# How to RDS\_Aurora OS monitoring in SQL DM for MySQL

RDS/Aurora OS monitoring feature introduced with Monyog-8.1.0. SQL DM for MySQL makes use of the CloudWatch API and uses the different OS metrics available with the API to fetch and display the data. All the RDS/Aurora OS monitors are shown under the monitor group "RDS/Aurora Instance Metrics" in Monitors page and the corresponding charts are available on the Dashboard page. In order to be able to see the OS data, you should first enable system metric for the RDS/Aurora instance

# **Enabling System Metrics**

Go to Servers, select Edit server, and choose Advanced of the RDS/Aurora instance and Enable System Metrics. Once enabled, the user should enter the following four parameters:

- 1. DB instance identifier: A unique name to identify your RDS/Aurora instance.
- 2. Instance region: The region in which your instance is hosted, for e.g: us-east-1
- 3. Access key ID: It is a twenty character long key ID which can be created from the AWS Management Console. It is used to make a programmatic request to AWS.
- 4. Secret access key: It is a forty characters long and can be created from the AWS Management Console. You can refer to the documentation, on how to generate credential keys in the following page: Getting your Access Key ID and Secret Access Key.

NFIG TAGS NOT	IFICATIONS ADVANCED
System Metrics	Enable System Metrics
Data Collection	Enter AWS credentials for OS monitoring
Replication	DB INSTANCE IDENTIFIER
Galera	rds
	INSTANCE REGION
	us-east-1
MySQL Query Log	ACCESS KEY ID
Audit Log	
Sniffer	
Deadlock	SECRET ACCESS KEY
Monitors	
Real-Time	Click here for more information how to get the credential keys.
Connection Settings	TEST
-	

# Enabling RDS/Aurora Custom Objects

Once the System metrics is enabled, you start getting OS data in the monitor group **RDS/Aurora Instance Metrics.** The custom objects CPU Utilization, Freeable memory, Read IOPS, and Write IOPS are enabled by default, while rest are disabled. In order to enable the others:

Go to Monitors, select RDS/Aurora Instance Metrics, click the 🕀 icon, select Manage RDS/Aurora Custom Objects, and select Yes for the Enabled option for any of the listed custom objects.

ADD/EDIT RDS/AURORA CUSTOM	OBJECTS	$\odot$	× Close
CPUUtilization	Name*		
DiskQueueDepth	CPUUtiliza	lion	
FreeableMemory	Name of the C	ustom RDS/AURORA Object.	
FreeStorageSpace ReadIOPS SwapUsage WriteIOPS	Enabled? Yes Select "Yes" to page.	No No have MONyog evaluate this Monitor and display the output on t	he Monitors
	Server(s) A comma sepa applied. If this I servers added	ted names of all the servers for which this Custom RDS/AUROI ield is left empty, this Custom RDS/AURORA Object is applicat	RA Object is le to all the
	Save	Cancel	

### Adding New RDS/Aurora Custom Objects

Apart from the default metrics shipped with SQL DM for MySQL, any user can also add an RDS/Aurora Custom Object from the list of available CloudWatch metrics (Refer here for the CloudWatch

metrics available for RDS and here for the Aurora instances). Adding RDS/Aurora Custom Objects is a 2-step process:

#### Adding a Custom Object

- Go to Monitors, select RDS/Aurora Instance Metrics, click the icon, select Manage RDS/Aurora Objects, and click Add new RDS/Aurora custom object (+).
   Enter the name of the CloudWatch Metric which you want to add under the Name field. You can also give the name of the servers comma
- 2. Enter the name of the CloudWatch Metric which you want to add under the Name field. You can also give the name of the servers comma separated for which you want this metric to be evaluated for.

ADD/EDIT RDS/AURORA CUSTO	MOBJECTS 🕀	× Close
CPUUtilization DiskQueueDepth	Name* NetworkReceiveThroughput	
FreeableMemory FreeStorageSpace	Name of the Custom RDS/AURORA Object.	
ReadIOPS SwapUsage WriteIOPS	Yes No Select "Yes" to have MONyog evaluate this Monitor and display the output on the page.	Monitors
	Server(s) RDS A comma sepated names of all the servers for which this Custom RDS/AURORA applied. If this field is left empty, this Custom RDS/AURORA Object is applicable servers added	Object is to all the
	Cancel	

## Adding the Monitor

- Go to Monitors, select RDS/Aurora Instance Metrics, click the icon, and select Add new monitor.
   Enter Monitor name and the Monitor group name in which you want to add this new monitor to (use "RDS/Aurora Instance metrics" if you want to add it in this group). Select System as "Type of counter" if you are adding a system metric.
   Enter a simple JavaScript function in the Value field using the Cloudwatch metric like:

function()
{
<pre>return GetAWSMetricVal("NetworkReceiveThroughput");</pre>
}

ADD NEW MONITOR	X Close V Save
General Advanced Alerts	
Name*	
Network Receive Throughput	
Monitor Group*	
RDS/Aurora Instance Metrics	
Type of counter           MySQL         System         Custom SQL           Select "MySQL" or "System" based on whether this Monitor or Dashboard chart displays MySQL or sy "Custom SQL" if this Monitor is based on a Custom SQL Object. Refer help for more details.	rstem-related information. Select
Enabled?  Select "Yes" to have MONyog evaluate this Monitor and display the output on the Monitors page.	
Formula	
NetworkReceiveThroughput	
Value*	
Value* function()	
Value* function() {	
Value* function() { return GetAWSMetricVal("NetworkReceiveThroughput");	

## Enabling RDS/Aurora Dashboard charts

Go to **Dashboard**, select **Manage Dashboard**, and **Enable the listed RDS/Aurora charts** under System Charts. The Dashboard page gives the flexibility to create a dashboard with a particular set of charts, so a user can create a dashboard with only RDS OS metrics charts for ease of monitoring.

#### Adding New RDS/Aurora Dashboard charts

To add a RDS/Aurora chart in the dashboard page, the corresponding RDS/Aurora custom objects should be defined and enabled at Monitors -> RDS

/Aurora Instance Metrics -> click the 🕒 icon -> select Manage RDS/Aurora Objects. Once enabled, follow the steps below to add the chart:

- 1. Go to Dashboard, select Manage Dashboard, and click Add new chart
- Select System as the "Type of counter" and give a proper chart name.
- 3. Enter the RDS/Aurora custom object in the series caption field and the corresponding MOM (Monyog Object Model) variable in Series values field.

EDIT CHART	X Close	✓ Save
Type of Counter           MySQL         System           Select "MySQL" or "System" based on whether this Monitor or Dashboard chart displays MySQL or system	s-related information	£.
Chart Name*		
Network Receive Throughput		
Series Caption*		
["NetworkReceiveThroughput"]		
Specify a JavaScript array of strings to be used as captions for each series in the chart		
Series Values*		
["NetworkReceiveThroughput"]		
Specify an array of JavaScript expressions which, after being evaluated, will be displayed by MONyog as a	veries on the chart.	
On/Off Y-Axis C Enable for indicating boolean values on Y-Axis. This property is useful when charting parameters such as a on a chart.	Ivailability of MySQI	USystem
Custom Y-Axis Unit  Enable for indicating boolean values on Y-Axis. This property is useful when charting parameters such as a on a chart.	availability of MySQI	USystem
Chart value Delta Current Controls how values in the series are plotted. Specifying "Delta" causes the difference between values from to be plotted; specifying "Current" causes the current value to be plotted as it is.	n the last two data o	ollections

SQL Diagnostic Manager for MySQL agentless and cost-effective performance monitoring for MySQL and MariaDB.

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