package Installation folder
- 3. Copy script file "SQLEXPRESS-openport" to the C:\Grafana
- 4. Open search and type PowerShell
- 5. Select Windows PowerShell and click Run as administrator

All Apps Documents Web M	ore 🔻	R
Best match		
Windows PowerShell		$\geq$
Apps		Windows PowerShell
Windows PowerShell ISE	>	App
Windows PowerShell (x86)	>	
Windows PowerShell ISE (x86)	>	□ <sup>*</sup> Open
Settings		G Run as administrator
PowerShell Developer Settings	>	D Open file location
Allow local PowerShell scripts to run without signing	>	-□ Pin to Start -□ Pin to taskbar
<ul> <li>Replace Command Prompt with</li> <li>Windows PowerShell in the Win + X</li> </ul>	>	
Search the web		
D powershell - See web results	>	
P powershell core	>	
P powershell admin	>	
∽ powershell		o 🛱 💽 🧮 😒 🜌 🖉 🖼

- 6. Browse to the C:\Grafana
- 7. Type SQLEXPRESS-openport.ps1 and press Enter

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8. Close PowerShell



### **Database credentials**

As default **DvmsData.DB** uses credentials **dvr** and password **32dvr** 

- 1. Open **Configuration**
- 2. Click Data sources



Ø	器 General / He	ome
Q +	Welcom	e to Grafana
Ø	Basic	
¢	The steps auide vou	below will to quickly
ø	Configuration	ing up your Istallation.
Ū	Data sources	
	우 Users	
	ମ୍ଭ Teams	
	♥ Plugins	
	‡. Preferences	
	o <sup>⊀</sup> API keys	Dashboards
	Starred dashboard	ls
	Recently viewed d	ashboards

#### DvmsData should be found from the Data sources list

Configuration Organization: Main Org.	
B Data sources A Users A Teams ♥ Plugins t⊯ Preferences σ <sup>x</sup> API keys	
Q Search by name or type	Add data source
DvmsData Microsoft SQL Server   localhost:1434	

### **Changing database credentials**

- 1. Click **DvmsData**
- 2. Change username and password, if needed

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()	<b>Provisioned</b> This data so	<b>data sourc</b> urce was a	<b>e</b> dded by config and	d cannot be modifie	ed using the	UI. Plea	e contac	your se	rver adm	in to upd	ate this d
Name		DvmsData	1		Default						
MS SQL co	nnection										
Host	localho	ost:1434									
Database	DvmsD	ata									
Authentication	SQL Se	rver Authe	ntication 👻 🔅								
User	.\dvr		Password	configured	Reset						
Encrypt	false		<b>-</b> 3			4					
Connection Max open Max idle	limits 0 2										
Connection Max open Max idle Max lifetime	limits 0 2 14400										

### **Testing database connection**

Click **Test** 



If credentials and connection to the database are okay, you will see the **Database Connection OK** message

	User F The da For exa	mission pase user should only be granted SELECT permissions on the specified database and tables you want to query. Grafana does not validate that queries are safe so queries can contain any SQL statement. ple, statements like USE otherdb; and DROP TABLE user; would be executed. To protect against this we highly recommend you create a specific MS SQL user with restricted permissions.
1		
	~	Database Connection OK

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### Adding a new data source

#### RecorderDB

1. Click Add data source

Configuration Organization: Main Org.	
B Data sources	
Q Search by name or type	Add data source
DvmsData Microsoft SQL Server   localhost:1434	

2. Find Microsoft SQL Server and click Select



- 3. Set Name: RecorderDB
- 4. Set Host: localhost:1434
- 5. Set Database: RecorderDB
- 6. Authentication: SQL Server Authentication
- 7. Set user and password
- 8. Click Save & Test



Name	③ Microsoft	SQL Server		Default						
MS SQL conne	ection									
Host	localhost:1434									
Database	RecorderDB									
Authentication	SQL Server Auther	ntication 🗸 💿								
User	.\dvr	Password	configured	Reset						
Encrypt	false	• 0								
Max open Max idle Max lifetime	unlimited © 2 © 14400 ©									
MS SQL details Min time interval 1m ©										
Back Delete Save & test										

When Grafana is connected to the database, you will see the message **Database Connection OK** 

~	Database Connection OK

#### WDContext.DB

1. Click Add data source

Configuration Organization: Main Org.	
🛢 Data sources 🔗 Users 🙊 Teams 🛱 Plugins †∰ Preferences ♂ <sup>4</sup> API keys	
Q Search by name or type	Add data source
DvmsData Microsoft SQL Server   localihost:1434	

2. Find Microsoft SQL Server and click Select

	Microsoft SQL Server Data source for Microsoft SQL Server compatible databases Core	Select
--	---	--------



- 3. Set Name: WDContext
- 4. Set Host: localhost:1434
- 5. Set Database: WDContext
- 6. Authentication: SQL Server Authentication
- 7. Set **user and password(**please set .\ front of the username, if Windows credentials is used)
- 8. Click Save & Test

Name	③ Microsoft	Default								
MS SQL conne	MS SQL connection									
Host	localhost 1434									
Polohoon										
Database	RecorderDB									
Authentication	SQL Server Auther									
User	.\dvr	Reset								
Encrypt	false									
Connection lir	nits									
Max open										
Max idle										
Max lifetime	14400 ©									
MS SQL detail	s									
Min time interval										
Back	elete Save &	test								

#### Data sources should look like below

Ę	33 (	Configuration Organization: Main Org.	
	🕄 Data	a sources	
	Q Searc		Add data source
		DvmsData Microsoft SQL Server   localhost:1434	
		RecorderDB Microsoft SQL Server   localhost:1434	
		WDContext Microsoft SQL Server   localihost:1434	



### 1.8. Importing dashboards

### The next step is to import Mirasys VMS Audit Trail and VMS Alarms dashboards into the Grafana tool

- 1. Browse to extracted Grafana package
- 2. Copy **Dashboards** folder to the **C:\Grafana**
- 3. Hover over the "+" sign (left upper corner) and select+click "Import" menu item

Ø		Configuration Organization: Main Org.	
Q			
+	Create		
88	品 Dashboard	Q Search by name or type Add	data source
~	Folder		
G	🛃 Import	DvmsData	
¢		Sel Microsoft SQL Server   localhost:1434	
ŵ			
Ū			

4. Click Upload JSON file



Import Import dashboard from file or Grafana.com	
① Upload JSON file	
Import via grafana.com	
Grafana.com dashboard URL or ID	Load
Import via panel json	
Load	

- 5. Select file "mirasys-vms auditTrail-v1-2\_rev2.json
- 6. Click **Open**



C Open X													
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\square$ $\rightarrow$ This	ې ق 🗸	,O Search Dashboards											
Organize 👻 New folde		•											
🏪 Local Disk (C:) \land	Name	Date modified	Туре	Size									
\$WinREAgent	Mirasys Reporting Dashboard.json	11.6.2020 13.50	JSON File	2 KB									
DVMS	mirasys-vms-alarms-v1-2_rev2.json	31.8.2021 12.50	JSON File	17 KB									
Grafana	mirasys-vms-audit-trail-v1-2_rev2.json	31.8.2021 12.50	JSON File	15 KB									
inetpub	vms-alarms-v2-0-summary_rev1.json	31.8.2021 12.50	JSON File	22 KB									
Intel	vms-watchdog-events-v1-2_rev3.json	31.8.2021 12.50	JSON File	18 KB									
PerfLogs													
Program Files													
Program Files (													
ProgramData													
SWSetup													
system.sav													
Users													
Windows													
👝 Local Disk (D:) 💙													
File na	me: mirasys-vms-audit-trail-v1-2_rev2.json		√ JS	ON File	$\sim$								
			C	Open	Cancel								

7. Select **DvmsData** from the Microsoft SQL Server data source dropdown box

#### 8. Click Import



Import Import dashboard from file or Grafana.com										
Options Name										
Mirasys VMS Audit Trail V1.2										
Folder										
General	~									
Unique identifier (UID) The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.										
bzWCt0Vnk	Change uid									
DvmsData										
🕈 DvmsData	Ý									
Import Cancel										

When template import is done, Grafana will automatically run the report and show results:

User       All       Event       Application       Image: Control or Control	Ô	器 Gene	eral / N	virasys	VMS	Audit	Trail	V1.2	습	æ																						ıhł	6	0	<ul> <li>Last</li> </ul>	1 year	×Q	0	× ₽
Image: Control of Contro																																							
Image       User       Application -       Event       Status       Device       Server name	۲ ک																	User ac	er actions																User summary				
2021-11-01 119244       Spotter/Web												Applic																									Numl	per of act	ons ~
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Before starting to use reports, repeat template import for all "DVMS\*.json" files in this order:

• VMS Audit Trail

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- VMS Alarms
- VMS Watchdog Events