Automated Maintenance

Lifecycle Management





Foglight Maintenance Challenges

Keeping Foglight infrastructure running at top performance can take time and attention. The process is normally manual, and there are several things to keep track of, including:

Making sure agents are always running and collecting data	Keeping Alarms in check	Ability to view Foglight Health and load - Especially across servers
Avoiding Topology Problems	Knowing what is using what	Managing Credentials



Solution Highlights

Centralized Monitoring of multiple Foglight Servers

Easy to deploy

Maintains

• Agents

• Alarms

• Topology

Many options

User friendly UI

Remote Administration of solution across servers



Agents

Automated Maintenance eliminates challenges by supporting all the below tasks but offers a plethora of options for full control. With an ability to display, alert and act on an agent's various conditions.

Inactive

• Try to activate, repeated failures will result in an alarm

Data Collection not started

collection, repeated

failures will result in an

• Try to start data

alarm

Obsolete Agents

 Attempt to delete, repeated failures will result in an alarm

Stale Agents

 Healthy Agents that where collecting data and suddenly stop will result in an alarm

Zombie Agents

 Healthy Agents that never collected will result in an alarm or can be automatically deleted

FGLAM Management

FGLAM HA Monitoring

- Display the make up of the various HA clusters
- Alert if a cluster is misconfigured
 - Multiple Primaries
 - No Primary
 - Invalid state

FGLAM Log Analysis

 Analyses logs for WARN, ERROR and FATAL messages to provide a count summary for each unique message for the last 24 hours, 2, 3, 5, 7, 14, 21 and 28 Days.

Alarm Management

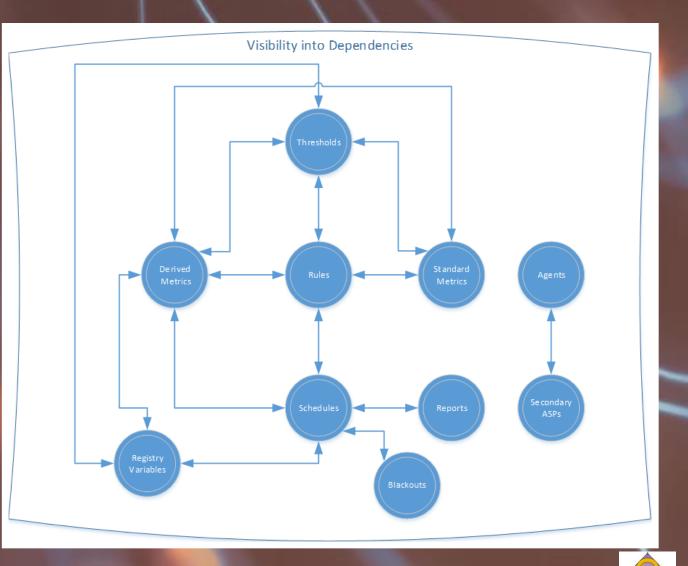
Ability to display, alert and act on alarms:

The engine allows you to clear/purge alarms using 2 methods:

- Clear Alarms to keep current alarms optimal and fully functional
- Purge Alarms to reduce number of Alarms in the database for better performance
- Sliding window
 - Processes older alarms and within the same date the lowest severities first
- Severity Order
 - Processes the alarms of a given severity first
 - Within the same severity the oldest to the newest. In the case that there is not enough to fix the issue the engine will use the next specified severity
- Failure to reduce the number of alarms will result in an alarm

Admin Information

- Ability to display what a given item is using and which items are using it
- Many cleanup functions for unused Secondary ASPs, Schedules, and more



Credentials Management

Display all available credentials Informs whether or not a record has a hit on the system Allows the deletion of records with no hits One button clean up of unused credentials

Foglight Self-Management

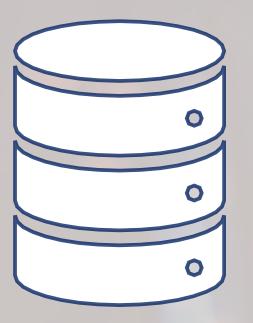
Foglight Internal Check

- Ability to report on the various internal information that Foglight provides to self monitor
- Catalyst Alarms
- Unit Count
- Load
- Connections and more

Foglight Log Analysis

 Analyses logs for WARN, ERROR and FATAL messages to provide a count summary for each unique message for the last 24 hours, 2, 3, 5, 7, 14, 21 and 28 Days

Storage Time Slices



- Display time slices that should be Obsolete
- Ability to automatically Obsolete any invalid time slice



Topology Display and alert on topology objects causing churn either by frequent updates or the creation of too many versions **Topology Churn** • Topology Churn is most often caused by either a misconfigured agent or multiple agents monitoring the same element Display, alert and automatically remove references to objects that are no Topology Dangling References longer in the system Display, manage and alert on topology limits Topology Limit • Topology limit is reached when the amount of objects stored is greater than 50,000 Display, manage, alert and automatically delete stale objects **Topology Stale Objects**

Changing Settings

▼ Bookmarks	Auto Maintenance Registry Settings - Local FMS			
There are no bookmarks	Save Undo 🖓 Fitler			
▶ Homes ▼			Casalina	
► Dashboards ▼	Name 📥	Value	Scoping	
▼ Foglight Servers	🖬 Agent			
Local FMS Search 🔎 🔫 🗮	Activate			
- Host Name	PSO.AutoMaintenance.Agent.AutoActivate	🖸 false	2 2 2	True to automatically attempt to activate non obsolete inactive agents, false otherwise.
🔶 fms2 🔺	PSO.AutoMaintenance.Agent.AutoActivate.ExcludeTypes	.NET Application,.NET IIS,WebLogic,We		Comma separated list of agent types whose lifecycle can not be managed by the Agent Manager.
븆 fms3	PSO.AutoMaintenance.Agent.AutoActivate.MaxRetries	⊡" 5		Maximum number of times to try activating an agent.
🐥 fms4	Data Collection			
븆 fms5	PSO.AutoMaintenance.Agent.AutoStartCollection	🖪 false	2 2 2	True to automatically attempt to start data collection for active agents, false otherwise.
🖶 fms6	PSO.AutoMaintenance.Agent.AutoStartCollection.MaxRetries	⊡" 5		Maximum number of times to try Starting data collection on an agent.
	Obsolete			
	PSO.AutoMaintenance.Agent.Obsolete.AutoDelete	🛃 false		True to automatically delete Obsolete agents, false otherwise. Obsolete agents are agents that have an Agent Topolo
	PSO.AutoMaintenance.Agent.Obsolete.AutoDelete.DuplicateRemoteClients	🛃 true		True to automatically delete duplicate Remote Clients, false otherwise. A remote client represents an agent manager
	PSO.AutoMaintenance.Agent.Obsolete.AutoDelete.MaxRetries	⊡" 5		Maximum number of times to try deleting an obsolete agent.
	Stale			
	PSO.AutoMaintenance.Agent.Stale.GracePeriod	⊡ 5		Time in minutes an active agent collecting data can go on without sending any data to FMS before it is marked as sta
	Zombie			
	PSO.AutoMaintenance.Agent.Zombie.AutoDelete	🛃 false		True to automatically delete Zombie agents, false otherwise. Zombie agents are agents that appear in the agent Stat
	PSO.AutoMaintenance.Agent.Zombie.AutoDelete.MaxRetries	⊡" 5		Maximum number of times to try deleting an zombie agent.
	PSO.AutoMaintenance.Agent.Zombie.AutoDelete.TimeToDelete	<u>r</u> [™] 120		Time in minutes that an agent can go on without having ever collected data before it is deleted.
	PSO.AutoMaintenance.Agent.Zombie.ExcludeTypes	JavaIntegrator, JMXDiscoveryAgent, DB		Comma separated list of agent types that never collect data making them prone to be considered Zombies.
	Agent Manager Log Analysis			
	PSO.AutoMaintenance.FGLAM.LogAnalysis.IgnoreAgentLogs	🛃 true		Should the analyzer ignore Agent Specific Log files and only analyze the Agent Manager's files.
	PSO.AutoMaintenance.FGLAM.LogAnalysis.Period	🗗 7		Period in days to analyze from the logs. Minimum is 7 days and maximum is 28 days.
	PSO.AutoMaintenance.FGLAM.LogAnalysis.ScanGZFiles	🗗 true		Should the analyzer scan compressed log files (.gz)
	PSO.AutoMaintenance.FGLAM.LogAnalysis.TypesToAnalyze	WARN, ERROR, FATAL		Which entries to analyze in the Log Files. Possible Combinations: WARN, ERROR, FATAL or ERROR, FATAL or FATAL



Rule Management

 Bookmarks 	Auto Maintenance Rule Management - http://fms2:8080				
There are no bookmarks	The of the contract of the con				
▶ Homes ▼					
▼ Dashboards	Category / Title 🔺		Enabled		Description
Administration	Alerting				
Alarms	Agent Agent				
Databases Development Tools	Activate Failure		ሀ 🗹	Generates alarms for agents whose activation failed after a specified number of times.	
Hosts	Delete Obsolete Failure	a	ሀ 🗹	Generates alarms for obsolete agents that failed to be deleted after a specified number of times.	
Infrastructure	Delete Zombie Failure	a	ሀ 🗹	Generates alarms for zombie agents that failed to be deleted after a specified number of times.	
 Management Server PSO Admin Pack 	Stale	a	ሀ 🗹	Generates alarms for agents that at one point where sending data to Foglight but are no longer doing so.	
PSO Fiserv	Start Data Collection Failure	.	ሀ 🗹	Generates alarms for agents that failed to start data collection after a specified number of times.	
Reports Services	Zombie	3	<u>U</u>	Generates alarms for agents that never sent data to Foglight.	
Synthetic Monitor for Internet	Alarms		Define Settings for	Rule "PSO - Auto Maintenance Clear Alarms Failure"	
Configuration	Clear Failure	4	Generates an ala	m if the auto clear engine fails to restore the active alarm count to the set Max Active Alarms within the set	ithin the set maximum retries.
▼ Foglight Servers	Purge Failure		maximum retries		t Max Alarms In DB within the set maximum retries.
Local FMS Search 🔎 🗸 🗮	FGLAM				
 Host Name 	HA Error			Check the box to enable alarm generation, uncheck to disable.	other than STANDBY
fms2	Topology		Generate Alarm:		
📕 fms3	Delete Stale Objects Failure			When an alarm is generated what severity should the alarm represent.	kimum retries.
📕 fms4	Limit Reached		Alarm Severity:	🗹 Warning 🗠	
📕 fms5	Recent Changes Churn Detected	4		Number of consecutive times Auto Clearing alarms can fail at reaching the defined Max Active Alarms. Should be <= PSO.AutoMaintenar Retries.	ne la
📕 fms6	Remove Dangling References Failure	4	Threshold:	Refres. ☑ 3.0	within the set maximum retries.
•	Versions Churn Detected	3	micshold.		1.
	Automation			Check the box to enable email generation, uncheck to disable. Please note that an email is not generated if "Generate Alarm" is disabled.	
	Agent Tasks	3	Generate Email:		
	Alarms			Comma separated list of email addresses.	
	Clear	3	Email Recipient:	☑ alainas@fms.com	
	Purge	.			
	Remove Time Slices	3			
	Topology				
	Delete Stale Objects	3			
	Limit	3		Apply Cancel	
		-			

Remote Administration of the solution across servers



Health Center

Remote Monitoring of Foglight servers

Navigation <	Foglight Health Center - http://fms-593:8080	Reports
⊞ Expert View -	Foglight Database	
	Pool Utilization 0 %	
Bookmarks	Pool Utilization (Max 1 Hour) 3 %	
▶ Homes ▼	Database Latency 1 %	
▶ Dashboards	Database Latency (Max 1 Hour) 2 %	
▼ Foglight Servers	Dropped Batches 0	
→ Local FMS Search 🔎 🗸 🗮	Dropped Batches (Total 1 hour) 0	
	Time Slice Count 260	
	Foglight Performance Agents Agents	
• fms-593 8080	Memory Utilization 76 % Inactive 0	
	Memory Utilization (Max 1 hour) 90 % Stopped 0	
	Server Load 55 % Stale 1	
	Server Load (Max 1 hour) 83 % Zombie 0	
	Units 0 % With Issues 1 Derivation Rulette 0 %	
	Alarms	
	Agent Managers Warning Count	7
	With HA Issues 0 Critical Count	9
	With Issues 0 Fatal Count	3
	Active Count	19
	In Database	131
	Topology Churn Stale Objects Stale Objects	
	Objects Count 0 Topology Type Count 91	
	Global Churn Changes 2,500 Objects Count 5,263	
	Global Churn Versions 500 Global Stale Age 30	
	Topology LimitImage: Comparison of Comparison o	

Remote Monitoring of Agents.

Agent Information

						100		1000	Statement of the local division of the local						
Navigation	Auto Maintenance Agent Informa	tion - http://	fms-593:8080	D										Reports	, -
	🕕 🔌 Edit Registry 🔔 Ed	t Rules									9	Search		<i>p</i> -	:
💷 Expert View 👻			FM	IS Agent Sta	ites	Au	tomation Agent s	State	Automation	n Engine S	Status	Statis	stics (Total Tir	nes)	
Bookmarks There are no bookmarks Homes		Agent Manager	Blacked Out	Active	Collecting Data	Problem State	Problem Period (dd::hh:mm:ss	Attempts (To Remedy Problem)	Auto Activate	ļ	Auto Start	Became Inactive	Stopped Data Collection	Flagged as stale	
 Homes Dashboards 	📀 DBSS-Installer-fglams-ha-1	fglams-ha-1	0	0	0	Obsolete	,	Deletion: 0	0		0	0	0	0	-
▼ Foglight Servers	Windows@db-mssql	fglams-ha-1	0	0	0	Obsolete		Deletion: 0	0		0	0	0	0	î.
🕒 Local FMS Search 🔎 🗸 🗮	Windows@WIN2012SQL1	fglams-ha-1	0	<u>ل</u>	U				0		0	1	0	1	
✓ Host Name	SQL2012@WIN2012SQL1	fglams-ha-1	0	Ū.	U U				0		0	1	0	1	
fms-593 8080	WebMonitor@fglams-ha-1	fglams-ha-1	0	ڻ ل	U				0		0	1	0	1	
	Windows@db-oracle	fglams-ha-1	0	0	0	Obsolete		Deletion: 0	0		0	0	0	0	í.
	-		() 0 () 14	() 6 () 8	6 🕕 8	0851Z0					-				
	Agent Inventory (Non Obsolete)														*
	, (Se	earch		<i>p</i> -	÷
			Ag	jent Type 🔺					Count			Versi	ons		
	DB_Onacle_Installer										1 5.9.3.20				*
	DB_SQL_Server										1 5.9.3.20				
	DB_SQL_Server_Installer										1 5.9.3.20				
	NetMonitorAgent										1 5.9.4				
	WebMonitorAgent										1 5.9.3				
	WindowsAgent										1 5.9.4				
											6				
															Ŧ
	Automation Engine Information														-
	-														-
	Auto Activate 🌌			Start Data Co	ollection			ete Obsolete 📝			Auto Delete Z				
	Enabled:		-	nabled:			-	bled:		0	Enabled:			0	
	Maximum Attempts:		5 M	1aximum Att	empts:	5	Max	imum Attempts:		5		Deletion (mir	n.):	120	
											Maximun	n Attempts:		5	
	Start Time:			tart Time:				t Time:		n/a					
	Last Completed Run:		n/a L	ast Complet	ed Run:	n	I/a Las	t Completed Run:		n/a	Start Tim	ie:		n/a	
	Total Runs:		0 T	otal Runs:		0) Tota	al Runs:		0	Last Com	pleted Run:		n/a	
	Is Task Processing:		① Is	s Task Proce	essing:	(1 Is T	ask Processing:		0	Total Ru	ns:		0	
											Is Task F	Processing:		0	
	Total Activate Calls:		0 Т	otal Start Da	ata Calls:	C	Tota	al Deleted Objects	5:	0					
											Total De	leted Agents:		0	

Agent Managers HA Information

Remote Monitoring of Agent Managers.

Navigation <	Auto Maintenance Agent Managers HA Information - http://fms-593:8080	
💷 Expert View 👻	Name (Partition/FGLAM)	•
▼ Bookmarks	No Partition	S
There are no bookmarks	fglams-ha-1	STANDALONE
▶ Homes T		
▶ Dashboards		
 Foglight Servers 		
→ Local FMS Search 🔎 🗸 🗮		
 Host Name 		
Image: The second se		



Agent Managers Log Analysis

Remote Log Analysis of Agent Managers.

Navigation <	Auto Mainte	enance Agent Managers	.og Analysis - http://fms-593:8080							🚺 Reports
🎟 Expert View 🗸	(i) 1	Edit Registry				Search	1			<i>»</i> -
			Name 🔺							
 Bookmarks There are no bookmarks 	fglams-ha	-1								
▶ Homes ▼										
▶ Dashboards 🔹										
▼ Foglight Servers										
Search 🔎 🗸 🗮										
 Host Name 										
fms-593 8080										
	Log Analy	sis for FGLAM fglams	-ha-1#a4f97a22-e976-4e28-9c8a-5510137a5d7c							
		5			E	<u> </u>				0
					_	Search	1			<i>,</i> ⊂ -
	Туре	First Encountered Entry	Message	Last 24 Hours	X H A 24 to 48	ours go 48 to 72	3 to 5	X Da 5 7 to to 7 14	ys Ago 14 to 4 21	21 to 28
	WARN	22/07/19 7:35 AM	Authentication failed: unable to log in to http://win2012sql1:5985 (ICMP Port Unreachable)	3						
	WARN	22/07/19 7:35 AM	Authentication failed: unable to log in to http://WIN2012SQL1:5985 (ICMP Port Unreachable)	3						
	WARN	22/07/19 7:31 AM	Authentication failed: unable to log in to http://db-mssql:5985 (KrbException: Cannot locate default realm)	2	2.					
	WARN	22/07/19 7:30 AM	Authentication failed: unable to log in to http://db-oracle:5985 (KrbException: Cannot locate default realm)	2						
	WARN	22/07/19 7:32 AM	No secure launcher was configured so the native ICMP helper application will run without elevated privileges.	2	2					
	WARN	22/07/19 7:32 AM	Thread group ICMP-Process could not be destroyed as there are approximately 1 threads still active in it.	1						
	WARN	22/07/19 1:47 PM	Could not queue/transmit orderly shutdown notification to the upstream server.	1						
	ERROR	22/07/19 1:47 PM	Could not send upstream request to http://fms-593:8080/catalyst-glue-service/message/secure. Received response code 403	1						
	WARN	22/07/19 1:47 PM	Could not close data stream java.net.SocketException: Software caused connection abort: socket write error at java.net.Sock	1						

Alarms Information

Alarm Count Information			
Warning Count:	395		
Critical Count:	2		
Fatal Count:	0		
Total:	397		
Total Persisted:	822		
Auto Clear Engine 🛕		Auto Purge Engine 🛕	
Enabled:	С	Enabled:	(J
Maximum Active Alarms Allowed:	10,000	Maximum Persisted Alarms Allowed:	100,000
Maximum Retries:	5	Maximum Retries:	5
Start Time:	n/a	Start Time:	n/a
Last Completed Run:	n/a	Last Completed Run:	n/a
Total Runs:	0	Total Runs:	0
Is Task Processing:	0	Is Task Processing:	0
Warning Processed:	0	Warning Processed:	0
Critical Processed:	0	Critical Processed:	0
Fatal Processed:	0	Fatal Processed:	0
Other Processed:	0	Other Processed:	0
Total:	0	Total:	0
Total Attempts:	0	Total Attempts:	0

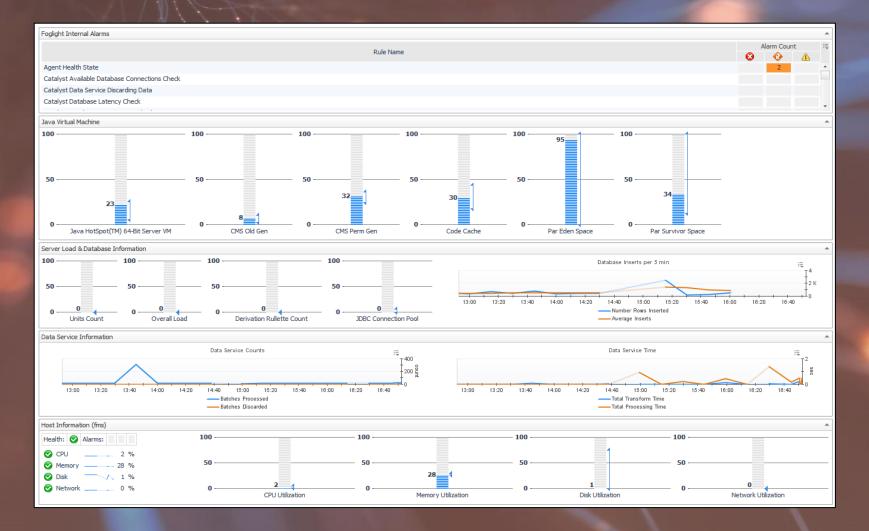
Admin Information

Items Using Items Used By										
Items to explore	e: Rules Derived Metrics R	egistry Variables Thresh	olds Blacko	uts Reports Ag	ents					
Remove All Whose Cartridge Is Not E	nabled 🦋 Remove All With 🛙	Invalid Scope						Search	P	• :
	Name						Scope			
			D 14			Topology Type		Valid 🗸	Has Objects	
Additional Process Pool Utilization				MAdditionalProcP	100			() ()	0	
Agent Health State			Agent					U th	С С	
Agent Manager Error Message Alarm			-	ientInstance				() ()	U U	
Available Paging Space			Host	T (ل ل	<u>ل</u>	_
BindUpTimeToHostBootTime			ScSyste					U di	0	
Catalyst Agent Type License Checker	51 1			/peLicense				U th	0	_
Catalyst Available Database Connections (heck			JBossManagedCo	nnectionPool			ڻ د	ڻ د	
Catalyst Credential Check			Catalyst					ڻ ٺ	() ()	_
Catalyst Database Latency Check				DatabaseStatus				() U	<u>ل</u>	
Catalyst Database Maintenance Check				DatabaseMainten				U	(U	_
Catalyst Database Query Execution Time	Check				ryExecutionTimeMon	litor		Ű	<u>ل</u>	
Catalyst Database Space Checking				Database				U U	ڻ ٺ	
Catalyst Data Service Discarding Data				DataService				U U	<u>ل</u>	
Catalyst Free Database Space Checking			Catalyst	Tablespace				ወ	ወ	*
Rule Using:										
Metrics Registry Variables Thresho	lds Schedules									
								Search	P) -
						Used By				
Name	Valid 👻	Fire		Conditions, A	larms & Actions		0	Global Variables		
utilization	ወ			ወ	ወ					

Credential Information

≪Remove All With No Hits 2Reload	Search	, P +	:
Name (Lockbox/Credential/Type/Condition)	Record Has Hit 🔺		
DB-Agent Lockbox			*
DBAccount			
XML 🕣	0	9	
URL equals 'jmxhost.com'			
	0	0	
Target Host Name is domain name 'mydbhost.com'			
System			
E 👰 Demo			
□ 🕞 WindowsOS	0	0	
Target Host Name is domain name 'demo.com' or 'production.ca'			

Internal Information



Foglight Log Analysis

Remote Log Analysis of Foglight Servers

Navigation	<	Auto Ma	Auto Maintenance Foglight Log Analysis - Local FMS								
🎟 Expert View 👻	٦	(i)	neload 🔌 Edit	Registry							
 Bookmarks There are no bookmarks Homes 	Ŧ	Туре	First Encountered Entry	Message							
 Dashboards Foglight Servers 	Ŧ	WARN	22/07/19 3:59 PM	Found 0 parameter placeholders but supplied with 4 parameters							
	ių. W	WARN 22/07/19 3:59 PM		Found 0 parameter placeholders but supplied with 3 parameters							
Host Name		WARN	22/07/19 4:03 PM	gAllAgentMap is Blank. gAllAgentMap:[:].							
← fms-593 8080		ERROR	22/07/19 5:08 PM	Exception occur when get registry value 'server.saml.enabled'. com.quest.nitro.service.scripting.errors.WrappedRuntimeException:							

Named Scripts

Auto Maintenance Foglight Named Scripts 🚺 Reports 💌 Arguments for alarmCount Search 🔎 👻 🚎 Search Script name 🔺 Cartridge Name adjustFileLogMonilmFileGroupRegExMatchPattern Infrastructure Potentially modifi Order Argument Type Description adjustHostName topology object Potentially modifi 1 adjustICAgentName Infrastructure Potentially modifi the requested severity 2 alarmCount Get the number c applicationRootAnnotationTypeCacheRegistrationHelper Application-Root-Base Application Root Implementation c avg changeBooleanValue Returns a boolear changeCount Get the number of Returns the list o changeSummary Ŧ checkCredentialExpire Check whether cr // If an alarm severity is specified, only count alarms with that severity checkObservationAlarms Script that detern checkUserPermission Returns a flag inc if (args.size() > 2) { int severity = args[2]; clearOldAlarms Clear integration Integration // TODO: get number of alarms commitChanges Core-Administration Commit changes return server.get("AlarmService").getAlarmCount(args[1].getUniqueId(), severity); convertObservation } else { Implementation c count // Return the total number of alarms on the object countInTimeRange WebMonitor-UI Count the Metric return server.get("AlarmService").getAlarmCount(args[1].getUniqueId(), 2) + server.get("AlarmService").getAlarmCount(args[1].getUniqueId(), 3) + createCarExporter Cart-Builder-Export Creates a Cartride server.get("AlarmService").getAlarmCount(args[1].getUniqueId(), 4); createFileItem Cart-Builder-Export Creates a FileIten createNewEditableObject Core-Administration Create a new Adr Script that create createObservationAlarms createServicePerspective Core-ServiceModel-Extensions Creates a new ins atoSupportBundl

Time Slices

Auto Maintenance Time Slices Information	Reports 🔻
Info	•
Time Slice Count Information	
String Storage Count:	70
Binary Storage Count:	70
Metric Storage Count:	140
Total:	280
Auto Remove Engine 🌌	
Enabled:	0
String Storage Retention Days:	62
Binary Storage Retention Days:	62
Metric Storage Retention Days:	62
Start Time:	n/a
Last Completed Run:	n/a
Total Runs:	0
Is Task Processing:	0
String Storage Processed:	0
Binary Storage Processed:	0
Metric Storage Processed:	0
Total:	0

Topology Churn

		Sea	rch	₽-=
•	Name	Recent Changes	Versions	
auto-deploy-1	(Host)	1	01	668
	Details for churn on Object: auto-deploy-1 (Host)			
	Most volatile object: auto-deploy-1 (Host) Object uniqueId: bd5c34ff-0172-4efd-9292-dd727ee50cf Current version: 692 Number of object updates in period: 669 Number of versions in period: 668 Number of recent changes: 101 Num changes by property: name: 101 Details of recent changes: +	ew Value ms auto-deploy-1 uto-deploy-2 fms ns auto-deploy-2 to-deploy-1 fms ns auto-deploy-2 uto-deploy-2 fms uto-deploy-2 fms uto-deploy-2 fms uto-deploy-2 fms ns auto-deploy-1 uto-deploy-2 fms ns auto-deploy-2 uto-deploy-2 fms ns auto-deploy-2 uto-deploy-2 fms ns auto-deploy-2 uto-deploy-1 fms ns auto-deploy-2 uto-deploy-2 fms uto-deploy-2 fms uto-deploy-2 fms		
	2016-05-11 05:22:34.268 name Value Change fn 2016-05-11 05:22:22.006 name Value Change au			
	2016-05-11 05:22:21.943 name Value Change fn	ns auto-deploy-2	~	

Dangling References

				Search 🔎) -
+	Name	Property Name	Total Invalid References	Automation Retries	
0	Demo Application	definition	1		1 *
0	Demo Application	serviceLevelPolicies	1		1
					*
Auto Re	move Engine Information				^
Start	Time:	5/25/16 4:31 PM			
Last C	ompleted Run:	5/25/16 4:31 PM			
Total	Runs:	1			
Is Tas	k Processing:	0			
Total	Impacted Objects:	1			
Total	Removed References:	2			

Topology Limit

_						Searc	:h	- 🔍	÷	
	Topology Type		Total Instances 🗸	Current Limit		Automation Settings				
		Jg) 1)pc			Enabled	Max Allowed	Increment %	Trigger %		
0	CatalystTable		472		СU U	1	10		*	
0	CatalystScript		184	50,000	СU U	1	10	0		
	CanonicalDataTransform		110		ڻ ا	1	10	0		
0	FglamMessageType		93	50,000	(U	1	10	0		
	FSMObjectSubGroup		63	50,000	СU U	1	10	0		
0	FSMDynamicManagedComponen	it	48	50,000	ψ.	1	10	0		
0	HostProcess		27	50,000	ڻ ٺ	1	10	0		
0	FSMSystemService		22	50,000	ڻ ٺ	1	10	0		
0	Sybase_MDA_DatabaseSegment	tSpace	16	50,000	<u>ل</u>	1	10	0	+	
	Manage Engine Information			50.000			10	^		
Auto	Manage Englite Information									
Ena	bled:									
% 0	f Limit:	0								
Incr	ement %:	10								
Max	imum Allowed:	1								
Star	t Time:	n/a								
Last	Completed Run:	n/a								
Tot	al Runs:	0								
Is T	ask Processing:	0								
Tot	al Changes:	0								

Stale Objects

					_	Searc	h	+ 🔍	
	Topolo	оду Туре	Total Stale Objects	Automation Attempts			itomation Setting	ļS	
		.97 · 190				Enabled 💌	Age (Days)	% of Limit	
	HostProcess		27		0	СU U	0	0 90	*
0	HostNetwork		1		0	ڻ ٺ	0	0 90	
2	Sybase_MDA_ParallelQuery		1		0	СU С	0	0 90	
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	Sybase_MDA_DatabaseTransLog		8		0	ڻ د	0	0 90	
0	Sybase_MDA_ProcessWaitEvent	S	1		0	С С	0	0 90	
	Sybase_MDA_Locks		1		0	<u>ل</u>	0	0 90	-
Auto	Delete Engine Information								
Ena	bled:	ወ							
Mini	mum Age (Days):	0							
% 0	f Limit:	Not Enabled							
Max	imum Attempts:	5							
Star	t Time:	n/a							
Last	Completed Run:	n/a							
Tot	al Runs:	0							
Is T	ask Processing:	0							
Tot	al Deleted Objects:	0							

Auto Maintenance

System Requirements



Minimum required FMS version

5.9.3

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Supported	MS SQL	2008 v 10.0.1600 or later
Database	Oracle	9i R2
Minimum	MySQL	5.1.45
Version	PostgreSQL	9.4.0



Performance Monitoring customized to your unique environment

Ten plus years of providing Professional Services to Quest customers revealed these enhancements to be most requested modifications.

Let us take Foglight's out of the box capabilities and enhance for your unique environment.

Contact: Sales@LightSpeedPM.com