

# Centralized Configuration

Lifecycle Management



# Why Centralized Configuration from LightSpeed PM?

Managing an environment with 2 or more Foglight Management Servers will be improved with our Centralized Configuration by

- Keeping servers in sync
- Easy replication of changes to other FMS
- Reducing chances for human error
- Reduction in time consuming replication challenges for the FMS administrator
- Customization of changes per servers across departments, regions or any other way your company's infrastructure is organized
- Ensuring correct changes are applied to correct servers across disparate implementations in your organization



# Centralized Configuration Highlights

Easy to deploy

Lots of options

User friendly UI

Automatically  
syncs changes to  
many items done  
on one FMS server  
to other Servers

- Creation
- Deletion
- Modification

**Remote  
Administration of  
solution across  
servers**

**Master Server  
Synchronization  
Mode**

Ability to inject  
items into clusters



# Centralized Configuration Highlights

Receive alerts on failures

Cluster the servers such as a change in the cluster will only impact servers that are part of that cluster

Track on which FMS a change happened and when

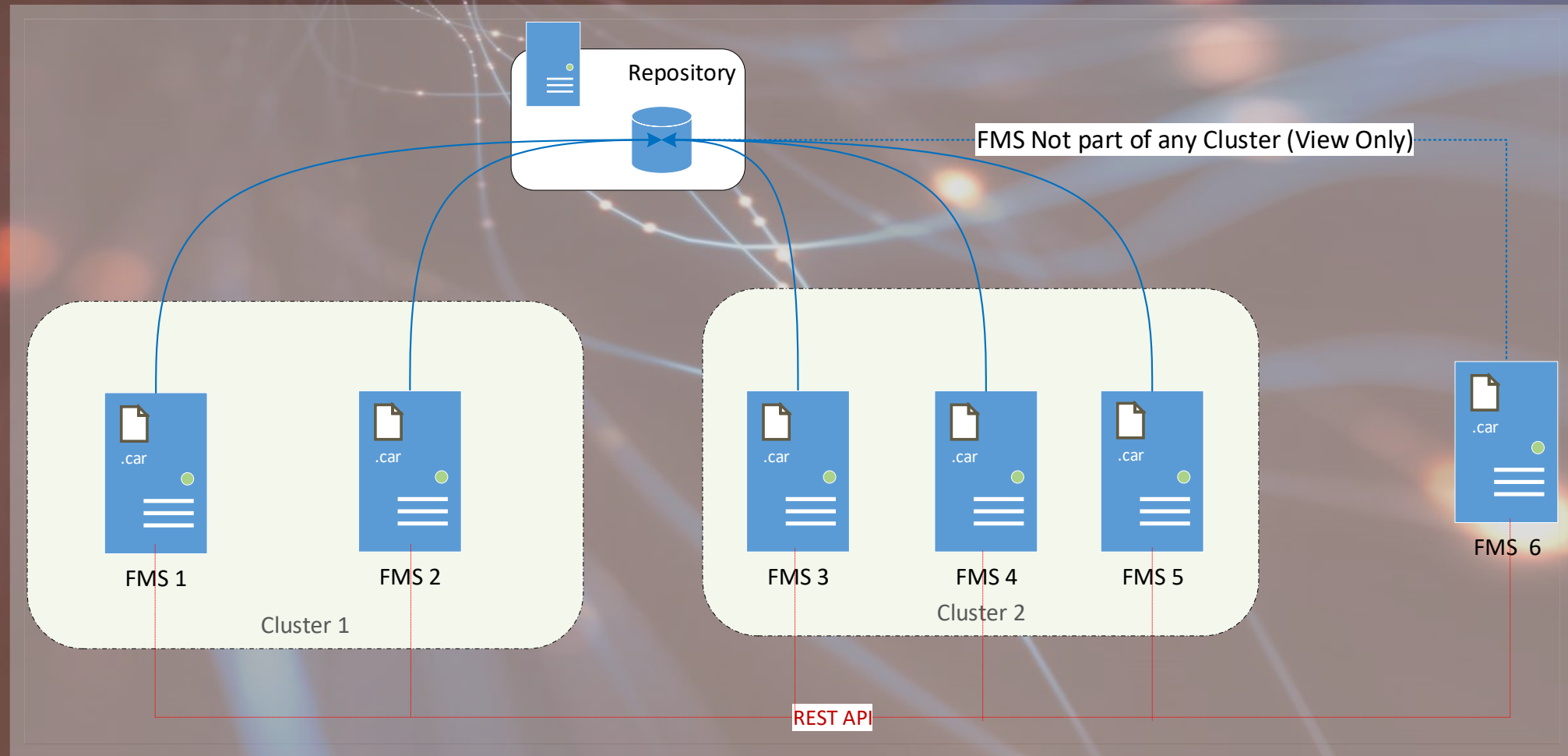
Obtain and audit trail of all activates

Flow injection

Monitor the status of changes from any FMS

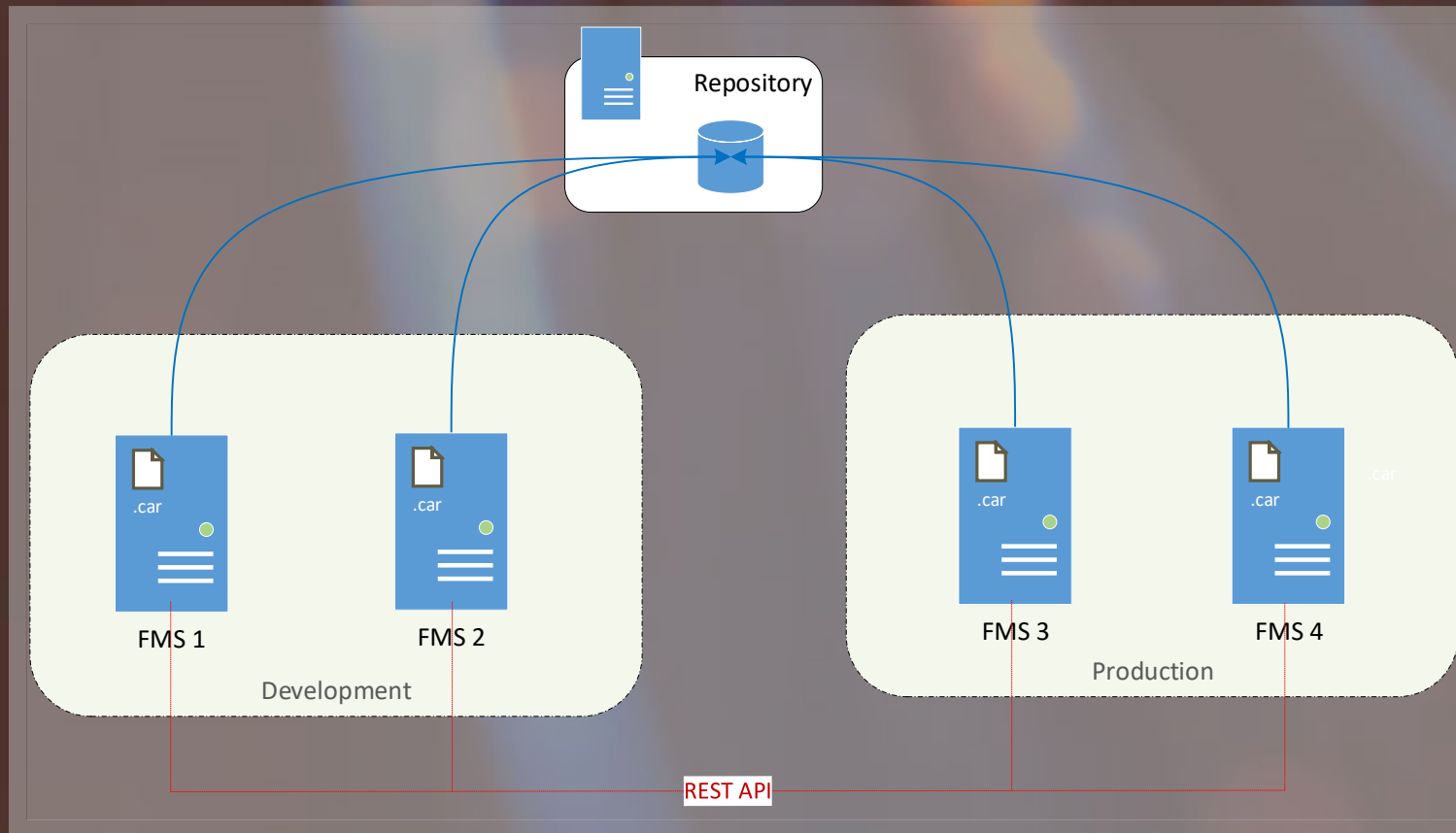


# Centralized Configuration – High Level



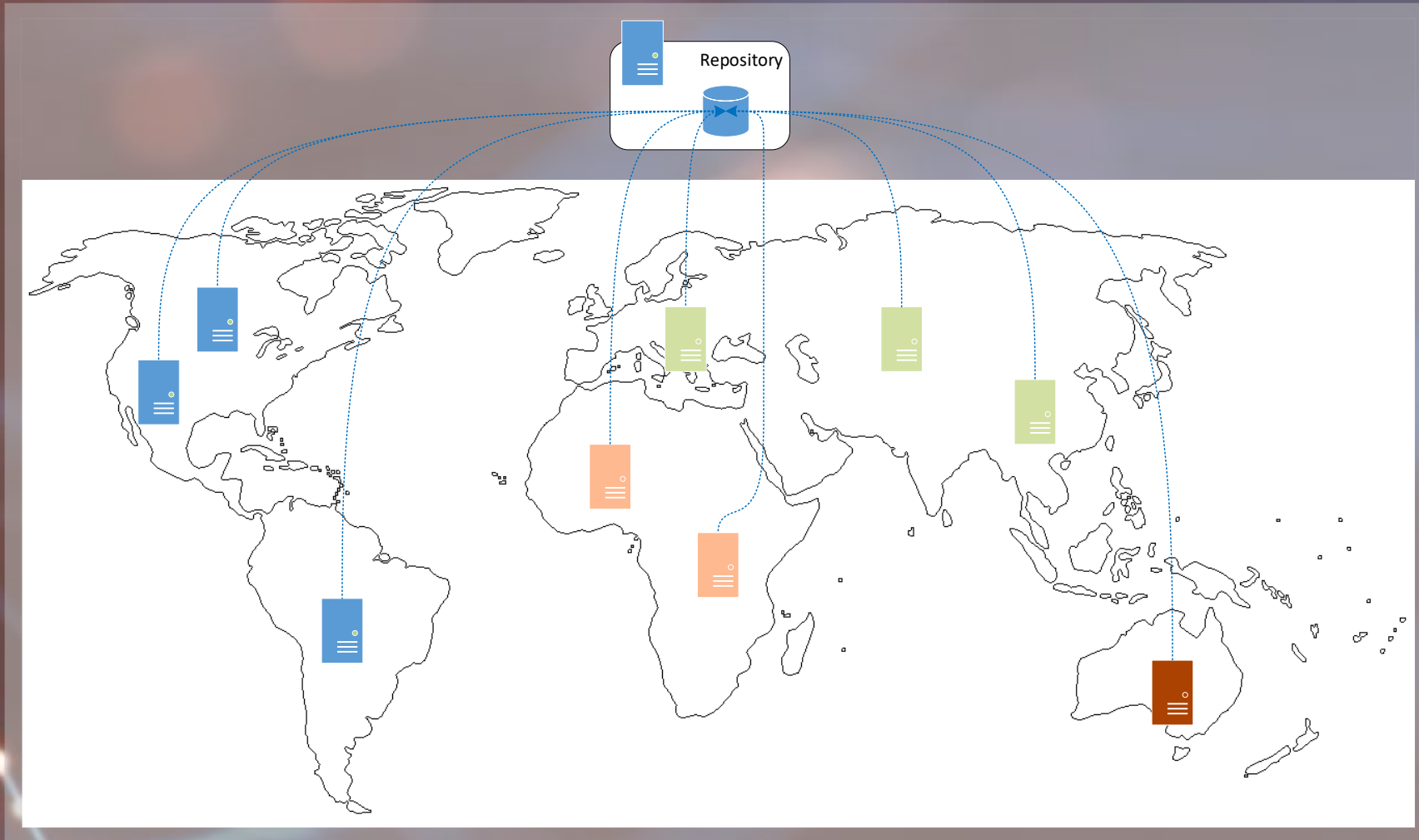
# Centralized Configuration – Use Case 1

Manage development and Production Separately

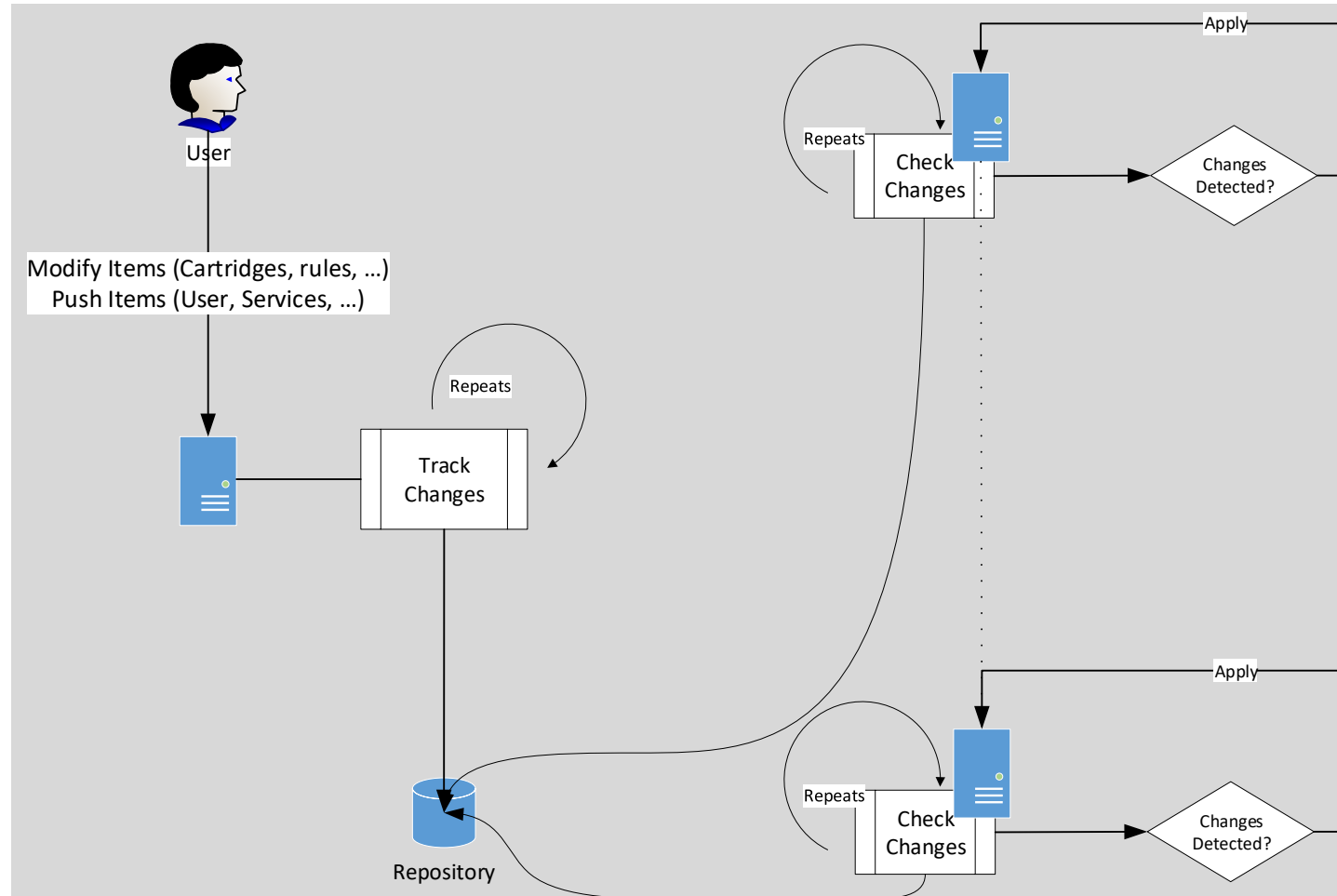




# Centralized Configuration – Use Case 2



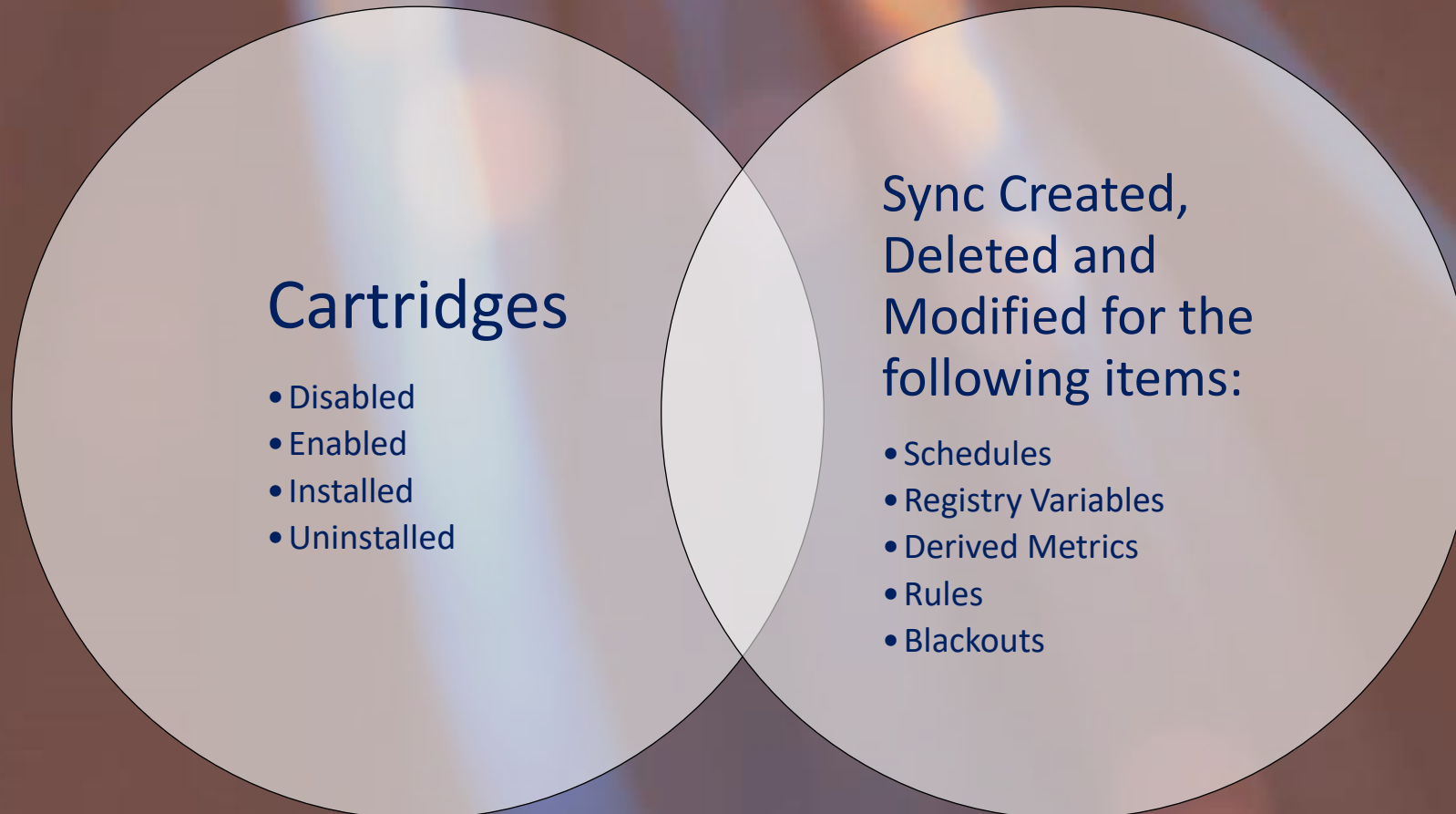
# Centralized Configuration – Flow





# Centralized Configuration – Items Synced

Administrative items:



# Centralized Configuration – Items Synced

## Agent Properties

- Secondary ASP - Lists used by agents
  - Created
  - Deleted
  - Modified
- Default Primary ASP - Default properties for an agent type
  - Modified

## Persistence Policies

- Sync Created, Deleted and Modified for the following items:
  - Lifecycle
  - Retention Policies
  - Default Lifecycle
  - Schemas
  - Grouping Policies







# Centralized Configuration – Items Synced

Services



# Centralized Configuration – Defining Clusters

**Centralized Config Cluster Settings**

 Join |  DB Settings |  Initialize System |  Unjoin


Cluster Name:

Host Name (FQDN):

IP Address:

Port:

Protocol:

Is Master:  This server must join a cluster before toggling the master flag.

Is Licensed: YES

**Join Cluster**

Choose or enter the name of the cluster to join:

Development

Production

Worldwide

# Centralized Configuration – Changing Settings

▼ Bookmarks

There are no bookmarks

► Homes

► Dashboards

▼ Foglight Servers

Local FMS

Host Name

fms-593 8080

Centralized Config Registry Settings - Local FMS

Save | Undo | Filter

Name ▲		Value	
■ Configuration			
PSO.CentralizedConfig.ConfigVersion	🔗	1.0.4.0	Indicates the version of the Foglight configuration. Depending on the FMS version it may need t
■ Debug			
PSO.CentralizedConfig.Debug	🔗	false	Whether or not to enable debug mode in the Centralized Configuration solution
■ Foglight Management Server (FMS)			
PSO.CentralizedConfig.FMS.GracePeriod	🔗	24	Number of hours that an FMS can be offline and still be considered as online.
PSO.CentralizedConfig.FMS.TasksScript.PingRate	🔗	60	Rate in minutes at which the FMS Tasks script should make itself known to be still running. If th
■ Notification			
PSO.CentralizedConfig.Email.Admin	🔗		🚫 Email address of the Centralized Config administrator
■ Sync Engine			
PSO.CentralizedConfig.Sync.Administration.Blackouts.Enable	🔗	true	Should Blackouts be synced.
PSO.CentralizedConfig.Sync.AgentProperties.SecondaryASP.MinCount	🔗	2	Indicates the minimum usage count a Secondary ASP must have before it is considered for sync
PSO.CentralizedConfig.Sync.PersistencePolicies.Enable	🔗	true	Should Persistence Policies be synced.
PSO.CentralizedConfig.Sync.Security.Enable	🔗	true	Should Security be synced.
PSO.CentralizedConfig.Sync.Services.Enable	🔗	true	Should Services be synced.
PSO.CentralizedConfig.Sync.Services.RemoveServicesNotInSource	🔗	false	When a service is being synced, should services not found in the source service be removed fro



# Centralized Configuration – Rule Management

▼ Bookmarks

There are no bookmarks

▶ Homes

▶ Dashboards

▼ Foglight Servers

Local FMS

▼ Host Name

↑ fms-593 8080

Centralized Config Rule Management - <http://fms-593:8080>

Category / Title ▲	Enabled	
■ Alerting		
■ Foglight Management Server		
Offline		Handles generating an alarm and email if the FMS fails to report within the defined thresholds.
■ Task		
Failed		Handles generating alarms and emails for any failed task on the current FMS.
■ Automation		
Tasks		
■ Clean Up		
Delete Cluster Wide Deleted Items		
Delete Cluster Wide Uninstalled Cartridges		

Define Settings for Rule "PSO - Centralized Config Failed Task"

Handles generating alarms and emails for any failed task on the current FMS.

Check the box to enable alarm generation, uncheck to disable.

Generate Alarm: ☒

When an alarm is generated what severity should the alarm represent.

Alarm Severity:

Check the box to enable email generation, uncheck to disable.

Please note that an email is not generated if "Generate Alarm" is disabled.

Generate Email: ☒

Comma separated list of email addresses.

Email Recipient:

Apply Cancel



# Centralized Configuration – Pushing Items

**Centralized Config Push Items - Local FMS**

Cancel Push | Security | Persistence Policies | Select All | Select None | Push

	Cluster	Host Name
Local FMS	Development	fms-593 8

- ☐ Blackout
- ☐ Lifecycle
- ☐ Retention Policy
- ☐ Default Lifecycle
- ☐ Schema
- ☐ Grouping Policy
- ☐ Service
- ☐ LDAP
- ☐ Role
- ☐ Group
- ☐ User
- ☐ User Script
- ☐ JVM Setting
- ☐ Database Password



# Centralized Configuration – Inject Items

The screenshot displays the Foglight user interface. On the left, the 'Navigation' pane shows a tree view with 'Expert View' selected. Under 'Foglight Servers', 'Local FMS' is expanded, showing a table with columns 'Host Name' and 'Cluster'. The table contains one entry: 'fms-593 8080' under 'Host Name' and 'Development' under 'Cluster'. A green arrow icon is next to the host name.

The main pane is titled 'Centralized Config Items To Inject - <http://fms-593:8080>'. It features a toolbar with an 'Inject Items' button (a green plus icon in a blue square) and buttons for 'Select All', 'Select None', and 'Cancel "Inject"'. A dropdown menu is open from the 'Inject Items' button, listing various configuration item types: Blackout, Cartridge, Database Password, Default Lifecycle, Derived Metric, Group, Grouping Policy, JVM Setting, LDAP, Lifecycle, Primary ASP, Registry Variable, Retention Policy, Role, Rule, Schedule, Schema, Secondary ASP, Service, Threshold, and User.

Below the toolbar, there is a table with a header 'Item Type ▲' and a message 'There Is No Data To I'.

# Centralized Configuration – Items Not to Sync

The screenshot displays the 'Centralized Config Items Not To Sync' window in the Foglight interface. The window title is 'Centralized Config Items Not To Sync - http://fms-593:8080'. The left sidebar shows the navigation menu with 'Foglight Servers' expanded, listing 'Local FMS' and 'Development fms-593'. The main panel has a toolbar with 'Reload', 'Internal', 'Add Items (Cluster Level)', 'Add Items (FMS Level)', 'Select All', 'Select None', and 'Cancel "Do Not Sync"'. Below the toolbar is a table with columns 'Item Type', 'Name', and 'Not Synchronizable' (subdivided into 'On Cluster' and 'On FMS'). A dropdown menu is open over the 'Item Type' column, listing various configuration items. The table contains five rows of items, all marked as 'Not Synchronizable' on both the cluster and FMS levels.

Item Type	Name	Not Synchronizable	
		On Cluster	On FMS
<input type="checkbox"/> Cartridge	Blackout	On	On
<input type="checkbox"/> Cartridge	Cartridge	On	On
<input type="checkbox"/> Cartridge	Database Password	On	On
<input type="checkbox"/> Cartridge	Default Lifecycle	On	On
<input type="checkbox"/> Registry Variable	Derived Metric	On	On
<input type="checkbox"/> Registry Variable	Group	On	On
	Grouping Policy	On	On
	JVM Setting	On	On
	LDAP		
	Lifecycle		
	Primary ASP		
	Registry Variable		
	Retention Policy		
	Role		
	Rule		
	Schedule		
	Schema		
	Secondary ASP		
	Service		
	Threshold		
	User		



# Centralized Configuration – Administration Items

The screenshot displays the Foglight Administration console. On the left, the 'Clusters' sidebar shows three clusters: Development, Production, and WorldWide. The 'WorldWide' cluster is selected. The main panel is titled 'Foglight Servers' and contains a table of server configurations. Below the table, there are tabs for 'Cartridges', 'Schedules', 'Registry Variables', 'Derived Metrics', 'Thresholds', 'Rules', and 'Blackouts'. The 'Cartridges' tab is active, showing a list of installed cartridges.

**Cluster Settings**

- Cluster Name: WorldWide

**Foglight Servers**

	Host Name	IP Address	Port	Last Ping
<input checked="" type="radio"/>	fms	192.168.0.171	8080	7/28/16 5:33 AM
<input type="radio"/>	fms_AFRICA	192.168.0.176	8080	7/28/16 5:21 AM
<input type="radio"/>	fms_ASIA_1	192.168.0.177	8080	7/28/16 5:22 AM
<input type="radio"/>	fms_ASIA_2	192.168.0.178	8080	7/28/16 5:23 AM
<input type="radio"/>	fms_AUSTRALIA	192.168.0.179	8080	7/28/16 5:24 AM
<input type="radio"/>	fms_NA_1	192.168.0.180	8080	7/28/16 5:24 AM
<input type="radio"/>	fms_NA_2	192.168.0.181	8080	7/28/16 5:25 AM
<input type="radio"/>	fms_SA	192.168.0.182	8080	7/28/16 5:25 AM

View by: Administration | Agent Properties | Persistence Policies | Services | Security | WCF Resources

**Cartridges**

Name	Version	State	Last User Update
Active-Directory	5.6.8	Enabled	-
ApacheAgent	5.6.5	Enabled	-
ApacheMonitor	5.6.5	Enabled	-
Apache-UI	5.6.5	Enabled	-
ApplicationServers-Common	5.9.7.1	Enabled	-



# Centralized Configuration – Agent Properties

The screenshot displays the Foglight management console. On the left, a sidebar shows the navigation menu with 'Homes', 'Dashboards', and 'Clusters'. Under 'Clusters', 'Cluster Settings' is selected, showing a list of clusters: Development, Production, and WorldWide (selected). The main panel is titled 'Foglight Servers' and contains a table of server configurations. Below this table, there are tabs for 'Secondary ASPs' and 'Primary ASPs', with 'Primary ASPs' currently active, showing a list of agent types.

**Foglight Servers**

		Host Name	IP Address	Port	Last Ping
<input checked="" type="radio"/>	✓	fms	192.168.0.171	8080	7/28/16 5:33 AM
<input type="radio"/>	✓	fms_AFRICA	192.168.0.176	8080	7/28/16 5:21 AM
<input type="radio"/>	✓	fms_ASIA_1	192.168.0.177	8080	7/28/16 5:22 AM
<input type="radio"/>	✓	fms_ASIA_2	192.168.0.178	8080	7/28/16 5:23 AM
<input type="radio"/>	✓	fms_AUSTRALIA	192.168.0.179	8080	7/28/16 5:24 AM
<input type="radio"/>	✓	fms_NA_1	192.168.0.180	8080	7/28/16 5:24 AM
<input type="radio"/>	✓	fms_NA_2	192.168.0.181	8080	7/28/16 5:25 AM
<input type="radio"/>	✓	fms_SA	192.168.0.182	8080	7/28/16 5:25 AM

View by: Administration | **Agent Properties** | Persistence Policies | Services | Security | WCF Resources

Secondary ASPs | **Primary ASPs**

	Agent Type	Deleted	Last User Update
✓	ActiveDirectory	ⓘ	-
✓	ApacheAgent	ⓘ	-
✓	DB_Auto_Discovery_Azure	ⓘ	-
✓	DB_Azure_Database	ⓘ	-
✓	DB_Azure_Instance	ⓘ	-
✓	DB_SQL	ⓘ	-



# Centralized Configuration – Persistence Policies

The screenshot displays the Foglight Servers management interface. On the left, a sidebar shows navigation options: Homes, Dashboards, and Clusters. Under Clusters, 'Cluster Settings' is selected, showing a list of clusters: Development, Production (selected), and WorldWide. The main panel is titled 'Foglight Servers' and contains a table of server configurations. Below this table, there are tabs for 'View by: Administration | Agent Properties | Persistence Policies | Services | Security | WCF Resources'. The 'Persistence Policies' tab is active, showing a list of policies with columns for Name, Deleted, and Last User Update.

		Host Name	IP Address	Port	Last Ping
<input checked="" type="radio"/>	✓	fms_PROD_1	192.168.0.174	8080	7/28/16 5:19 AM
<input type="radio"/>	✓	fms_PROD_2	192.168.0.175	8080	7/28/16 5:20 AM

	Name	Deleted	Last User Update
✓	AccountActivity	ⓘ	-
✓	ActiveAccounts	ⓘ	-
✓	AgentMessages	ⓘ	-
✓	ApplicationConfiguration	ⓘ	-
✓	ApplicationResponseTime	ⓘ	-
✓	ApplicationResponseTimeHistory	ⓘ	-

# Centralized Configuration – Services

The screenshot displays the Foglight management console. On the left, the 'Clusters' sidebar shows 'Development' selected. The main area is divided into two sections: 'Foglight Servers' and a service configuration table.

**Cluster Settings:**

- Cluster Name: Development (selected), Production, WorldWide

**Foglight Servers:**

	Host Name	IP Address	Port	Last Ping
<input checked="" type="radio"/>	fms_DEV_1	192.168.0.172	8080	7/28/16 5:17 AM
<input type="radio"/>	fms_DEV_2	192.168.0.173	8080	7/28/16 5:18 AM

**View by: Administration | Agent Properties | Persistence Policies | Services | Security | WCF Resources**

	Topology Type	Name	Deleted	Last User Update
<input checked="" type="checkbox"/>	FSMCategory	Application Servers	<input type="checkbox"/>	-
<input checked="" type="checkbox"/>	FSMCategory	PSO Admin Pack	<input type="checkbox"/>	-
<input checked="" type="checkbox"/>	FSMService	PSO Auto Maintenance	<input type="checkbox"/>	-
<input checked="" type="checkbox"/>	FSMService	PSO Centralized Config	<input type="checkbox"/>	-
<input checked="" type="checkbox"/>	FSMCategory	User Host Groups	<input type="checkbox"/>	-
<input checked="" type="checkbox"/>	FSMCategory	Virtualization	<input type="checkbox"/>	-





# Centralized Configuration – Security

The screenshot displays the Foglight management console. On the left, the 'Clusters' sidebar shows three clusters: Development, Production, and WorldWide. The 'WorldWide' cluster is selected. The main panel is titled 'Foglight Servers' and contains a table of server configurations. Below the table, there are tabs for 'LDAP', 'Roles', 'Groups', and 'Users', with 'LDAP' currently active. The 'LDAP' tab shows a single entry: 'LDAP Default Configuration'.

**Cluster Settings**

Cluster Name
Development
Production
<b>WorldWide</b>

**Foglight Servers**

	Host Name	IP Address	Port	Last Ping
<input type="radio"/>	fms	192.168.0.171	8080	7/28/16 5:33 AM
<input type="radio"/>	fms_AFRICA	192.168.0.176	8080	7/28/16 5:21 AM
<input type="radio"/>	fms_ASIA_1	192.168.0.177	8080	7/28/16 5:22 AM
<input type="radio"/>	fms_ASIA_2	192.168.0.178	8080	7/28/16 5:23 AM
<input checked="" type="radio"/>	fms_AUSTRALIA	192.168.0.179	8080	7/28/16 5:24 AM
<input type="radio"/>	fms_NA_1	192.168.0.180	8080	7/28/16 5:24 AM
<input type="radio"/>	fms_NA_2	192.168.0.181	8080	7/28/16 5:25 AM
<input type="radio"/>	fms_SA	192.168.0.182	8080	7/28/16 5:25 AM

View by: Administration | Agent Properties | Persistence Policies | Services | **Security** | WCF Resources

**LDAP** | Roles | Groups | Users

Name	Last User Update
LDAP Default Configuration	-





# Centralized Configuration – WCF Resources

The screenshot displays the Foglight management console. On the left, the 'Clusters' sidebar shows a list of clusters: Development, Production, and WorldWide. The 'WorldWide' cluster is selected. The main area is titled 'Foglight Servers' and contains a table of server configurations. Below this table, there are tabs for different views: Administration, Agent Properties, Persistence Policies, Services, Security, and WCF Resources. The 'WCF Resources' tab is currently active, showing a table of WCF modules and their associated resources.

**Cluster Settings**

Cluster Name
Development
Production
<b>WorldWide</b>

**Foglight Servers**

	Host Name	IP Address	Port	Last Ping
<input type="radio"/>	fms	192.168.0.171	8080	7/28/16 5:33 AM
<input type="radio"/>	fms_AFRICA	192.168.0.176	8080	7/28/16 5:21 AM
<input type="radio"/>	fms_ASIA_1	192.168.0.177	8080	7/28/16 5:22 AM
<input type="radio"/>	fms_ASIA_2	192.168.0.178	8080	7/28/16 5:23 AM
<input type="radio"/>	fms_AUSTRALIA	192.168.0.179	8080	7/28/16 5:24 AM
<input checked="" type="radio"/>	fms_NA_1	192.168.0.180	8080	7/28/16 5:24 AM
<input type="radio"/>	fms_NA_2	192.168.0.181	8080	7/28/16 5:25 AM
<input type="radio"/>	fms_SA	192.168.0.182	8080	7/28/16 5:25 AM

View by: Administration | Agent Properties | Persistence Policies | Services | Security | **WCF Resources**

**WCF Resources**

WCF Module	Resource	Deleted	Last User Update
user:foglight	storage/coreDashboards-scriptHolder.xml	<input type="checkbox"/>	-



# Centralized Configuration — 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](mailto:Sales@LightSpeedPM.com)

