aidev mongoDB MONITORING PLUG-IN FOR ORACLE ENTERPRISE MANAGER

ENTERPRISE MANAGER DYNAMIC GROUPS – A WALKTHROUGH EXAMPLE July 2016

OVERVIEW:

Dynamic target groups within Oracle EM bring the following benefits:

Dynamic group membership – membership is triggered through the group membership configuration. By mapping this to use target properties, targets can join or leave groups automatically.

A simplified security model – users/roles can be granted access to a dynamic group. Privilege propagation ensures consistent target privileges are granted to the user base.

Visibility of the wider environment – the group homepage, charts and other associated pages within EM, as well as the automatically refreshed dashboard, provide an administrator with a powerful view of the wider environment.

THIS WALKTHROUGH EXAMPLE LEVERAGES THE EXISTING ORACLE EM PROVIDED PROPERTY 'COMMENT' TO TRIGGER AUTOMATIC GROUP MEMBERSHIP OF MONGODB TARGETS. THE SCREENSHOTS ARE BASED ON EM12c, HOWEVER THE PROCESS IS IDENTICAL FOR EM13c.

SETTING TARGET PROPERTIES

From the Target homepage: Target Setup -> Properties

Image role Image role Home Monitoring Monitoring Image relation Job Activity Information Publisher Reports mongod Monitoring Image relation mongod Monitoring Image relation Environment Health Image relation Storage Image relation Host Information Image relation Database Information Security Log contents MultTLAB1 Configuration MultTLAB1 Target Setup Monitoring Configuration Target Information S.5 Remove Target Add to Group Hostname osboxes:2 Operating System Unux OS Version Ubuntu 3.16.0-30.40~14.04.1-generic 3.16.7-dxt3	🤹 Enterprise 🗸 👩 Targets	s + 🏫 <u>F</u> a	worites - 📀 Hist <u>o</u> ry -
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Operating System Unux OS Version Ubuntu 3.16.0-30.40~14.04.1-generic 3.16.7-dxt3 Architecture x85_64	Hostname	osboxes:2	Properties
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Architecture x86_64	OS Version	Ubuntu 3.1	6.0-30.40~14.04.1-generic 3.16.7-ckt3
	Architecture	x86_64	

🤹 Enterprise - 🔘 Targets - 🌟 Favorites - 🥝 History -			
mongoDB Database: r0_0 > Target Properties Target Properties			
Administration Groups and Dynamic Groups are on limitations. Administration Groups Hierarchy is not setup in thi	eated using membership criteria specified using is environment.		
Name	Value		
Comment			
Contact			
Cost Center			
Customer Support Identifier			
Department			
Lifecycle Status	Development		
Line of Business			
Location			
Operating System	Linux		
Platform	x86_64		
Target Version			

Click Edit



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mongoDB Database: r0_0 > Target Properties Edit Target Properties	> Edit Target Properties			
Administration Groups and Dynamic Groups are o limitations.	reated using membership criteria specified using global target properties a			
Administration Groups Hierarchy is not setup in the	his environment.			
Name	Value			
Comment	MGO_304_MULTILAB1			
Contact				
Cost Center				
Customer Support Identifier				
Department				
Lifecycle Status	Development \$			
Line of Business				
Location				
	Linux			
Operating System	Ciliax			
Operating System Platform	x86_64			

Enter the environment name into the Comments field

Click OK



The target properties will be updated.

mongoDB Database: r0_0 > Target Properties

Difformation Successfully updated the target properties.

Repeat the above process for all targets

CREATE THE DYNAMIC GROUP

From the EM homepage: Setup ->Add Target -> Dynamic Group

Configure Auto Discovery	Add Target	
Auto Discovery Results	Extensibility	•
Add Targets Manually	Proxy Settings	• 01:15 AM PDT 💍
 Group	Security	
 Dynamic Group	Incidents	•
 Administration Groups	Notifications	·
 Generic System	Cloud	, Hosts
Redundancy System	Provisioning and Patching	, 1
Generic Service	My Oracle Support	,
	Middleware Management	•
	Manage Cloud Control	•
	Command Line Interface	
	Management Packs	·

🤹 Enterprise - 🎯 Targets - 📩	Favorites - 📀 Hist <u>o</u> ry -	
Add Target		
Create Dynamic Group		
General Charts Columns	Dashboard Access	
* Name	MGO_304_MULTILAB1	
Privilege Propagation If W	Enabled if privilege propagation is enabled for a group, privileges granted c which you have Full Target privileges can be members of a privileg	in the group will be propagated to the group's member targets. Therefore only those targets on e propagation-enabled group.
Parent Groups	Add	
Define Membership Criteria Specify the target properties that d Define Membership Criteria	determine the group membership. All targets that match all criteria	(logical AND) will automatically be added to the group
Target Property		Property Value(s)
No Criteria Defined		
Time Zone	and for asked the associate such as into and blocks to this.	The second statistics should will also use this time second
Time Zone (UTC-08:00) US Pac	cific Time (PST)	roup. The groups statistics charts will also use this time zone.
	and time (PST) v	

Provide a <u>Name</u>

Click on 'Define Membership Criteria'

Define Membership Criteria

🤹 Enterprise - 🌘	🖲 Targets - 🌟 Eavorites - 🎯 Hist <u>o</u> ry -		
Add Target			
Create Privilege P Define Membe	ropagating Group > Define Membership Criteria ership Criteria		
Specify Member	ship Criteria Using Target Properties		
Target Types	Any	Q	
On Host	Any	Q	
Lifecycle Status	Any	Q	
Line of Business	Any	Q	
Location	Any	Q,	
Contact	Any	Q	
	Add/Remove Target Properties		
Member Preview	N		
Use the Update Me	ember Preview button to review the list of targets that	at currently match the	dynamic group criteria.
Update Member P	review		
Target Name			Applicable Target Types
No data found			

Click 'Add/Remove Target Properties'

🎼 Enterprise 🗸 🎯 Targets 🖌 🌟 Favorites 🗧 🥝 Hist <u>o</u> ry 🗸					
Add Ta	Add Target				
Create I Add/R	Create Privilege Propagating Group > Define Membership Criteria > Add/Remove Target Properties Add/Remove Target Properties				
Target p	roperties are used to describe operational attributes about a target. Select the target properties that will be				
Select /	All Select None				
Select	Target Property				
	Lifecycle Status				
	Line of Business				
	Location				
	Contact				
	Comment				
	Department				
	Target Version				
	Operating System				
	Platform				
	Cost Center				
	Customer Support Identifier				

Unselect all Properties except 'Comment'

Click Select



🍓 Enterprise 🗸	🔞 Targets → 🌟 Favorites → 🥝 History →	
Add Target		
Create Privilege Define Mem	e Propagating Group > Define Membership Criteria bership Criteria	
Specify Mem	bership Criteria Using Target Properties	
Target Types	Any	Q,
On Host	Any	Q
Comment	Any	Q
	Add/Remove Target Properties	
Member Prev	iew	
Use the Update	Member Preview button to review the list of targets the	nat currently match the dynamic g
Update Membe	r Preview	
Target Name		Applicabl
No data found		

Click the **spyglass icon** next to 'Comment'

Comment	Any	9

🤹 Enterprise 🗸 🎯 Targets 🗸 🏫	Favorites + 🞯 Hist <u>o</u> ry +	
Create Privilege Propagating Group Add/Remove	> Define Membership Criteria and Select >	Add/Remove
Select the Comment values that will b	e used as membership criteria for the group.	
Available Comment Values MGO_304_MULTILAB1	Selected Comment Values	
Additional Values		
Enter additional values for Comment	that should be added as membership criteria	for the group. Use commas to separate multiple values.

Select the appropriate Comment applicable to this environment.

Click the **Move** Icon

🤹 Enterprise - 🔞 Targets - 🌟 Eavorites - 🥝 History -
Create Privilege Propagating Group > Define Membership Criteria and Select > Add/Remove Add/Remove
Select the Comment values that will be used as membership criteria for the group.
Available Comment Values MGO_304_MULTILAB1 MGO_304_MULTILAB1 MOVE Move Move All © Remove © Remove All
Additional Melone
Enter additional values for Comment that should be added as membership criteria for the group. Use commas to separate multiple values. Add Add

Click Select



🍓 Enterprise 🗸	🎯 Targets → 🌟 Favorites → 🥝 History →				
Add Target					
Create Privilege Define Mem	Create Privilege Propagating Group > Define Membership Criteria Define Membership Criteria				
Specify Memb	ership Criteria Using Target Properties				
Target Types	Any	Q			
On Host	Any	Q			
Comment	MGO_304_MULTILAB1	Q			
	Add/Remove Target Properties				
Member Previ	iew				
Use the Update	Member Preview button to review the list of targets th	at currently match the o	dynamic group criteria.		
Update Member	r Preview				
Target Name			Applicable Target Types		
No data found					

Click Update Member Preview:

Update Member Preview

You should now see all targets for this environment listed in the Preview section:

Add Target			
Create Privilege Propagating Group > Define Membership Criteria Define Membership Criteria			
Specify Membership Criteria Using Target Properties			
Target Types Any	٩,		Overview
On Host Any	Q,		Choose the target properties the target propertity propertity propertity propertity propertity propertity
Comment MCO 204 MULTUAD1	0		 A target's properties must all on to the group.
Comment MGO_304_MOLTILAB1			Target properties that have no
Add/Remove Target Properties			criteria.
Member Preview			
Use the Update Member Preview button to review the list of targets that	t currently match the dynamic group criteria.		
Update Member Preview			
Target Name 🔺	Applicable Target Types	Host	Status
r0_0	mongoDB Database	emcc.example.com	1
r0_1	mongoDB Database	emcc.example.com	1
r0_r1_cfg_01	mongoDB Database	emcc.example.com	•
	mongoDB Database	emcc.example.com	1
r0_r1_mongos_01			A 1
r0_r1_mongos_01 r1_0	mongoDB Database	emcc.example.com	

Click OK



Ensure the timezone is correct for the targets:

🤹 Enterprise - 🎯 Iargets - 🌟 Eavorites - 🥝 History -							
Add Target							
Create Dynamic Group	Create Dynamic Group						
* Name Privilege Propagation	MGO_304_MULTILAB1 MGD_ada_molecture MGD_ada_mole	leges granted on the group will be propagated to the group's member targets. Therefore only those targets on ers of a privilege propagation-enabled group.					
Parent Groups		Add					
Define Membership Criteria Specify the target properties that	determine the group membership. All targets that n	natch all criteria (logical AND) will automatically be added to the group					
Define Membership Criteria							
Target Property		Property Value(s)					
Comment		MGO_304_MULTILAB1					
Time Zone							
The time zone you select here is used for scheduling operations such as jobs and blackouts on this group. The groups statistics charts will also use this time zone.							
Time Zone (UTC-08:00) US Pacific Time (PST)							

Click the **Charts** tab:

ORACLE Enterprise Manager Cloud Control 12c

🔹 Enterp	orise - 👩 <u>T</u>	argets + 🌟	Favorites -	🞯 Hist <u>o</u> r	+				
Add Tar	get								
Create	Dynamic (Group							
General	Charts	Columns	Dashboard	Access					
Add of Include (Specify the Add Add	default charts Oracle sugges he charts that	ted charts. will be show	n in the Group	Charts pag	e. By default, the com	monly used cha	rts for the target types con	tained in this Group are a	dded.
Select	Metric Name							Chart Description	
	None Specifie	ed							

From here we can add charts based on common metrics. Click 'Add':

We can select metrics for the home page charts:

se - 🞯 Targets - 🌟 Favorites - 🥝 History -							
Create Group > Add Chart Add Chart							
Select the type of target and metric you would like to use. Then select the chart type that you would monitor.							
Type mongoDB Database 💠							
Databases: DB Total Size : Size							
Je							
Targets with highest average 2 Display top targets with the highest average for the metric.							
Targets with lowest average 2 Display top targets with the lowest average for the metric.							
Group Statistics Minimum Maximum Average Sum Standard Deviation Charts the summary information across all targets of the specified type.							
Peak targets 2 \$ Display top targets with the highest value for the metric.							
Selected Targets							

Many metrics are available for use:

ORACLE Enterprise Manager Cloud Control 12c				
🍕 Enterpri	ise + 🎯 Targets + 🌟 Favorites + 🥥 History +			
Create Gr	oup > Add Chart			
Add Cha	irt			
Select the	type of target and metric you would like to use. Then select the	chart type that you would monitor.		
Туре	(mongoDB Database 🔹			
Metri	✓ Databases: DB Total Size : Size			
_	Databases: DB Total Size : Size delta			
Chart T	Databases: DB Total Size : Size Gb			
	Databases: DB Total Size : Size Mb			
	Server Status: Asserts : Message	_		
	Server Status: Asserts : Regular			
C	Server Status: Asserts : Rollovers			
	Server Status: Asserts : User			
C	Server Status: Asserts : warning			
	Server Status: BackgroundFlushing : Avgins	viation		
	Server Status: BackgroundFlushing : LastMS	tified type.		
0	Server Status: BackgroundFlushing : TotalMS			
-	Server Status: Connections : Available			
	Server Status: Connections : Current			
C	Server Status: Connections : Current Delta			
	Server Status: Connections : Total Created			
	Server Status: Connections : TotalCreated Delta			
	Server Status: Extra Info : Heap usage (bytes)			
	Server Status: Extra Info : Heap usage (bytes) - Delta			
	Server Status: Extra Info : Page faults			
	Server Status: Extra Info : Page faults – Delta			
	Server Status: Network : Bytes in			
	Server Status: Network : Bytes in delta			
	Server Status: Network : Bytes out			
	Server Status: Network : Bytes out delta			
	Server Status: Network : Num Requests			
	Server Status: Network : Num Requests delta			
	Server Status: OK : OK			
	Server Status: Opcounters : Delete			
	Server Status: Opcounters : Detete			
	Server Status: Opcounters : Insert			
	Server Status: Opcounters : Ouerv			
	Server Status: Opcounters : Update			
	Server Status: OpcountersRepl : Command			
	Server Status: OpcountersRepl : Delete			
	Server Status: OpcountersRepl : Get More			
	Server Status: OpcountersRepl : Insert			
	Server Status: OpcountersRepl : Query			
	Server Status: OpcountersRepl : Update			
	Server Status: PID : Pid			
	Server Status: PID : Pid Delta			
	Server Status: Uptime : Uptime			
	server status: Uptime : Uptime delta			

For this example we choose 'Server Status: Connections: Current'

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Click Continue:



The **Columns** tab allows columns to be renamed/modified.

🤹 Enterprise 🗸 🎯 Targets 🗸 🌟 Favorites 🗸 🎯 Hist <u>o</u> ry 🗸						
Add Target	Add Target					
Create Dynamic Group						
General Charts Columns Dashboard Access						
These columns and abbreviations will be seen in the Group Me	mbers page and also in the System Dashboard. Abbrevia					
Modify						
Name	Abbreviation					
Name	Name					
Туре	Туре					
Status	Status					
Incidents	Incidents					

The **Dashboard** tab allows customization of the system dash:

ORACLE Enterprise Manager Cloud Control 120	Setup + Help +	Log Out 으
🚓 Enterprise - 🚳 Tangets - 🎓 Favorites - 📀 Hadgy -	Search Target Name -	*
Add Target		
Create Dynamic Group		OK Cancel
General Charts Columns Dashboard Access		
Specify the parameters for the System Dashboard. The System Dashboard displays the current status of target availability and key performance metrics across members of the Group, as well as a list of all of its open Incidents and Problems. Go	to the Columns tab to choose the metrics that will be displayed in the Syster	m Dashboard
Refresh Frequency (minutes) 1		
View 🖲 Show All Individual Targets 🛛 🔍 Group by Target Type		
🗑 Show Incidents and Problems		
IP Dashboard column labels can be specified in the "Abbreviation" field in the "Columns" subtab.		
		OK Cancel

Finally, the **Access** tab can be used to grant access to users/groups:

🍓 Enter	🦚 Enterprise - 🎯 Targets - 🌟 Favorites - 🎯 History -						
Add Ta	Add Target						
Create	Dynamic	Group					
Genera	l Charts	Columns	Dashboard	Access			
Owner	SYSMAN						
Add							
Select	Name						
	No Data Found						

When finished, click $\ensuremath{\textbf{OK}}$



The following message will be shown:



We can now see the group under the **Groups** tab:

🔞 <u>E</u> nterpris	🤹 Enterprise 👻 🎯 Targets 👻 🐈 Favorites 🛩 🮯 Hist <u>o</u> ry 🛩					
Groups						
Groups allow or Administr	w users to monitor and manage many ta ration Group. Administration Groups are a	rgets as one. Group membership is d a special type of group meant to auto	efined either by explicitly adding matically deploy management s			
View +	🔮 Create 🗸 📑 Create Like 🥖	Edit 💥 Remove 🛛 🔄 View Me	mbers 🛛 🍓 Administration G			
Name	▲ ▽	Group Type	Members			
MGO	_304_MULTILAB1	78	mongoDB Database(6)			

And we can navigate to the Group **home page**:

ORACLE Enterprise Manager Cloud Control 12c			Setup 👻 Help 👻 🔢 SYSMAN 👻 Log Out 🔤
🤹 Enterprise 🗸 🔘 Targets 🔹 🌟 Eavorites 🕶 🥝 History 🗸			Search Target Name -
MGO_304_MULTILAB1 0			
🗞 Group →			Page Refreshed Sep 1, 2015 12:16:42 PM PDT C
			View By All Target Types
✓ General ⊙ ▼ Owner SYSMAN Group Type Privilege Propagation Enabled	Status 6 Members 🏠 Up 6		⊙
	Name	Type Status	Availability (%)
✓ Overview of Incidents and Problems	r0_r1_mongos_01 r0_0	\$ 1 \$ 1	100
Incidents	d_1	÷ 🕆	100
Updated in last 24 hours 0	r0_r1_cfg_01	* T	100
Category	N_1	\$ U	100
Availability	Compliance Summary		©•
Performance	General Members		
Security Others	In View Trends		
e-ti			Violations Average Compliance Score
Problems	Name		
Total Open 0	No data to display		
Summary of jobs whose start date is within the last 7 days			
Show Latest Run - Search Job Name -			
View - Status 30 30 30 30			
Name 🔗 🔇 🥵 🕒 Started Job Type	✓ Blackouts		©.≁
No job runs found	Create		
	Status	Submitted to	Any Member
	Scheduled 0		0
Columns Hidden 3 Total 0 Total Jobs 0 Executions	Active 0		0
Yeatch Recommendations (composite, MGO_304_MULTILAB1)	✓ Inventory and Usage		0-
View by Classification () larger type	Show Hosts Platform See Details		
Patch recommendations are not available.	Platform		Hosts
	Oracle Linux Server release 5.7		1
A My Oracle Support preferred credential is not set for any super user. Either set the preferred			

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The Charts defined earlier can be viewed through the **Charts** link:





We can also access the auto-refresh **Dashboard**:

Citer Enterprise Manager Cloud Control 120					
🍪 Enterprise + 🎯 Targets + 🌟 Favorites + 🎯 History +					
MGO_304_MULTILAB1 0 Scoup -					
	·P				
. 1	Show All				
	Dashboard				
	Target Operations				
	Membership History				
	e last 24 hours				
)	🛛 🔺 🏲				
-					
	· · · · · · · · · · · · · · · · · · ·				

Dashboard:

Help 🕶 Log Out Ο

												_
🔞 MGO_304_MULTILAB1												
Group: MGO_304_MULTILAB1 Stop Auto Refresh Customize												
Member Targets (6)												
						-		Incidents				
Name							Туре	Status -	•	8		▶
r1_1							mongoD8 Database	1		215	-	
r1_0							mongoDB Database	1 🏠	1.1	212	•	
r0_r1_mongos_01							mongoDB Database	1 🁚	-	-		
r0_r1_cfg_01							mongoDB Database	1 🏠	-	-	-	
r0_1							mongoDB Database	1 🏠	-	174	-	
r0_0							mongoDB Database	1 👚	-	2	-	-
✓ Incidents and Problems View + Category All ● 0 ● 0 ● 0 First picture Time pices last												
Summary	Severity	Status	level	Туре	update	Target name	Last Comment					
The value of Content for 253 is 2015-08-30107:37:06.904+01001 COMMAND [conn46370] command admin.5cmd command: getLastError (getLastError: 1, w: "majority", witmeout: 30000.0 } ntoreturn:1 keyUpdates:0 writeConflict:0 numYields:0 reslen:168 locks:(Global: { acquireCount: { - 7, 3, w: 3 } }, MMAPV1Journal: { acquireCount: { w: 3 }, acquireWaitCount: { w: 1 }, timeAcquiringMicros: { w: 6498 } }, Database: { acquireCount: { w: 3 }, Collection: { acquireCount: { W: 2 } }, oplog: { acquireCount: { w: 1 } } 1713ms	8	New	No	Incident	2 days 12 hours	r0_0	(Incident created by rule (Name = Incident management rule set for all targets, Create incident for critical metric alerts [System generated rule]).) <system> on Aug 29, 2015 11:51:12 PM PDT</system>					
The value of Content for 813 is 2015-08-30T07:37:06.904+0100 I COMMAND [conn46370] command admin.5cmd command: getLastError { getLastError: 1, w: "majority", witmeout: 30000.0 } https://witeconflicts.0umvildeids.cs; Global { acquireCoutt { r: 3, w: 3 } }, MMAPV1Journal: { acquireCount: { w: 3 }, acquireWaitCount: { w: 1 }, timeAcquiringMirros: { w: 8498 } }, Database: { acquireCount: { w: 1 }, Collection: { acquireCount: { w: 2 } }, collection: { acquireCount: { w: 2 } }, oplog: { acquireCount: { w: 1 } }	8	New	No	Incident	2 days 12 hours	r0_0	(Incident created by rule (Name = Incident management rule set for all targets, Create incident for critical metric alerts [System generated rule]).) <system> on Aug 29, 2015 11:41:12 PM PDT</system>					
The value of Content for 3 is 2015-08-27722:34:55.574+0100 I REPL [ReplicationExecutor] Error in heartbeat request to osboxes:27038; Location18915 Failed attempt to connect to osboxes:27038; couldn't connect to server osboxes:27038 (192.168.0.51), connection attempt failed	8	New	No	Incident	4 days 21 hours	r1_1	(Incident created by rule (Name = Incident management rule set for all targets, Create incident for critical metric alerts [System generated rule]).) <system> on Aug 27, 2015 2:55:44 PM PDT</system>					
The value of Content for 45 is 2015-08-27T22:35:09.631+0100 I REPL [ReplicationExecutor] Error in hearbeat request to osboxes:27038; Location18915 Failed attempt to connect to osboxes:27038; couldn't connect to server osboxes:27038 (192:168.0.51), connection attempt failed	8	New	No	Incident	4 days 21 hours	r1_1	(Incident created by rule (Name = Incident m metric alerts [System generated rule]).) <sys< td=""><td>anagement rule set for all targe TEM> on Aug 27, 2015 2:15:43</td><td>ts, Create PM PDT</td><td>inciden</td><td>t for critic</td><td>cal</td></sys<>	anagement rule set for all targe TEM> on Aug 27, 2015 2:15:43	ts, Create PM PDT	inciden	t for critic	cal
The value of Content for 17 is 2015-08-27T22:34:59.593+0100 I REPL [ReplicationExecutor] Error in hearbeat request to osboxes:27038; Location18915 Failed attempt to connect to osboxes:27038; couldn't connect the server cohores:27038 (192).168, 0.51). connection: attempt failed	8	New	No	Incident	4 days 21 hours	r1_1	(Incident created by rule (Name = Incident m metric alerts [System generated rule]).) <sys< td=""><td>anagement rule set for all targe TEM> on Aug 27, 2015 2:55:44</td><td>ts, Create PM PDT</td><td>inciden</td><td>t for critic</td><td>cal</td></sys<>	anagement rule set for all targe TEM> on Aug 27, 2015 2:55:44	ts, Create PM PDT	inciden	t for critic	cal
Columns Hidden 12												

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