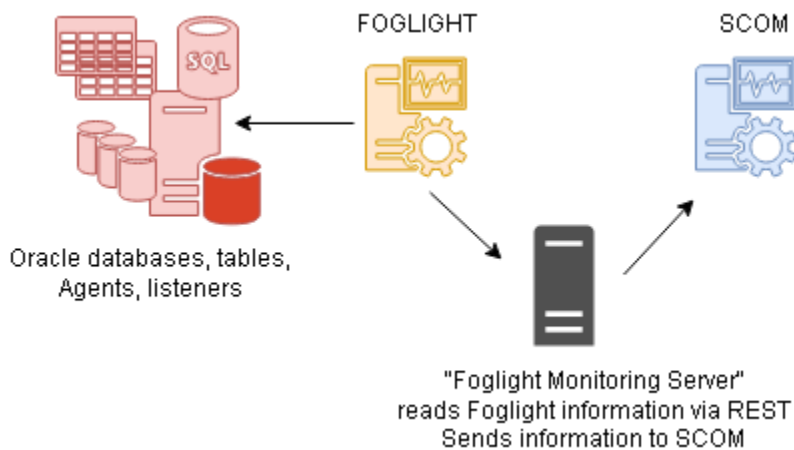# Integrate Foglight's monitored Oracle Databases into SCOM

Introduction

Connect APM Foglight is a Management Pack for SCOM which integrates health states of Oracle database components which are monitored via Foglight into SCOM.

Design

The Management Pack will use any specified Windows Server which is monitored via Agent from SCOM as "Foglight Monitoring Server". Inventory and Health State is gathered via REST calls from the Foglight Management Server.

FOGLIGHT SCOM

Oracle databases, tables, Agents, listeners

"Foglight Monitoring Server" reads Foglight information via REST Sends information to SCOM

Change History

Date	Build No.	Changes
2019-08-29	1.0.0.78	Initial Upload to GitHub

Contents

Management Pack Components

Classes

Foglight Monitoring Server

Id	Base
Connect.APM.Foglight.MonitoringServer	Windows!Microsoft.Windows.ComputerRole

Foglight Database Objects

Id	Base
Connect.APM.Foglight.DBO.Base	System!System.LogicalEntity
Connect.APM.Foglight.DBO.DatabaseSystem	Connect.APM.Foglight.DBO.Base
Connect.APM.Foglight.DBO.Database	Connect.APM.Foglight.DBO.Base
Connect.APM.Foglight.DBO.Server	Connect.APM.Foglight.DBO.Base
Connect.APM.Foglight.DBO.Listener	Connect.APM.Foglight.DBO.Base
Connect.APM.Foglight.DBO.Tablespace	Connect.APM.Foglight.DBO.Base
Connect.APM.Foglight.DBO.Agent	Connect.APM.Foglight.DBO.Base

Discoveries

Id	Base
Discover.Connect.APM.MonitoringServer	Windows!Microsoft.Windows.Computer
Discover.Connect.APM.DBObjects	Connect.APM.Foglight.MonitoringServer
Discover.Connect.APM.DBObjectRelations	SC!Microsoft.SystemCenter.RootManagementServer

Monitors

Unit

Id	Target
Monitor.Connect.APM.Tablespace	Connect.APM.Foglight.DBO.Tablespace
Monitor.Connect.APM.Serv er	Connect.APM.Foglight.DBO.Server
Monitor.Connect.APM.Listener	Connect.APM.Foglight.DBO.Listener
Monitor.Connect.APM.Agent	Connect.APM.Foglight.DBO.Agent
Monitor.Connect.APM.Database	Connect.APM.Foglight.DBO.Database

Dependency

Id	Target
Monitor.Dep.DatabaseSystemOnAgent	Connect.APM.Foglight.DBO.DatabaseSystem
Monitor.Dep.DatabaseSystemOnDatabase	Connect.APM.Foglight.DBO.DatabaseSystem
Monitor.Dep.DatabaseSystemOnListener	Connect.APM.Foglight.DBO.DatabaseSystem
Monitor.Dep.DatabaseSystemOnServer	Connect.APM.Foglight.DBO.DatabaseSystem

Aggregate

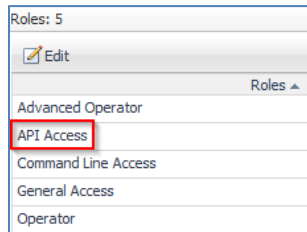| Id	Target
Monitor.Ag.Connect.APM.DatabaseSystem	Connect.APM.Foglight.DBO.DatabaseSystem

Views

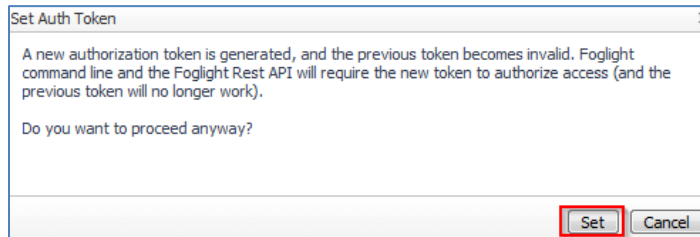| Id	Target
view.State.Connect.APM.Foglight.Agent	Connect.APM.Foglight.DBO.Agent
view.State.Connect.APM.Foglight.Database	Connect.APM.Foglight.DBO.Database
view.State.Connect.APM.Foglight.DatabaseSystem	Connect.APM.Foglight.DBO.DatabaseSystem
view.State.Connect.APM.Foglight.Listener	Connect.APM.Foglight.DBO.Listener
view.State.Connect.APM.Foglight.Server	Connect.APM.Foglight.DBO.Server
view.State.Connect.APM.Foglight.Tablespace	Connect.APM.Foglight.DBO.Tablespace

Configuration

Foglight Application Monitor

- Create a user in Active Directory and assign the following roles to that user (incl. the selected one)

Roles: 5
✏ Edit
Roles ▲
Advanced Operator
API Access
Command Line Access
General Access
Operator

- Set the token for the users:

Set Auth Token ✕

A new authorization token is generated, and the previous token becomes invalid. Foglight command line and the Foglight Rest API will require the new token to authorize access (and the previous token will no longer work).

Do you want to proceed anyway?

[Set] [Cancel]

Foglight Monitoring Server

The computer which should be used to query the Foglight Monitoring Server must be monitored by SCOM via Agent.

Paste the following text into a plain text file, rename it as *.reg and import it with double click on the monitoring computer:

```
Windows Registry Editor Version 5.00


[HKEY_LOCAL_MACHINE\SOFTWARE\ABCIT\APMFoglight]

"APMServerURL"="https://YOUR-FOGLIGHT-APM-URL:PORT"

"APMServerAuthToken"="YOUR-QUERY-USER-TOKEN"
```
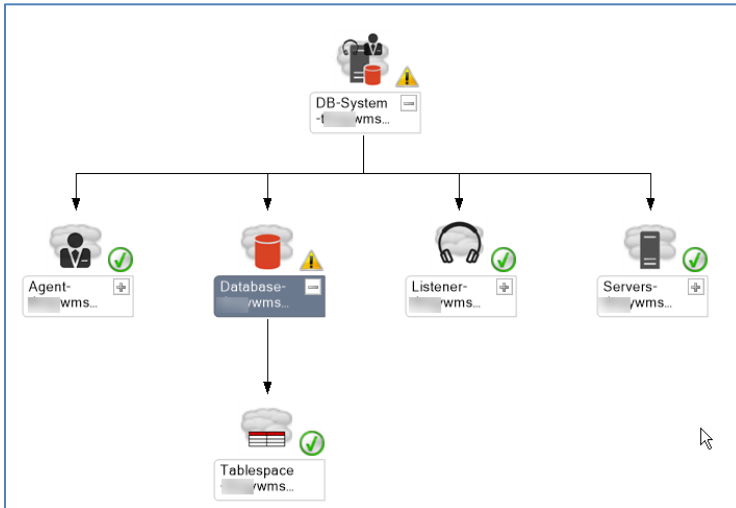
Usage

After a while discovered objects appear in the SCOM console.

Health State bubbles up through dependency monitors.

Alerting is disabled by default. Can be enabled via override. – Create a dedicated Management Pack for overrides if required!

Monitor Connect APM Databases Properties

General | Health | Alerting | Diagnostic and Recovery | Configuration | Product Knowledge | Company Knowledge | **Overrides**

Overrides are used to change the monitor, diagnostic and recovery configuration. You can also view all overrides applied to each by opening the summary dialog.

Choose the monitor, diagnostic or recovery

Monitor (Monitor Connect APM Database

Examples:

Disable a monitor: I want to disable mon

Override a diagnostic: I need to override

Override Properties

Monitor name:	Monitor Connect APM Databases
Category:	Availability Health
Overrides target:	Object: Database- vmsptdb-(Foglight)

Override-controlled parameters:

	Override	Parameter Name ▲	Parameter Type	Default Value	Override Value	Effective Value	Change Status	Er
	☐	Alert On State	Enumeration	The monitor...	The monitor i...	The monitor is...	[No change]	
	☐	Alert Priority	Enumeration	Low	Low	Low	[No change]	
	☐	Alert severity	Enumeration	Critical	Critical	Critical	[No change]	
	☐	Auto-Resolve Alert	Boolean	False	False	False	[No change]	
	☐	Enabled	Boolean	True	True	True	[No change]	
▶	☑	Generates Alert	Boolean	False	False	False	[Added]	
	☐	IntervalSeconds	Integer	300	300	300	[No change]	
	☐	SyncTime	String				[No change]	

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