



# Advanced Administration



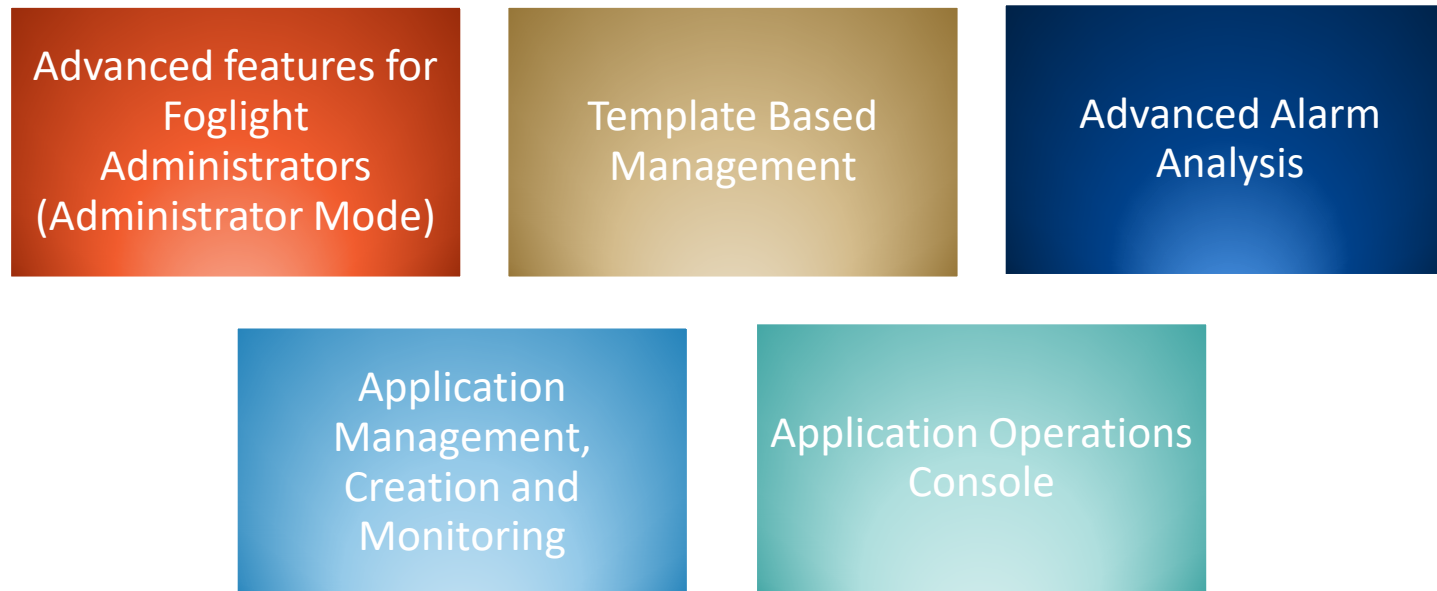
- LightSpeed PM – A Certified Quest Partner

Quest™

Updated 08-03-2020

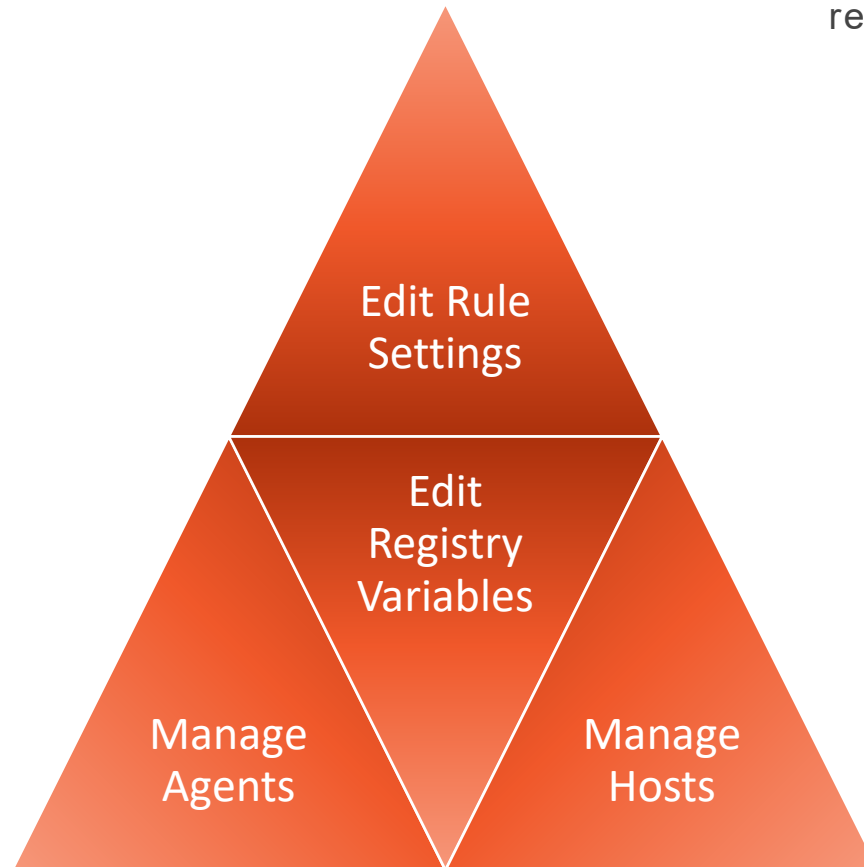
# Advanced Administration - Solution

- Advanced Administration is an “agentless” solution that requires minimal setup, and can be broken down into 5 primary feature sets:



# Administrator Mode

The Advanced Administration Administrator Mode features an enhanced User interface and ability remotely manage your remote Foglight Management Servers to:



Advanced features for  
Foglight  
Administrators  
(Administrator Mode)

# Administrator Mode - Rules

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							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
<input type="checkbox"/> Catalyst Server							CatalystServer
<input type="checkbox"/> Catalyst Server							CatalystServer).jvm
<input type="checkbox"/> Catalyst Alarm Service							CatalystAlarmService
<input type="checkbox"/> Catalyst Topology Rollup Service							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

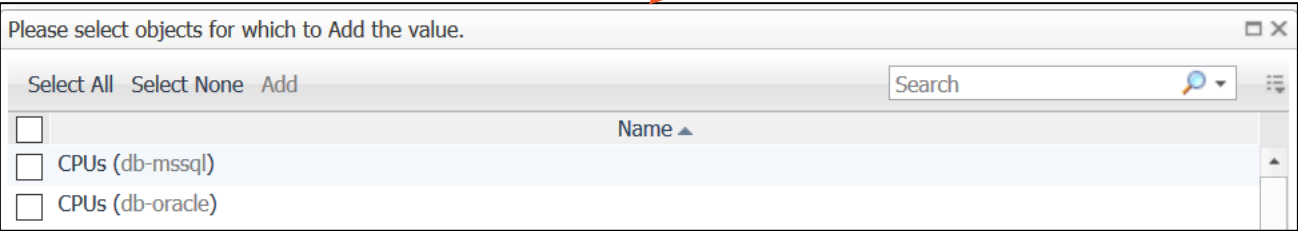
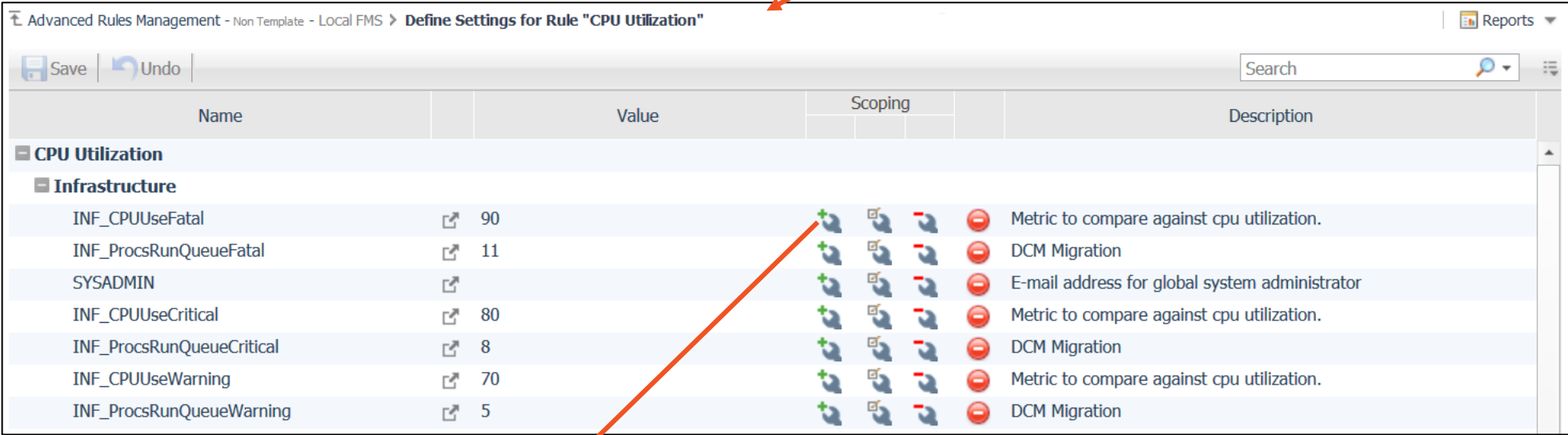
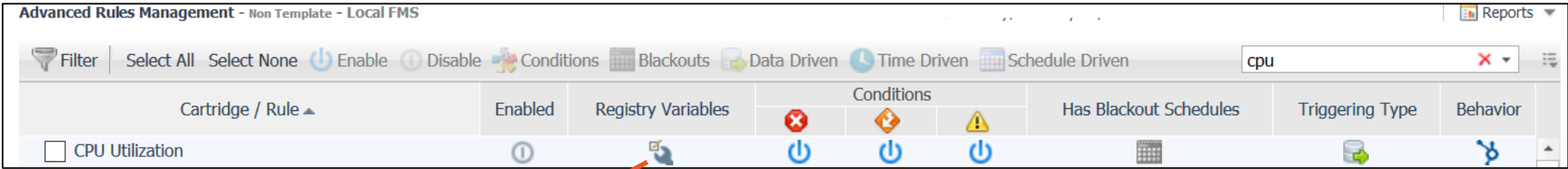
☐ Fire action if  out of  evaluations are true

☐ Wait at least Hours  Minutes  Seconds

Apply Cancel

Advanced features for  
Foglight  
Administrators  
(Administrator Mode)

# Administrator Mode – Rule Registry



Advanced features for  
Foglight  
Administrators  
(Administrator Mode)



# Administrator Mode - Registry

▼ Bookmarks

There are no bookmarks

▶ Homes

▶ Dashboards

▼ Foglight Servers

Local FMS

Sea

▼

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

Advanced features for  
Foglight  
Administrators  
(Administrator Mode)

# Administrator Mode - Agents

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

Advanced features for  
Foglight  
Administrators  
(Administrator Mode)

# Administrator Mode - Hosts

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
--------------	--------------	----------------

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

Linux

Solaris

windows

Infrastructure Utilities

Windows Events

File Log

Ping

URL

Databases

DB2

SQL Server

Oracle

Oracle RAC Instance

Databases (Open Source)

Cassandra

Mongo DB

MySQL

Postgre SQL

UnixAgent

UnixAgentPlus

UnixAgentPlus

WindowsAgent

WindowsEventLogMonitorAgent

FileLogMonitorAgent

NetMonitorAgent

WebMonitorAgent

DB\_DB2

DB\_SQL\_Server

DB\_Oracle

DB\_Oracle\_RAC\_Instance

CassandraAgent

MongoDBAgent

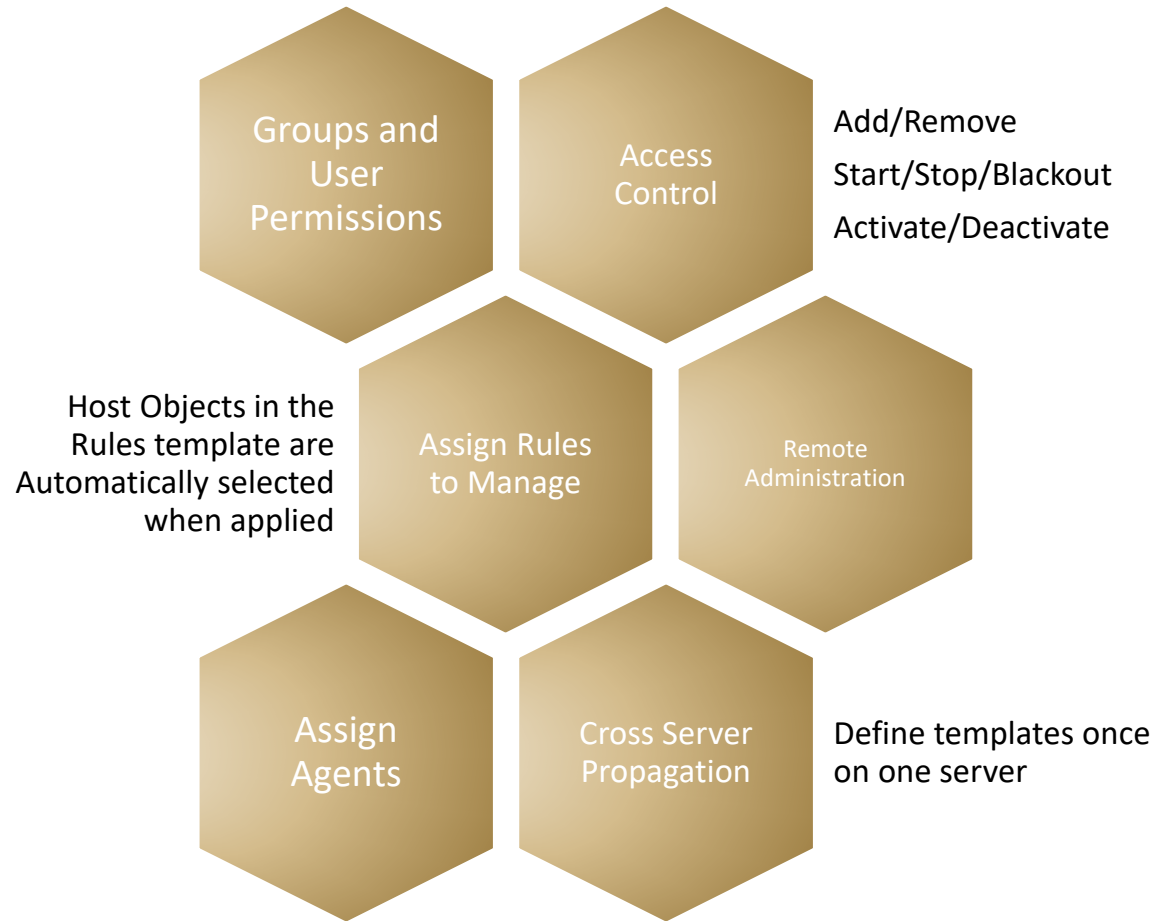
MySQLAgent

PostgreSQLAgent

Advanced features for  
Foglight  
Administrators  
(Administrator Mode)



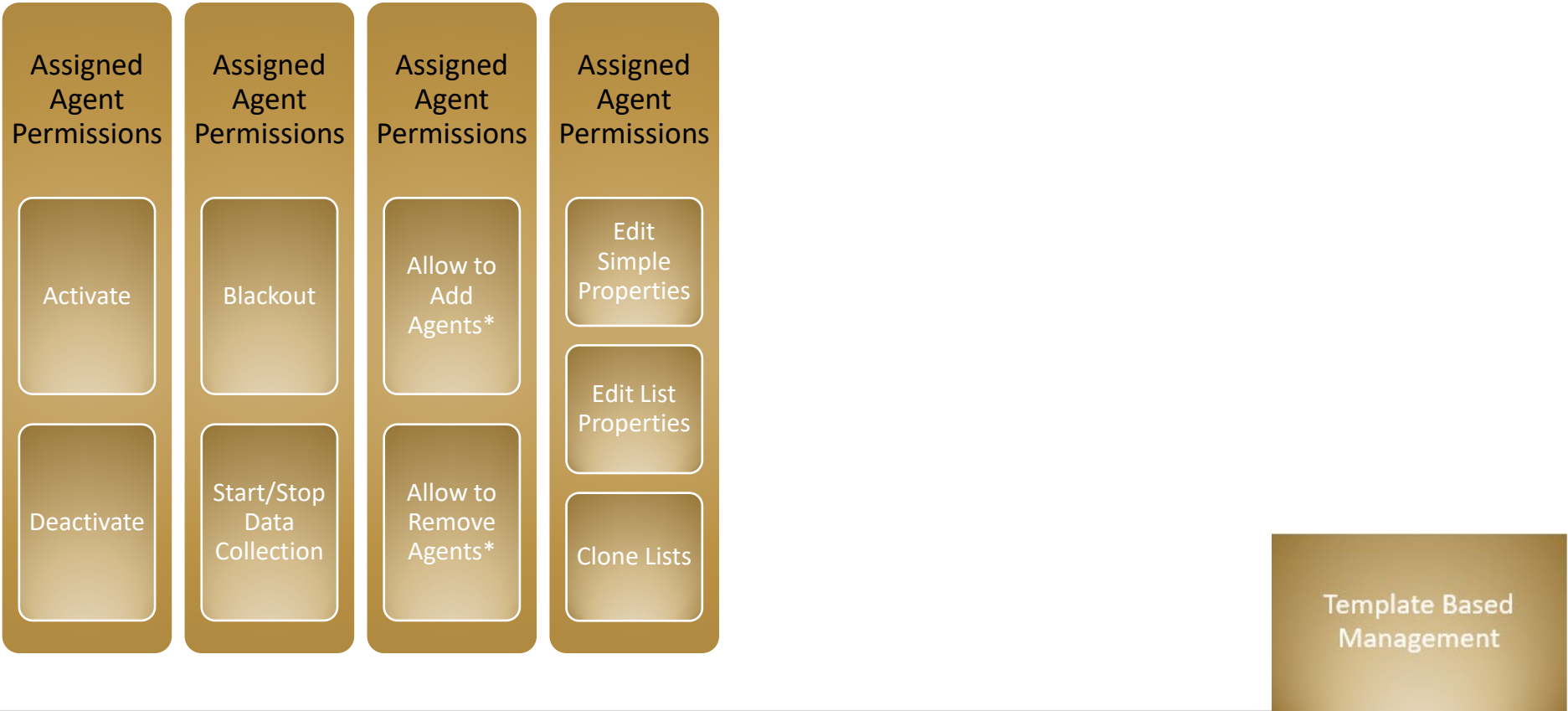
# Template Based Management



Template Based Management

# Access Control

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



# Access Control (continued)

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

Template Based Management

# Templates UI – Access Control

Template Definitions

Add Save Undo Rebuild All Templates Select All Select None Delete

Search

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

Groups Selector - Demo 1

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

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

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

Template Based Management

# Templates UI – Assign Hosts

Template Definitions

AddSaveUndoRebuild All TemplatesSelect AllSelect NoneDelete

Name

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 OnlyDefault to All HostsClearAdd HostsAdd Remote HostsAll Hosts (Targeted)SubmitAdd to Existing

On Current FMS

fms-admin

Hosts Queries - Demo 1

ClearNew QuerySelect AllSelect NoneSubmit

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

controllingDomainRoot

cpus

discoveryStatus

domainName

controller

controllingDomainRoot

cpus

discoveryStatus

domainName

Template Based  
Management

13

Confidential

Quest

# Templates UI - Assign Agents

Template Definitions

Add

Save

Undo

Rebuild All Templates

Select All

Select None

Delete

Search

	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

Template Based  
Management



# Templates UI - Assign Rules

Template Definitions

Add

Save

Undo

Rebuild All Templates

Select All

Select None

Delete

Search

	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
				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	

Template Based Management

# Agent Management UI

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 shows 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 titled 'Auto Undeploy SQL Instance - DB\_SQL\_Server'. The modal contains a warning message, checkboxes for 'Delete Data' and 'Remove Credential Mapping', and fields for 'Target Host' and 'Instance'.

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

**Buttons:** Undeploy, Cancel

Template Based  
Management

# Agent Management UI - Edit

Advanced Agents Management - Local FMS

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

Agent		ID	Current State	Active	Collecting Data	Edit Properties	Has Blackout Schedules	Auto Undeploy
<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

Simple Properties

- ☒ Collect system 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 log events
- ☒ Report only aggregate process metrics
- ☒ Collect Top N Process Details
- ☐ Use ping to validate host availability

Collect only specified services

Excluded Drives defaultExcludedDrives

Process Availability Config defaultProcessAvailabilityConfig

Filesystem Type Config defaultFilesystemTypeConfig

List Properties Edit Clone

Edit Clone

Template Based  
Management

# Host Management UI

The screenshot displays the 'Advanced Hosts Management' interface. On the left, a sidebar shows 'Foglight Servers' with a list of hosts: 'fms-5756 8080' (selected) and 'fms-admin 8080'. The main area features a table of hosts with columns: Name, On Current FMS, Templates, Auto Undeploy, and Auto Deploy. A modal window titled 'Deploy Agent Type WindowsAgent' is open, showing fields for 'Target Cluster' (fms-dev), 'Target Hostname' (db-mssql), 'IP Address', 'Is Virtual', 'Processes', and 'Services'. A red arrow points from the 'Auto Deploy' column of the 'db-mssql' row to the 'Deploy Agent' button in the modal. To the right, a 'Host Agents' panel lists various agents categorized by OS and utility.

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:**

**Host Agents**

OS	Agent
AIX	UnixAgent
Linux	UnixAgentPlus
Solaris	UnixAgentPlus
Windows	WindowsAgent
<b>Infrastructure Utilities</b>	
Windows Events	WindowsEventLogMonitorAgent
File Log	FileLogMonitorAgent
Ping	NetMonitorAgent
URL	WebMonitorAgent
<b>Databases</b>	
DB2	DB_DB2
SQL Server	DB_SQL_Server
Oracle	DB_Oracle
Oracle RAC Instance	DB_Oracle_RAC_Instance
<b>Databases (Open Source)</b>	
Cassandra	CassandraAgent
Mongo DB	MongoDBAgent
MySQL	MySQLAgent
Postgre SQL	PostgreSQLAgent

Template Based  
Management

# Rule Management UI

The screenshot displays the 'Template Rules Management - Local FMS' interface. At the top, there is a toolbar with buttons for 'Create Rule', 'Filter', 'Select All', 'Select None', 'Enable', 'Disable', 'Conditions', 'E-Mails', 'Escalation', 'Blackouts', 'Data Driven', 'Time Driven', and 'Schedule Driven'. Below the toolbar is a table of rules. The first rule is 'CPU Utilization' and the second is 'Demo 1 CPU Utilization'. The table has columns for 'Non Targeted Rule / Template Rule', 'Enabled', 'Registry Variables', 'Conditions', 'E-Mails', 'E-Mail Escalation', 'Has Blackout Schedules', 'Triggering Type', and 'Behavior'. Red arrows point from specific icons in the 'Demo 1 CPU Utilization' row to four configuration dialog boxes:

- Email Inputs - CPU Utilization (Non Target Template):** This dialog box contains fields for 'Recipient' (with a 'Use Default' checkbox), 'CC' (with a 'Use Default' checkbox), 'Subject' (with a text input field containing '@\_DomainRoot\_: @foglght\_severity\_level\_name: @foglght\_rule\_name'), and 'Message' (with a 'text/plain' dropdown and a text input field containing '@\_Text\_'). It also includes a note: 'Please use the following URL to obtain alarm details: @foglght\_rule\_alarm\_link'.
- Email Escalation Inputs - CPU Utilization (Demo 1):** This dialog box contains fields for 'Recipient' (with a 'Use Default' checkbox), 'CC' (with a 'Use Default' checkbox), and 'Time' (with a 'Use Default' checkbox and a text input field). It includes buttons for 'Apply Selectively', 'Apply', and 'Cancel'.
- Time Driven Inputs - CPU Utilization (Non Target Template):** This dialog box contains input fields for 'Hours' (0), 'Minutes' (0), and 'Seconds' (0). It also has a checkbox for 'Trigger Without Data' and buttons for 'Apply' and 'Cancel'.
- Behavior Inputs - CPU Utilization (Demo 1):** This dialog box contains three options: 'Fire action if 3 consecutive evaluations are true' (checked), 'Fire action if 0 out of 0 evaluations are true' (unchecked), and 'Wait at least Hours 0 Minutes 0 Seconds 0' (unchecked). It includes buttons for 'Apply' and 'Cancel'.

Below the 'Email Inputs' dialog box, there is a link: 'Click to view available variables... (common ones when multiple rules are selected)'. Below this link, it says: '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'.

At the bottom right, there is a gold box with the text: 'Template Based Management'.

# Rule Management UI – Rule Registry

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

Save Undo Search

Name	Value		Description
<b>CPU Utilization</b>			
<b>Demo 1</b>			
<b>Thresholds</b>			
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
<b>Email</b>			
<b>CC</b>			
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.
<b>TO</b>			
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.
<b>Escalation</b>			
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)
<b>Time</b>			
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.

Template Based  
Management



# Rule Management UI – Rule Creation

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 or/and Warning
- Variable support in messages

Template Based  
Management

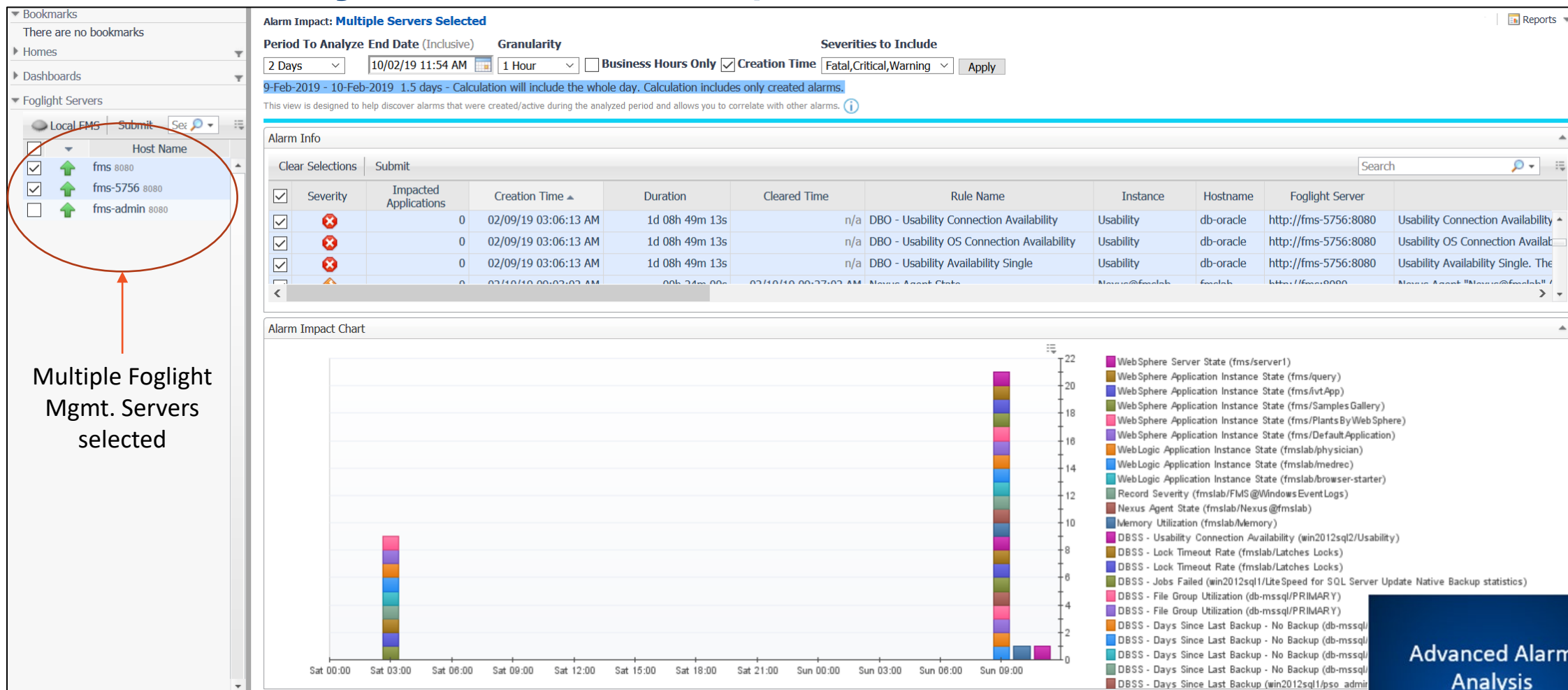
# Alarm Analysis



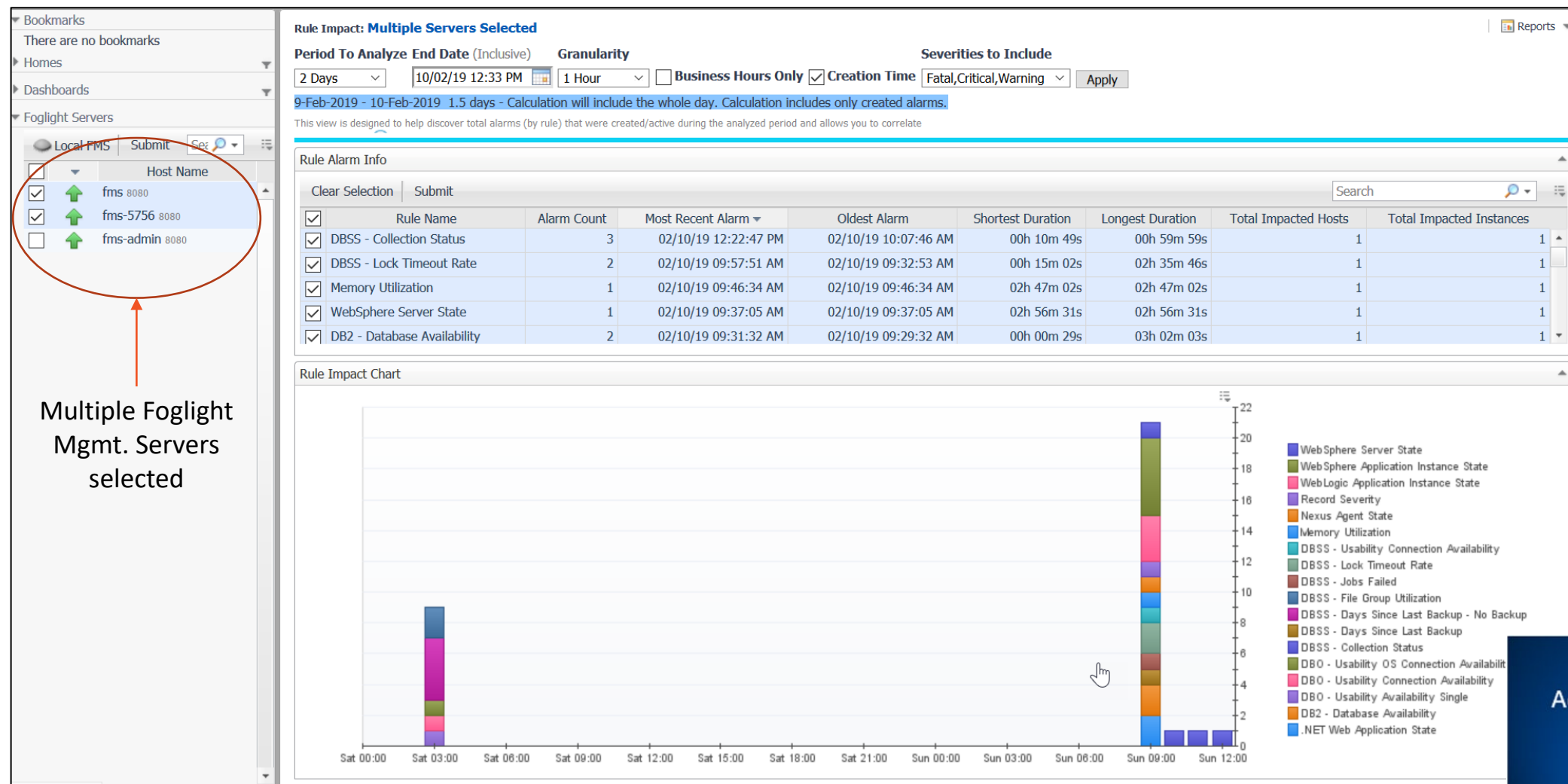
Analyze alarms based on Severity & Time Frame	<ul style="list-style-type: none"><li>• Identify Active Alarms created during analysis period</li><li>• Assist with correlation to other alarm</li></ul>
Analyze alarms per Rule	<ul style="list-style-type: none"><li>• Identify Alarms (by Rule) that were active/created during the analysis period</li><li>• Correlate to other rules that are alerting</li></ul>
Display in a graph	<ul style="list-style-type: none"><li>• Evaluate the impact of what is generating the alarm</li></ul>
Drill down	<ul style="list-style-type: none"><li>• Look at the alarms represented in the bar graph</li></ul>
Analyze Alarms across multiple Foglight Management Servers	<ul style="list-style-type: none"><li>• Harness Foglight's power the way it was meant to be used in a large environment</li></ul>

Advanced Alarm Analysis

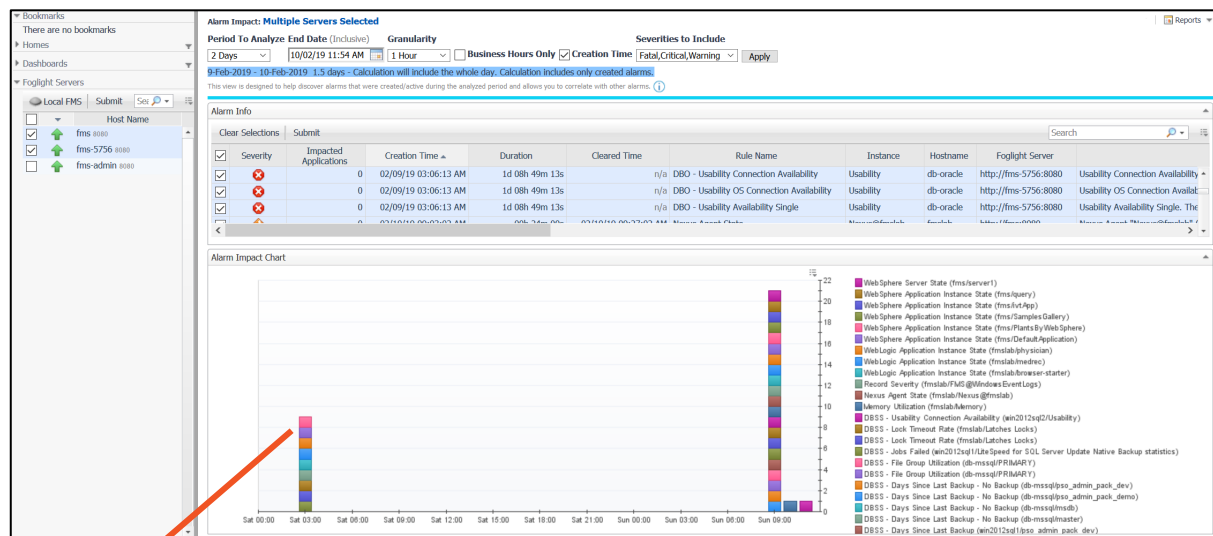
# Alarm Analysis – Alarm Impact



# Alarm Analysis – Rule Impact



# Alarm Analysis – Bar Alarms



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

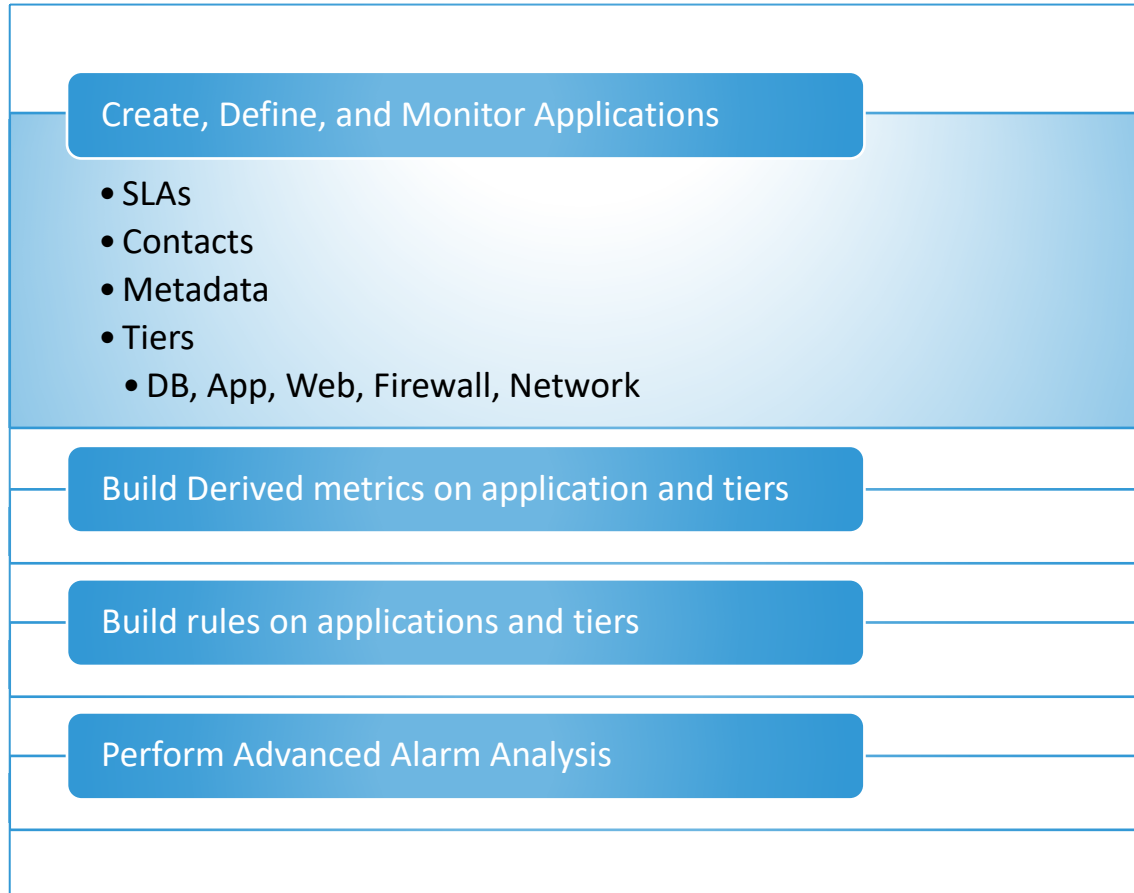
Alarm Impact: **Multiple Servers Selected** > Alarm Info for Remote Server: Multiple Servers Selected

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	①	①	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 could not be established.
✖	02/09/19 03:06:13 AM	①	①	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 Oracle connection.
⚠	02/09/19 03:06:03 AM	①	①	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.
⚠	02/09/19 03:06:03 AM	①	①	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.
⚠	02/09/19 03:06:03 AM	①	①	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.
✖	02/09/19 03:06:13 AM	①	①	DBO - Usability Availability Single	http://fms-5756:8080	Usability	db-oracle Usability Availability Single. The Instance null is down
⚠	02/09/19 03:06:03 AM	①	①	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	pso_admin_pack_demo	db-mssql Days Since Last Backup - No Backup. Database psd_admin_pack_demo has never been backed-up.
⚠	02/09/19 03:06:04 AM	①	①	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.
⚠	02/09/19 03:06:03 AM	①	①	DBSS - Days Since Last Backup - No Backup	http://fms-5756:8080	pso_admin_pack_dev	db-mssql Days Since Last Backup - No Backup. Database psd_admin_pack_dev has never been backed-up.

Advanced Alarm  
Analysis

# Application Management



Application Management lets you build an Application Container/Definition for each critical application right inside Foglight, allowing you define, track, report, alert, and perform advanced analysis on all aspects of its performance.

Application  
Management, creation  
and monitoring



# Application Definitions

Application Definitions										
<span>Add</span> <span>Save</span> <span>Undo</span>   <span>Rebuild All Applications</span>   <span>Select All</span> <span>Select None</span> <span>Delete</span> <span style="float:right;">Search</span>										
<input type="checkbox"/>	Name ▲	Parents		Priority	Tiers	Contacts	Metadata	Service Level Policy (Alerting)		
		Category	Service							
<input type="checkbox"/>	Demo 1 App	All Applications			6 Tiers	No Contacts Defined	No Metadata Defined	70.0	85.0	95.0

The screenshot displays the 'Tiers for Demo 1 App' interface. The main window shows a list of services (User, Firewall, Web, Router, App, Database) and a table of topology types. A 'Tier Firewall Position' dialog is open, showing a list of positions (1-35) with a user icon at position 11. A 'Tier Database Type Selector' dialog is also open, showing a list of database types (User, Firewall, Web, Router, App, Database) with a database icon at position 11. A 'Topology Types Queries - Firewall' dialog is open, showing a list of queries (Exists on Current FMS, FTRTransactionResult, GenericSNMPAgentInfo, Host, HostAgent, HostCPUs, HostNetwork, HostService, HostStorage) with a 'Host' query selected.

**Tier Database Type Selector**

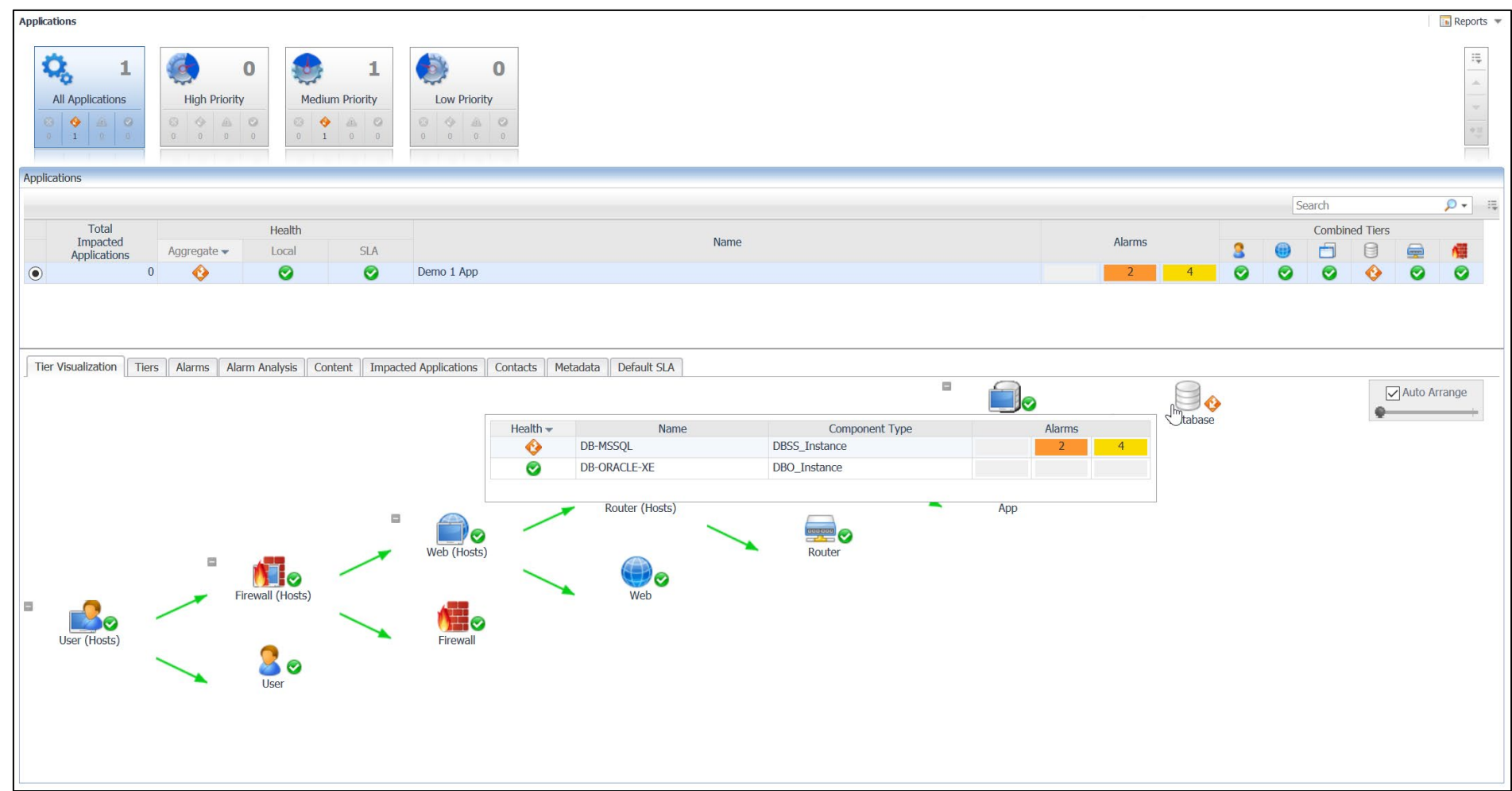
Position	Type
1	User
2	Firewall
3	Web
4	Router
5	App
6	Database
7	Database
8	Database
9	Database
10	Database
11	Database
12	Database
13	Database
14	Database
15	Database
16	Database
17	Database
18	Database
19	Database
20	Database
21	Database
22	Database
23	Database
24	Database
25	Database
26	Database
27	Database
28	Database
29	Database
30	Database
31	Database
32	Database
33	Database
34	Database
35	Database

**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

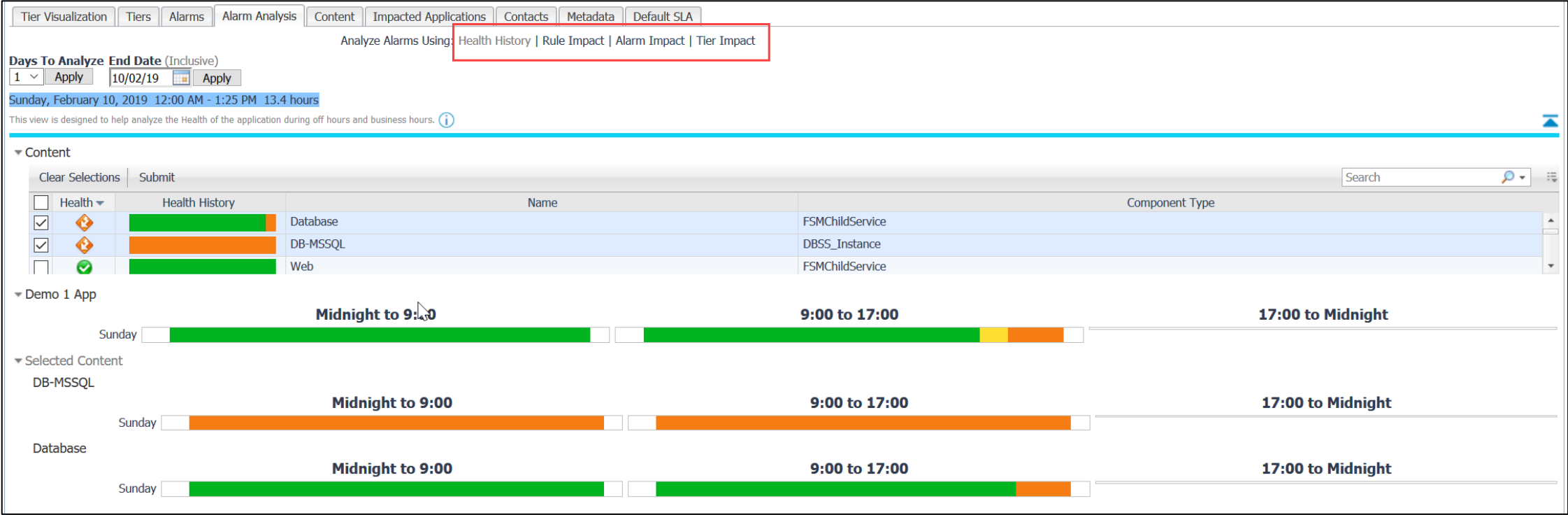
Application Management, creation and monitoring

# Application Monitoring



Application  
Management, creation  
and monitoring

# Application Alarm Analysis



Application  
Management, creation  
and monitoring

# Application Ticket Creation

- Integration with the PSO Integration Cartridges (subset displayed below) allowing for a user to open a ticket manually if the need arises.

Tier VisualizationTiersAlarmsAlarm AnalysisContentImpacted ApplicationsContactsMetadataDefault 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

☐ S...

☐ Email

☐ JDBC

☐ OMi

☐ ServiceNow

☐ XML

☐ Zenoss

ck'd	Cleared	Host	Instance	Message	Origin	Agent	Agent Type
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
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
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
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
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
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

Application  
Management, creation  
and monitoring

# Application Derived Metrics

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

Search

Topology Type

Display Name

DBSS\_Instance

SQL Server Instance

Create Derived Metric for Database - Select Metric

Search

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

1:02 PM

10/02/19

avg (#cpu\_utilization#)

Unit:

percent

Rate:

Trigger:

Create Derived Metric

Cancel

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)

Application Management, creation and monitoring

# Application Rules

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 (click to select new metric)  
#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

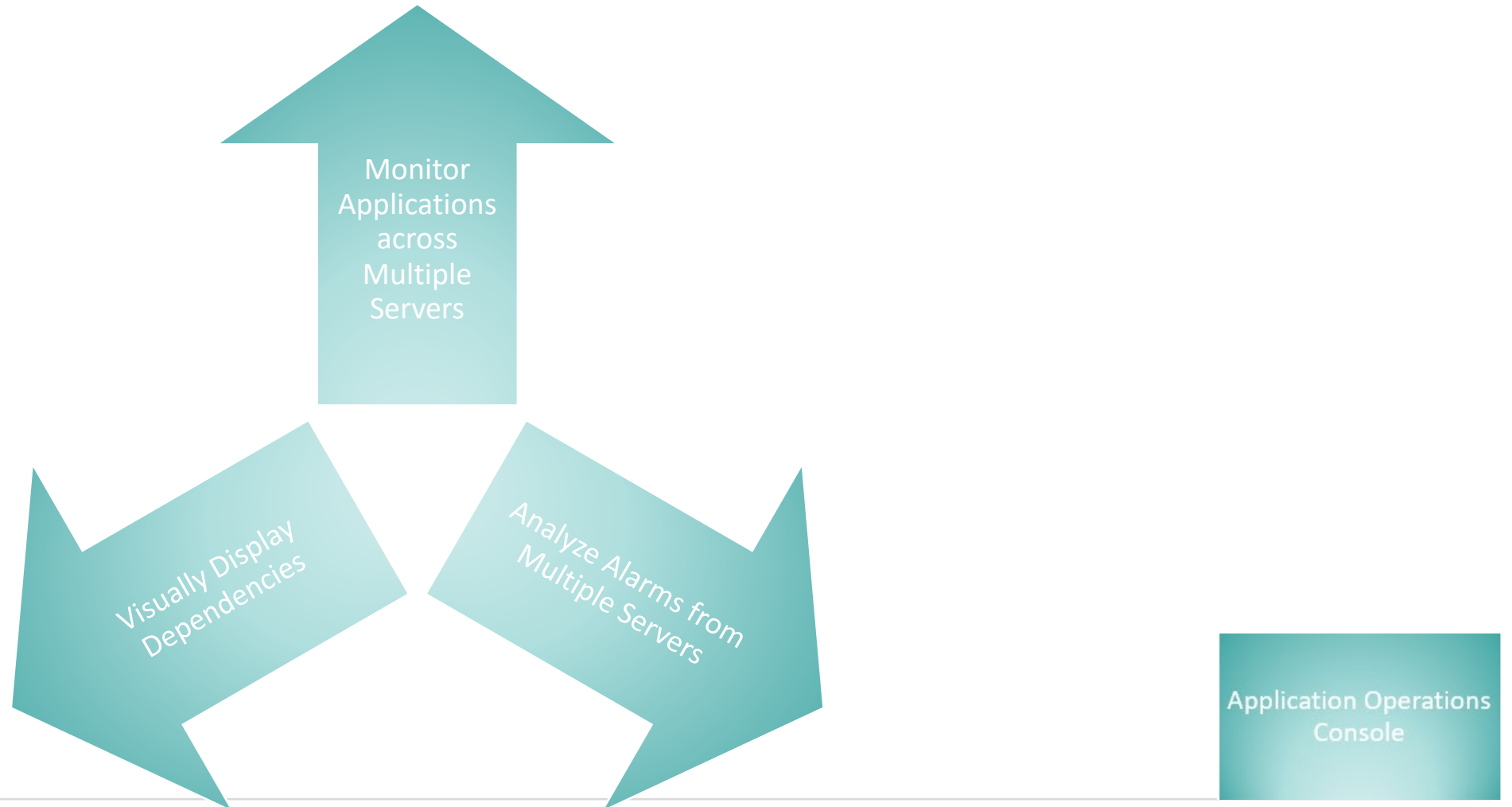
Application / Tier / Rule	Enabled	Registry Variables	Conditions	E-Mails	E-Mail Escalation	Has Blackout Schedules	Triggering Type	Behavior
Demo 1 App	+							
App	+							
App (Hosts)	+							
Database	+							

Demo Rule CPU

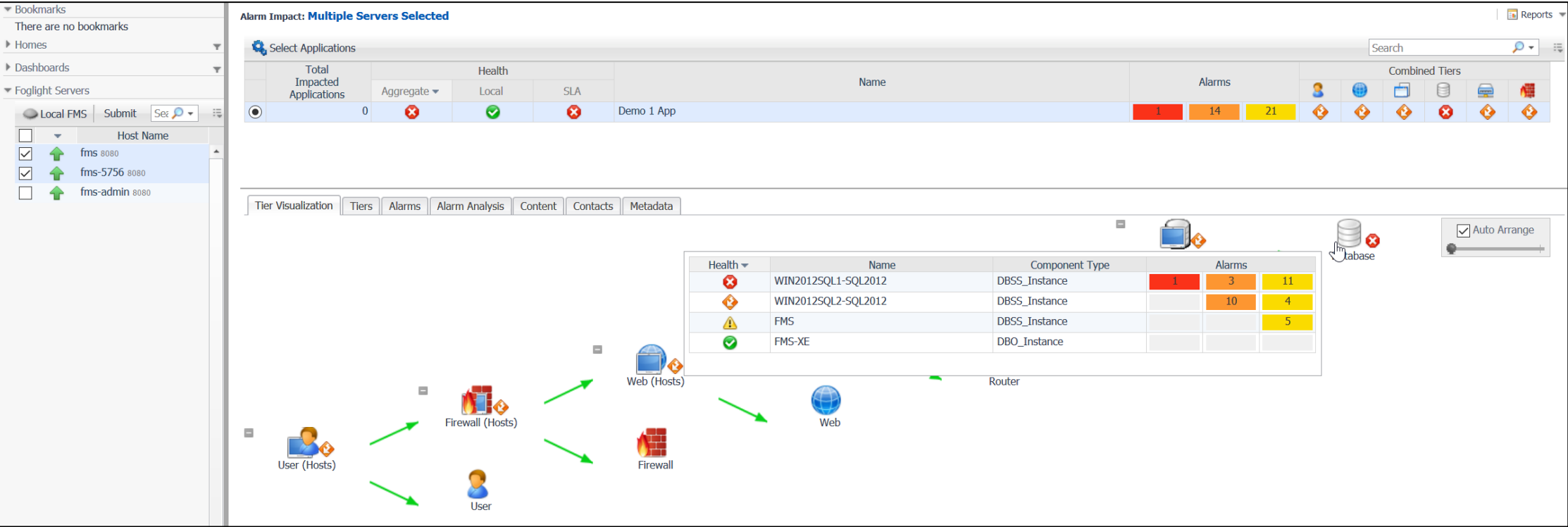
Application Management, creation and monitoring



# Applications Operation Console



# Advanced Administration – Applications Operation Console



Application Operations  
Console

# Advanced Administration – System Requirements

- **Minimum required FMS version**

5.9.3

- **Supported Databases**

Microsoft SQL

Oracle

MySQL

PostgreSQL

## **Minimum Version**

2008 (version 10.0.1600 or later)

9i R2

5.1.45

9.4.0