

Advanced Administration



Custom
Integrations

Advanced Administration - Solution

Advanced Administration is “agentless”, requires minimal setup, and can be broken down into these 5 primary feature sets

Advanced features
for Foglight
Administrators
(Administrator Mode)

Template Based
Management

Advanced Alarm
Analysis

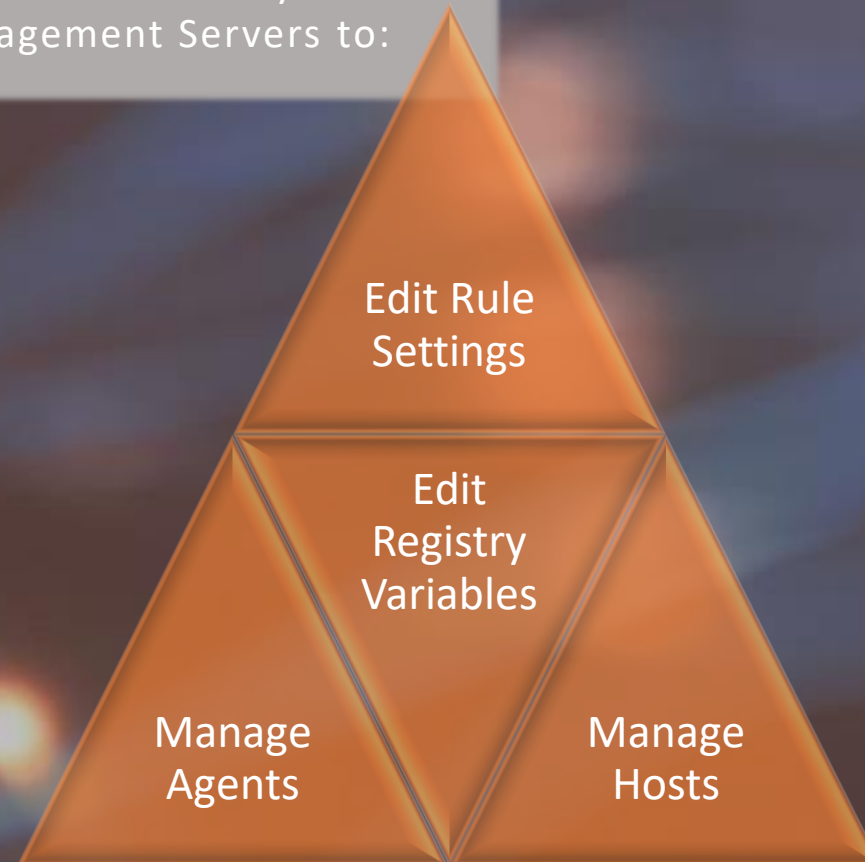
Application
Management,
Creation and
Monitoring

Application
Operations Console

Administrator Mode

Advanced features
for Foglight
Administrators
(Administrator Mode)

The Advanced Administration Administrator Mode features an enhanced User Interface and allows the ability to manage your remote Foglight Management Servers to:



Administrator Mode - Rules

Advanced features
for Foglight
Administrators
(Administrator Mode)

The screenshot displays the 'Advanced Rules Management' window for 'Local FMS'. The interface includes a left sidebar with 'Bookmarks', 'Homes', 'Dashboards', and 'Foglight Servers'. The main area shows a table of rules with columns for 'Cartridge / Rule', 'Enabled', 'Registry Variables', 'Conditions', 'Has Blackout Schedules', 'Triggering Type', 'Behavior', and 'Scoping Query'. Two dialog boxes are open: 'Time Driven Inputs - Agent Health State (Core-MonitoringPolicy)' and 'Behavior Inputs - Agent Health State (Core-MonitoringPolicy)'. Red arrows point from the 'Time Driven' column in the table to the 'Time Driven' dialog and from the 'Behavior' column to the 'Behavior' dialog.

Advanced Rules Management - Non Template - Local FMS

Filter | Select All | Select None | Enable | Disable | Conditions | Blackouts | Data Driven | Time Driven | Schedule Driven | Search

Cartridge / Rule	Enabled	Registry Variables	Conditions	Has Blackout Schedules	Triggering Type	Behavior	Scoping Query
BSM-Integration							
<input type="checkbox"/> BSM All Events							
Core-MonitoringPolicy							
<input type="checkbox"/> Agent Health State							Agent : agentID != "0"
<input type="checkbox"/> Catalyst Agent Type License Checker							AgentTypeLicense
<input type="checkbox"/> Catalyst Available Database Connections Check							CatalystJDBCMonitoredConnectionPool
<input type="checkbox"/> Catalyst Credential Check							CatalystServer
<input type="checkbox"/> Catalyst Database Latency Check							CatalystDatabaseStatus
<input type="checkbox"/> Catalyst Database Maintenance Check							CatalystDatabaseMaintenanceController
<input type="checkbox"/> Catalyst Database Query Execution Time Check							CatalystSampleBatchQueryExecutionTimeMo
<input type="checkbox"/> Catalyst Database Space Checking							CatalystDatabase
<input type="checkbox"/> Catalyst Data Service Discarding Data							CatalystDataService
							CatalystTablespace
							(CatalystServer).jvm.garbageCollectors
							CatalystServer
							CatalystServer.jvm
							CatalystAlarmService
							CatalystTopologyRollupService
<input type="checkbox"/> Catalyst Number of Topology History Versions Check							
<input type="checkbox"/> Clear Old LogFilter Alarms							

Time Driven Inputs - Agent Health State (Core-MonitoringPolicy)

Hours Minutes Seconds

☒ Trigger Without Data

Apply Cancel

Behavior Inputs - Agent Health State (Core-MonitoringPolicy)

☒ Fire action if consecutive evaluations are true

☐ Fire action if out of evaluations are true

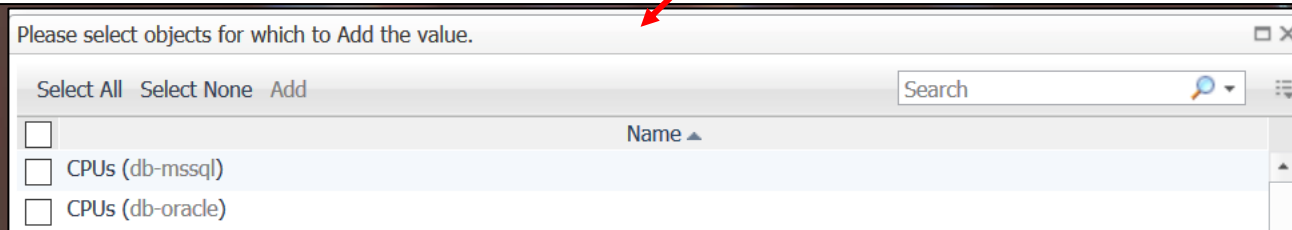
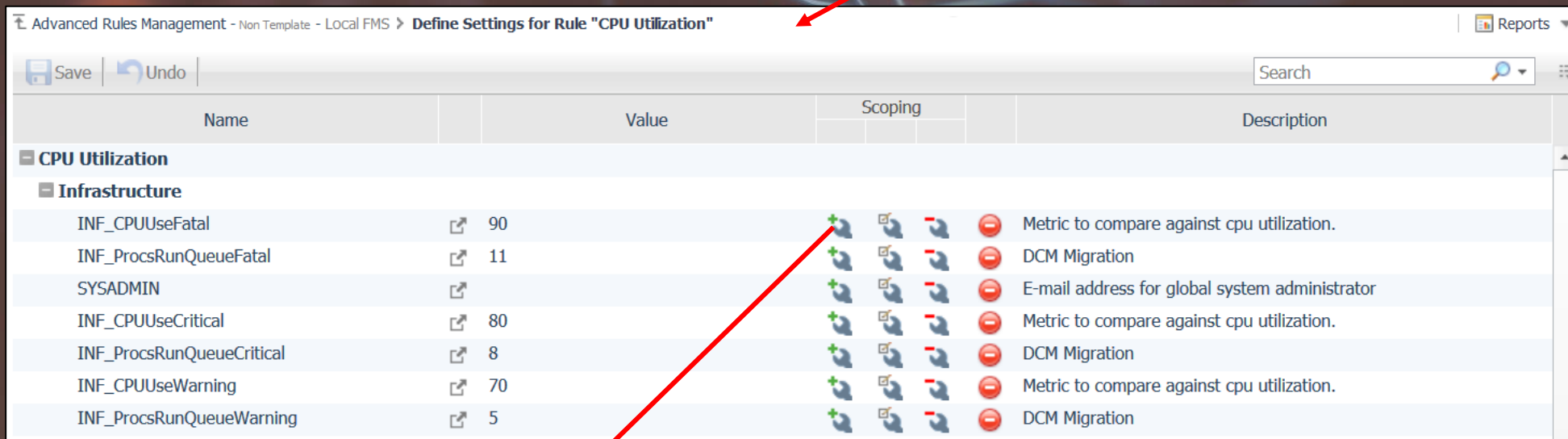
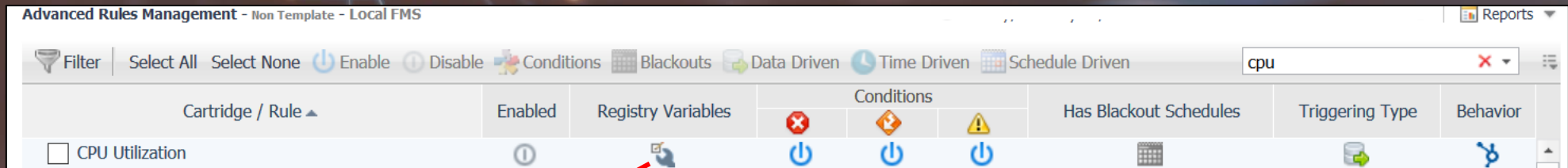
☐ Wait at least Hours Minutes Seconds

Apply Cancel



Administrator Mode – Rule Registry

Advanced features
for Foglight
Administrators
(Administrator Mode)



Administrator Mode - Registry

Advanced features
for Foglight
Administrators
(Administrator Mode)

▼ Bookmarks

There are no bookmarks

► Homes

► Dashboards

▼ Foglight Servers

Local FMS

Host Name

● fms-5756 8080

Non Template Registry Settings - <http://fms-5756:8080>

Save | Undo | Filter

Search

Name	Value	Scoping	Description
DB_SQL_Server_UI			
DBSS-ReplicationAgentsCriticalFaild	Failed		
DBSS_AllMetrics_Collection 2	WaitEventCategory,WaitLog;WaitEventC...		
DBSS_AllMetrics_Collection 1	WaitEventCategory,ActiveTime;WaitEve...		
DBSS-ErrorLogErrorCount_Medium	1.0		Description Goes Here
DBSS-C_Agents_Snapshot	replication@stringObs%status_severity;...		
DBSS-ReportingServices-ReportsfailedSummary_severityLevel	4		
DBSS-DatabasesFixedLogFileUsed_Low	75.0		
DBSS-ReplicationPublicationsErrors_Normal	0.0		
Dbwc_Common_SQL_Server_P_Baseline_DEVIATION_LOW_en	slightly		
DBSS_Wait_Memory_Low	5.0		
DBSS-CompilesPercentageRecompilations_Low	70.0		Description Goes Here
DBSS-EmailNotification_Group_Agent_Availability	DBSS - Collection Status		
DBSS-LocksBlockedProcesses_Medium	5.0		
DBSS-RuleException_FileGroupUtilization			
DBSS-ErrorLogErrorCount_Low_ForRule	-1.0		
Dbwc_Common_SQL_Server_Topology_Instances_Per_Agent	500		
DBSS_wait_memory_Baseline	wait_memory;Memory Wait;sum		
DBSS_deadlock_cnt_Baseline	deadlock_cnt;Deadlocks;sum		

Topology Type

Topology Object



Administrator Mode - Agents

Advanced features
for Foglight
Administrators
(Administrator Mode)

Advanced Agents Management - <http://fms-5756:8080>

Select All Select None ☒ Activate ☒ Deactivate ☒ Start Data Collection ☒ Stop Data Collection Blackouts Search

Agent				Agent Manager		Templates	Active	Collecting Data	Has Blackout Schedules	Auto Undeploy
Name ▲	ID	Target Host	Current State	Name	Connected					
<input type="checkbox"/> Default@db-mssql	6	db-mssql	OK	db-mssql		Non Target Template	<input checked="" type="checkbox"/>			
<input type="checkbox"/> NetMonitor@fglams-ha-1	3		OK	fglams-ha-1		Non Target Template	<input checked="" type="checkbox"/>			
<input type="checkbox"/> WebMonitor@fglams-ha-1	5		OK	fglams-ha-1		Non Target Template	<input checked="" type="checkbox"/>			
<input type="checkbox"/> Windows@db-mssql	7	db-mssql	OK	fglams-ha-1		Non Target Template	<input checked="" type="checkbox"/>			
<input type="checkbox"/> Windows@db-oracle	8	db-oracle	OK	fglams-ha-1		Non Target Template	<input checked="" type="checkbox"/>			
<input type="checkbox"/> XE@db-oracle	2	db-oracle	OK	db-oracle		Non Target Template	<input checked="" type="checkbox"/>			

Auto Undeploy - NetMonitorAgent

⚠ Are you sure you wish to undeploy agent type NetMonitorAgent?
Operation can not be Undone.

☒ Delete Data

☐ Remove Credential Mapping

Target Host: Click to select a target host.

Undeploy

Host Selector

Search

Hostname ▲

- db-mssql
- db-oracle
- fglams-ha-1
- fms-5756

Administrator Mode - Hosts

Advanced features
for Foglight
Administrators
(Administrator Mode)

▼ Bookmarks

There are no bookmarks

► Homes

► Dashboards

▼ Foglight Servers

Local FMS

Host Name

fms-5756 8080

Advanced Hosts Management - <http://fms-5756:8080>

Name ▲	On Current FMS	Templates	Auto Undeploy	Auto Deploy
db-mssql	⏻	Non Target Template	⏻	⏻
db-oracle	⏻	Non Target Template	⏻	⏻
fglams-ha-1	⏻	Non Target Template	⏻	⏻
fms-5756	⏻	Non Target Template	⏻	⏻

Deploy Agent Type WindowsAgent

Target Cluster: fms-dev

Target Hostname: db-mssql

IP Address: Enter an IP Address (or Alternate name) only if the hostname can not be resolved using it's DNS name.

Is Virtual: ☐ Use only if the host is a Virtual Machine and is being monitored by the Foglight Virtualization Agents.

Processes: Entries with no process name are ignored. Expected counts < 1 are reset to 1.

Process Name	Command Line	Expected Count
! Name (Collected services by display name)		

Services: The names must match what the agent is setup to collect services as: Collected services by display name

Lockbox: Credential:

Deploy Cancel

Host Agents

AIX	UnixAgent
Linux	UnixAgentPlus
Solaris	UnixAgentPlus
windows	WindowsAgent

Infrastructure Utilities

Windows Events	WindowsEventLogMonitorAgent
File Log	FileLogMonitorAgent
Ping	NetMonitorAgent
URL	WebMonitorAgent

Databases

DB2	DB_DB2
SQL Server	DB_SQL_Server
Oracle	DB_Oracle
Oracle RAC Instance	DB_Oracle_RAC_Instance

Databases (Open Source)

Cassandra	CassandraAgent
Mongo DB	MongoDBAgent
MySQL	MySQLAgent
Postgre SQL	PostgreSQLAgent



Template Based
Management

Groups and
User
Permissions

Access
Control

Add/Remove
Start/Stop/Blackout
Activate/Deactivate

Host Objects in the
Rules template are
automatically
selected when
applied

Assign
Rules to
Manage

Remote
Administration

Assign
Agents

Cross Server
Propagation

Define templates
once on one server

Template Based Management

Access Control

Template Based
Management

Assigned Agent Permissions	<ul style="list-style-type: none">• Activate• Deactivate
Assigned Agent Permissions	<ul style="list-style-type: none">• Blackout• Start/Stop Data Collection
Assigned Agent Permissions	<ul style="list-style-type: none">• Allow to Add Agents*• Allow to Remove Agents*
Assigned Agent Permissions	<ul style="list-style-type: none">• Edit Simple Properties• Edit List Properties• Clone Lists

Specify Groups or Users
that are allowed to
manage the items defined
in the Template



Access Control (continued)

Template Based
Management

Available Rule Related Permissions

Enable & Disable Rule	Enable & Disable Conditions	Manage Registry	Configure Email Notifications	Configure Escalation (Email)	Manage Blackouts	Manage Behavior	Manage Triggers	Rule Creation
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Templates UI – Access Control

Template Based
Management

Template Definitions

Buttons: Add, Save, Undo, Rebuild All Templates, Select All, Select None, Delete

Search

Name	Access Control			Selected	Queries	Selected	Types	Managed	Rules
	Groups	Users	Permissions						
<input type="checkbox"/> Demo 1	All Groups	All Users	All Permissions	All Hosts	No Queries Defined	All Agents On Hosts	No Agent Types Selected	No Rules Selected	No Topology Types Selected

Groups Selector - Demo 1

Buttons: Default to All Groups, No Groups, Add Groups, Add Remote Groups, Submit, Search

Exists On Current FMS	Group Name
<input type="checkbox"/>	Cartridge Developers
<input type="checkbox"/>	Foglight Administrators
<input type="checkbox"/>	Foglight Operators
<input type="checkbox"/>	Foglight Security Administrators

Users Selector - Demo 1

Buttons: Default to All Users, No Users, Add Users, Add Remote Users, Submit, Search

Exists On Current FMS	User Name
<input type="checkbox"/>	foglight

Permissions Selector - Demo 1

Buttons: Default to All Permissions, Select All, Select None, Submit, Search

- ☐ Agent - Activate/Deactivate
- ☐ Agent - Auto Deploy
- ☐ Agent - Auto Undeploy
- ☐ Agent - Blackout
- ☐ Agent - Clone List Properties
- ☐ Agent - Edit List Properties
- ☐ Agent - Edit Simple Properties
- ☐ Agent - Start/Stop Data Collection
- ☐ Host - Auto Undeploy
- ☐ Rule - Behavior
- ☐ Rule - Blackout
- ☐ Rule - Create
- ☐ Rule - Email Action
- ☐ Rule - Email Escalation
- ☐ Rule - Enable/Disable
- ☐ Rule - Enable/Disable Conditions
- ☐ Rule - Registry
- ☐ Rule - Trigger



Templates UI – Assign Hosts

Template Based
Management

Template Definitions

Add Save Undo Rebuild All Templates Select All Select None Delete

Name	Access Control			Hosts		Agents		Rules	
	Groups	Users	Permissions	Selected	Queries	Selected	Types	Managed	TopologyTypes (To create rules)
Demo 1	All Groups	All Users	All Permissions	All Hosts	No Queries Defined	All Agents On Hosts	No Agent Types Selected	No Rules Selected	No Topology Types Selected

Hosts Selector - Demo 1

Template's Hosts Only Default to All Hosts Clear Add Hosts Add Remote Hosts All Hosts (Targeted) Submit Add to Existing Search

☐ On Current FMS

☐ fms-admin

Hosts Queries - Demo 1

Clear New Query Select All Select None Submit Search

Query Input - Demo 1

Examples :
name LIKE '%prod%'
os.type = 'Windows'

Please enter valid conditions for the Host type:

Topology Path Navigator

Property Name	Path from Root
+ controller	controller
+ controllingDomainRoot	controllingDomainRoot
+ cpus	cpus
+ discoveryStatus	discoveryStatus
domainName	domainName



Templates UI - Assign Agents

Template Based Management

Template Definitions

Add Save Undo Rebuild All Templates Select All Select None Delete

Search

<input type="checkbox"/>	Name ▲	Access Control			Hosts		Agents		Rules	
		Groups	Users	Permissions	Selected	Queries	Selected	Types	Managed	TopologyTypes (To create rules)
<input type="checkbox"/>	Demo 1	All Groups	All Users	All Permissions	All Hosts	No Queries Defined	All Agents On Hosts	No Agent Types Selected	No Rules Selected	No Topology Types Selected

Agents Selector - Demo 1

Template's Agents Only Default to All Agents No Agents Clear Select All Select None Submit Add to Existing

Search

<input type="checkbox"/>	Exists On Current FMS	Agent's Host Part of Template	Agent Name ▲
<input type="checkbox"/>			Default@db-mssql
<input type="checkbox"/>			NetMonitor@fglams-ha-1
<input type="checkbox"/>			WebMonitor@fglams-ha-1
<input type="checkbox"/>			Windows@db-mssql
<input type="checkbox"/>			Windows@db-oracle
<input type="checkbox"/>			XE@db-oracle

Agent Types Selector - Demo 1

Clear Select All Select None Submit

Search

<input type="checkbox"/>	Exists On Current FMS	Agent Type's Host(s) Part of Template	Type ▲
<input type="checkbox"/>			DB_Oracle
<input type="checkbox"/>			DB_Oracle_ASM
<input type="checkbox"/>			DB_Oracle_Concentrator
<input type="checkbox"/>			DB_Oracle_CRS
<input type="checkbox"/>			DB_Oracle_Exadata
<input type="checkbox"/>			DB_Oracle_Installer



Templates UI - Assign Rules

Template Based Management

Template Definitions

Add Save Undo Rebuild All Templates Select All Select None Delete

Search

<input type="checkbox"/>	Name ▲	Access Control			Hosts	Agents		Rules		
		Groups	Users	Permissions	Selected	Queries	Selected	Types	Managed	TopologyTypes (To create rules)
<input type="checkbox"/>	Demo 1	All Groups	All Users	All Permissions	All Hosts	No Queries Defined	All Agents On Hosts	No Agent Types Selected	No Rules Selected	No Topology Types Selected

Rules Selector - Demo 1

Template's Rules Only Clear Select All Select None Submit Add to Existing

Search

<input type="checkbox"/>	Exists On Current FMS	Name ▲	Scoping Type	Exclude Query
<input type="checkbox"/>		Additional Process Pool Utilization	PowerVMAdditionalProcPool	Click to specify an exclusion query
<input type="checkbox"/>		Agent Health State	Agent	Click to specify an exclusion query
<input type="checkbox"/>		Agent Manager Error Message Alarm	FglamClientInstance	Click to specify an exclusion query
<input type="checkbox"/>		Agent Manager Last Submission Time	FglamClientInstance	Click to specify an exclusion query
<input type="checkbox"/>		Agent Manager Timed Out	FglamClientInstance	Click to specify an exclusion query

Topology Types Selector - Demo 1

Template's Topology Types Only Clear Select All Select None Submit Add to Existing

Search

<input type="checkbox"/>	Exists on Current FMS	Topology Type ▲	Display Name
<input type="checkbox"/>		ActiveDirectoryAgent	
<input type="checkbox"/>		AD_Collector_Message	
<input type="checkbox"/>		AD_Database	
<input type="checkbox"/>		AD_DirectoryService	
<input type="checkbox"/>		AD_Dns	
<input type="checkbox"/>		AD_Domain	
<input type="checkbox"/>		AD_DomainController	



Agent Management UI

Template Based
Management

The screenshot displays the 'Advanced Agents Management' interface at <http://fms-5756:8080>. The left sidebar shows a navigation menu with 'Bookmarks', 'Homes', 'Dashboards', and 'Foglight Servers'. Under 'Foglight Servers', 'Local FMS' is selected, showing two hosts: 'fms-5756 8080' (selected) and 'fms-admin 8080'.

The main area shows a table of agents with columns: Agent (Name, ID, Target Host, Current State), Agent Manager (Name, Connected), Templates, Active, Collecting Data, Has Blackout Schedules, and Auto Undeploy. The table lists several agents, all with a 'Broken' state. A red arrow points from the 'Auto Undeploy' column of the first row to a modal dialog.

The modal dialog, titled 'Auto Undeploy SQL Instance - DB_SQL_Server', contains the following text:

⚠ Are you sure you wish to undeploy agent type DB_SQL_Server?
Operation can not be Undone.

☒ Delete Data

☒ Remove Credential Mapping

Target Host: db-mssql
Instance: DEFAULT_INSTANCE

Buttons: Undeploy, Cancel

A tooltip on the right side of the table indicates: 'Undeploy All Instances on Host' and 'Undeploy This Instance'.



Agent Management UI - Edit

Template Based
Management

Advanced Agents Management - Local FMS

Select All Select None ☒ Activate ☒ Deactivate ☒ Start Data Collection ☒ Stop Data Collection Blackouts monitor X

Agent		Current State	Active	Collecting Data	Edit Properties	Has Blackout Schedules	Auto Undeploy
Name	ID						
<input type="checkbox"/> Monitor@WIN2012SQL1	13	Broken	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<input type="checkbox"/> Monitor@WIN2012SQL2	16	Broken	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

Permissions Selector - Demo 1

Default to All Permissions Select All Select None

- ☐ Agent - Activate/Deactivate
- ☐ Agent - Auto Deploy
- ☐ Agent - Auto Undeploy
- ☐ Agent - Blackout
- ☐ Agent - Clone List Properties
- ☐ Agent - Edit List Properties
- ☐ Agent - Edit Simple Properties
- ☐ Agent - Start/Stop Data Collection

Advanced Agents Management - Local FMS > Edit Properties

Select agent metrics ☒

Include mounted remote filesystems ☐

Collect memory metrics ☒

Collect network metrics ☒

Collect System ID ☐

Collect cluster information ☐

Treat cluster resource groups as virtual host ☐

Collect service metrics ☐ Collect only specified services

Collect log events ☒

Report only aggregate process metrics ☒

Collect Top N Process Details ☒

Use ping to validate host availability ☐

Excluded Drives

Process Availability Config

Filesystem Type Config

Simple Properties

List Properties Edit Clone

Edit Clone



Host Management UI

Template Based
Management

▼ Bookmarks

There are no bookmarks

▶ Homes

▶ Dashboards

▼ Foglight Servers

Local FMS

Host Name

● fms-5756 8080

○ fms-admin 8080

Advanced Hosts Management - <http://fms-5756:8080>

Name ▲	On Current FMS	Templates	Auto Undeploy	Auto Deploy
db-mssql	⏻	Demo 1	⏻	⏻
db-oracle	⏻	Demo 1		⏻
fglams-ha-1	⏻	Demo 1		⏻
fms-5756	⏻	Demo 1		⏻

Deploy Agent Type: WindowsAgent

Target Cluster: fms-dev

Target Hostname: db-mssql

IP Address:

Enter an IP Address (or Alternate name) only if the hostname can not be resolved using it's DNS name.

Is Virtual:

Use only if the host is a Virtual Machine and is being monitored by the Foglight Virtualization Agents.

Processes:

Entries with no process name are ignored. Expected counts < 1 are reset to 1.

Process Name	Command Line	Expected Count
Name (Collected services by display name)		

Services:

The names must match what the agent is setup to collect services as: Collected services by display name

Name (Collected services by display name)	
---	--

Lockbox:

Credential:

Deploy Cancel

Host Agents

AIX UnixAgent

Linux UnixAgentPlus

Solaris UnixAgentPlus

Windows WindowsAgent

Infrastructure Utilities

Windows Events WindowsEventLogMonitorAgent

File Log FileLogMonitorAgent

Ping NetMonitorAgent

URL WebMonitorAgent

Databases

DB2 DB_DB2

SQL Server DB_SQL_Server

Oracle DB_Oracle

Oracle RAC Instance DB_Oracle_RAC_Instance

Databases (Open Source)

Cassandra CassandraAgent

Mongo DB MongoDBAgent

MySQL MySQLAgent

Postgre SQL PostgreSQLAgent



Rule Management UI

Template Based Management

The screenshot displays the 'Template Rules Management - Local FMS' interface. At the top, there's a toolbar with various icons for rule management. Below it, a table lists rules, including 'CPU Utilization' and 'Demo 1 CPU Utilization'. Red arrows point from the rule table to four configuration dialog boxes:

- Email Inputs - CPU Utilization (Non Target Template):** This dialog has fields for Recipient, CC, Subject, and Message. It includes checkboxes for 'Use Default' and a 'text/plain' dropdown.
- Email Escalation Inputs - CPU Utilization (Demo 1):** This dialog has fields for Recipient, CC, and Time. It includes checkboxes for 'Use Default' and 'Apply Selectively', 'Apply', and 'Cancel' buttons.
- Time Driven Inputs - CPU Utilization (Non Target Template):** This dialog has fields for Hours, Minutes, and Seconds. It includes a checkbox for 'Trigger Without Data' and 'Apply' and 'Cancel' buttons.
- Behavior Inputs - CPU Utilization (Demo 1):** This dialog has checkboxes for 'Fire action if', 'Wait at least', and 'Trigger Without Data'. It includes input fields for values and 'Apply' and 'Cancel' buttons.



Rule Management UI – Rule Registry

Template Based
Management

Template Rules Management - Local FMS > Define Settings for Rule "CPU Utilization"

Save Undo Search

Name	Value		Description
CPU Utilization			
Demo 1			
Thresholds			
INF_CPUUseFatal	90		Metric to compare against cpu utilization.
INF_ProcsRunQueueFatal	11		DCM Migration
INF_CPUUseCritical	80		Metric to compare against cpu utilization.
INF_ProcsRunQueueCritical	8		DCM Migration
INF_CPUUseWarning	70		Metric to compare against cpu utilization.
INF_ProcsRunQueueWarning	5		DCM Migration
SYSADMIN			E-mail address for global system administrator
Email			
CC			
PSO.AdvancedAdmin.CarbonCopy.Fatal			Comma separated list of recipients to CC the email to when the alarm's severity is fatal.
PSO.AdvancedAdmin.CarbonCopy.Critical			Comma separated list of recipients to CC the email to when the alarm's severity is critical.
PSO.AdvancedAdmin.CarbonCopy.Warning			Comma separated list of recipients to CC the email to when the alarm's severity is warning.
PSO.AdvancedAdmin.CarbonCopy.Normal			Comma separated list of recipients to CC the email to when the alarm's severity is restored to a normal state.
TO			
PSO.AdvancedAdmin.Recipient.Fatal			Comma separated list of recipients to send the email to when the alarm's severity is fatal.
PSO.AdvancedAdmin.Recipient.Critical			Comma separated list of recipients to send the email to when the alarm's severity is critical.
PSO.AdvancedAdmin.Recipient.Warning			Comma separated list of recipients to send the email to when the alarm's severity is warning.
PSO.AdvancedAdmin.Recipient.Normal			Comma separated list of recipients to send the email to when the alarm's severity is restored to a normal state.
Escalation			
PSO.AdvancedAdmin.Escalation.CarbonCopy.Fatal			Comma separated list of recipients to CC the email to when the alarm's severity is fatal and the alarm has been active (Not Acknowledged)
PSO.AdvancedAdmin.Escalation.Recipient.Fatal			Comma separated list of recipients to send the email to when the alarm's severity is fatal and the alarm has been active (Not Acknowledged)
Time			
PSO.AdvancedAdmin.Escalation.Time.Fatal	15		Time in minutes an alarm can remain in a Fatal state without being acknowledged.
PSO.AdvancedAdmin.Escalation.Time.Critical	30		Time in minutes an alarm can remain in a Critical state without being acknowledged.
PSO.AdvancedAdmin.Escalation.Time.Warning	45		Time in minutes an alarm can remain in a Warning state without being acknowledged.



Rule Management UI – Rule Creation

Template Based
Management

Create Rule Inputs for Demo 1 - Memory

Rule Name:

Metric / Value: utilization (click to select new metric)

#utilization#

Fatal

Message:

Condition:

Critical

Message:

Condition:

Warning

Message:

Condition:

Available Rule Variables:

- metricValue - Single Metric Query
- metricValue# - 1 .. n, unique metric queries.
- objectName
- hostname
- _DomainRoot_

Available System Variables:

- foglight_monitored_host_name
- foglight_monitoring_agent_name
- foglight_rule_alarm_link
- foglight_rule_comments
- foglight_rule_domain_query
- foglight_rule_id
- foglight_rule_name
- foglight_scoping_id
- foglight_severity_level
- foglight_severity_level_name

Create Rule Cancel

Simple Query Editor

- 1 or more metrics can be used
- 1 or more conditions can be applied
- Fatal, Critical and/or Warning
- Variable support in messages



Alarm Analysis

Advanced Alarm
Analysis

Analyze alarms
based on
Severity &
Time Frame

Identify Active
Alarms created
during analysis
period

Assist with
correlation to
other alarm

Analyze alarms
per Rule

Identify Alarms
(by Rule) that
were
active/created
during the
analysis period

Correlate to
other rules that
are alerting

Display in a
graph

Evaluate the
impact of
what is
generating
the alarm

Drill down

Look at the
alarms
represented
in the bar
graph

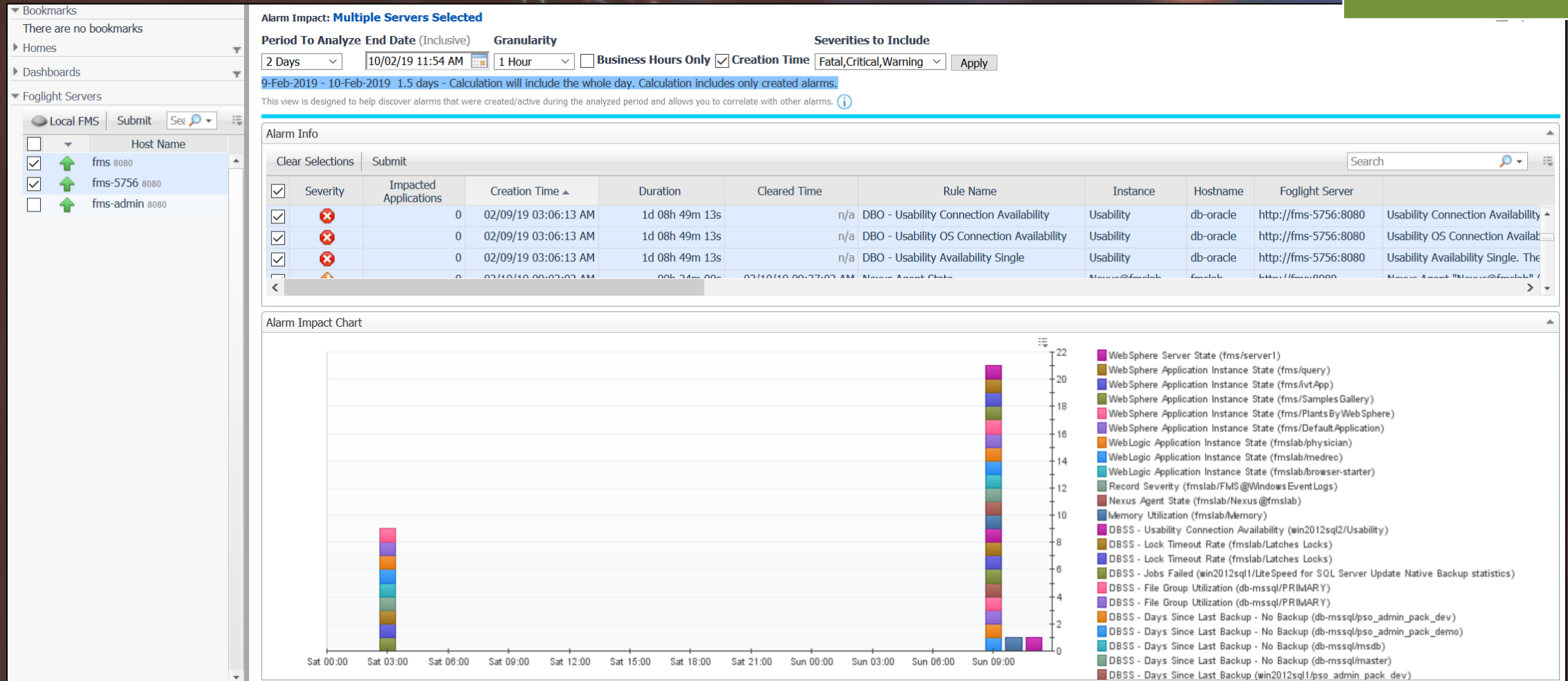
Analyze Alarms
across multiple
Foglight
Management
Servers

Harness
Foglight's
power the
way it was
meant to be
used in a
large
environment



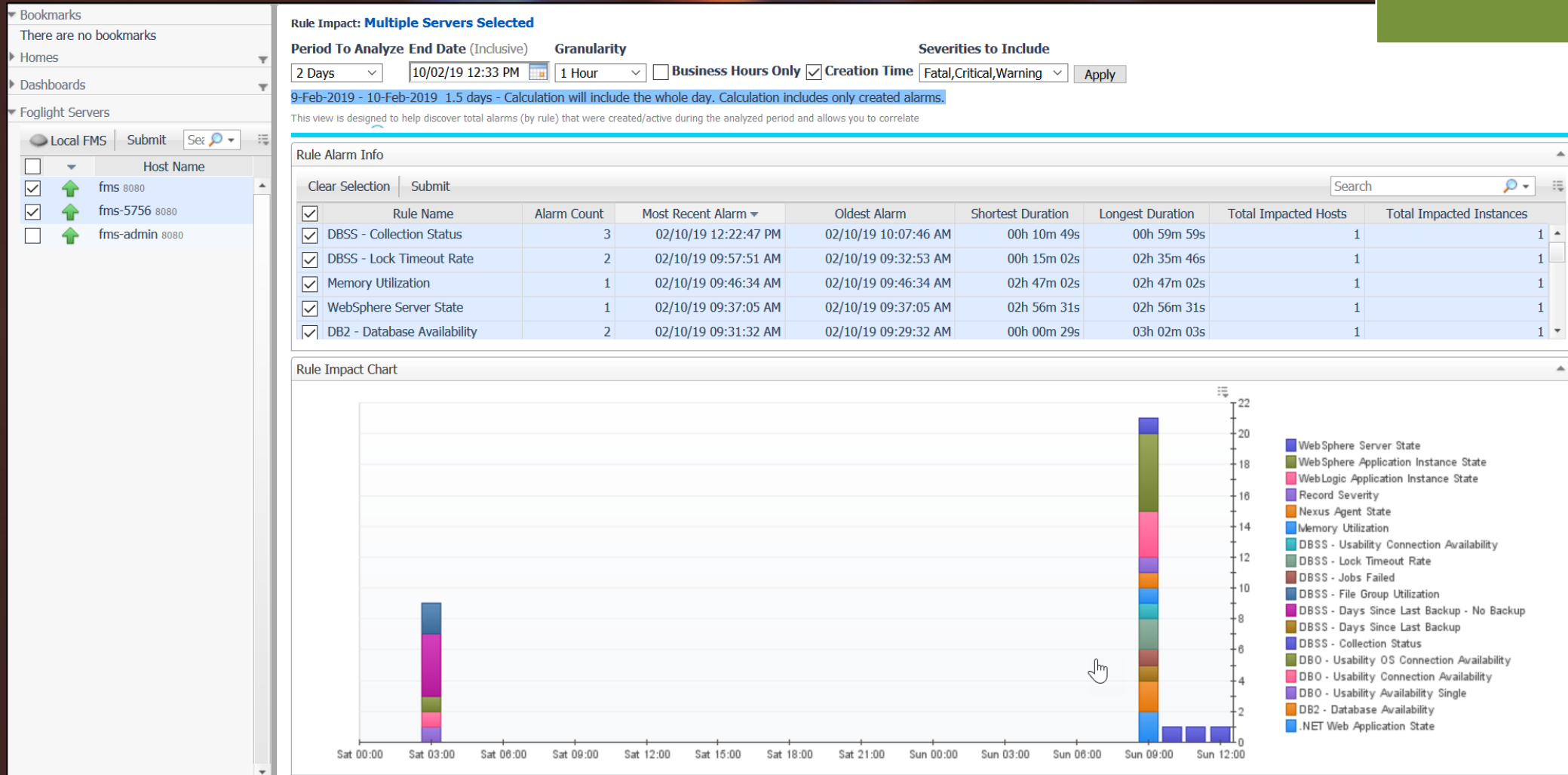
Alarm Analysis – Alarm Impact

Advanced Alarm Analysis



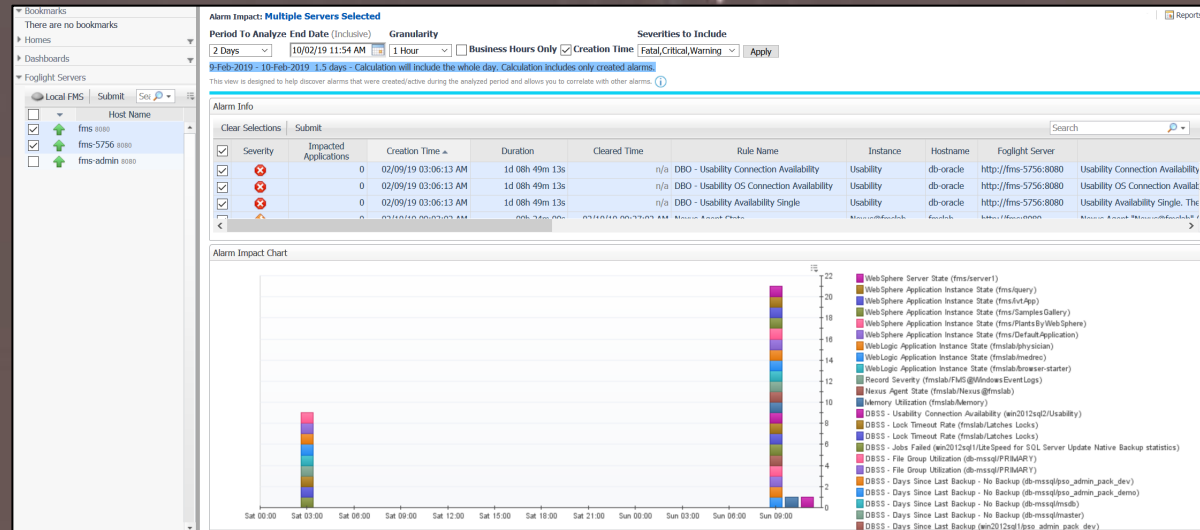
Alarm Analysis – Rule Impact

Advanced Alarm Analysis



Alarm Analysis – Bar Alarms

Advanced Alarm Analysis



Clicking on a bar in the chart will only display the alarms that are represented by the bar.

Alarm Impact: Multiple Servers Selected > Alarm Info for Remote Server: Multiple Servers Selected								Reports
Select All Select None Acknowledge Clear								Search
	Severity	Creation Time	Ack'd	Cleared	Rule Name	Foglight Server	Instance	Hostname
<input type="checkbox"/>		02/09/19 03:06:13 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBO - Usability OS Connection Availability	http://fms-5756:8080	Usability	db-oracle Usability OS Connection Availability. The connection to the operating system failed. A connection cou
<input type="checkbox"/>		02/09/19 03:06:13 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBO - Usability Connection Availability	http://fms-5756:8080	Usability	db-oracle Usability Connection Availability. The connection to the instance null failed. Failed to establish a Orac
<input type="checkbox"/>		02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	msdb	db-mssql Days Since Last Backup - No Backup. Database msdb has never been backed-up.
<input type="checkbox"/>		02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - File Group Utilization	http://fms-5756:8080	PRIMARY	db-mssql File Group Utilization. The Group File PRIMARY in database msdb is 92.38 % full.
<input type="checkbox"/>		02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	master	db-mssql Days Since Last Backup - No Backup. Database master has never been backed-up.
<input type="checkbox"/>		02/09/19 03:06:13 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBO - Usability Availability Single	http://fms-5756:8080	Usability	db-oracle Usability Availability Single. The Instance null is down
<input type="checkbox"/>		02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	psa_admin_pack_demo	db-mssql Days Since Last Backup - No Backup. Database psa_admin_pack_demo has never been backed-up.
<input type="checkbox"/>		02/09/19 03:06:04 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - File Group Utilization	http://fms-5756:8080	PRIMARY	db-mssql File Group Utilization. The Group File PRIMARY in database master is 90.63 % full.
<input type="checkbox"/>		02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	psa_admin_pack_dev	db-mssql Days Since Last Backup - No Backup. Database psa_admin_pack_dev has never been backed-up.

Application Management

Application
Management,
Creation and
Monitoring

Create, Define, and Monitor Applications

- SLAs
- Contacts
- Metadata
- Tiers
 - DB, App, Web, Firewall, Network

Build Derived metrics on application and tiers

Build rules on applications and tiers

Perform Advanced Alarm Analysis

Build an Application Container/Definition for each critical application directly inside Foglight.

Define, track, report, alert, and perform advanced analysis on all aspects of its performance.



Application Definitions

Application Management, Creation and Monitoring

Application Definitions

Add

Save

Undo

Rebuild All Applications

Select All

Select None

Delete

Search

<input type="checkbox"/>	Name ▲	Parents		Priority	Tiers	Contacts	Metadata	Service Level Policy (Alerting)							
		Category	Service					Lowest State	% Available	Alerting					
<input type="checkbox"/>	Demo 1 App	All Applications			6 Tiers	No Contacts Defined	No Metadata Defined	70.0	85.0	95.0					

Tiers for Demo 1 App

Clear

Add

Select All

Select None

Submit

Search

Service Name	Type	Tier	Position ▲	Selected	Hosts		Topology Types	Required Services	Service Level Policy			Alerting		
					Queries	VMWare			HyperV	Availability (Calculation)	Lowest State		% Available	
<input checked="" type="checkbox"/> User		11		<input checked="" type="checkbox"/>	All Hosts	No Queries Defined		No Services Selected	4 -	100.0	70.0	85.0	95.0	
<input checked="" type="checkbox"/> Firewall		21		<input checked="" type="checkbox"/>	All Hosts	No Queries Defined		No Services Selected	4 -	100.0	70.0	85.0	95.0	
<input checked="" type="checkbox"/> Web				<input checked="" type="checkbox"/>	All Hosts	No Queries Defined		No Services Selected	4 -	100.0	70.0	85.0	95.0	
<input checked="" type="checkbox"/> Router				<input checked="" type="checkbox"/>	All Hosts	No Queries Defined		No Services Selected	4 -	100.0	70.0	85.0	95.0	
<input checked="" type="checkbox"/> App				<input checked="" type="checkbox"/>	All Hosts	No Queries Defined		No Services Selected	4 -	100.0	70.0	85.0	95.0	
<input checked="" type="checkbox"/> Database				<input checked="" type="checkbox"/>	All Hosts	No Queries Defined		No Services Selected	4 -	100.0	70.0	85.0	95.0	

Tier Firewall Position

11

12

13

14

15

21

22

23

24

25

31

32

33

34

35

Tier Database Type Selector

Topology Types Queries - Firewall

Tier's Topology Types Only

Quick Types

Clear

Select All

Select None

Submit

Add to Existing

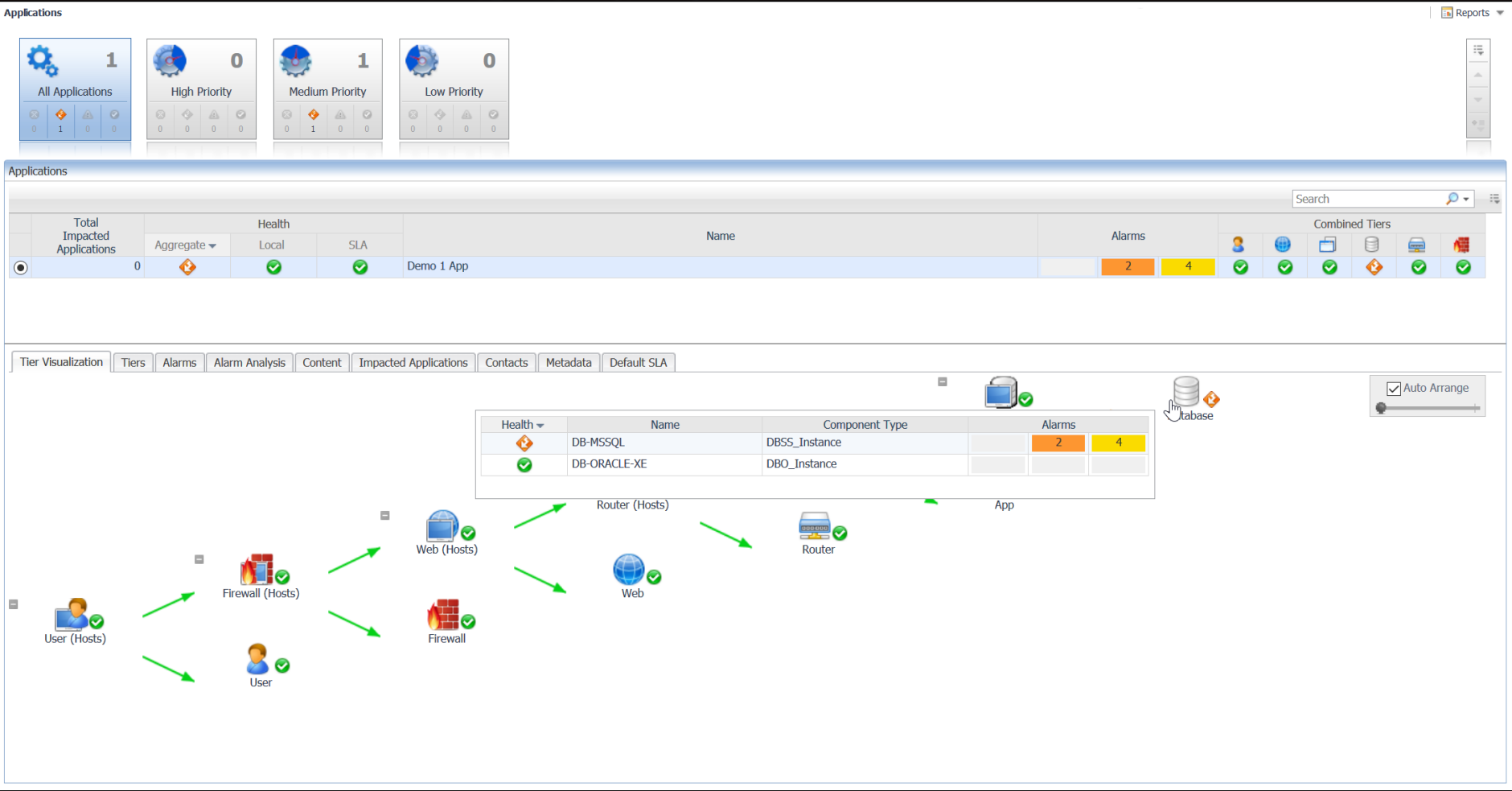
Search

<input type="checkbox"/>	Exists on Current FMS	Topology Type ▲	Display Name	Exclusion Query	Inclusion Query
<input type="checkbox"/>		FTRTransactionResult		Click to specify an exclusion query	Click to specify an inclusion query
<input type="checkbox"/>		GenericSNMPAgentInfo		Click to specify an exclusion query	Click to specify an inclusion query
<input checked="" type="checkbox"/>		Host	Host	Click to specify an exclusion query	name='fms-5756'
<input type="checkbox"/>		HostAgent		Click to specify an exclusion query	Click to specify an inclusion query
<input type="checkbox"/>		HostCPUs	HostCPUs	Click to specify an exclusion query	Click to specify an inclusion query
<input type="checkbox"/>		HostNetwork	HostNetwork	Click to specify an exclusion query	Click to specify an inclusion query
<input type="checkbox"/>		HostService	HostService	Click to specify an exclusion query	Click to specify an inclusion query
<input type="checkbox"/>		HostStorage	HostStorage	Click to specify an exclusion query	Click to specify an inclusion query



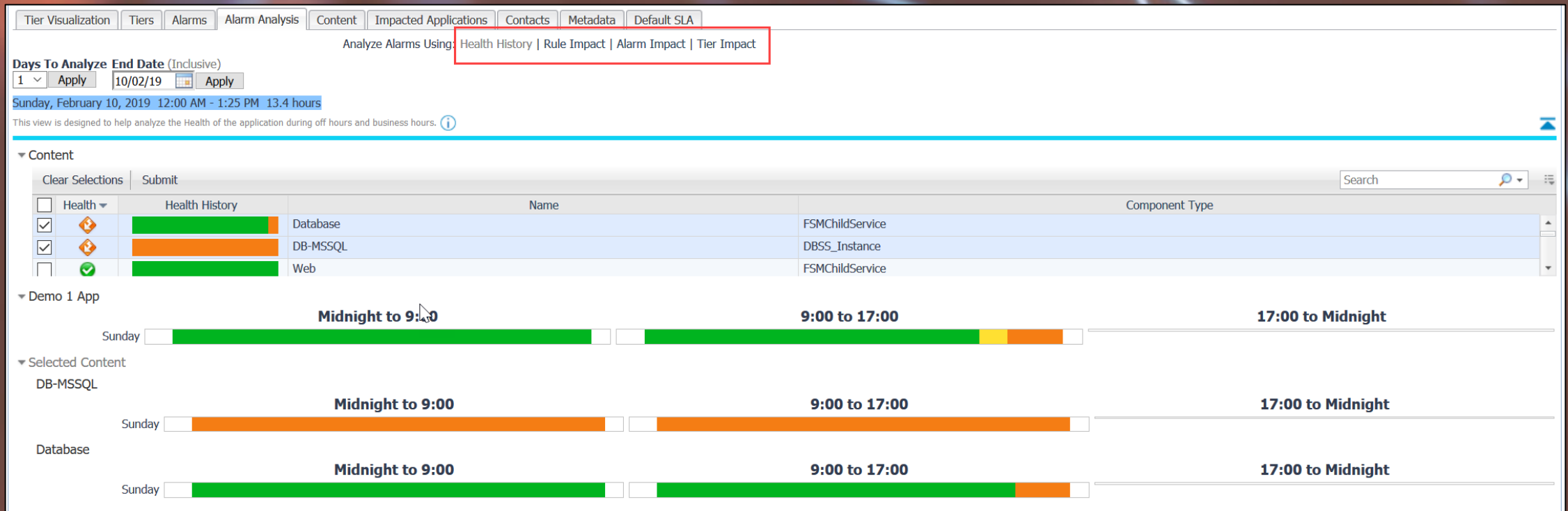
Application Monitoring

Application Management, Creation and Monitoring



Application Alarm Analysis

Application
Management,
Creation and
Monitoring



Application Ticket Creation

Tier Visualization Tiers Alarms Alarm Analysis Content Impacted Applications Contacts Metadata Default SLA

Select Default to view Alarms with no Ticket support. Select one of the other available Integration Views to open a ticket using the selected Integration.

Select View: Default

▼ Alarm List

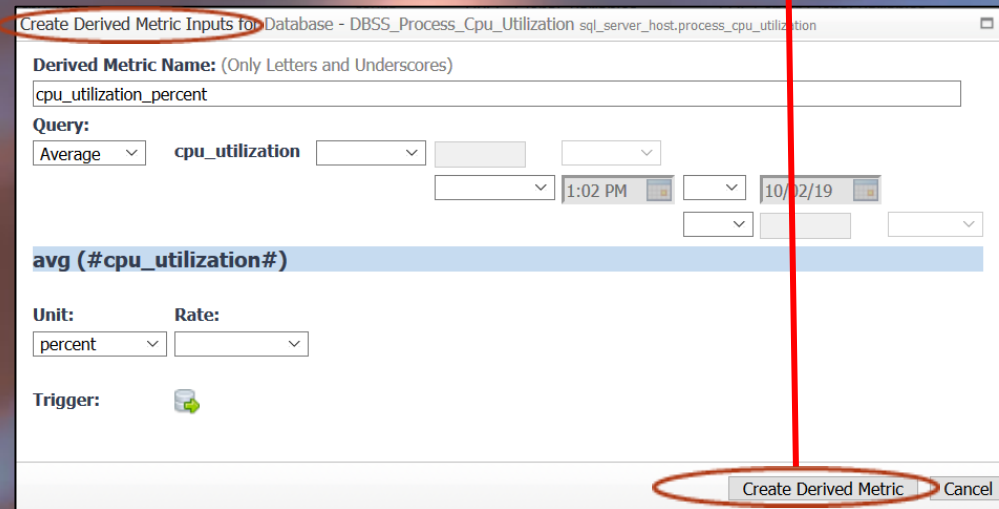
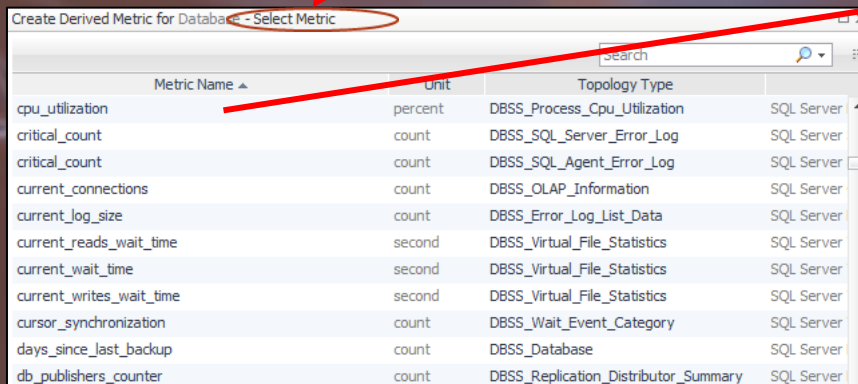
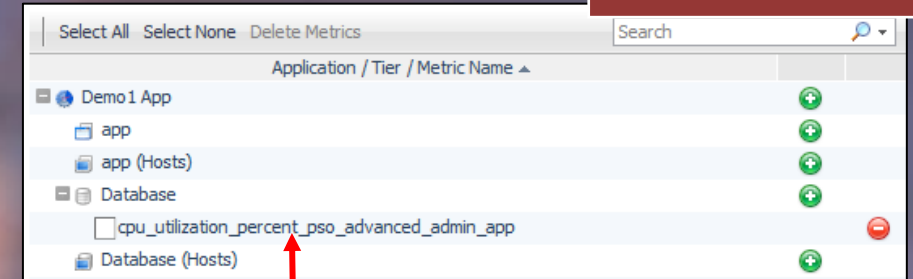
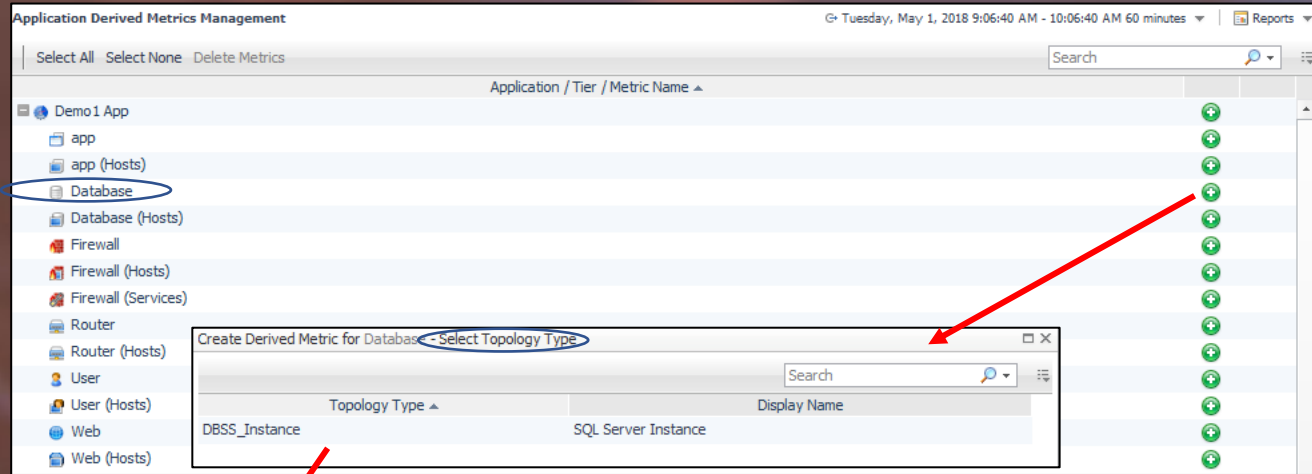
Select All BPPM Knowledge Clear

<input type="checkbox"/>	S...	Email	ck'ed	Cleared	Host	Instance	Message	Origin	Agent	Agent Type
<input type="checkbox"/>	JDBC	No	No	db-mssql	PRIMARY (db-mss...	File Group Utilization. The Group File PRIMARY in database master is 90.63 % full.	DBSS - File Group Utilization	Default@db-mssql	DB_SQL_Server	
<input type="checkbox"/>	OMi	No	No	db-mssql	PRIMARY (db-mss...	File Group Utilization. The Group File PRIMARY in database msdb is 92.38 % full.	DBSS - File Group Utilization	Default@db-mssql	DB_SQL_Server	
<input type="checkbox"/>	ServiceNow	No	No	db-mssql	master (db-mssql,...	Days Since Last Backup - No Backup. Database master has never been backed-up.	DBSS - Days Since Last Backup - No Backup	Default@db-mssql	DB_SQL_Server	
<input type="checkbox"/>	XML	No	No	db-mssql	psa_admin_pack_d...	Days Since Last Backup - No Backup. Database psa_admin_pack_dev has never been backed-up.	DBSS - Days Since Last Backup - No Backup	Default@db-mssql	DB_SQL_Server	
<input type="checkbox"/>	Zenoss	No	No	db-mssql	psa_admin_pack_d...	Days Since Last Backup - No Backup. Database psa_admin_pack_demo has never been backed-up.	DBSS - Days Since Last Backup - No Backup	Default@db-mssql	DB_SQL_Server	
<input type="checkbox"/>		No	No	db-mssql	msdb (db-mssql,D...	Days Since Last Backup - No Backup. Database msdb has never been backed-up.	DBSS - Days Since Last Backup - No Backup	Default@db-mssql	DB_SQL_Server	

Open a ticket manually with the PSO Integration Cartridges example above

Application Derived Metrics

Application
Management,
Creation and
Monitoring



Application Rules

Application Management, Creation and Monitoring

Application Rules Management

Tuesday, May 1, 2018 9:12:57 AM - 10:12:57 AM 60 minutes

Select All Select None Enable Disable Conditions E-Mails Escalation Blackouts Data Driven Time Driven Schedule Driven Search

Application / Tier / Rule Name	Enabled	Registry Variables	Conditions	E-Mails	E-Mail Escalation	Has Blackout Schedules	Triggering Type	Behavior
Demo 1 App	+							
app	+							
app (Hosts)	+							
Database	+							
Database (Hosts)	+							
Firewall	+							
Firewall (Hosts)	+							
Firewall (Services)	+							

Create Rule for Database - Select Metric

Metric Name	Unit	Topology Type	Display Name
cpu_utilization_percent_pso_advanced_admin_app	percent	FSMChildService	FSMChildService

Create Rule Inputs for Database - FSMChildService

Rule Name:

Metric / Value:

#cpu_utilization_percent_pso_advanced_admin_app#

Fatal

Message:

Condition

Critical

Warning

Available Rule Variables:

metricValue - Single Metric Query
metricValue# - 1 .. n, unique metric queries.
objectName
hostname
DomainRoot

Available System Variables:

foglight_monitored_host_name
foglight_monitoring_agent_name
foglight_rule_alarm_link
foglight_rule_comments
foglight_rule_domain_query
foglight_rule_id
foglight_rule_name
foglight_scoping_id
foglight_severity_level
foglight_severity_level_name

Create Rule Cancel

Template Rules Management - Local FMS

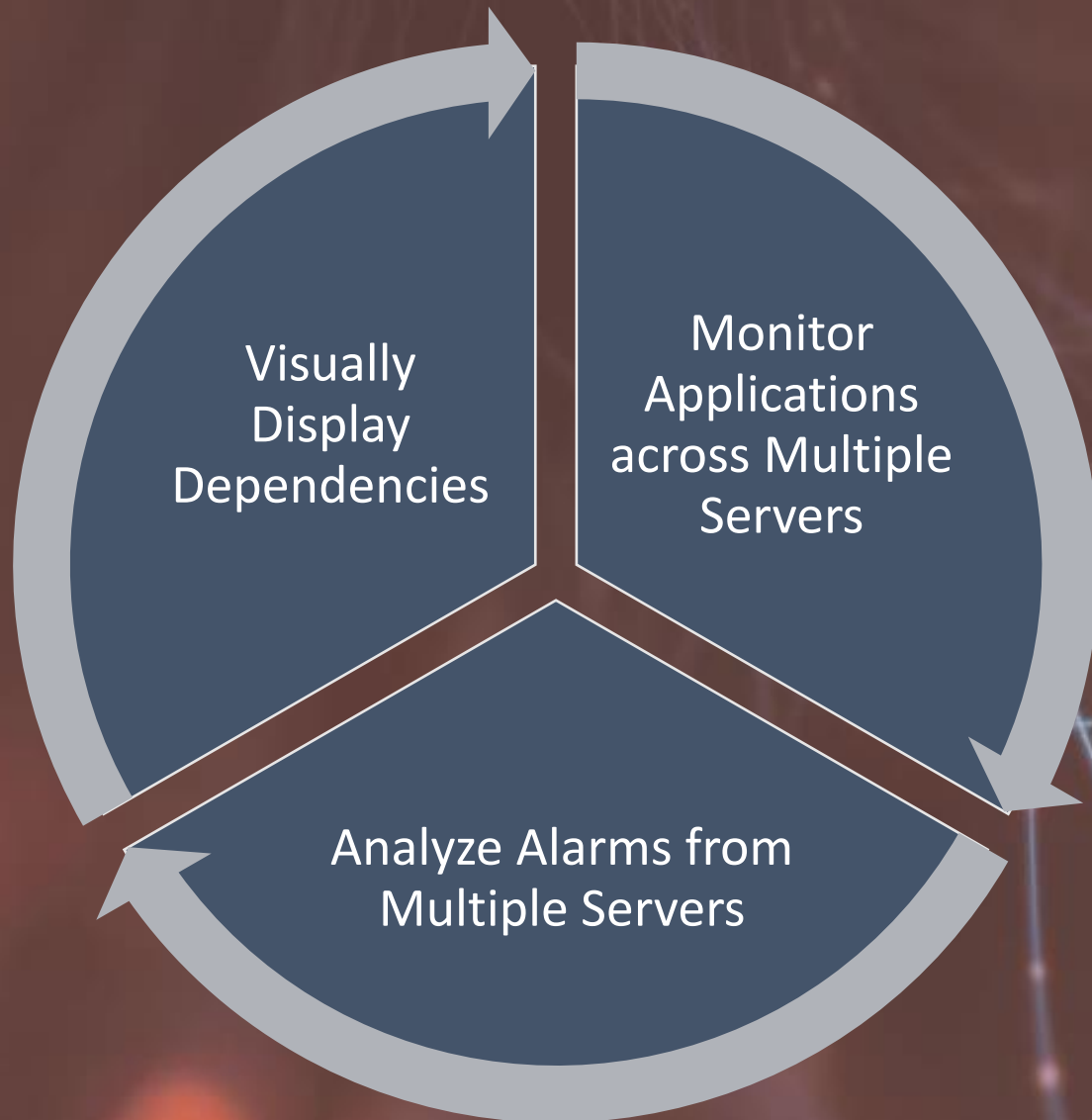
Filter Select All Select None Enable Disable Conditions E-Mails Escalation Blackouts Data Driven Time Driven Schedule Driven Search

Application / Tier / Rule	Enabled	Registry Variables	Conditions	E-Mails	E-Mail Escalation	Has Blackout Schedules	Triggering Type	Behavior
Demo 1 App	+							
App	+							
App (Hosts)	+							
Database	+							

Demo Rule CPU



Application
Operations Console



Applications Operation Console

Advanced Administration Applications Operation Console

Application
Operations Console

Bookmarks
There are no bookmarks
Homes
Dashboards
Foglight Servers

Local FMS Submit Ser

Host Name

- ☒ fms 8080
- ☒ fms-5756 8080
- ☐ fms-admin 8080

Alarm Impact: **Multiple Servers Selected**

Select Applications

Total Impacted Applications	Aggregate	Health		Name	Alarms			Combined Tiers							
		Local	SLA												
0				Demo 1 App	1	14	21								

Tier Visualization Tiers Alarms Alarm Analysis Content Contacts Metadata

Auto Arrange

Health

Health	Name	Component Type	Alarms		
	WIN2012SQL1-SQL2012	DBSS_Instance	1	3	11
	WIN2012SQL2-SQL2012	DBSS_Instance		10	4
	FMS	DBSS_Instance			5
	FMS-XE	DBO_Instance			

Web (Hosts)

Router

Web

Firewall (Hosts)

Firewall

User (Hosts)

User

Database

Advanced Administration — System Requirements



Minimum required
FMS version

5.9.3



Supported
Database
Minimum
Version

MS SQL	2008 v 10.0.1600 or later
Oracle	9i R2
MySQL	5.1.45
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.

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Contact: Sales@LightSpeedPM.com

