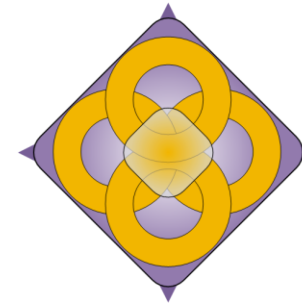


Auto-Deploy Un-Deploy

Lifecycle Management



LightSpeed PM



Foglight[®]
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
- 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 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



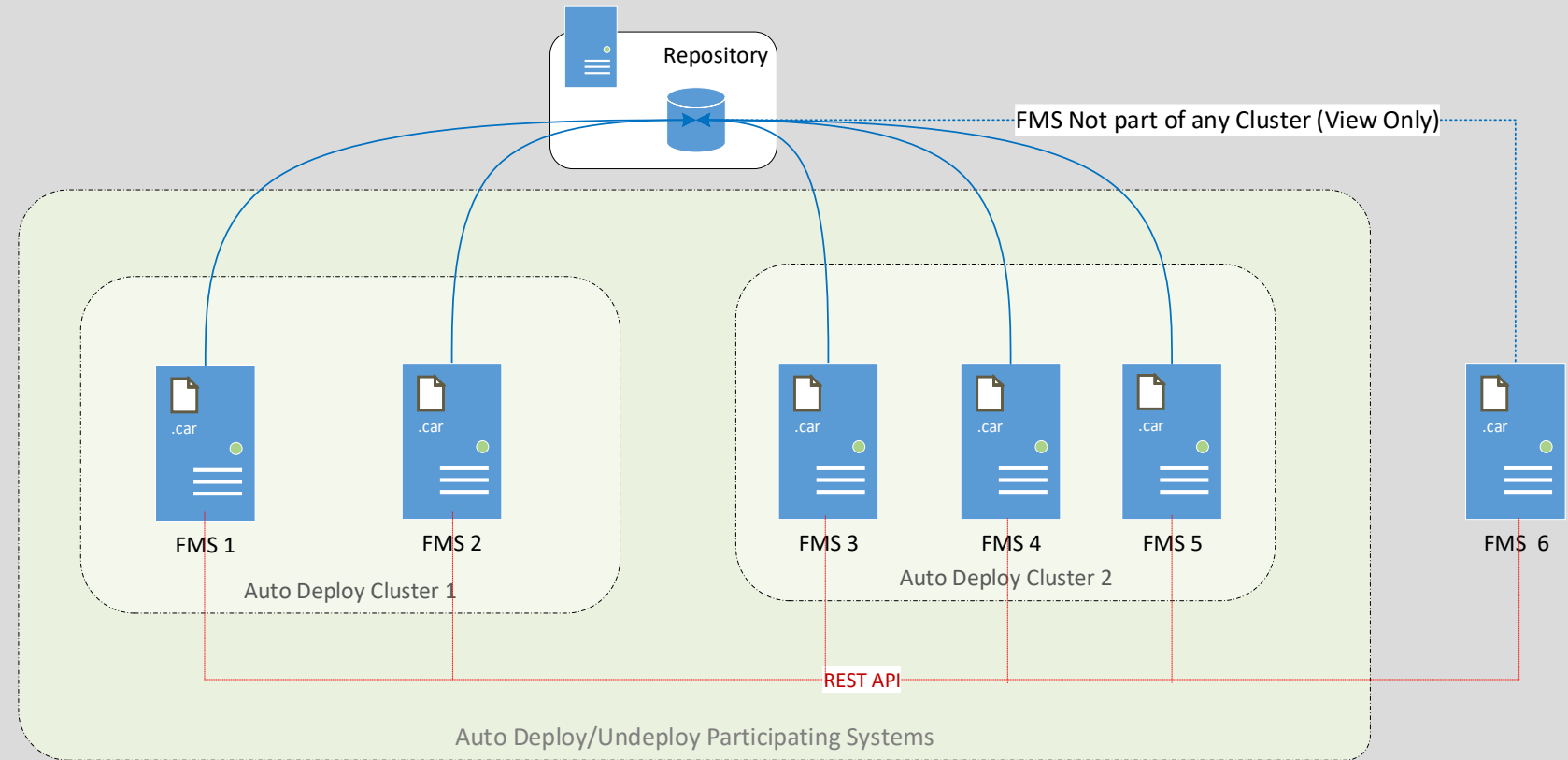
Highlights (cont'd)

- 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

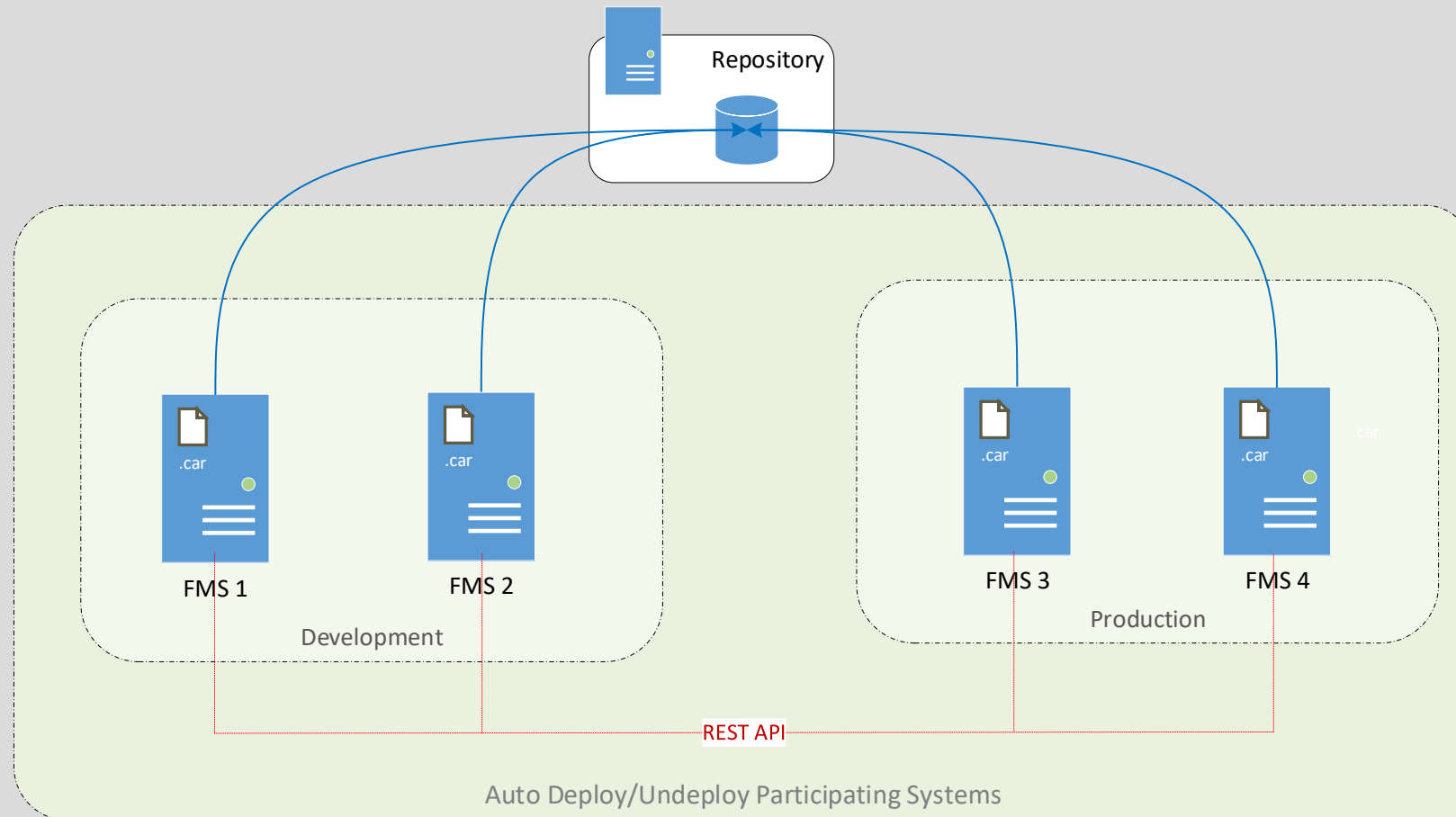


Overview

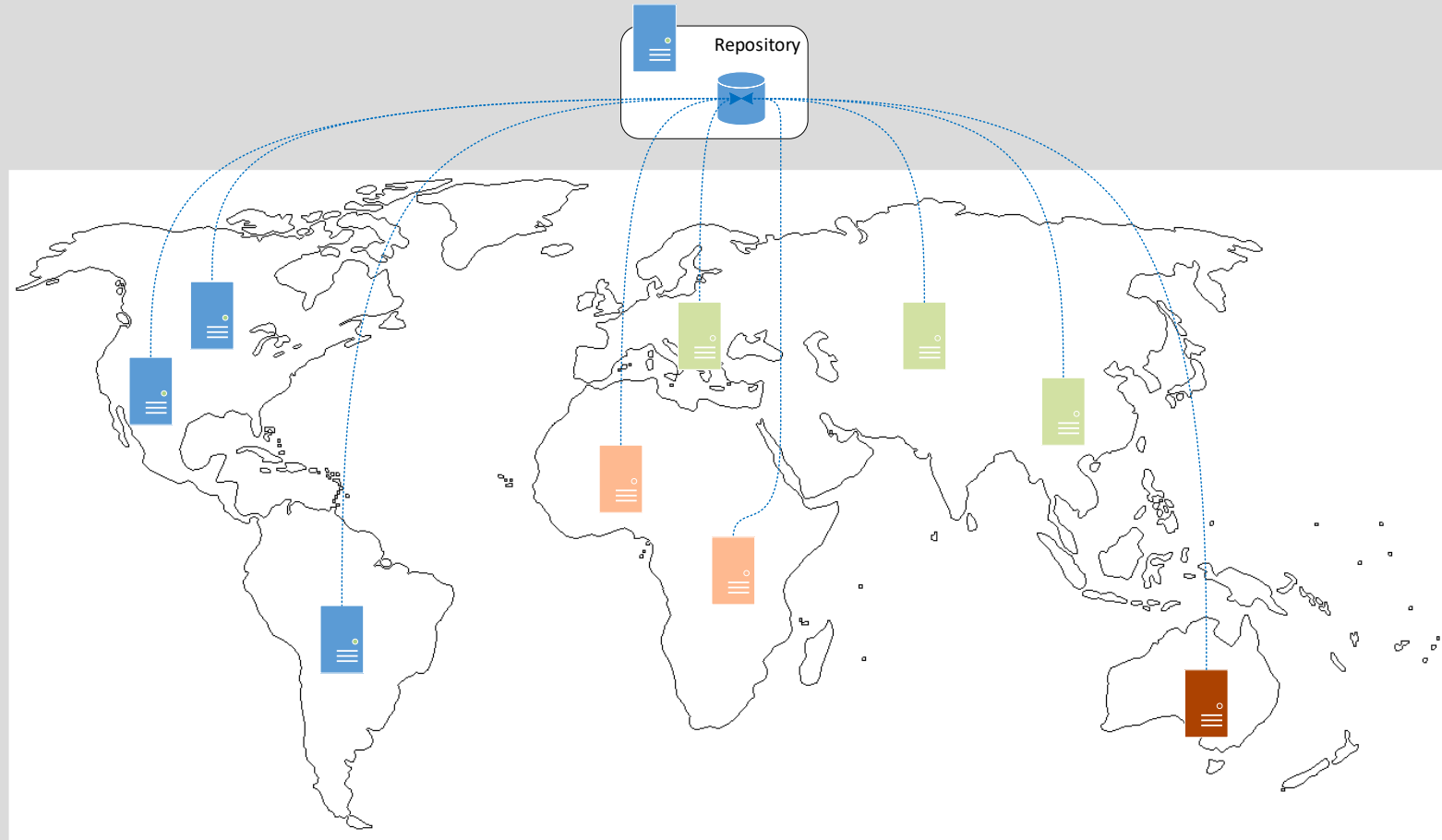
- Simple Cartridge Deployment
- No agents required
- Everything is DB driven
- Clustering is supported for Auto-Deploy
- Clusters are not supported for Auto / Un-deploy (Opt. in or Opt. out)



Use Case 1 – Manage Prod and Dev separately



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



Auto Deploy - Flow

Cluster Tasks

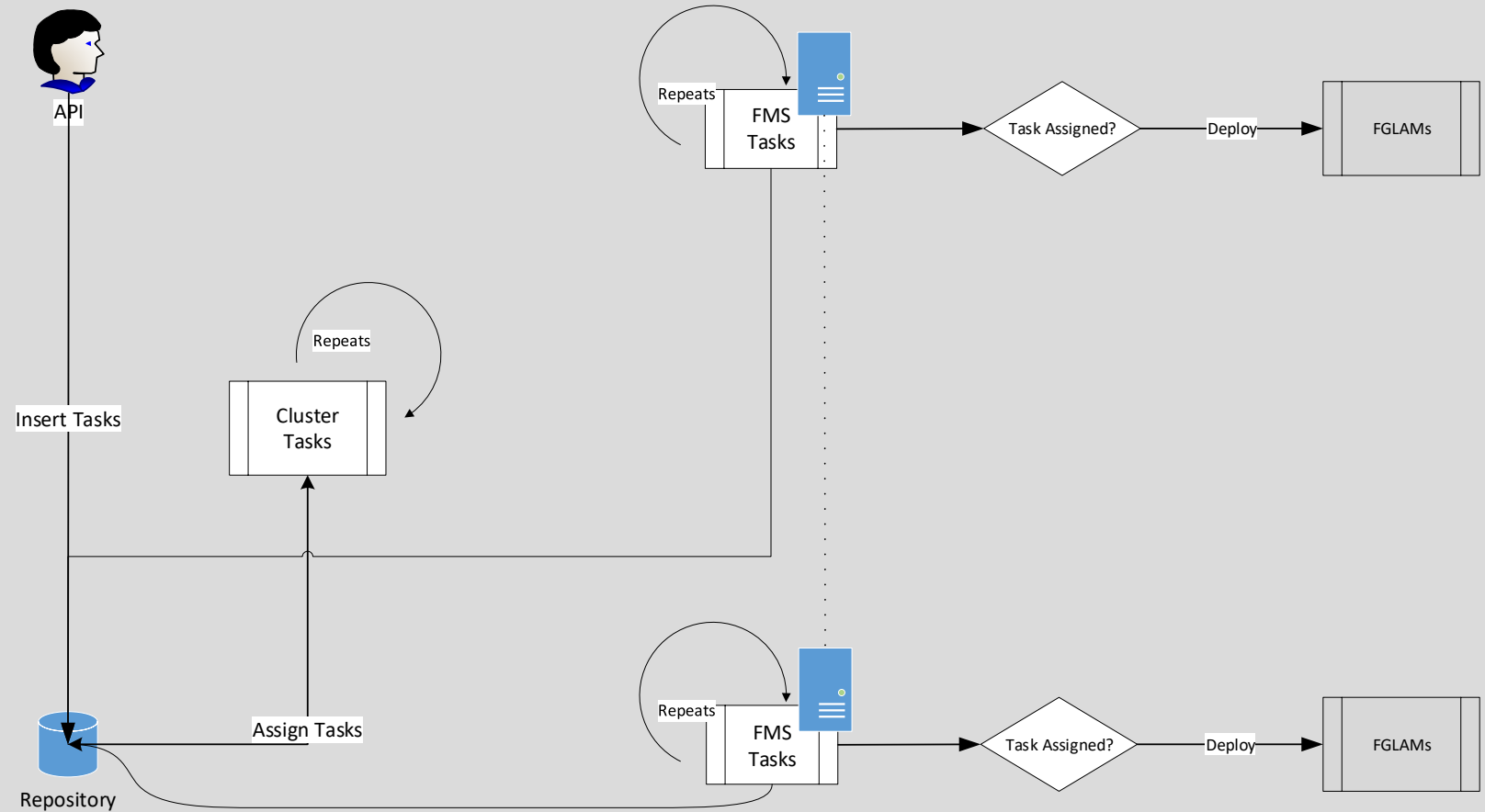
- Assigns Tasks based on load and agent types assigned to FGLAMs
- Depending of agent being deployed may assign to a specific FMS or FGLAM

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



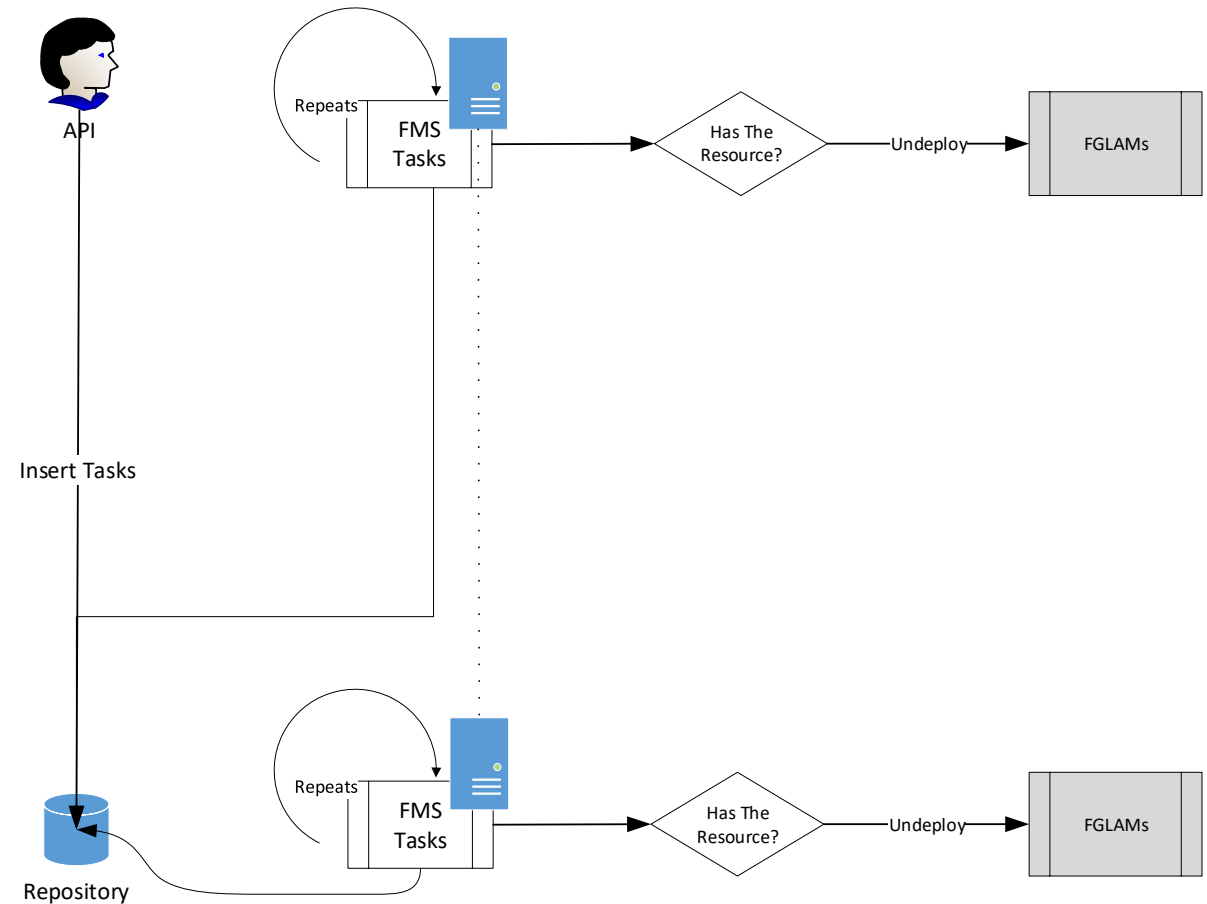
Un-Deploy - Flow

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

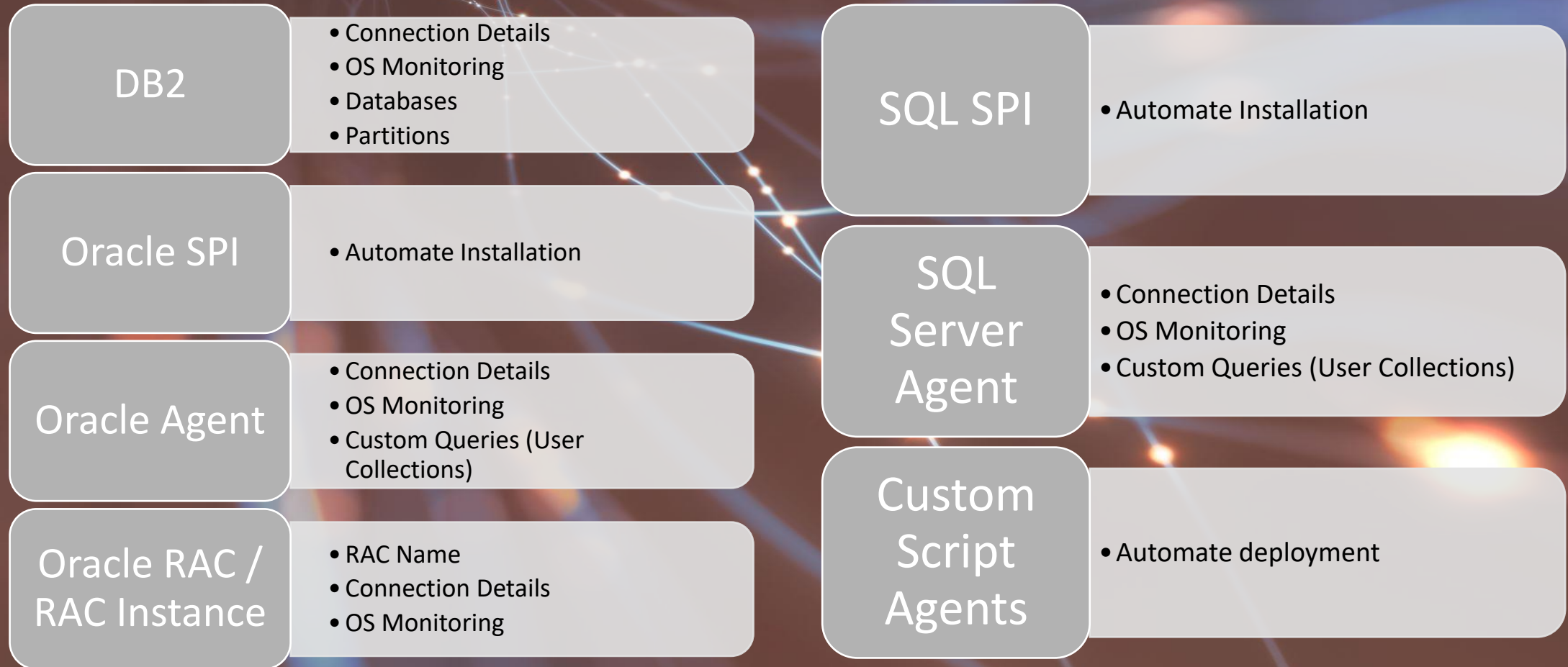
- Automate Target Host details

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	
Agent		
Dot NET		
PSO.AutoDeploy.DotNET.InstallersDir	C:/Quest/Installers/DotNET/	Indicates the path on the host machines where the Auto Deploy DotNET Instal
Infrastructure		
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.
SQL PI		
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.
Agent Creation		
PSO.AutoDeploy.Agent.Creation.CloneAssignedDefaultSecondaryASP	false	When creating or configuring agents there is a need to create custom seconda
Clean Up		
Tasks		
Completed		
PSO.AutoDeploy.AgeOfCompletedTasksToDelete	90	Age in days that tasks having the Agent Activated status must have in order to
Failed		
PSO.AutoDeploy.AgeOfFailedTasksToDelete	90	Age in days that failed tasks must have in order to be deleted
Cluster		



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 under Alerting, Foglight Agent Manager, Foglight Management Server, Task, Automation, and Clean Up. 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
Alerting		
Foglight Agent Manager		
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.
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:

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"/>
					0.00			

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 management console. 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 of rules. A configuration dialog for the rule 'PSO - Auto Undeploy FMS Offline' is open, showing settings for alarm and email generation.

Category / Title	Enabled	Description
Alerting		
Foglight Management Server		
Offline		
Task		
Failed		
Automation		
Tasks		
Clean Up		
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

Ten plus years of providing Professional Services to Quest customers revealed these enhancements to be most requested modifications.

Let us take Foglight's out of the box capabilities and enhance for your unique environment.

Contact: Sales@LightSpeedPM.com

