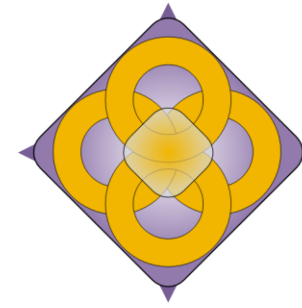


# Auto-Deploy Un-Deploy

Lifecycle Management



*LightSpeed PM*



Foglight<sup>®</sup>  
by Quest

# Auto-Deploy / Un-Deploy – The Solution

The Foglight user community has frequently requested automation of agent deployment and removal. We provide this and more!

Customers have asked for simplification, fewer headaches for clean up, and a way to keep up with agents without a mountain of spreadsheets.

- Keep Foglight Management Servers (FMS) in sync with existing infrastructure monitoring needs
- Out of the box: Simplified and Dynamic insertion or removal of hosts for monitoring via an external list or export from a CMDB
  - 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 many 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



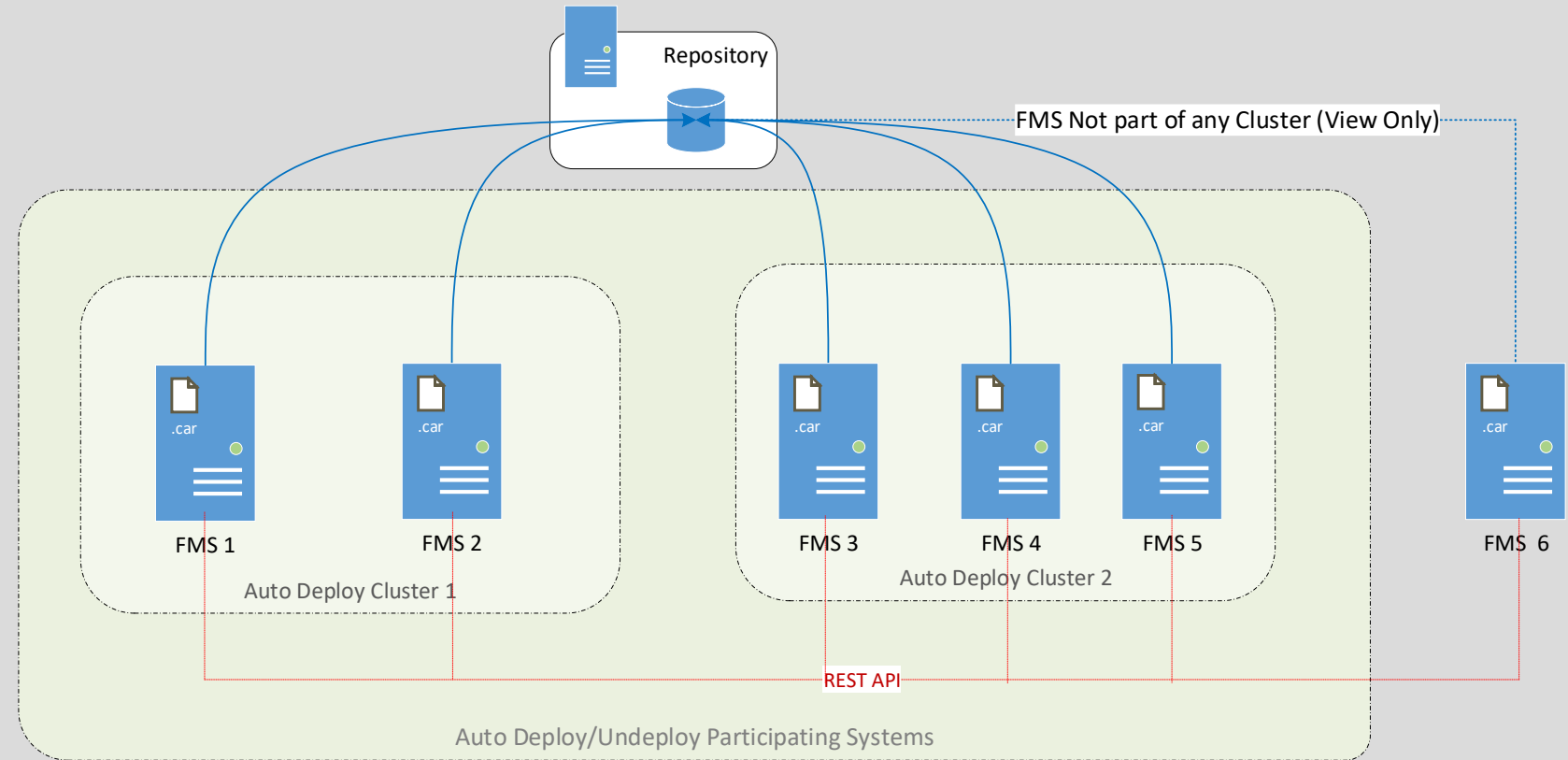
# Highlights (cont'd)

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

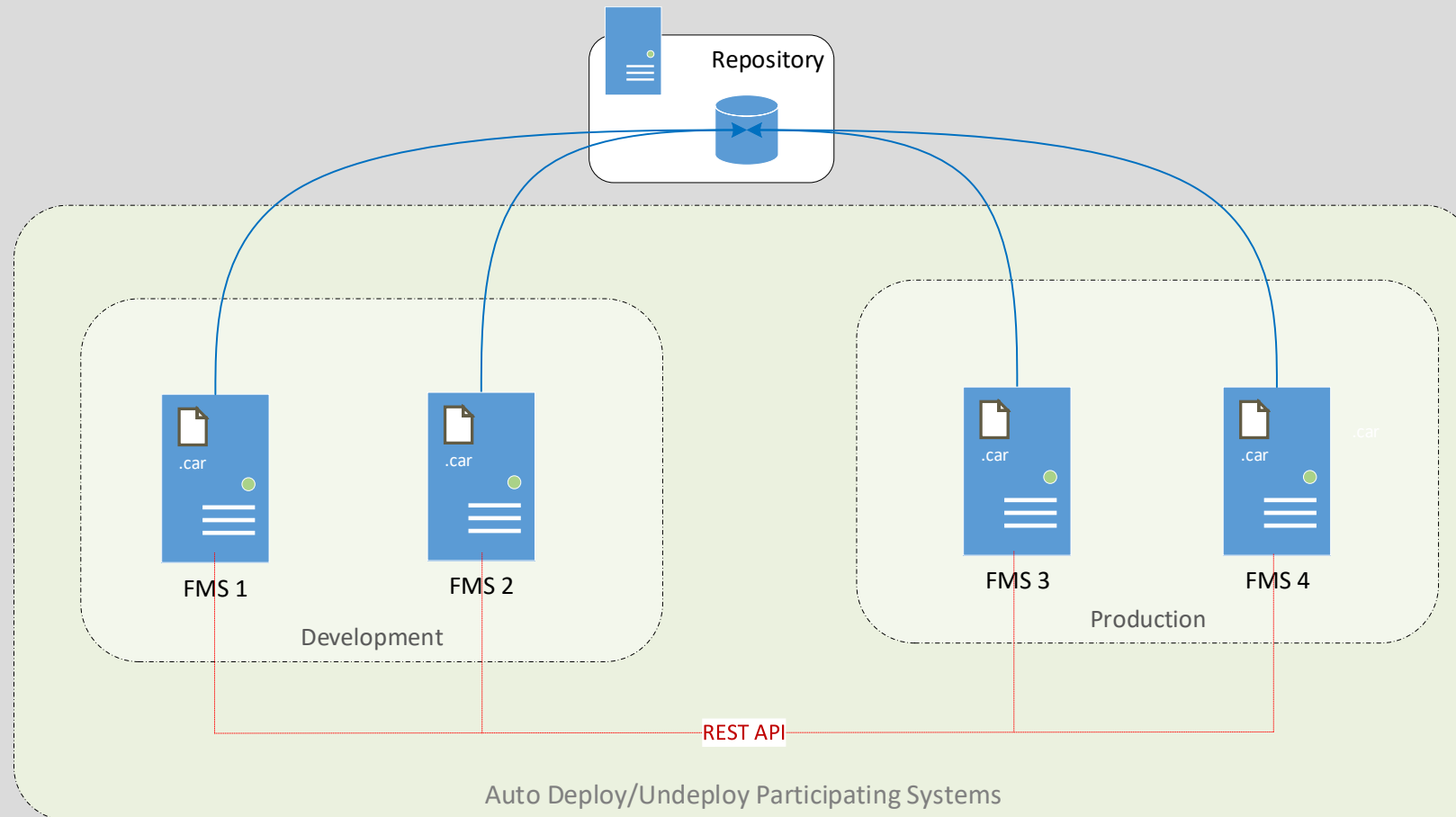


# Overview

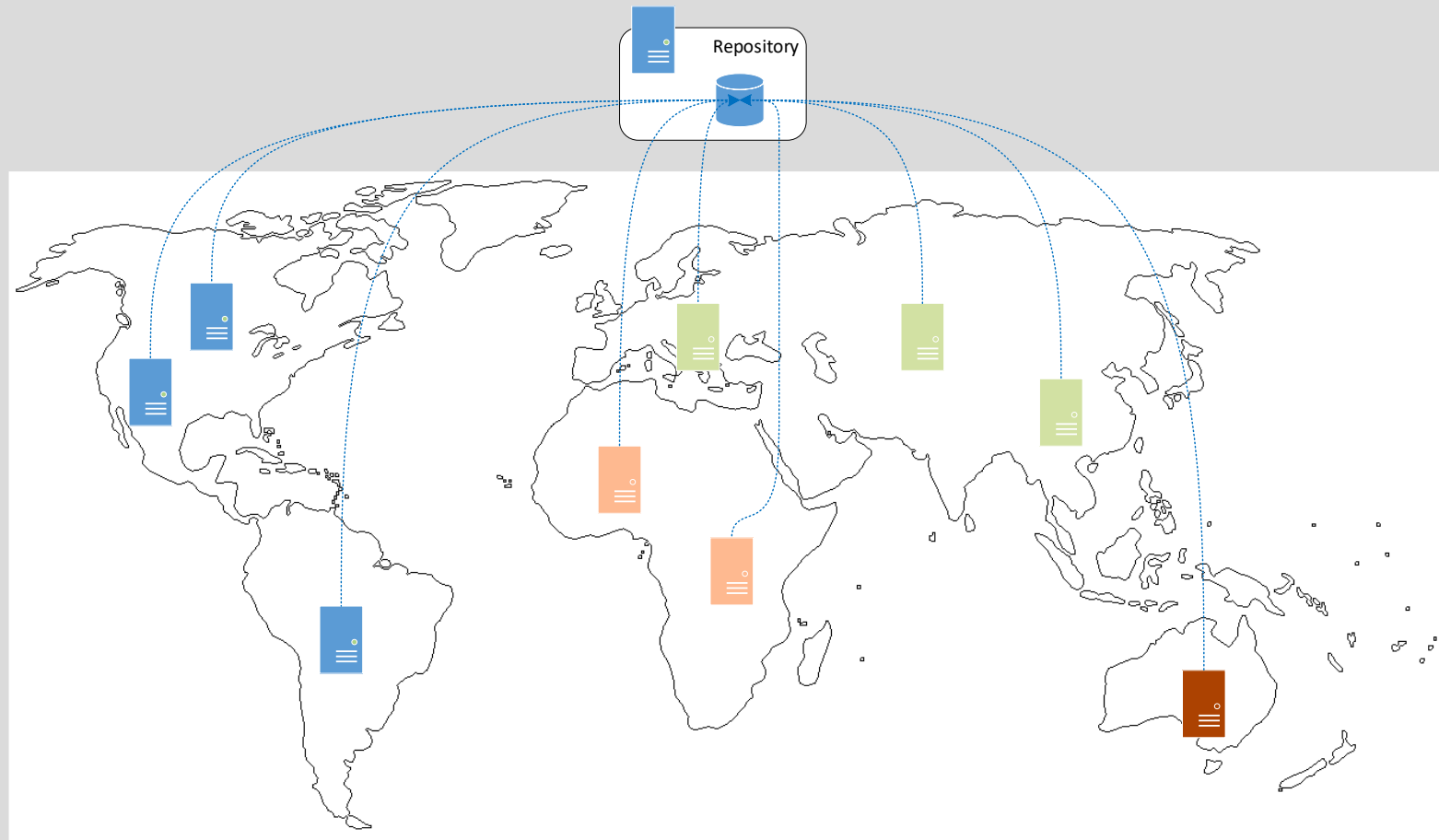
- Simple Cartridge Deployment
- No agents required
- Everything is DB driven
- Clustering is supported for Auto-Deploy
- Clusters are not supported for Auto / Un-deploy (Opt. in or Opt. out)



# Use Case 1 – Manage Prod and Dev separately



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



# Auto Deploy - Flow

## Cluster Tasks

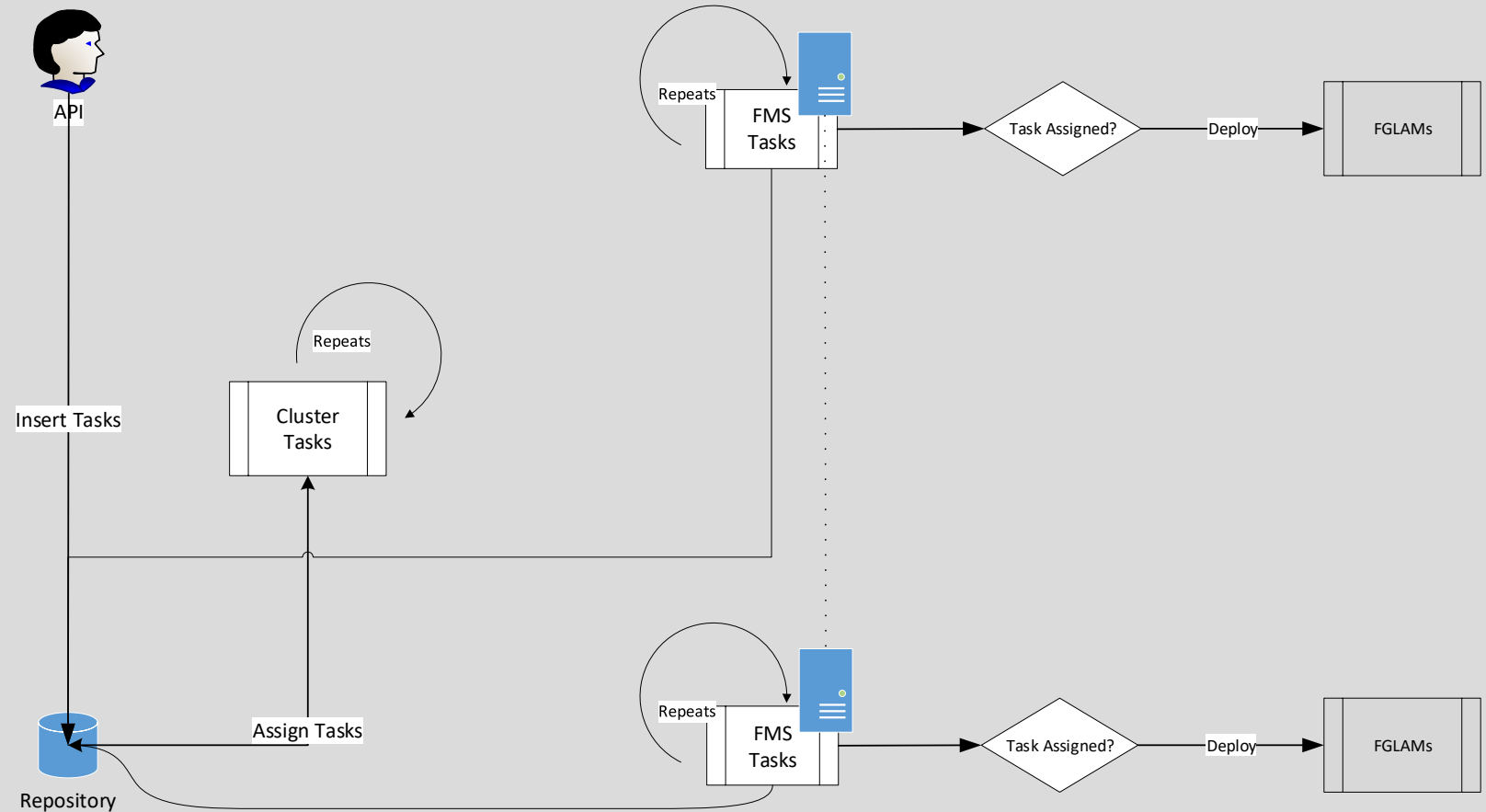
- Assigns Tasks based on load and agent types assigned to FGLAMs
- Depending of agent being deployed may assign to a specific FMS or FGLAM

## 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



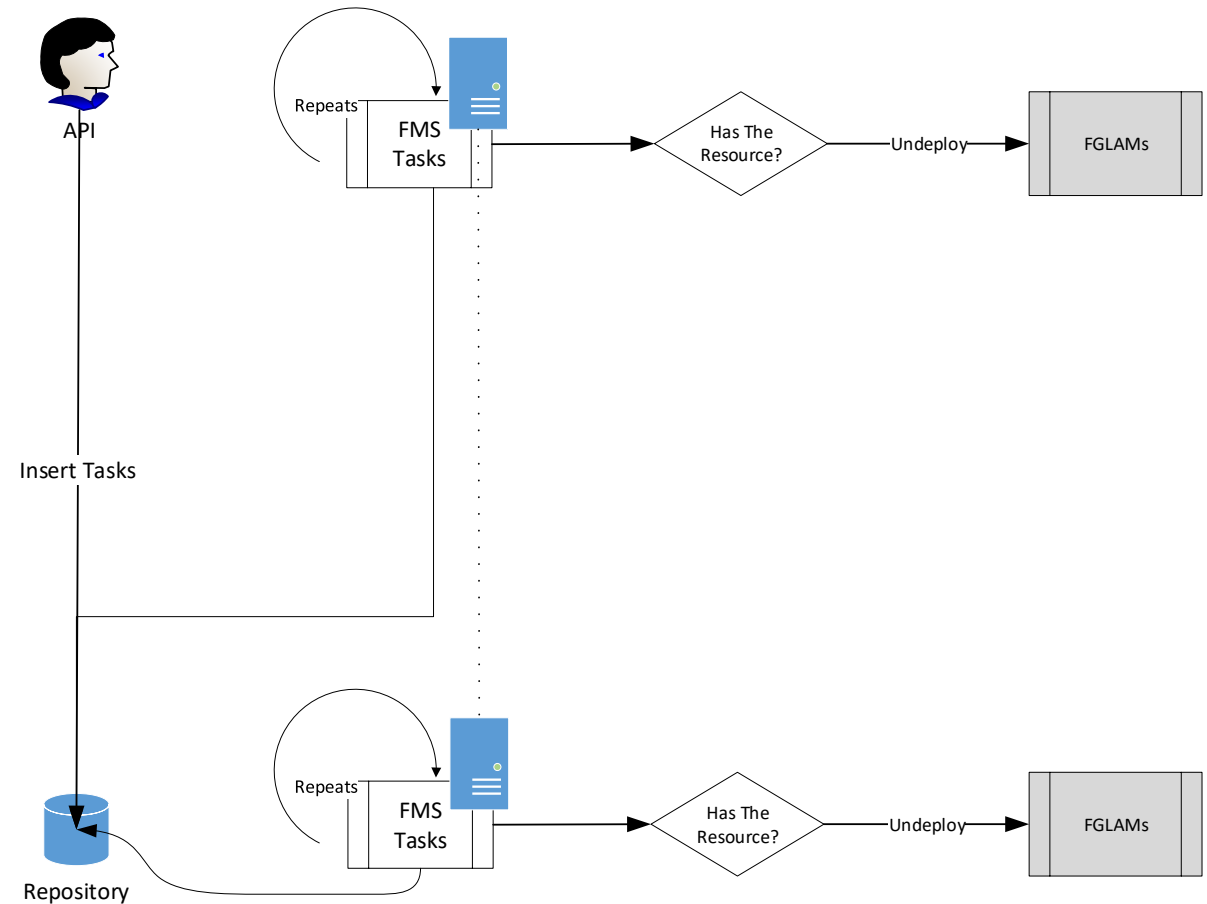
# Un-Deploy - Flow

## 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	Supported Agents	Min Version
Unix Agent Plus	5.8.5.8	DB2	5.7.5.50
Unix Agent	5.7.3	Oracle SPI	1.7.0
Windows Agent	5.7.3	Oracle Agent	5.7.5.50
Multi Host Process Monitor Agent	-	Oracle RAC Agent	5.7.5.50
File Log Monitor Agent	5.8.5.8	Oracle RAC Instance Agent	5.7.5.50
Windows Event Log Monitor Agent	5.8.5.8	SQL SPI	1.7.0
Net Monitor Agent	5.7.0	SQL Server Agent	5.7.5.50
Web Monitor Agent	5.7.0	Cassandra	5.7.5.65
PSO Perfmon Agent	2.0.0	MongoDB	5.7.5.65
PSO WMI Agent	1.0.0	MySQL	5.7.5.76
PSO Port Check Agent	2.0.0	PostgreSQL	5.7.5.90
PSO SSH Command Agent	2.0.0		
Custom Script Agents	-		



# 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

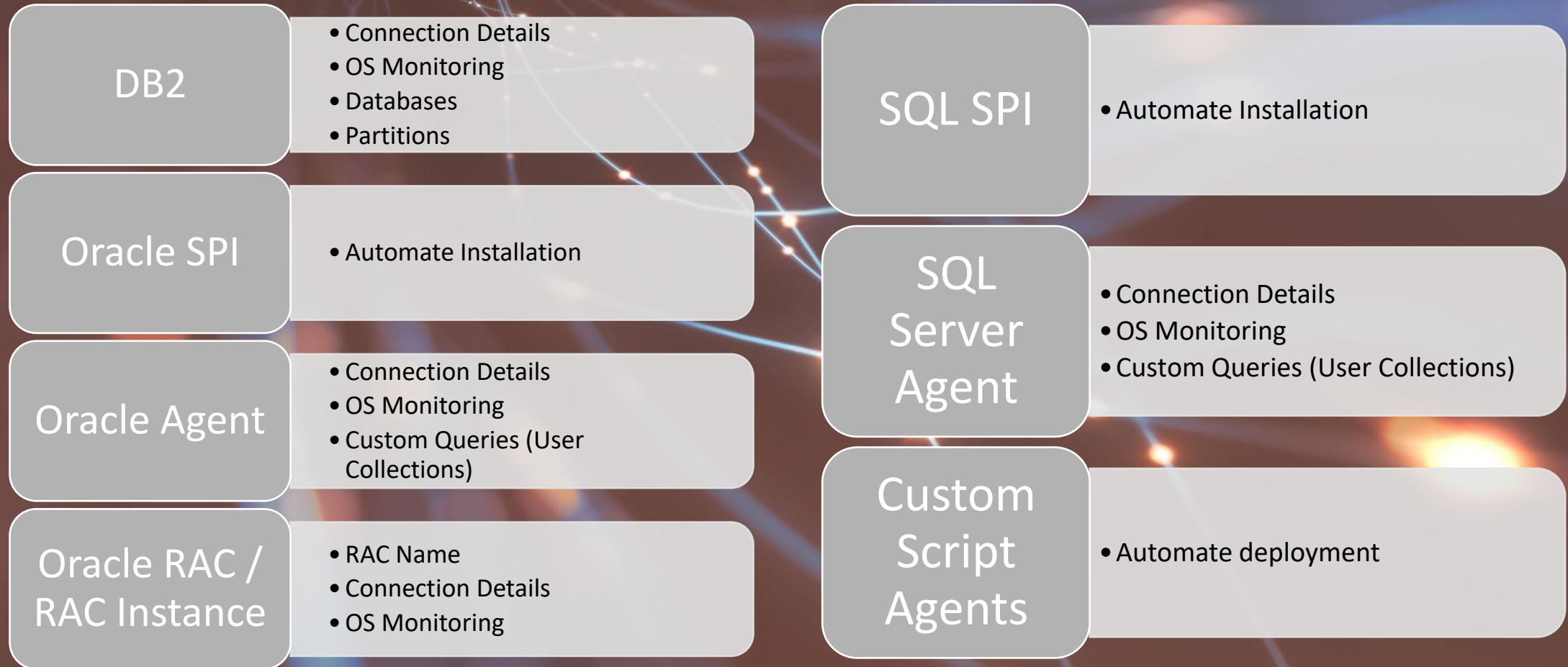
- Automate Target Host details

## Web Monitor Agent

- Automate URL Details
- Credential Creation



# Agents Automation (Cont'd)



# Auto-Deploy – Defining Clusters

**Auto Deploy Cluster Settings**

Join Move DB Settings Initialize System Unjoin

Cluster Name:

Host Name (FQDN):

IP Address:

Port:

Protocol:

Is Licensed: YES

**Join Cluster**

Choose or enter the name of the cluster to join:

- Development
- Production
- WorldWide

Join Cancel

# Auto-Deploy – Changing Settings

**Auto Deploy Registry Settings - Local FMS**

Save | Undo | Filter

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



# Auto-Deploy – Rule Management

The screenshot displays the 'Auto Deploy Rule Management - Local FMS' interface. On the left, a sidebar shows navigation options: Bookmarks, Homes, Dashboards, and Foglight Servers. Under Foglight Servers, 'Local FMS' is selected, showing a list of hosts with 'fms-593' highlighted. The main panel shows a table of rules categorized by Alerting, Task, and Automation. A dialog box titled 'Define Settings for Rule "PSO - Auto Deploy FMS Offline"' is open, showing configuration options for alarm and email generation.

Category / Title	Enabled	Description
<b>Alerting</b>		
<b>Foglight Agent Manager</b>		
FGLAM Load		Handles generating alarms and emails for any FGLAM on the current FMS whose loads breaches the defined thresholds.
FGLAM Offline		Handles generating alarms and emails for any FGLAM on the current FMS that fails to report within the defined thresholds.
<b>Foglight Management Server</b>		
FMS Load		
FMS Offline		
<b>Task</b>		
Failed		
Unassignable		
<b>Automation</b>		
Assign Tasks		
Execute Tasks		
<b>Clean Up</b>		
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:

Percentage of time (PSO.AutoDeploy.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:

Comma delimited list of email addresses.

Warning Email Recipient:

Critical Email Recipient:

Fatal Email Recipient:

Apply Cancel



# Auto-Deploy – Administration

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

**Foglight Servers**

		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**

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

**Agent Types**

Agent Type	Max Per FGLAM	Load Factor	
JMXAgent	100	1.0	<input checked="" type="radio"/>
PSO_PerfmonAgent	100	1.0	<input checked="" type="radio"/>
PSO_PortCheckAgent	100	1.0	<input checked="" type="radio"/>
WindowsAgent	100	1.0	<input checked="" type="radio"/>

**Tasks**

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

**Task Properties**

Name	Value
There Is No Data To Display	

# Auto-Deploy – Monitoring

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

Unassigned Tasks

Search

		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

Search

Name ▲	Value
CREDENTIAL	foglight
HOSTNAME	fms_Australia
LOCKBOX	System

Cluster Settings | Reload Search

Cluster Name

- ☒ ✓ WorldWide
- ☐ ✓ Production
- ☐ ✓ Development

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

Search

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





Cluster Settings | Reload Search

Cluster Name

- ☒ ✓ WorldWide
- ☐ ✓ Production
- ☐ ✓ Development

# 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 Foglight console interface. On the left, the 'Foglight Servers' sidebar shows 'Local FMS' selected, with a search bar and a list of hosts including 'fms-593'. The main panel is titled 'Auto Undeploy Rule Management - Local FMS' and contains a table with columns 'Category / Title', 'Enabled', and 'Description'. The table lists several categories: Alerting (Foglight Management Server, Offline, Task, Failed), Automation (Tasks), and Clean Up (Delete Completed Tasks, Delete Processed Tasks). A modal dialog titled 'Define Settings for Rule "PSO - Auto Undeploy FMS Offline"' is open, showing configuration options for alarm and email generation. The dialog includes fields for 'Alarm Generation' (set to Fatal, Critical, Warning), 'Warning Threshold' (40.0), 'Critical Threshold' (70.0), and 'Fatal Threshold' (90.0). It also has sections for 'Email Generation' (set to Fatal, Critical, Warning) and email recipients for Warning, Critical, and Fatal alerts. The dialog has 'Apply' and 'Cancel' buttons at the bottom right.

Category / Title	Enabled	Description
<b>Alerting</b>		
<b>Foglight Management Server</b>		
Offline		
<b>Task</b>		
Failed		
<b>Automation</b>		
Tasks		
<b>Clean Up</b>		
Delete Completed Tasks		
Delete Processed Tasks		

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: 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 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  
Database  
Minimum  
Version

MS SQL

2008  
v 10.0.1600 or later

Oracle

9i R2

MySQL

5.1.45

PostgreSQL

9.4.0





## Performance Monitoring customized to your unique environment

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