

IBM ECM System Monitor Field Guides

First steps setting up monitoring

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Introduction

Overview

This guide describes in detail, how IBM ECM System Monitor (ESM) can be used to setup a useful monitoring after the installation of the software. The setup is described exemplarily for a FileNet Content Platform Engine.

Disclaimer

The content of this document is based on ESM Version 5.5.9.0. 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

This guide describes the first steps that need to be done to provide a useful monitoring solution after the software has been installed. As an example during this procedure we will be using a setup for a CPE System.

Requirements

- ESM Version 5.5.9.0 or later (already installed)
- Agent with same version as server that can be used for monitoring (already installed)

Step by Step procedure

1. Setup Subsystems for a Content Platform Engine

For the various products you can monitor within ESM you can find a so called subsystem in ESM. A subsystem handles the setup information of the products. Information like users, URLs, paths etc. will be configured here. Within a subsystem other subsystems can be referenced so that it can use the information of the other subsystem. Example: A subsystem for an object store can reference a database subsystem with information about the object store database.

Before you actually can monitor the products you have to complete the setup of the corresponding subsystem. In this example we will cover this for a Content Engine Platform.

First login to your ESM console and switch to the configuration dashboard. On the left site you will find an icon that represents subsystems. With the buttons above the list, you can create, copy or delete subsystems (hover over them to get a better info).



We start with the creation of a subsystem with this icon: \boxdot

After clicking the icon the so called subsystem editor opens. First start with the selection of the subsystem. In our case ContentPlatformEngine.

IBM ESM 5.5.7.0-000		Monitoring Configuration	Administration H	Page And
Configuration , 🚠 Subsystems				
≪ 1 ⊕ Ur ⊡ v 2° ti	x < > ~			
No Subsystems available	A Subsystem			Configuration Help
T	Specify the type of subsystem you want to following pages	configure and fill in the parameters. If applicable you can configure relate	ed subsystems on the	ContentPlatformEngine
	Note: when switching panels in this editor	changes will be persisted automatically.		Name Specify a name. The name should be descriptive and unique to identify the subsystem when using it for further configuration.
Ф°	Subsystem	ContentPlatformEngine	*	Listener.Apolication Specify the name of the PCH listener for the Application.
	Name:			Example 1. Listener Application
	Listener Application:	*		FileNetEngine, IBM Content Plattform Engine, etc.
~	Listener Instance:	•		
	Listener Application Version:	•		Listener Instance
	URL			Specify the instance name for the Application here.
	User			Note Wildcard * can be used
	Password:	unchanged		
				Listener Application Version Specify the version for the Application here.
	Referencing subsystems:			Note Wildcard * can be used
				URL Enter the URL of the IBM Content Engine related with this subsystem.
				Example 2. URL
				http://localhost-9080/wsi/FNCEWS40MTOM
				User
				Optional. Specify the name of the user used for starting the components of the CPE.
				Password Optional. Specify the password of the user used for starting the components of the CPE.

Above the actual editor you can see different icons for the other subsystems that can be referenced within a CPE subsystem. During the setup you can switch to the next possible subsystem or save the setup with these icons from top: \times \checkmark \checkmark

CPE Subsystem

Let us continue with filling out the parameters for the CPE:

📥 Subsystem

Specify the type of subsystem you want to configure and fill in the parameters. If applicable you can configure related subsystems on the following pages

Note: when switching panels in this editor changes will be persisted automatically.

6	Subsystem:	ContentPlatformEngine	•
	Name:	CPE55	
Li	stener Application:	"IBM FileNet Content Platform Engine"	
	Listener Instance:	*	
Listener A	pplication Version:	*	
	URL:	https://smcw2k16p8-55:9443/wsi/FNCEWS40MTOM	
	User:	p8admin	
	Password:	••••••	
Refere	ncing subsystems:		

Name: Specify a name that is unique and can easily be identified. - CPE55

🕄 Conter	t Engine Startup Context 🗙 🕂	~			×
(C A Nicht sicher smcw2k16p8-55:9080/FileNet/Engine	ß	☆	* 2	
Apps	📃 CENIT AG 🛛 10.10.0.1 💪 hotspot.unionlido.c 🎽 2020 Heißer Verkau 📒 CPRE 🌼 FLUGHAFENTRANS		>>	📰 Les	elist
Working Directory	E:\IBM\WebSphere\AppServer\profiles\AppSrv01				
J2EEUtil	com.filenet.apiimpl.util.J2EEUtilWS				
Server Startup Context	System				
Config Values	com.filenet.gcd.ProductVersion "5.5.0" com.filenet.gcd.ProductName "IBM FileNet Content Platform Engine" com.filenet.gcd.DroductGuid "3f8e5ad03cc94a259465fce2bae4a47e" com.filenet.gcd.DonainType 0 com.filenet.gcd.ProductInstance E:\IBM\FileNet\ContentEngine				
PCH Listener	5.0.0.146 pch511.146				
INSO Version	8.5.3_OIT_p26438252.001				
Content Search Services Client Version	5.2.1.8FP008-1.1-6137				
Liquent					

Listener Application: The information can be derived from the FileNet Engine page of your CPE. It is the information that is given in the Config Values section for ProductName. In this case it is important to specify the exact wording (with "" if given) - "IBM FileNet Content Platform Engine".

Listener Instance: This information can also be derived from the page but is only needed if you run several CPE instances on one host. We do leave the * here.

Listener Version: Same thing as for the Listener Instance.

URL: Specify the API URL of your CPE here. If you use a secure connection you must reference a keystore subsystem that contains the certificates for the connection: - https://smcw2k16p8-55:9443/wsi/FNCEWS40MTOM

User: Specify an account that has privileges to read from the API – p8admin.

Password: Specify the password for the account – passwords are always stored in encrypted format only!!!

The CPE subsystem setup is completed, so we can continue with the referenced subsystems by clicking

Listener (PCH) Subsystem

The wizard automatically loads the editor for the Listener (PCH) subsystem:

₽Listener

The subsystem can have Listener references. Set them up here.

Ð	C		Û	
Refere	enced s	ubsyste	em	Referencing subsystems (linked are highlighted)

As you can see, there is again the button for adding a subsystem. You can decide if you want to add or not add the Listener Subsystem to your CPE Subsystem configuration. Already existing Listener Subsystems do show up in the table but are not highlighted if they are not referenced.

Let us add a new one and reference it. It can be used for monitoring the PCH (Performance Clearing House) counters of a CPE – Click on the 🕀 button and fill out the parameters:

~	
X	· · · ·

Subsystem:	Listener 💌
Name:	LocalListner
Listener Host:	localhost
Listener Port:	32775
\searrow	CPE55
Referencing subsystems:	

Name: I usually like to reuse subsystems if I can. The PCH setup is normally the same for all systems. Therefore I call it LocalListener so I know it's running with localhost as listener host. Of course this can only be done if the Agent is running on the same host as the monitored product.

Listener host: Specify the hostname of the listener host here – localhost.

Listener Port: The default is 32775 and usually never changes.

Make sure that your CPE Subsystem (CPE55) is referenced.

Click on the v button to save the setup of the PCH subsystem – it should now be shown in the table and the reference to the CPE55 should be highlighted:

The subsystem can have Listener references. Set them up here.

- Li - JA
gntea)

You can add additional PCH subsystems if needed.

Save by clicking.

Continue with the next one by clicking on: Usually only one PCH subsystem is needed.

Logfile Subsystem

The next subsystem is the Logfile Subsystem. The mechanism how this works is the same for all referenced subsystems – always click on B to add the subsystem or highlight one from the already available subsystems if it fits in your setup. Of course you can also skip this step if you do not want to monitor this part:

Logfile

The subsystem can have Logfile references. Set them up here.

• • • •	
Referenced subsystem	Referencing subsystems (linked are highlighted)

Specify the parameters for Name and LogfileName (Full path including file name). As you can see in this example, I could also reference this in the Server_Agent (Type Host) subsystem.

XV

Subsystem:	Logfile
Name:	CPE55P8ServerErrorLog
Logfile Name:	E:\IBM\WebSphere\AppServer\profiles\AppSrv01\FileNet\CE_Server\p8_server_error.log
	CPE55 Server_Agent
Referencing subsystems:	

Repeat this for all Logfiles of your CPE. Possible logs are Websphere SystemOut and SystemError logs, the p8_server_error log (now ce_system0.log in newer CPE versions) and various others. Check the *Probe and Situation Guide* for all possible logs. Once finished click on to proceed with the next subsystem.

JMX Subsystem

The next subsystem is the JMX Subsystem. To be able to use it, a small application must be installed in the JVM where your CPE (works for other applications as well) is running. Check out the configuration guide for a how to of the installation. The setup of the subsystems is as follows:

× ×			
	Subsystem:	Jmx	٣
	Name:	CPE55CPEJMX	
	URL:	http://smcw2k16p8-55:9080/mbeantest	
3	User:	p8admin	
	Password:	••••••	
		CPE55	
	Referencing subsystems:		

URL: During the installation of the app the context root is defined, in my case this is mbeantest. Therefore my URL is http://smcw2k16p8-55:9080/mbeantest. It will always be the hostname and port of the application you want to monitor and the context root for the app that you specified.

User: The user given here is also defined during the app installation. It can be an already existing account – the account needs auditor and monitor roles in Websphere.

Save by clicking.

Once finished click on $\sum_{i=1}^{n}$ to proceed with the next subsystem.

Object Store Subsystem

The next subsystem is the Object Store Subsystem. You should setup one Object Store subsystem for each object store that runs in this CPE context. The procedure is still the same:

× 🗸		
	Subsystem:	ObjectStore 💌
67	Name:	BASEOS
	CSS Directory:	E:\IBM\Content Search Services
	CSS Server Name:	CSS Server
		CPE55
	Referencing subsystems:	

Name: Best is if you use the symbolic name of your object store here

CSS Directory: Optional - Specify the directory of the CSS Server installation. The directory should contain the css-servers.xml file. This folder can be located on a different Host than your CPE.

CSS Server Name: Enter the real CSS server name. Verify the server name, check the file css-servers.xml. This file can be located on a different Host than your CPE.

Save by clicking.

Repeat this setup for all of your object stores.

Once finished click on to proceed with the next subsystem.

Database Subsystem

The next subsystem is the Database Subsystem. You should setup one Database subsystem for each databases that runs in this CPE context (DB for Objectstore, GCD etc.).

Select the DB Type from the subsystem drop down. Database is a generic subsystem, there a preconfigured subsystems for Mssql, Db2, Oracle and PostgreSql.

×		
Subsystem	Mssql	•
Name	FNBASEDB	
Database Name	FNBASEDB	
Database Username	basedb	
Database Password	unchanged	
Database Schema	dbo	
Database Port	1433 🜩	
JDBC Connection Template	jdbc:sqlserver://\$DatabaseHost:\$DatabasePort;databaseName=\$DatabaseName	
	CPE55	
	SASEOS	
Referencing subsystems		

Name and Database Name: Usually I use the DB Name for both here.

Database Username: Specify a user name that has the required permissions for executing the data base operations. The permissions needed for probes can be found at the very end of the *Probes and Situation Guide*.

Database Password: Specify the password for the DB user here.

Database schema: Specify the schema that was used in the Database for this connection.

Database Port: Specify the port for the connection.

JDBC Connection Template: Each DB Type has its own connection template. The parameters like \$DatabaseHost, \$DatabasePort and \$DatabaseName are automatically replaced with the information given above or in the (later on created) RDBMS subsystem.

Note: Each Database usually only belongs to one other subsystem, so the reference should usually only reference one other subsystem. In this case the reference is done for the object store as the DB belongs to the object store and not the CPE. A database for GCD would be referenced with the CPE.

Save by clicking.

Repeat this setup for all of your object stores.

Once finished click on to proceed with the next subsystem.

RDBMS Subsystem

The next subsystem is the RDBMS Subsystem. You should use the corresponding RDBMS subsystem for the databases subsystems you have just created.

Select the RDBMS Type from the subsystem drop down. Rdbms is a generic subsystem, there are preconfigured subsystems for MssqlRdbms, Db2Rdbms, OracleRdbms and PostgreSqlRdbms.

×	×	
	Subsystem:	MssqlRdbms
	Name:	P8_RDBMS
3	Database Host:	smcw2k16p8-55
	JDBC Driver Class:	com.microsoft.sqlserver.jdbc.SQLServerDriver
		FNBASEDB
	Referencing subsystems:	

Name: Specify a name that is unique and that easily can be identified.

Database Host: Specify the hostname of the DB Server here.

JDBC Driver Class: Prefilled with default setup information for Mssql, Db2, Oracle and PostgreSql.

Reference all of your previously created DBs here and save by clicking.

Once finished click on \sum_{n} to proceed with the next subsystem.

Keystore Subsystem

The last subsystem in this process is the Keystore Subsystem. It is only needed if secure connections need to be established. Otherwise this subsystem can be skipped. The URL I have specified for the CPE Subsystem is a secure URL. Therefore I need this subsystem.

The Keystore Subsystem is a "smart" subsystem. You can either specify a keystore file (that contains the needed certificates) with keystore type and password or just specify a folder where you located the certificate files. The folder can be relative to the Agent installation directory.

× ✓	
Subsystem:	Keystore
Name:	GlobalKeystore
Filename:	
Туре:	jks 💌
Password:	unchanged
Input Directory:	keys/Certificates
-0	CPE55
	CPE55CPEJMX
	FNBASEDB
Referencing subsystems:	

Note: Probes that are using the CPE API need the certificates imported in the cacerts keystore of the agent JRE. This is currently the only possibility to get these working.

Once finished click on 🛐 to finish subsystem setup.

2. Setup of a monitoring situation / probe

Semi-automatic setup using a task

ESM offers the possibility to automatically setup monitoring probes. A so called MonitoringConfigTemplate Task is available that can be used to create a set of situations and probes. The evaluation of the probes follows our best practice implementations. Nevertheless the created situation setup often needs manual adjustments. E.g the CEHealthPage situation will have all possible parameters checked, but not all will be active on your system.

Check out the *Task Guide* for a detailed table for the probes and situations that will be created.



The task editor will open:

Specify a name and select the Agent in the Agent Name parameter that should be used to execute the probes. Furthermore specify the subsystem for which the templates should be created.

In the Agent and Schedule section keep the setup as it is:

\times \langle \rangle \checkmark \odot	
Configuration	
Select the type of the task and enter its configuration data.	
*Name CreateCPEProbes	
active	
Task: MonitoringConfigTemplate	-
Agent Name: Server_Agent	-
Subsystem: CPE55	~

🖁 Agent

Select the location where the Task should run.

[Run on Server]	•
	_

🛗 Schedule

If active when and how often should the Task be executed?

Interval O Cron		
Start:	~	-
End:	-	
Interval:	10 🚔 Minute(s)	-

Click on 📀 to execute the task ad-hoc and create the situation and probe setup. Important: Do not make it active! Active means the task continuously runs based on the schedule. You can save the task if you like.

Be careful, running the task twice with the same setup means the situations and probes are created two times on the system ...

Running the task completes with this result:

Cask Configuration	O Configuration Help		
* 🗟			
Create CDEDrahas	Task Details:		
Task	Label	Value	
Name: CreateCPEProbes	Active	true	
State: SUCCEEDED	Code		
Start Time: 31. März 2022 um 15:48:23 Mitteleuropäische	End Time	31. März 2022 um 15:48:23 Mitteleuropäische Sommerzeit	
	Error		
	Name	CreateCPEProbes	
	Result		
	Run ID	1ea04de7-17f8-495d-bc2c-3aa874809510	
	Start Time	31. März 2022 um 15:48:23 Mitteleuropäische Sommerzeit	
	State	SUCCEEDED	
	ID	3fdf2672-2595-4b4b-88ce-9d01464e1611	

You should now see a list of situations in the Configuration Dashboard when clicking on the Situation Groups Icon on the left side.

3fdf2672-2595-4b4b-88ce-9d01464e1611

ESM × +			v –	D X
← → C ▲ Nicht sicher https://localhost:	443/index.html#/configuration/situations		■ ピ ☆	* 🔺 E
🔛 Apps 📃 CENIT AG 🚺 10.10.0.1 💪 hotspot.un	onlido.c 🞽 2020 Heißer Verkau 📒 CPRE 🏾 🙀 FLUGHAFENTRANS	Nutzerkonto Bund		🔝 Leseliste
IBM ESM 5.5.7.0-000	Monitoring Configuration He) Ip	🔐 🗸 🦪 1/1 1x 1min ago	admin
Configuration , 😍 Situations , 🖿 All Situations				
≪ ⊞ C C @ û q v :			All Situations Situation Group	>>
All Situations			Tags	
🚠 😵 CeEngineStatus @ CPE55				
CeHealthPageStatus @ CPE55				
CeWebServicesStatus @ CPE55				
ContentSearchServicesIndexingEr				
ContentSearchServicesIndexReq				
🗐 😍 Cpu @ Server_Agent				
Diskspace @ Server_Agent				
Memory @ Server_Agent				
ObjectsNotStoredFinally @ BASE				
ObjectstoreNewObjects @ BASEOS				
ObjectstorePerformance @ BASE				
PePingPageStatus @ CPE55				
SubscriptionRetryError @ BASEOS				

Please check all of the created setups if they fit your needs!

Manual setup of situations and probes

Instead of using the templates and adjusting them manually you can also create a situation/probe setup completely manually.

Switch to the Configuration Dashboard and select the Situation Groups Icon on the left. Above the available list you have several action buttons. This one ⊕ is for creating a new situation setup and will open the situation editor.



The situation editor will also open if you double click on an already existing situation and it looks like this.

x < > ~	• • •
안 Probe Configuration	Configuration Help
Select the subsystem you want to monitor and the type of the probe that should be used.	CeAdvanced StorageDirectReplicasFailed
Subsystem: CPE55	Description
Probe: CeAdvancedStorageDirectReplicasFailed	This probe returns the number of failed direct replicas for the given Object Store based on the following Listener path:
Name: CeAdvancedStorageDirectReplicasFailed @ CPE55 active:	/USER/ <objectstore>/Advanced Storage/Connectivity Task/Replicas Failed Direct/Total Count</objectstore>
	Recommended Schedule
Agent Assignment Select the location where the Probe should run.	This probe does not need a schedule, since the probe will automatically receive new data as it becomes available. This is just a placeholder in this case.
Server_Agent	Parameters
🛗 Schedule	Object Store to be checked. Use as a wildcard:
This probe is connected permanently and listens for external events.	will check all Object Stores OS* will check all Object Stores whose names start with OS

It has a total of 3 configuration pages. The pages can be switched by clicking on < > or • o o

First Page:

From the subsystem drop down select the subsystem for which you want to setup a probe.

From the probe drop down select the probe that you want to setup.

The Name is usually given automatically based on the subsystem and probe you have specified. Of course it can be adjusted.

The active check needs to be checked if the probe should start with monitoring. Otherwise the probe is only configured, but does not do any monitoring (it is inactive).

Depending on the probe there can be 0 to n additional parameters that need to be filled in. All of them are described in the Configuration Help on the right side of this page.

Schedule: Some probes can be scheduled, others (so called callback probes) run permanently because they are listening on something, such as logfile or listener (PCH) probes.

Example first page of a CeHealthPageStatus Probe:

× < > v

안 Probe Configuration

Select the subsystem you want to monitor and the type of the probe that should be used.

		_
Subsystem:	CPE55	٣
Probe:	CeHealthPageStatus	•
Name:	CeHealthPageStatus @ CPE55	
active:	×	
Check Global Configuration Database:		
Check Directory Configurations:	✓	
Check Pe Connection Points:	✓	
Check Pe Isolated Regions:	×	
Check Fixed Content Devices:		
Check Object Stores:		
Check Storage Areas:		
Check Content Cache Areas:		
Check Sites:		
Custom CE URL:		

& Agent Assignment

Select the location where the Probe should run.

Server_Agent

🛗 Schedule

If active when and how often should the Probe be executed?

Interval
Cron
Start
End:
Interval:
2

Minute(s)

Second Page:

The second page offers you to set up the Evaluation based on the possible return values of the probe. The possible return values are usually also described in the configuration help on the first page.

The first entry from the evaluation that matches a sample information is the one that wins. In this example from the CeHealthPageStatus probe the first check is if there is something written in the error slot. If not, it will check if the value is 0 and then in a third check if the value is 1. The severity is set depending on the matching line.

If a probe returns an arbitrary value e.g. for a CPU Usage and you want to alert based on a certain threshold, make sure to have the correct order in the evaluation.

Situation						
situation evaluates a probe's samples and yield incider	ts. Assign tags here to organize those incidents	s on the dashboard.				
eHealthPageStatus @ CPE55						
Server_Agent Agent:Server_Agent Prob	e:CeHealthPageStatus @ CPE55 Subsy	ystem:CPE55 Add tag ●				
Evaluation						
Define the mapping of probe sample content to incider	t fields. Use conditional mappings to specify the	e interpretation of a sample's fields.				
Shared Evaluation:	× É Ď					
Base Fields: severity=WARNING, message=Samp	e.message, error=Sample.error, value=Sample	value, source=Sample.source, classificat	ion=Sample.classification			
 Mappings 						
Condition	Statements					
error matches .+	Set Severity - to Critica	41	• 6	6	÷	
value == 0	Set Severity v to Critica	al		6	ô,	
value == 1	Set Severity - to Harmi	ess	- 0	0	÷	
						_
Else:	Set severity to FATAL			-		_
Escalate and Filter Duplicates						
Define when duplicates of occurrences shall lead to	escalation of the situation and how duplicates c	an be trimmed to single incidents.				
			_			
Escalation:	and/on	Duplicate Filter				
Matching message characters:	15	Matching message characters	3.000 Second(s) +			
Matching error characters:		Matching error characters				
Escalate after x duplicates:	15 🌲	Pass every nth duplicate	15 🌲			
Mode: Once -						

Third Page:

The third page offers you the possibility to set up automation tasks. Clicking on the 1 adds a new line to the table. Specify for which condition the automation should be executed.

Mode "always" means every time the condition matches then the selected task will be executed. Mode "once" means that only when the matching condition changes then the task will be executed.

This mechanism can e.g. be used for sending an email or forwarding the information to third party products – depending on the task(s) that are executed.

$x < > \checkmark$		00	
C Automation			
Trigger tasks automatically by occurrence of certain incidents.			
ŧ			
Condition	Mode	Tasks	
All of: Severity > Critical Situation == CeHealthPageStatus @ CPE55	Always	× 🔽	© •
	v		

Once finished click on \mathbf{M} to finish the situation / probe setup.

Congratulations: The setup of your first probes is done and hopefully when you review them in the Monitoring console they look like this:

IBN 5.5.	ESN 7.0-000)																	,	Monitorin	ng	Config) uration	A	dmini	Stration	1	? Help	
📥 Mo	nitorin	g 🛛 📢	Situ	ations	•	All Situa	ations																						
«	t		-	0		Q v	T T	Mo	onitorin	g x																			
	~	CeE 2022	ngine -03-31	Status	@ C	PE55			All Si	tuatio	ons) t	= ¢	×	
	~	Cel- 2022	lealth	PageS 15:02:4	tatus 18 UTC	@ CPE			CeEngineStatus @ CPE55										Î										
-ro	~	CeWebServicesStatus @ CF 2022-03-31 15:02:36 UTC								CeF 2022 CeV	Healthrägestatus @ CPE55 2003 H 1622 AU UTC eWebServicesStatus @ CPE55									ł									
	~	Cpu 2022	@ S	erver_/ 15:01:3				•	2022 Cpu 2022	-03-31 @ S	1 15:02 Server_ 1 15:01	Agent															L		
	•	Disl 2022	(spac -03-31	e @ Se 15:02:3	erver_ 0 UTC	Agent			•	Disk 2022	(spac 2-03-31	ce @ S	Server_A	Agent													=	l	
	•	Mer 2022	nory (@ Serv 15:02:3	er_Ag	gent			~	Mer 2022	nory (@ Sei 1 15:02	rver_Ag	rent													=		
	•	Obj 2022	ectsN	otStore 15:02:3	dFina 6 UTC	ally @ E			~	Obje 2022	ectsN	1 15:02	redFina 2:38 UTC	IIy @ BAS	SEOS	8	N										=		
	~	PeF 2022	ogPingPi	ageStat 15:02:3	tus @	CPE5			~	PeP 2022	2-03-31	ageSt 1 15:02	atus @ CH	CPE55	FOS		63									r		•	
	•	Sub 2022	script	ionRet 15:02:3	ryErro	or @ BA			CeHe	althP	age	Statu	tatus @ CPE55											t) t	•	×		
	2	Con	tentS	earchS	ervice	esIndex			T 🖌	ime 9	• s ago	Situ CeH	Situation CeHealthPageS	ageStatus	s	Message ok ok Global Configuration			on Database ok Thi			feature has been confi			Value figured an	Value n	1	1,00	
	0	Cor	tentS	earchS	ervice	esIndex																							
	0	Obj	ectsto	reNew	Objec	ts @ B.																							
	2	Obj	ectsto	rePerfo	ormar	ice @ E																							

3. Recommended Probes for CPE

The following probes are recommended for a CPE system. Please refer to the online help if you need additional help in setting them up.

- ProcessCount
 - Availability of Websphere processes
- CPUUsage per process
 - CPU utilization of Websphere processes
- MemoryUsage per process
 - Memory utilization of Websphere processes
- CE HealthPage Status
 - Overall status of CPE (GCD, Object Stores, PE Connection Points ...)
- CE Webserver Status
 - Availability of the CPE Webservice
- CE Engine Status
 - Availablity of CE Engine Services
- LDAPConnection
 - Connectivity to LDAP system
- LDAP Performance
 - LDAP logon time in milliseconds
- ObjectStoreStorageAreaStatusSql
 - Availability of Storage Areas
- ObjectStoreStorageAreaInformationSql
 Count of chiests (by Storage Area)
- Count of objects (by Storage Area)
- ObjectStore Performance
 - Time to logon to an CE through WCM API and/or to search for documents in an object store
- ObjectStoreLoadDocumentPerformance
 - Time to load a specific document from an object store through WCM API.
- Log Files
 - p8srverror.log CPE related application log
 - SysErr.log Errors logged by Websphere

Please check out the Field Guide *Console Design Considerations* to see what different dashboard options are available to provide meaningful event information to different types of users, such as FileNet administrators or supervisors. You can find this and other field guides on the CENIT website: <u>https://www.cenit.com/en_EN/products-solutions/eim/processing-file-and-document-management/software/ibm-ecm-system-monitor/ibm-esm-field-guides.html</u>

Contact Information

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