

IBM ECM System Monitor Field Guides

Integration with Grafana

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Introduction

Overview

This guide describes in detail, how IBM ECM System Monitor (ESM) can be integrated in Grafana to review ESM incidents.

Disclaimer

The content of this document is based on ESM Version 5.5.9.0-00. The descriptions and guidelines in this document are for informational purposes only. Up-to-dateness, content completeness, appropriateness and validity for all possible scenarios cannot be guaranteed. All information is provided on an as-is basis. The author is not liable for any errors or omissions in this document or any losses, injuries and damages arising from its use.

If you are planning to setup or configure ESM or to adjust an existing installation, it is absolutely necessary to take into account current security whitepapers, release notes and announcements from the official IBM ECM System Monitor product documentation website.

Purpose of this guide

Grafana has become more and more popular. Therefore we have added a possibility to review incidents from ESM in Grafana. The way to achieve this is described in this guide.

Requirements

- ESM Version 5.5.9.0-000 or later (already installed)
- Grafana (already installed)
- The Grafana System must be able to access the ESM Server REST API via URL

- The Plugin for JSON Data source (minimum Version 0.6.0) must be installed in Grafana – See: <u>https://grafana.com/grafana/plugins/simpod-json-datasource/</u>

Step by Step setup

1. Setup ESM data source in Grafana

Open Configuration -> Data sources and click JSON Data source:

0		Y	MongoD8 Integration and data source
Q			Jira Jira integration and datasource
+ 88		- <mark>e</mark> n	Honeycomb Honeycomb integration and datasource
		₩	GitLab GitLab Integration and datasource
@ 0	Configuration	dynakrace	Dynatrace Visualize and explore Dynatrace data
	A Users A∖ Teams ♥ Plugins		DataDog DataDog integration and data source
	ti Preferences o ⁴ API keys ◎ Recorded queries		AppDynamics AppDynamics integration and data source
		Others	
		10	TestData DB Generates test data in different forms Core
			JSON Load JSON data over your arbitrary HTTP backend <u>A</u> Signed
			Find more data source plugins on grafana.com
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The Editor for the data source opens:

The following setup reflects the required information:

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Ô	Data Sour	<u>ces</u> /	' ESM						
Q	†l∤ Settings								
+									
88	Name 🕕	ESM				Default			
Ø	нттр								
\$	URL		https://	smccos8esm552/r	est/grafana				
¢	Access		Server	(default)			Help >		
Ū	Allowed cookies		New tag	g (enter key to add					
	Timeout		Timeou	t in seconds					
	Auth								
	Basic auth			With Credentials		0			
	TLS Client Auth			With CA Cert		0			
	Skip TLS Verify								
	Forward OAuth Identity								
	Basic Auth Details								
	User	admin							
	Password	config	ured			Reset			
	Custom HTTP Headers + Add header								
æ	Back Explore	Del	lete	Save & test					

Parameters that must be adjusted:

- Name: Give a name for the data source e.g. ESM
- URL: Specify the URL of your ESM Server followed by /rest/grafana, e.g. <u>https://YourESMServer/rest/grafana</u>
- Check "Basic Auth", "With Credentials" and "Skip TLS Verify" as active
- Specify the Basic Auth Details (User and Password of ESM login)

Click on "Save & test" to save the source. Data source is working should be shown as result. Sometimes it can also happen that the test shows a not working data source. Please proceed anyway with the next steps.

2. Setup of a dashboard filled with ESM Data

Click on + -> Create -> Dashboard to create a new dashboard

()		Configuration Organization: Main Org.
		🛢 Data sources 🛛 Users ㈜ Teams ☆ Plugins †∦ Preferences ♂ ⁴ API keys ⊚ Recorded queries
+	Create	
88	品 Dashbowd	Q. Search by name or type
	Folder	
Ø	tmport 🕁	{} ESM
¢		JSON https://smccos8esm552/rest/grafana default
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Click on Add a new panel:

器 New dashboard								
ILIA Add panel	×							
الله ک Add a new panel	➡ Add a new row							
لک Add a panel from the panel library								

In the panel setup make sure that your ESM data source is selected in the Data source. You can set various information like panel title, type etc. on the right site. From the metric drop down you can select the ESM metric that should be shown in the panel:

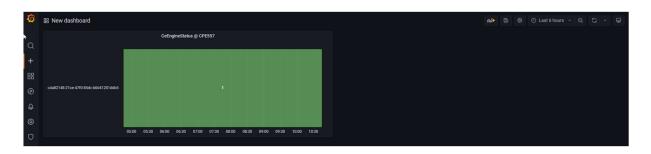
← New dashboard / Ed	it Panel						Discard Save Apply
			Table view Fill Actual				
						options	
		Panel Title					
					 Panel o Title 	ptions	
					Panel	Title	
		No data			Descript	ion	
				Transpa	rent background		
					> Par	el links	
					> Rep	eat options	
					 Tooltip 		
😫 Query 🕕 🖾 Transfe					Tooltip n Sing		
Data source () ESM × C				Query inspector			
					~ Legend		
A (ESM) Metric:					cegena	node Table Hidden	
Active Worker Threads @ C	:PE55	•				placement	
ActivityTransferVolume @							
ActivityWaittime @ TSM7					Legend	values alues or calculations to show in leg	
AllMkfDatabasesAvailable	@ IS42						
ApacheAccessLogfile @ Ap	bacheAccessLog						
AuditTrailLog @ BASEOS					 Graph s 	tyles	
BASEOS DB Select Total Co	ount @ LocalListener				Style	s Bars Points	
HatchitErrors @ IS42_Agen	t				Line inte		

Example Setup for CEEngineStatus Metric as State Timeline type:

		Table view Fill Actual		State timeline				
				Q Search options				
	CeEngineStatus @ CPE557							
				 Panel options Title 				
				CeEngineStatus @ CPE557				
	cda82148-21ce-47f0-85dc-b0d41201ddb5			Description				
				Transparent background				
	05:00 05:30 06:00 06:30 07:00 07:30 08:0	0 08:30 09:00 09:30 10:00 10:30		Panel links Repeat options				
			▶	State timeline				
🖯 Query 🕕 🖸 Transfo				Merge equal consecutive values				
Data course U. LESM	Query options MD - auto = 914 interval = 20s		Query inspector	Show values				
	y query options wo - auto - yr a interval - yoa		query inspector	Auto Always Never				
→ A (ESM)				Align values				
Metric: CeEngineStatus @ C	PE557 ~			Left Center Right				
Payload 1				Row height	0.9			
				Line width				
				Fill opacity				
				Connect null values Never Always Threshold				

Click on Apply to add the panel to the dashboard.

On the top right corner of the dashboard you have the possibility to add additional panels, adjust settings of the dashboard (e.g. rename it) or even save it.



Contact Information

If you have any questions, please contact us at <u>ECM.SystemMonitor@cenit.com</u>.

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