



Auto-Deploy/Un-deploy



- LightSpeed PM – A Certified Quest Partner

Quest™

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Auto-Deploy / Un-deploy – The Solution

Automation of agent deployment and removal has long been desired by the Foglight user community. Customers have asked for simplification, with less headache for clean-up, and a way to keep up with agents without having to build a mountain of spreadsheets. We provide this and more!

- Keep Foglight Management Servers (FMS) in sync with existing infrastructure monitoring needs
- Sync your FMS with a CMDB or just a list
 - Ensure the FMS is monitoring active servers when added
 - Ensure monitoring stops when servers are decommissioned
- Automate user requests for monitoring or requests to stop monitoring.
- Ensure that FMS servers are not being overloaded.
- Manage Foglight Agent Managers (FglAM) and what is being deployed on them.

Highlights

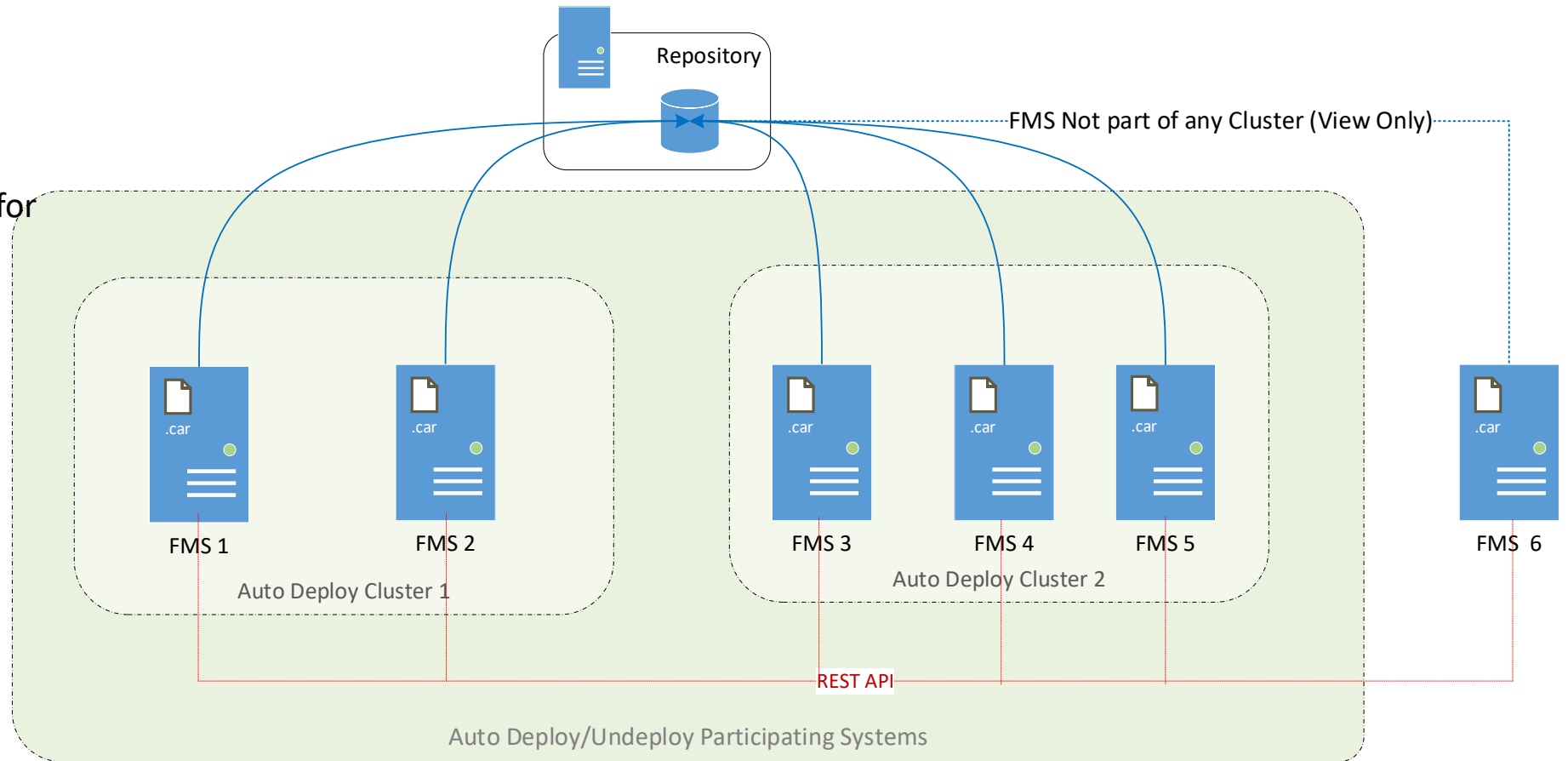
- Easy to deploy and user friendly, with lots of options
- **Remotely Administer** the solution across servers
- Deploy and configure agents with no user intervention.
- Stop monitoring systems hands free
 - Delete all data and remove credential mappings with no user intervention
- Cluster the servers in order to target groups of servers when deploying agents.
- Monitor the status of tasks from any FMS.
- Manage which agent types gets deployed on which FGLAMs.
- Leverage Groovy APIs to allow any type of integration.

Highlights (cont'd)

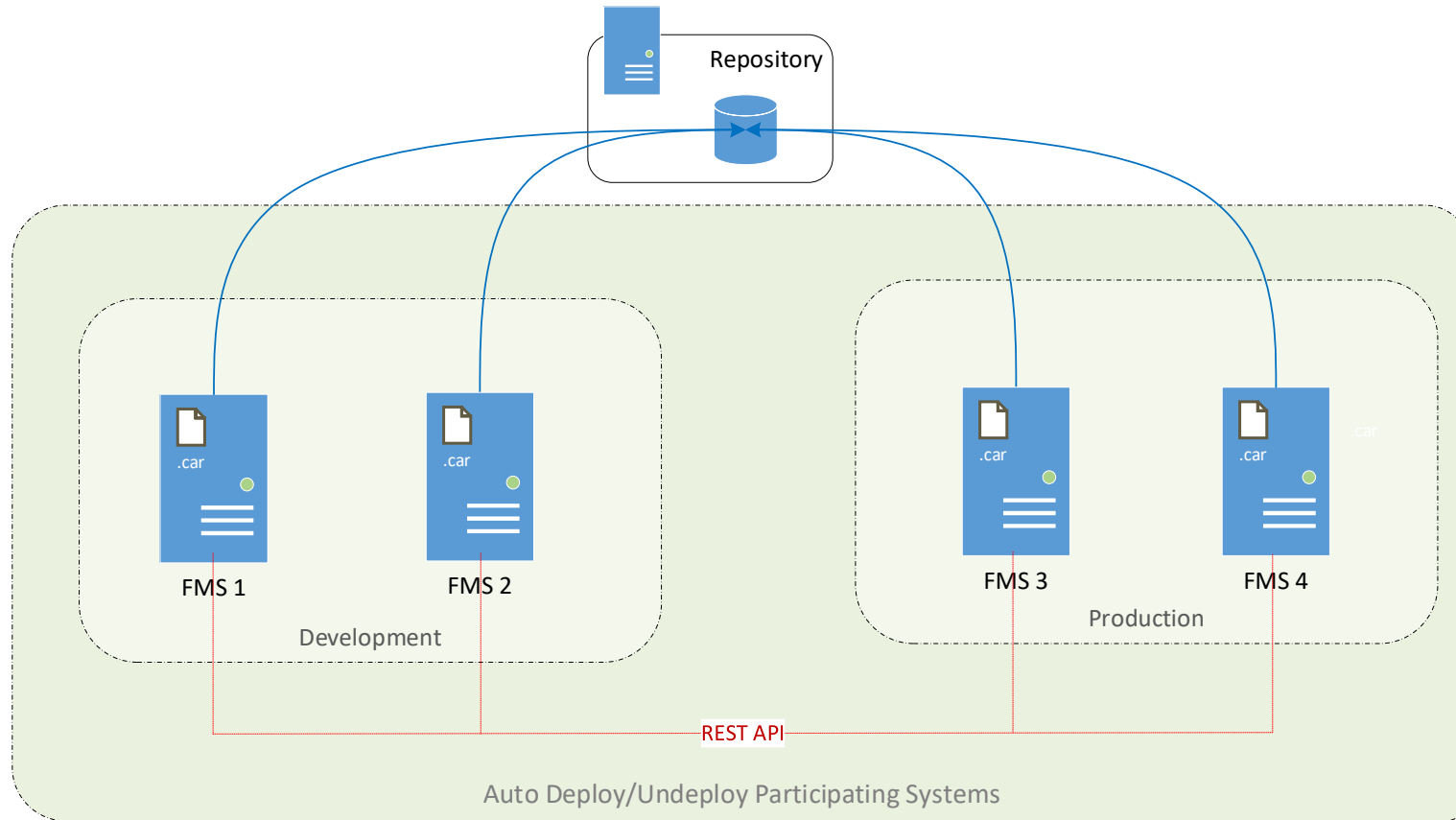
- Receive alerts on failures.
- Obtain and audit trail of all activities.
- Insert Tasks using provided Groovy APIs
 - Combined with Foglight REST API provides lots of possibilities.
- Insert Tasks from external sources
 - CSV File
 - JSON File
 - Database
- Flow Injection

Overview

- Simple Cartridge Deployment
- No agents required
- Everything is DB driven
- Clustering is supported for Auto-Deploy
- Clusters are not supported for Auto Un-deploy (Opt. in or Opt. out)

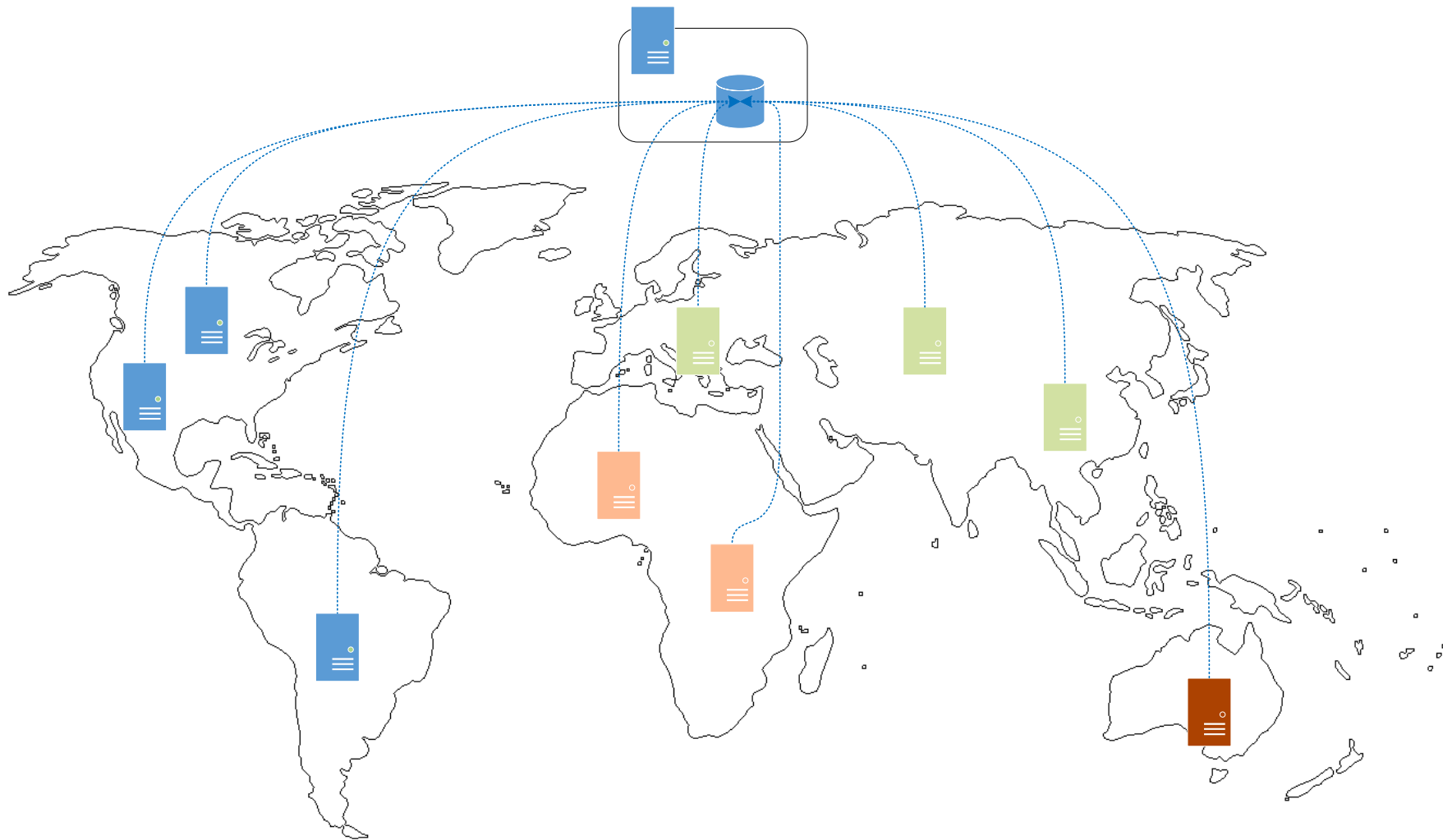


Use Case 1 – Manage Prod and Dev separately





Use Case 2 - Simplified view of the Auto-Deploy Flow



Auto Deploy - Flow

Cluster Tasks

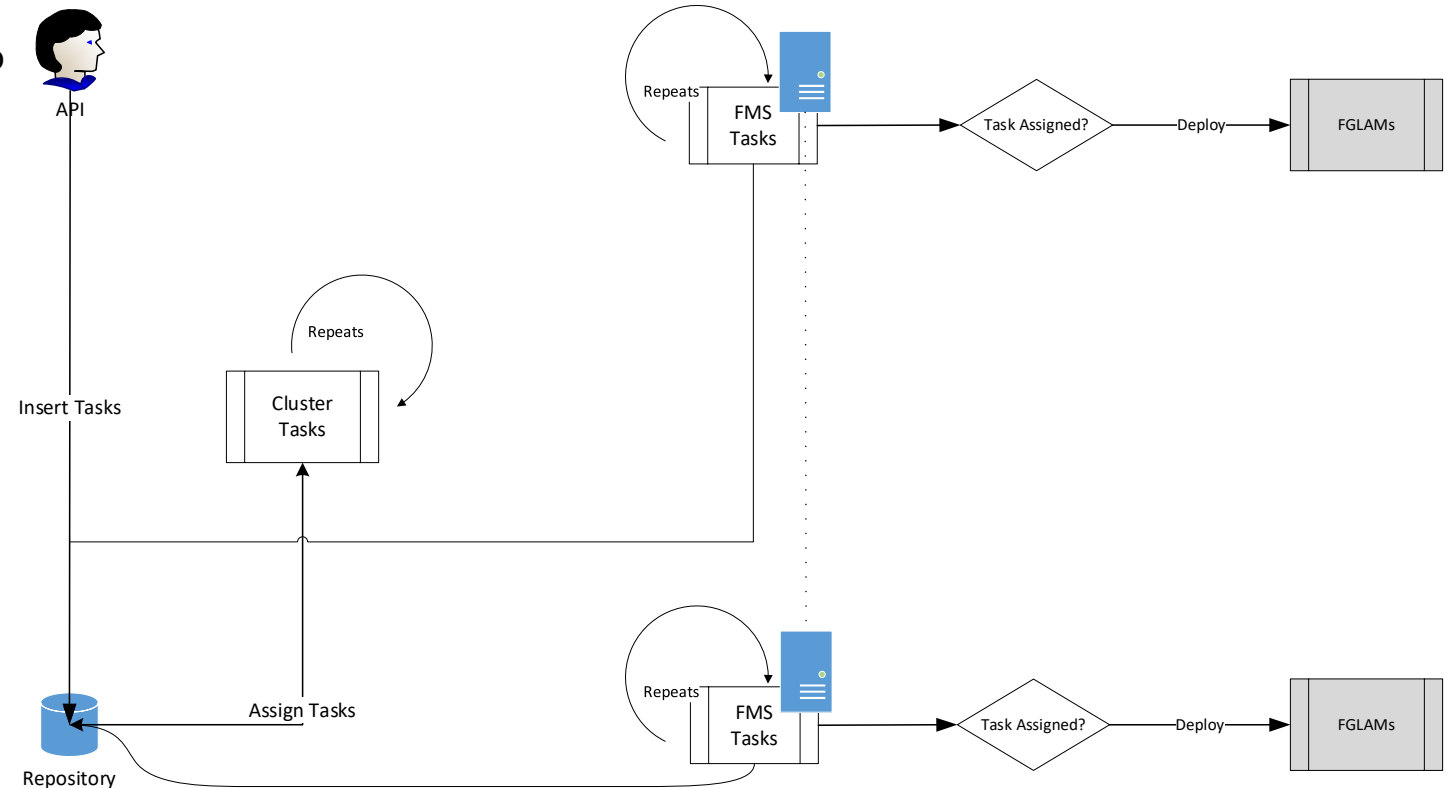
- Assigns Tasks based on load and agent types assigned to FGLAMs
- Depending of agent being deployed may assign to a specific FMS or FGLAM

FMS Tasks

- Calculates Load of FMS and FGLAMs
- Validates participating FGLAMs
- Track Deployed items
 - Hosts
 - Oracle RACs
 - SPI Repositories
 - SPI Agents

Automated deployment actions:

- Packages are deployed
- Agents are Created
- Agent are Configured
- Resource mapper to Credentials
- Lockboxes deployed



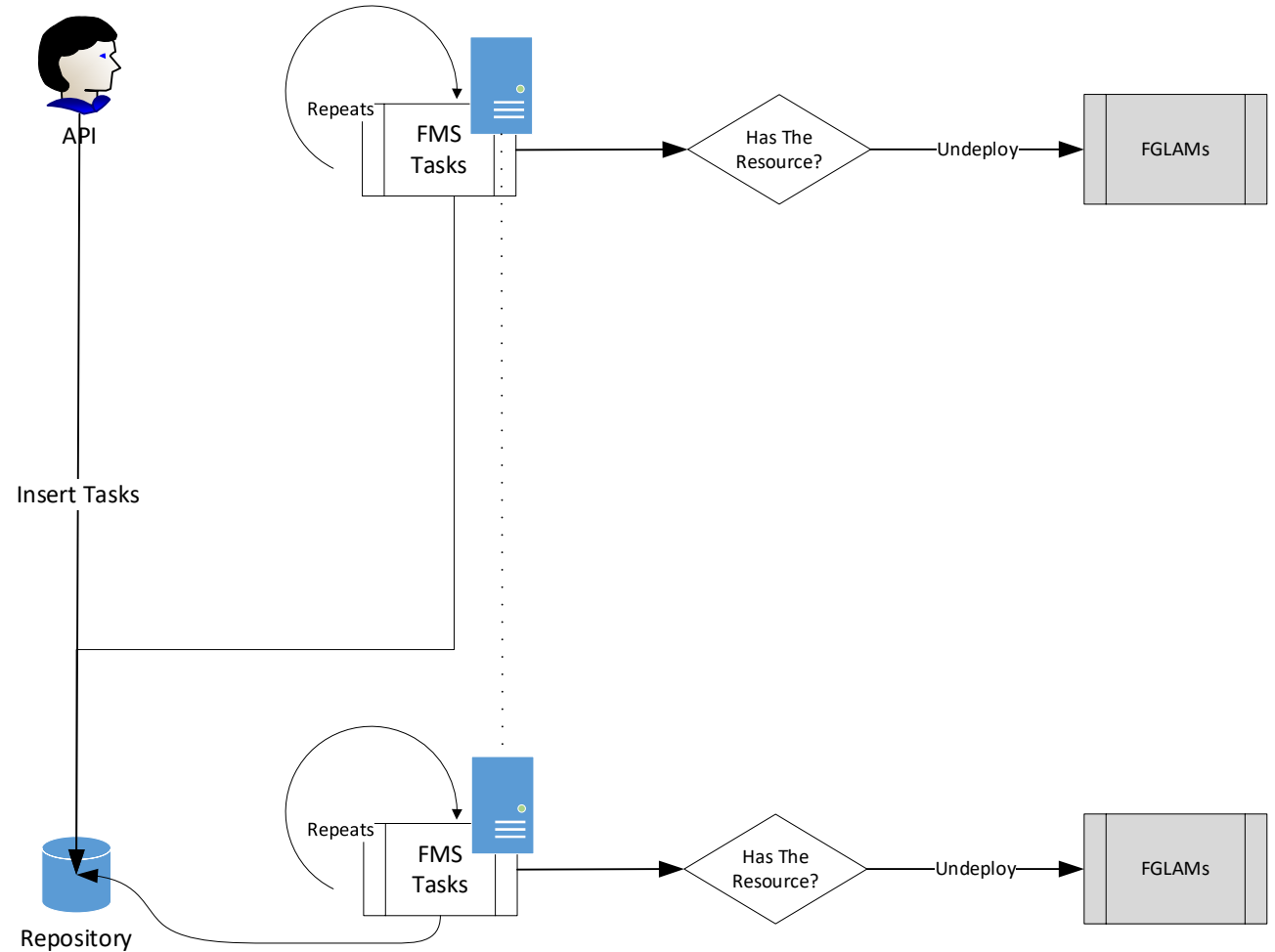
Un-Deploy - Flow

FMS Tasks

- Check if as task targets a host it has
- Executes Un-Deployment

Automated clean-up actions:

- Remove agent
- Remove entries in secondary ASPs
- Delete Data
- Remove Mappings



Supported Agents

Supported Agents	Min Version
Unix Agent Plus	5.8.5.8
Unix Agent	5.7.3
Windows Agent	5.7.3
Multi Host Process Monitor Agent	-
File Log Monitor Agent	5.8.5.8
Windows Event Log Monitor Agent	5.8.5.8
Net Monitor Agent	5.7.0
Web Monitor Agent	5.7.0
PSO Perfmon Agent	2.0.0
PSO WMI Agent	1.0.0
PSO Port Check Agent	2.0.0
PSO SSH Command Agent	2.0.0
Custom Script Agents	-

Supported Agents	Min Version
DB2	5.7.5.50
Oracle SPI	1.7.0
Oracle Agent	5.7.5.50
Oracle RAC Agent	5.7.5.50
Oracle RAC Instance Agent	5.7.5.50
SQL SPI	1.7.0
SQL Server Agent	5.7.5.50
Cassandra	5.7.5.65
MongoDB	5.7.5.65
MySQL	5.7.5.76
PostgreSQL	5.7.5.90

Auto Deploy – Lockboxes/Credentials

- The Auto-Deploy engine supports releasing lockboxes to Agent Managers.
- The Auto-Deploy engine will map resources to the proper credential if provided.
- When deploying URLs to monitor, credentials can be created by the Auto-Deploy engine.
- The Un-Deploy solution supports removing any entry from the mappings of the removed hosts or/and agents.

Agents Automation

- **Host Agents**
 - Ability to specify Physical Host / Virtual Hosts
 - Ability to Automate Process monitoring
 - Ability to Automate Windows Service monitoring
- **File Log Monitor Agent**
 - Automate Target Host Details
 - Automate File Details
 - Automate Pattern Details
- **Windows Event Log Monitor Agent**
 - Automate Target Host details
 - Automate Filter details
- **Net Monitor Agent**
 - Automate Target Host details
- **Web Monitor Agent**
 - Automate URL Details
 - Credential Creation

Agents Automation (Cont'd)

- **DB2**
 - Connection Details
 - OS Monitoring
 - Databases
 - Partitions
- **Oracle SPI**
 - Automate Installation
- **Oracle Agent**
 - Connection Details
 - OS Monitoring
 - Custom Queries (User Collections)
- **Oracle RAC / RAC Instance**
 - RAC Name
 - Connection Details
 - OS Monitoring
- **SQL SPI**
 - Automate Installation
- **SQL Server Agent**
 - Connection Details
 - OS Monitoring
 - Custom Queries (User Collections)
- **Custom Script Agents**
 - Automate deployment

Auto-Deploy – Defining Clusters

Auto Deploy Cluster Settings

Join

Move

DB Settings

Initialize System

Unjoin

Cluster Name:

Host Name (FQDN):

fms

IP Address:

192.168.0.171

Port:

8080

Protocol

http

Is Licensed:

YES

Join Cluster

Choose or enter the name of the cluster to join:

Development

Production

WorldWide

Join

Cancel

14

Auto-Deploy / Un-Deploy

Quest

Auto-Deploy – Changing Settings

Bookmarks

There are no bookmarks

Homes

Dashboards

Foglight Servers

Local FMS

Search

Host Name

fms-593

Auto Deploy Registry Settings - Local FMS

Save Undo Filter

Name	Value	
Agent		
Dot NET		
PSO.AutoDeploy.DotNET.InstallersDir	C:/Quest/Installers/DotNET/	Indicates the path on the host machines where the Auto Deploy DotNET Installers are located.
Infrastructure		
PSO.AutoDeploy.FileLogMonitorAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
PSO.AutoDeploy.NetMonitorAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
PSO.AutoDeploy.PerfmonAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
PSO.AutoDeploy.PortCheckAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
PSO.AutoDeploy.SSHCommandAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
PSO.AutoDeploy.WebMonitorAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
PSO.AutoDeploy.WindowsEventLogMonitorAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
PSO.AutoDeploy.WMIAgent.MaxPerList	100	Used to define the maximum number of entries that one agent can handle. The default is 100.
SQL PI		
PSO.AutoDeploy.SPIRepository.DefaultHome.Unix		Indicates the path on the Unix host machine where the SPIRepository should be located.
PSO.AutoDeploy.SPIRepository.DefaultHome.Windows	C:\Quest\infobright	Indicates the path on the Windows host machine where the SPIRepository should be located.
PSO.AutoDeploy.SPIRepository.MaxAgents	100	Indicates the maximum agents that can be assigned to any given SPI repository.
PSO.AutoDeploy.SPIRepository.Password	*****	Indicates the password for the SPIRepository.
PSO.AutoDeploy.SPIRepository.Port	5029	Indicates the port for the SPIRepository.
Agent Creation		
PSO.AutoDeploy.Agent.Creation.CloneAssignedDefaultSecondaryASP	false	When creating or configuring agents there is a need to create custom secondary agents.
Clean Up		
Tasks		
Completed		
PSO.AutoDeploy.AgeOfCompletedTasksToDelete	90	Age in days that tasks having the Agent Activated status must have in order to be deleted.
Failed		
PSO.AutoDeploy.AgeOfFailedTasksToDelete	90	Age in days that failed tasks must have in order to be deleted.
Cluster		

Auto-Deploy – Rule Management

▼ Bookmarks

There are no bookmarks

► Homes

► Dashboards

▼ Foglight Servers

Local FMS

Search

▼

Host Name

↑

fms-593

Auto Deploy Rule Management - Local FMS

Category / Title ▲	Enabled	
Alerting		
Foglight Agent Manager		
FGLAM Load	🔊	🔧
FGLAM Offline	🔊	🔧
Foglight Management Server		
FMS Load	🔊	
FMS Offline	🔊	
Task		
Failed	🔊	
Unassignable	🔊	
Automation		
Assign Tasks		
Execute Tasks		
Clean Up		
Delete Completed Tasks	🔊	
Delete Failed Tasks	🔊	

Define Settings for Rule "PSO - Auto Deploy FMS Offline"

Generates an alarm if the FMS did not report within the defined thresholds.

Select the severities for which to generate alarms.

Alarm Generation: Fatal,Critical,Warning ▼

Percentage of time (PSO.AutoDeploy.FMS.GracePeriod) the FMS should be offline before an alarm is generated

Warning Threshold: 40.0

Critical Threshold: 70.0

Fatal Threshold: 90.0

Select the severities for which to generate emails.

Please note that an email is not generated if "Alarm Generation" does not generate an alarm for a given severity.

Email Generation: Fatal,Critical,Warning ▼

Comma delimited list of email addresses.

Warning Email Recipient: warning@host.com

Critical Email Recipient: critical@host.com

Fatal Email Recipient: fatal@host.com

Apply Cancel

Auto-Deploy – Administration

Homes

Dashboards

Clusters

Cluster Settings

Reload

Search

Cluster Name

WorldWide

View by: Cluster | Unassigned Tasks | Failed Tasks | Non Failed Tasks | Agent Managers Load

Foglight Servers

Search

		Host Name	IP Address	Port	Load	
<input type="radio"/>	✓	fms_NA_2	192.168.0.178	8080	Not Yet Calculated	
<input checked="" type="radio"/>	✓	fms	192.168.0.171	8080	0.06	
<input type="radio"/>	✓	fms_NA_1	192.168.0.177	8080	Not Yet Calculated	

Foglight Agent Managers

Add Multi-Remove Multi Group ID Multi Agent Types

Search

		Unique ID	Display Name	Group ID	Load			
<input checked="" type="radio"/>	✓	c13b33ce-3675-4b41-b1f3-d0baff2e0534	auto-deploy-2	-	0.00			
<input type="radio"/>	✓	bdebfcff-663a-4fe2-b8f6-6d4be8df0124	auto-deploy-1	-	0.00			
<input type="radio"/>	✓	15cbfd88-11fe-4128-a531-4a77b074bf73	fms	-	0.00			
					0.00			

Agent Types

Add Multi-Remove

Search

Agent Type	Max Per FGLAM	Load Factor	
JMXAgent	100	1.0	
PSO_PerfmonAgent	100	1.0	
PSO_PortCheckAgent	100	1.0	
WindowsAgent	100	1.0	

Tasks

Multi-Remove Multi-Reset

Search

Agent Type	Key Property (Host, URL, . . .)	Status	Deployment Start Time
There Is No Data To Display			

Task Properties

Search

Name	Value
There Is No Data To Display	

Auto-Deploy – Monitoring

View by: Cluster | **Unassigned Tasks** | Failed Tasks | Non Failed Tasks | Agent Managers Load

Cluster Settings | Reload | Search

Cluster Name

- ☒ WorldWide
- ☐ Production
- ☐ Development

Unassigned Tasks

		Agent Type	Key Property (Host, URL, . . .)	Status
<input checked="" type="radio"/>	✓	UnixAgent	fms_Australia	
<input type="radio"/>	✓	NetMonitorAgent	fms_EU	
<input type="radio"/>	✓	WindowsAgent	fms	
<input type="radio"/>	✓	DellUnixAgent	fms_NA_1	
<input type="radio"/>	✓	NetMonitorAgent	fms_NA_2	

Task Properties

Name	Value
CREDENTIAL	foglight
HOSTNAME	fms_Australia
LOCKBOX	System

View by: Cluster | Unassigned Tasks | Failed Tasks | Non Failed Tasks | **Agent Managers Load**

Cluster Settings | Reload | Search





Cluster Name

- ☒ WorldWide
- ☐ Production
- ☐ Development

FMS Host	FGLAM	Load
fms	auto-deploy-2	0.00
fms	auto-deploy-1	0.00
fms	fms	0.00

Un-deploy – Joining System

Auto Undeploy System Settings

 Join |  DB Settings |  Initialize System |  Unjoin

Host Name (FQDN):

IP Address:

Port:

Protocol:

Is Licensed: YES



Un-Deploy – Changing Settings

▼ Bookmarks

There are no bookmarks

► Homes

► Dashboards

▼ Foglight Servers

Local FMS

Search

▼

Host Name

↑

fms-593

Auto Undeploy Registry Settings - Local FMS

Save | Undo | Filter

Name ▲		Value	Description
■ Debug			
PSO.AutoUndeploy.Debug	🔗	true	Whether or not to enable debug mode in the Automatic Undeployment solution
■ Foglight Management Server (FMS)			
PSO.AutoUndeploy.FMS.GracePeriod	📅	24	Number of hours that an FMS can be offline and still be considered for tasks. After that period tasks may be deleted even
PSO.AutoUndeploy.FMS.PingRate	📅	60	Rate in minutes at which the FMS should make itself known to be online.
PSO.AutoUndeploy.FMS.TasksScript.PingRate	🔗	60	Rate in minutes at which the FMS Tasks script should make itself known to be still running. If that time is exceeded the sc
■ Notification			
PSO.AutoUndeploy.Email.Admin	🔗		Email address of the Auto Undeploy administrator



Un-Deploy – Rule Management

The screenshot displays the 'Auto Undeploy Rule Management - Local FMS' interface. On the left, a sidebar shows a tree view with 'Local FMS' selected, listing 'fms-593' under 'Host Name'. The main panel shows a table of rules with columns for 'Category / Title', 'Enabled', and 'Description'. The rules are categorized into 'Alerting', 'Task', 'Automation', and 'Clean Up'. A modal dialog titled 'Define Settings for Rule "PSO - Auto Undeploy FMS Offline"' is open, showing configuration options for alarm and email generation.

Category / Title	Enabled	Description
Alerting		
Foglight Management Server		
Offline	<input type="checkbox"/>	Handles generating an alarm and email if the FMS fails to report within the defined thresholds.
Task		
Failed	<input type="checkbox"/>	
Automation		
Tasks	<input type="checkbox"/>	
Clean Up		
Delete Completed Tasks	<input type="checkbox"/>	
Delete Processed Tasks	<input type="checkbox"/>	

Define Settings for Rule "PSO - Auto Undeploy FMS Offline"

Handles generating an alarm and email if the FMS fails to report within the defined thresholds.

Select the severities for which to generate alarms.

Alarm Generation: ☒ Fatal,Critical,Warning

Percentage of time (PSO.AutoUndeploy.FMS.GracePeriod) the FMS should be offline before an alarm is generated

Warning Threshold:

Critical Threshold:

Fatal Threshold:

Select the severities for which to generate emails.

Please note that an email is not generated if "Alarm Generation" does not generate an alarm for a given severity.

Email Generation: ☒ Fatal,Critical,Warning

Comma separated list of email addresses.

Warning Email Recipient:

Critical Email Recipient:

Fatal Email Recipient:

Apply Cancel

Un-Deploy – Monitoring

View by: System | Unprocessed Tasks | Failed Tasks | Completed Tasks

Foglight Servers

System Settings | Reload

Search

		Host Name	IP Address	Port	Last Ping
<input type="radio"/>	✓	fms_NA_1	192.168.0.177	8080	7/28/16 2:23 PM
<input type="radio"/>	✓	fms_NA_2	192.168.0.178	8080	7/28/16 2:24 PM
<input type="radio"/>	✓	fms_DEV_1	192.168.0.172	8080	7/28/16 2:20 PM
<input checked="" type="radio"/>	✓	fms	192.168.0.171	8080	7/28/16 2:26 PM
<input type="radio"/>	✓	fms_PROD_1	192.168.0.174	8080	7/28/16 2:22 PM
<input type="radio"/>	✓	fms_EU	192.168.0.179	8080	7/28/16 2:25 PM
<input type="radio"/>	✓	fms_AUSTRALIA	192.168.0.176	8080	7/28/16 2:23 PM
<input type="radio"/>	✓	fms_DEV_2	192.168.0.173	8080	7/28/16 2:22 PM

View by: Processed Tasks | Unprocessed Tasks

Search

	Target Host	Delete Data	Agent Type	Agent Specific Value	Status
✓	fms	⏻	-	-	Completed
✓	fms_EU	⏻	-	-	Completed
✓	fms	⏻	-	-	Completed

Auto-Deploy/Un-deploy – 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