

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

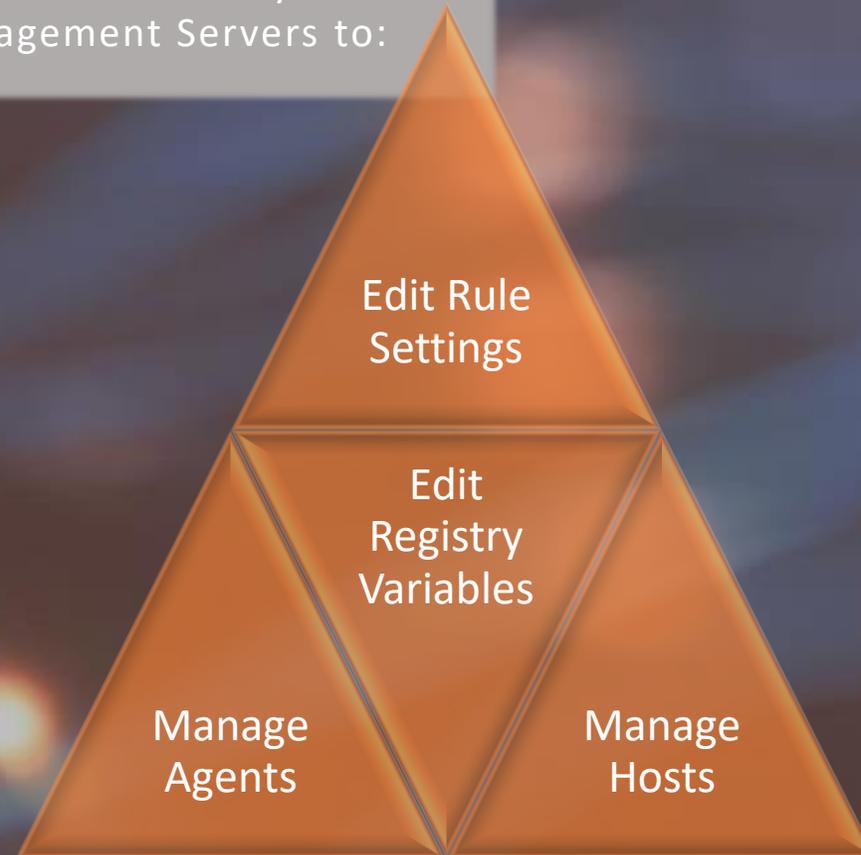
Application
Operations Console



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' interface for a 'Local FMS' instance. The main window shows a table of rules with columns for 'Cartridge / Rule', 'Enabled', 'Registry Variables', 'Conditions', 'Has Blackout Schedules', 'Triggering Type', 'Behavior', and 'Scoping Query'. The 'Core-MonitoringPolicy' section is expanded, listing various checks like 'Agent Health State', 'Catalyst Agent Type License Checker', etc. 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' and 'Behavior' columns of the 'Agent Health State' rule to their respective dialog boxes.

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								CatalystJbossManagedConnectionPool
<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
<input type="checkbox"/> Catalyst Number of Topology History Versions Check								CatalystTablespace
<input type="checkbox"/> Clear Old LogFilter Alarms								(CatalystServer).jvm.garbageCollectors
								CatalystServer
								CatalystServer.jvm
								CatalystAlarmService
								CatalystTopologyRollupService

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

Hours Minutes Seconds

Trigger Without Data

Apply Cancel

Data Driven
Time Driven
Schedule Driven

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)

Advanced Rules Management - Non Template - Local FMS

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

Cartridge / Rule	Enabled	Registry Variables	Conditions	Has Blackout Schedules	Triggering Type	Behavior
<input type="checkbox"/> CPU Utilization						

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

Save | Undo | Search

Name	Value	Scoping	Description
Infrastructure			
INF_CPUUseFatal	90		Metric to compare against cpu utilization.
INF_ProcsRunQueueFatal	11		DCM Migration
SYSADMIN			E-mail address for global system administrator
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

Please select objects for which to Add the value.

Select All | Select None | Add | Search

Name
<input type="checkbox"/>
<input type="checkbox"/> CPUs (db-mssql)
<input type="checkbox"/> CPUs (db-oracle)



Administrator Mode - Registry

Advanced features
for Foglight
Administrators
(Administrator Mode)

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

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			



Administrator Mode - Agents

Advanced features
for Foglight
Administrators
(Administrator Mode)

The screenshot displays the 'Advanced Agents Management' interface for the URL <http://fms-5756:8080>. The interface includes a left sidebar with navigation options like 'Bookmarks', 'Homes', 'Dashboards', and 'Foglight Servers'. The main area contains a table of agents with columns for Agent (Name, ID, Target Host, Current State) and Agent Manager (Name, Connected). Below the table, two dialog boxes are open: 'Auto Undeploy - NetMonitorAgent' and 'Host Selector'. Red arrows point from the 'Auto Undeploy' dialog to the 'NetMonitorAgent' row in the table and to the 'Host Selector' dialog.

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 type="checkbox"/> NetMonitor@fglams-ha-1	3		OK	fglams-ha-1		Non Target Template				
<input type="checkbox"/> WebMonitor@fglams-ha-1	5		OK	fglams-ha-1		Non Target Template				
<input type="checkbox"/> Windows@db-mssql	7	db-mssql	OK	fglams-ha-1		Non Target Template				
<input type="checkbox"/> Windows@db-oracle	8	db-oracle	OK	fglams-ha-1		Non Target Template				
<input type="checkbox"/> XE@db-oracle	2	db-oracle	OK	db-oracle		Non Target Template				

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)

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		

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

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

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



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				Hosts	Agents		Rules	
	Groups	Users	Permissions	Selected		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

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

<input type="checkbox"/>	Agent - Activate/Deactivate
<input type="checkbox"/>	Agent - Auto Deploy
<input type="checkbox"/>	Agent - Auto Undeploy
<input type="checkbox"/>	Agent - Blackout
<input type="checkbox"/>	Agent - Clone List Properties
<input type="checkbox"/>	Agent - Edit List Properties
<input type="checkbox"/>	Agent - Edit Simple Properties
<input type="checkbox"/>	Agent - Start/Stop Data Collection
<input type="checkbox"/>	Host - Auto Undeploy
<input type="checkbox"/>	Rule - Behavior
<input type="checkbox"/>	Rule - Blackout
<input type="checkbox"/>	Rule - Create
<input type="checkbox"/>	Rule - Email Action
<input type="checkbox"/>	Rule - Email Escalation
<input type="checkbox"/>	Rule - Enable/Disable
<input type="checkbox"/>	Rule - Enable/Disable Conditions
<input type="checkbox"/>	Rule - Registry
<input type="checkbox"/>	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

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

<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

<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

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

Rules Selector - Demo 1

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

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

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 for the URL <http://fms-5756:8080>. The interface includes a left sidebar with navigation options like 'Bookmarks', 'Homes', 'Dashboards', and 'Foglight Servers'. The main area features a table of agents with columns for Name, ID, Target Host, Current State, Agent Manager, Connected, Templates, Active, Collecting Data, Has Blackout Schedules, and Auto Undeploy. A red arrow points from the 'Auto Undeploy' column of the first row to a modal dialog box.

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	Broken	db-mssql		Demo 1				
<input type="checkbox"/> NetMonitor@fglams-ha-1	3		Broken	fglams-ha-1		Non Target Template				
<input type="checkbox"/> WebMonitor@fglams-ha-1	5		Broken	fglams-ha-1		Non Target Template				
<input type="checkbox"/> Windows@db-mssql	7	db-mssql	Broken	fglams-ha-1		Demo 1				
<input type="checkbox"/> Windows@db-oracle	8	db-oracle	Broken	fglams-ha-1		Demo 1				
<input type="checkbox"/> XE@db-oracle	2	db-oracle	Broken	db-oracle		Demo 1				

Auto Undeploy SQL Instance - DB_SQL_Server

⚠ 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

Undeploy Cancel



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 type="checkbox"/>			
<input type="checkbox"/> Monitor@WIN2012SQL2	16	Broken	<input checked="" type="checkbox"/>	<input 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 services

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

Edit Clone

Edit Clone



Host Management UI

Template Based Management

The screenshot displays the 'Advanced Hosts Management' interface. On the left, a sidebar shows 'Foglight Servers' with a search bar and a list of hosts including 'fms-5756 8080' and 'fms-admin 8080'. The main area features a table of hosts with columns for Name, On Current FMS, Templates, Auto Undeploy, and Auto Deploy. A modal window titled 'Deploy Agent Type WindowsAgent' is open, showing configuration for 'Target Cluster: fms-dev' and 'Target Hostname: db-mssql'. The modal includes fields for IP Address, Is Virtual, Processes (with a table), Services, Lockbox, and Credential. A dropdown menu is open, listing various agents under categories like Host Agents, Infrastructure Utilities, and Databases.

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

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

Template Rules Management - Local FMS

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

Non Targeted Rule / Template Rule	Enabled	Registry Variables	Conditions			E-Mails			E-Mail Escalation			Has Blackout Schedules	Triggering Type	Behavior
<input type="checkbox"/> CPU Utilization														
<input type="checkbox"/> Demo 1 CPU Utilization														

Email Inputs - CPU Utilization (Non Target Template)

Recipient: (Comma separated addresses) Use Default

CC: (Comma separated addresses) Use Default

Subject:
@_DomainRoot_: @fogligh_t_severity_level_name: @fogligh_t_rule_name

Message:
text/plain

@_Text_
Please use the following URL to obtain alarm details:
@fogligh_t_rule_alarm_link

Click to view available variables... (common ones when multiple rules are selected)
Variable names can be used in the Subject or Message by inserting a @ followed by the variable name.
Example: The CPU is at @cpuUtilization% which exceeds the specified threshold of @threshold

Apply selectively Apply Cancel

Email Escalation Inputs - CPU Utilization (Demo 1)

Recipient: (Comma separated addresses) Use Default

CC: (Comma separated addresses) Use Default

Time: (in minutes alarm can remain unacknowledged) Use Default

Apply Selectively Apply Cancel

Time Driven Inputs - CPU Utilization (Non Target Template)

Hours Minutes Seconds

Trigger Without Data

Apply Cancel

- Data Driven
- Time Driven
- Schedule Driven

Behavior Inputs - CPU Utilization (Demo 1)

Fire action if consecutive evaluations are true

Fire action if out of evaluations are true

Wait at least Hours Minutes Seconds

Apply Cancel



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: (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

Bookmarks

There are no bookmarks

Homes

Dashboards

Foglight Servers

Local FMS

Submit

Host Name

- fms 8080
- fms-5756 8080
- fms-admin 8080

Alarm Impact: Multiple Servers Selected

Period To Analyze: 2 Days | End Date (Inclusive): 10/02/19 11:54 AM | Granularity: 1 Hour | Business Hours Only: | Creation Time: | Severities to Include: Fatal,Critical,Warning | Apply

9-Feb-2019 - 10-Feb-2019 1.5 days - Calculation will include the whole day. Calculation includes only created alarms.

This view is designed to help discover alarms that were created/active during the analyzed period and allows you to correlate with other alarms.

Alarm Info

Severity	Impacted Applications	Creation Time	Duration	Cleared Time	Rule Name	Instance	Hostname	Foglight Server
<input checked="" type="checkbox"/> Fatal	0	02/09/19 03:06:13 AM	1d 08h 49m 13s	n/a	DBO - Usability Connection Availability	Usability	db-oracle	http://fms-5756:8080
<input checked="" type="checkbox"/> Fatal	0	02/09/19 03:06:13 AM	1d 08h 49m 13s	n/a	DBO - Usability OS Connection Availability	Usability	db-oracle	http://fms-5756:8080
<input checked="" type="checkbox"/> Fatal	0	02/09/19 03:06:13 AM	1d 08h 49m 13s	n/a	DBO - Usability Availability Single	Usability	db-oracle	http://fms-5756:8080

Alarm Impact Chart

- WebSphere Server State (fms/server1)
- WebSphere Application Instance State (fms/query)
- WebSphere Application Instance State (fms/ivtApp)
- WebSphere Application Instance State (fms/SamplesGallery)
- WebSphere Application Instance State (fms/PlantsByWebSphere)
- WebSphere Application Instance State (fms/DefaultApplication)
- WebLogic Application Instance State (fmslab/physician)
- WebLogic Application Instance State (fmslab/medrec)
- WebLogic Application Instance State (fmslab/browser-starter)
- Record Severity (fmslab/FMS@WindowsEventLogs)
- Nexus Agent State (fmslab/Nexus@fmslab)
- Memory Utilization (fmslab/Memory)
- DBSS - Usability Connection Availability (win2012sql2/Usability)
- DBSS - Lock Timeout Rate (fmslab/Latches Locks)
- DBSS - Lock Timeout Rate (fmslab/Latches Locks)
- DBSS - Jobs Failed (win2012sql1/LiteSpeed for SQL Server Update Native Backup statistics)
- DBSS - File Group Utilization (db-mssql/PRIMARY)
- DBSS - File Group Utilization (db-mssql/PRIMARY)
- DBSS - Days Since Last Backup - No Backup (db-mssql/psa_admin_pack_dev)
- DBSS - Days Since Last Backup - No Backup (db-mssql/psa_admin_pack_demo)
- DBSS - Days Since Last Backup - No Backup (db-mssql/msdb)
- DBSS - Days Since Last Backup - No Backup (db-mssql/master)
- DBSS - Days Since Last Backup (win2012sql1/psa_admin_pack_dev)



Alarm Analysis – Rule Impact

Advanced Alarm Analysis

Bookmarks
There are no bookmarks

Homes

Dashboards

Foglight Servers

Local FMS Submit

<input type="checkbox"/>	Host Name
<input checked="" type="checkbox"/>	fms 8080
<input checked="" type="checkbox"/>	fms-5756 8080
<input type="checkbox"/>	fms-admin 8080

Rule Impact: Multiple Servers Selected

Period To Analyze End Date (Inclusive) Granularity Severities to Include

2 Days 10/02/19 12:33 PM 1 Hour Business Hours Only Creation Time Fatal,Critical,Warning Apply

9-Feb-2019 - 10-Feb-2019 1.5 days - Calculation will include the whole day. Calculation includes only created alarms.

This view is designed to help discover total alarms (by rule) that were created/active during the analyzed period and allows you to correlate

Rule Alarm Info

Clear Selection Submit Search

<input checked="" type="checkbox"/>	Rule Name	Alarm Count	Most Recent Alarm	Oldest Alarm	Shortest Duration	Longest Duration	Total Impacted Hosts	Total Impacted Instances
<input checked="" type="checkbox"/>	DBSS - Collection Status	3	02/10/19 12:22:47 PM	02/10/19 10:07:46 AM	00h 10m 49s	00h 59m 59s	1	1
<input checked="" type="checkbox"/>	DBSS - Lock Timeout Rate	2	02/10/19 09:57:51 AM	02/10/19 09:32:53 AM	00h 15m 02s	02h 35m 46s	1	1
<input checked="" type="checkbox"/>	Memory Utilization	1	02/10/19 09:46:34 AM	02/10/19 09:46:34 AM	02h 47m 02s	02h 47m 02s	1	1
<input checked="" type="checkbox"/>	WebSphere Server State	1	02/10/19 09:37:05 AM	02/10/19 09:37:05 AM	02h 56m 31s	02h 56m 31s	1	1
<input checked="" type="checkbox"/>	DB2 - Database Availability	2	02/10/19 09:31:32 AM	02/10/19 09:29:32 AM	00h 00m 29s	03h 02m 03s	1	1

Rule Impact Chart



Alarm Analysis – Bar Alarms

Advanced Alarm Analysis

Alarm Impact: **Multiple Servers Selected**

Period to Analyze End Date (Inclusive): 10/02/19 11:54 AM Granularity: 1 Hour Business Hours Only Creation Time Severities to Include: Fatal,Critical,Warning Apply

9-Feb-2019 - 10-Feb-2019 1.5 days - Calculation will include the whole day. Calculation includes only created alarms.

Alarm Info

Severity	Impacted Applications	Creation Time	Duration	Cleared Time	Rule Name	Instance	Hostname	Foglight Server
✖	0	02/09/19 03:06:13 AM	1d 08h 49m 13s		n/a DBO - Usability Connection Availability	Usability	db-oracle	http://fms-5756:8080
✖	0	02/09/19 03:06:13 AM	1d 08h 49m 13s		n/a DBO - Usability OS Connection Availability	Usability	db-oracle	http://fms-5756:8080
✖	0	02/09/19 03:06:13 AM	1d 08h 49m 13s		n/a DBO - Usability Availability Single	Usability	db-oracle	http://fms-5756:8080

Alarm Impact Chart

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

Select All Select None Acknowledge Clear

Severity	Creation Time	Ack'd	Cleared	Rule Name	Foglight Server	Instance	Hostname
✖	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
✖	02/09/19 03:06:13 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBO - Usability Connection Availability	http://fms-5756:8080	Usability	db-oracle
⚠	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
⚠	02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - File Group Utilization	http://fms-5756:8080	PRIMARY	db-mssql
⚠	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
✖	02/09/19 03:06:13 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBO - Usability Availability Single	http://fms-5756:8080	Usability	db-oracle
⚠	02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	ps_admin_pack_demo	db-mssql
⚠	02/09/19 03:06:04 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - File Group Utilization	http://fms-5756:8080	PRIMARY	db-mssql
⚠	02/09/19 03:06:03 AM	<input type="checkbox"/>	<input type="checkbox"/>	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	ps_admin_pack_dev	db-mssql



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

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

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

Tier Database Type Selector

Topology Types Queries - Firewall

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

The dashboard provides a summary of application health across four priority levels:

- All Applications: 1
- High Priority: 0
- Medium Priority: 1
- Low Priority: 0

The main table lists the following application:

Total Impacted Applications	Aggregate	Health	Local	SLA	Name	Alarms	Combined Tiers
0					Demo 1 App	2 (orange), 4 (yellow)	

The Tier Visualization section shows a dependency graph for 'Demo 1 App' with the following components and their health:

- User (Hosts):
- Firewall (Hosts):
- User:
- Firewall:
- Web (Hosts):
- Web:
- Router (Hosts):
- Router:
- App:
- DB-MSSQL (DBSS_Instance): Alarms: 2 (orange), 4 (yellow)
- DB-ORACLE-XE (DBO_Instance):

Green arrows indicate the flow of dependencies from left to right, starting from the User and ending at the App and Database components.



Application Alarm Analysis

Application Management, Creation and Monitoring

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

Analyze Alarms Using: Health History | Rule Impact | Alarm Impact | Tier Impact

Days To Analyze: 1 | End Date (Inclusive): 10/02/19

Sunday, February 10, 2019 12:00 AM - 1:25 PM 13.4 hours

This view is designed to help analyze the Health of the application during off hours and business hours.

▼ Content

Clear Selections | Submit

Health	Health History	Name	Component Type
<input checked="" type="checkbox"/>		Database	FSMChildService
<input checked="" type="checkbox"/>		DB-MSSQL	DBSS_Instance
<input type="checkbox"/>		Web	FSMChildService

▼ Demo 1 App

Sunday **Midnight to 9:00** **9:00 to 17:00** **17:00 to Midnight**

▼ Selected Content

DB-MSSQL

Sunday **Midnight to 9:00** **9:00 to 17:00** **17:00 to Midnight**

Database

Sunday **Midnight to 9:00** **9:00 to 17:00** **17:00 to Midnight**



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	Integration	Knowledge	Cleared	Host	Instance	Message	Origin	Agent	Agent Type
<input type="checkbox"/>	BPPM								
<input type="checkbox"/>	Email								
<input type="checkbox"/>	JDBC		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	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	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	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	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 Derived Metrics Management

Select All Select None Delete Metrics Search

Application / Tier / Metric Name

- Demo1 App
 - app
 - app (Hosts)
 - Database
 - Database (Hosts)
 - Firewall
 - Firewall (Hosts)
 - Firewall (Services)
 - Router
 - Router (Hosts)
 - User
 - User (Hosts)
 - Web
 - Web (Hosts)

Create Derived Metric for Database - Select Topology Type

Topology Type	Display Name
DBSS_Instance	SQL Server Instance

Application Derived Metrics Management

Select All Select None Delete Metrics Search

Application / Tier / Metric Name

- Demo1 App
 - app
 - app (Hosts)
 - Database
 - cpu_utilization_percent_pso_advanced_admin_app
 - Database (Hosts)

Create Derived Metric for Database - Select Metric

Metric Name	Unit	Topology Type
cpu_utilization	percent	DBSS_Process_Cpu_Utilization
critical_count	count	DBSS_SQL_Server_Error_Log
critical_count	count	DBSS_SQL_Agent_Error_Log
current_connections	count	DBSS_OLAP_Information
current_log_size	count	DBSS_Error_Log_List_Data
current_reads_wait_time	second	DBSS_Virtual_File_Statistics
current_wait_time	second	DBSS_Virtual_File_Statistics
current_writes_wait_time	second	DBSS_Virtual_File_Statistics
cursor_synchronization	count	DBSS_Wait_Event_Category
days_since_last_backup	count	DBSS_Database
db_publishers_counter	count	DBSS_Replication_Distributor_Summary

Create Derived Metric Inputs for Database - DBSS_Process_Cpu_Utilization sql_server_host.process_cpu_utilization

Derived Metric Name: (Only Letters and Underscores)
cpu_utilization_percent

Query:
Average cpu_utilization

avg (#cpu_utilization#)

Unit: Rate:
percent

Trigger:

Create Derived Metric Cancel



Application Rules

Application Management, Creation and Monitoring

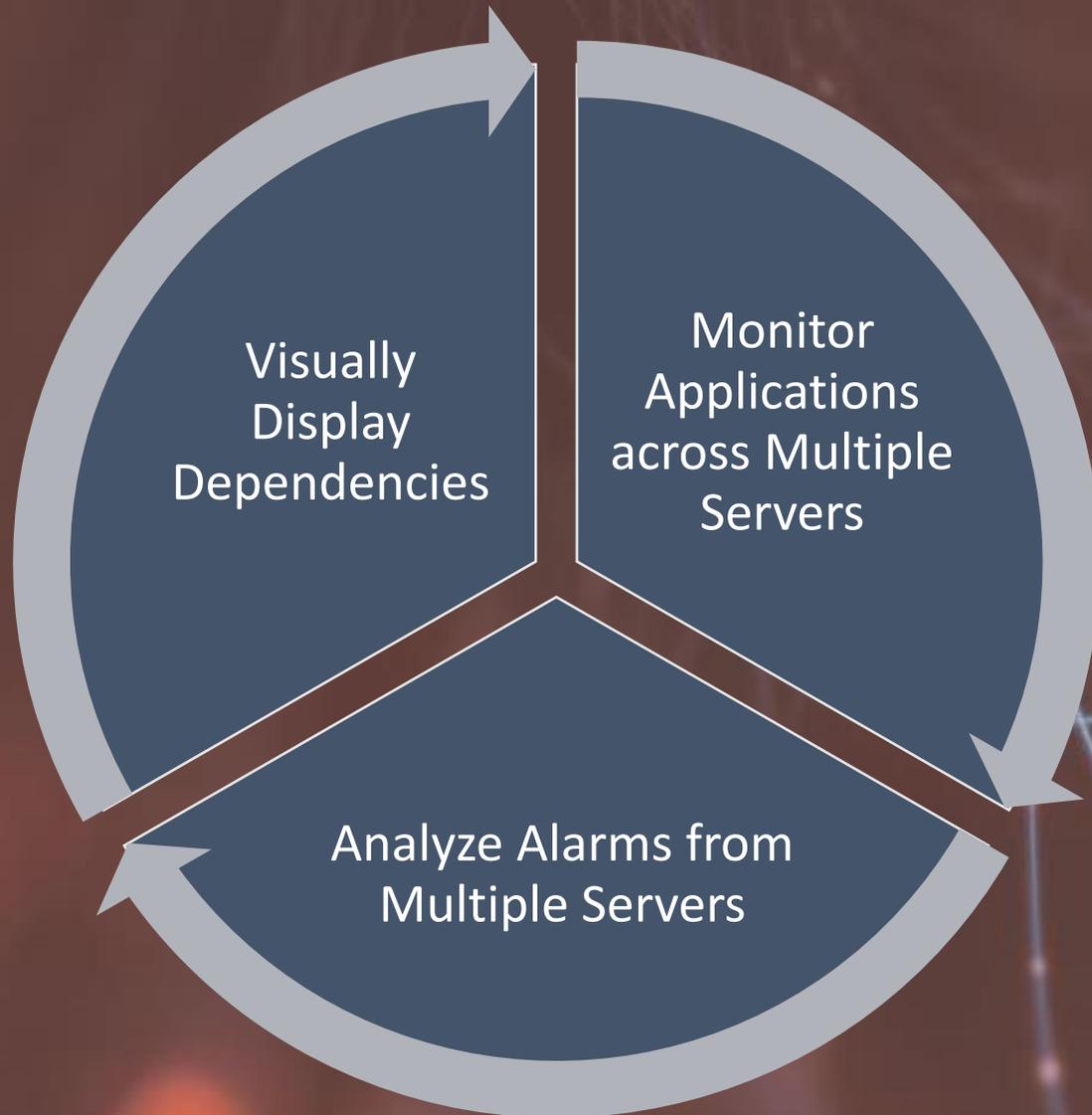
The screenshot shows the 'Application Rules Management' interface. At the top, there are various action buttons like 'Select All', 'Enable', 'Disable', 'Conditions', 'E-Mails', 'Escalation', 'Blackouts', 'Data Driven', 'Time Driven', and 'Schedule Driven'. Below this is a table with columns: Application / Tier / Rule Name, Enabled, Registry Variables, Conditions, E-Mails, E-Mail Escalation, Has Blackout Schedules, Triggering Type, and Behavior. The table lists several rules under 'Demo 1 App', including 'app', 'app (Hosts)', 'Database', 'Database (Hosts)', 'Firewall', 'Firewall (Hosts)', and 'Firewall (Services)'. A red arrow points to a green plus icon next to 'Database', which has opened a dialog box titled 'Create Rule for Database - Select Metric'. This dialog box contains a search bar and a table with columns: Metric Name, Unit, Topology Type, and Display Name. The table lists 'cpu_utilization_percent_pso_advanced_admin_app' with unit 'percent' and topology type 'FSMChildService'.

This screenshot shows the configuration window for a rule. The 'Rule Name' field is empty. The 'Metric / Value' dropdown is set to 'cpu_utilization_percent_pso_advanced_admin_app'. Below this, the rule is configured with a severity level of 'Fatal' and a message field. There are also sections for 'Critical' and 'Warning' severity levels. At the bottom, there are two lists: 'Available Rule Variables' and 'Available System Variables'. The 'Available Rule Variables' list includes 'metricValue', 'metricValue#', 'objectName', 'hostname', and '_DomainRoot_'. The 'Available System Variables' list includes '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', and 'foglight_severity_level_name'. A red arrow points from the 'Create Rule' button in the bottom right of the dialog box in the previous screenshot to the 'Create Rule' button in this window.

This screenshot shows the 'Template Rules Management - Local FMS' interface. It has a similar layout to the 'Application Rules Management' interface, with a table of rules and various action buttons. The table lists rules under 'Demo 1 App', including 'App', 'App (Hosts)', and 'Database'. A red arrow points to a green plus icon next to 'Database', which has opened a dialog box. The dialog box has a 'Create Rule' button and a 'Cancel' button. A red arrow points from the 'Create Rule' button in this dialog box to the 'Create Rule' button in the configuration window in the previous screenshot.



Application
Operations Console



Applications Operation Console



Advanced Administration Applications Operation Console

Application
Operations Console

The screenshot displays the Application Operations Console interface. On the left, a sidebar shows a tree view of 'Foglight Servers' with 'Local FMS' selected. The main area is titled 'Alarm Impact: Multiple Servers Selected' and features a 'Select Applications' table. Below this, a 'Tier Visualization' section shows a dependency graph with nodes for 'User (Hosts)', 'Firewall (Hosts)', 'Web (Hosts)', and 'Router'. A detailed table for the selected application is also visible.

Total Impacted Applications	Aggregate	Health	Local	SLA	Name	Alarms			Combined Tiers					
0	✖	✔	✖	✖	Demo 1 App	1	14	21	👤	🌐	📄	🗄️	🖨️	📊

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			



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





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