

## ■ MFM on AWS Installation Guide

(1) Go to amazon Marketplace homepage.

<https://aws.amazon.com/marketplace>

The screenshot shows the Amazon Marketplace homepage. The top navigation bar includes the 'aws marketplace' logo, a search bar with 'Your Software' entered, and links for 'Sign in or Create a new account', 'Your Account', 'Help', and 'Sell on AWS Marketplace'. The main content area is divided into several sections: a large banner for TIBCO JasperSoft, 'Featured Products' (TIBCO Spotfire, Trend Micro, Imperva), 'Operating Systems' (Amazon Linux AMI, CentOS, Oracle Linux, Ubuntu), and 'Popular Products' (Sophos, Alert Logic).

(2) search "MFM"

The screenshot shows the Amazon Marketplace search results for 'MFM'. The search bar contains 'MFM'. The results show four listings for 'MFM - MaxGauge for MySQL and RDS Standard Edition' in Medium, Small, Entry, and Large sizes. Each listing includes a star rating, version information, and pricing details.

Product Name	Price (Starting)	Price (Alternative)
MFM - MaxGauge for MySQL and RDS Standard Edition (Medium)	\$1.53/hr	\$11,168/yr
MFM - MaxGauge for MySQL and RDS Standard Edition (Small)	\$0.76/hr	\$5,584/yr
MFM - MaxGauge for MySQL and RDS Standard Edition (Entry)	\$0.24/hr	\$1,745/yr
MFM - MaxGauge for MySQL and RDS Advanced Edition (Large)	\$2.45/hr	\$17,868/yr

(3) Choose an appropriate product which matches your server numbers.

License Model		MySQL DB (MariaDB) Server
Standard Edition	Entry	01~05
	Small	06~20
	Medium	21~50
Advanced Edition	Large	51~100
	Unlimited License	Unlimited MySQL Servers

#### (4) Choose Delivery Methods

- Please choose "MaxGauge for MySQL&RDS Standard Edition(Entry)" not "Single AMI".
- Click "Continue".

The screenshot shows the AWS Marketplace product page for "MFM - MaxGauge for MySQL and RDS Standard Edition (Entry)". The page is divided into several sections:

- Header:** Includes the AWS Marketplace logo, search bar, and navigation links like "Sign In or Create a new account", "Your Account", "Help", and "Sell on AWS Marketplace".
- Product Title:** "MFM - MaxGauge for MySQL and RDS Standard Edition (Entry)" with a "Sold by: MaxGauge" label and a "See product video" link.
- Description:** A paragraph explaining that MaxGauge is a performance management tool designed to support an effective performance management and fault management of each component which make up the computer system including the database, system, applications, and etc. This product is an exclusive version for AWS Cloud. There are no necessary any installation on customer's server-side. MFM provides system metrics using AWS CloudWatch APIs. MFM supports MySQL (5.6 and 5.7 version) and MariaDB(10.0-11) which is installed on EC2 or RDS. Standard Edition use an EC2 instance for MFM server and repository. When your total count of host is over ... Read more
- Customer Rating:** "Be the first to review this product".
- Latest Version:** 1.0
- Operating System:** Linux/Unix, Amazon Linux 2016.03.0
- Delivery Methods:**
  - Single AMI:** 64-bit Amazon Machine Image (AMI) (learn more). Single box deployment of the product.
  - MaxGauge for MySQL & RDS Standard Edition (Entry):** CloudFormation template (view). This product use an EC2 instance for MFM server and repository.
- Support:** See details below
- AWS Services Required:** Amazon CloudFormation, Amazon EC2, Amazon EBS
- Highlights:**
  - Agentless monitoring: MaxGauge is easy to install and support both EC2 and RDS on AWS.
  - Self repository configuration: MaxGauge use an EC2 local repository for basic mode(Entry, Small, Medium), and use a RDS repository for enterprise mode(Large, Enterprise).
  - Support HTML5: Users can convenience monitor using a standard web-browser.
- Product Description:** MaxGauge is a performance management tool designed to support an effective performance management and fault management of each component which make up the computer system including the database, system, applications, and etc. This product is an exclusive version for AWS Cloud. There are no necessary any installation on customer's server-side. MFM provides system metrics using AWS CloudWatch APIs. MFM supports MySQL (5.6 and 5.7 version) and MariaDB(10.0-11) which is installed on EC2 or RDS. Standard Edition use an EC2 instance for MFM server and repository. When your total count of host is over ... Read more
- Pricing Details:**
  - For region:** Asia Pacific (Tokyo)
  - Delivery Methods:**
    - Single AMI
    - MaxGauge for MySQL & RDS Standard Edition (Entry)
  - Fees:** Hourly (selected) / Annual
  - Estimated Price:**
    - Estimated Software:** \$0.239/hr using 1 x m4.large machine
    - Estimated infrastructure:** \$323/month
      - Estimated infrastructure costs are a typical default deployment with 24x7 usage with the following assumptions
      - EC2:** 1 x m4.large machine or equivalent
      - EBS:** 1 x 600 GB General Purpose SSD
      - Total hourly fees will vary by instance type and EC2 region
      - For additional savings, you can select annual pricing to get 17% off listed price.
- Continue Button:** A yellow button with the text "Continue" and a tooltip that says "You will have an opportunity to review your order before launching or being changed."

(5) Click "Accept Software Terms".

Launch on EC2:

### MFM - MaxGauge for MySQL and RDS Standard Edition (Small)

**Custom Launch**  
CloudFormation, EC2 Console, APIs or CLI

Click "Accept Software Terms" to gain access to this software  
Once you accept these terms, you will have access to this software in any supported region. You can then launch the CloudFormation or AMIs listed below directly from the CloudFormation or EC2 console, EC2 APIs, or with other AWS management tools.

**Select a Version**

1.0, released 06/14/2016

[Usage Instructions](#)

**Select a Region**

Asia Pacific (Tokyo)

**Deployment Options**

- Single AMI  
64-bit Amazon Machine Image (AMI) (learn more)  
Single box deployment of the product.
- MaxGauge for MySQL & RDS Standard Edition (Small)**  
CloudFormation template (view)  
This product uses an EC2 instance for MFM server and repository.

**Software Pricing**

Subscription Term	Applicable Instance Type
<input checked="" type="radio"/> Hourly	Software fee
<input type="radio"/> Annual	Software fee

**Price for your selections:**  
Price will be dependent on usage

[Accept Software Terms](#)

You will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement (EULA) and your use of AWS services is subject to the AWS Customer Agreement.

**Pricing Details**

**For Region**  
Asia Pacific (Tokyo)

**Delivery Methods**  
MaxGauge for MySQL & RDS Standard Edition (Small)

**Estimated Price**  
Estimated Software : \$0.764/hr using 1 x m4.xlarge machine

**Estimated Infrastructure** : \$323/month

- Estimated infrastructure costs are a typical default deployment with 24x7 usage with the following assumptions
  - EC2 : 1 x m4 large machine or equivalent
  - EBS : 1 x 600 GB General Purpose SSD
- Total hourly fees will vary by instance type and EC2 region.
- For additional savings, you can select annual pricing to get 17% off listed price.

(6) If the page below occurs, click "Return to Product Page".

✓ Software and AWS hourly usage fees apply when the instance is running. These fees will appear on your monthly bill.

Thank you! Your subscription will be completed in a few moments.

**Next Steps**

- You will receive an email at mhoh@es-em.com once your subscription completes.
- The email will have a link to where you can launch the product from the CloudFormation console or EC2 console.
- If you want to only launch the AMI, you can also find and launch these AMIs by searching for the AMI IDs in the "Community AMIs" tab of the EC2 Console. Launch Wizard, or launch with the EC2 APIs. The AMI IDs are available in the custom launch tab of the product's subscription page.
- You can view this information at a later time by visiting the Your Software page. For help, see step-by-step instructions for launching Marketplace Products from the AWS Console.

**Release Notes**  
First Release

[Return to Product Page](#)

**Related Links**

- [AWS Management Console](#)
- [Your Software](#)
- [Continue shopping on AWS Marketplace](#)

**Service Catalog**  
Click here for instructions to deploy Marketplace products in AWS Service Catalog.

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(7) Click "Launch with CloudFormation Console" at the bottom of the page.



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GO
▶ Your Software

### Launch on EC2:

## MFM - MaxGauge for MySQL and RDS Standard Edition (Entry)

**Custom Launch**  
CloudFormation, EC2 Console, APIs or CLI

#### Launching Options

- You can click "Launch with CloudFormation Console" button below and follow the steps in the CloudFormation console to launch a stack of this software.
- If you prefer to launch just an AMI, you can select Single AMI and click the "Launch with EC2 Console" and follow the instructions to launch an instance of this software.
- If you want to only launch the AMI, you can also find and launch these AMIs by searching for the AMI IDs (shown below) in the "Community AMIs" tab of the EC2 Console [Launch Wizard](#), or launch with the [EC2 APIs](#).
- You can view this information at a later time by visiting the Your Software page. For help, see [step-by-step instructions](#) for launching Marketplace Products from the AWS Console.

**▼ Select a Version**

Usage Instructions

**▼ Select a Region**

**▼ Deployment Options**

**Single AMI**  
64-bit Amazon Machine Image (AMI) [\(learn more\)](#)  
 Single box deployment of the product

**MaxGauge for MySQL & RDS Standard Edition (Entry)**  
CloudFormation template [\(view\)](#)  
 This product use an EC2 instance for MFM server and repository.

**▼ Software Pricing**

**Subscription Term**

Hourly  
 Annual

**Applicable Instance Type**

**Software fee**

Varies  
 Depends on instance type, reference pricing chart.

**▼ Launch**

Launch with CloudFormation Console

#### Security Group

The vendor recommends using the following security group policies. You will be able to select these settings or configure your own when launching this software.

Connection Method	Protocol	Port Range	Source (IP or Group)
SSH	tcp	22 - 22	0.0.0.0/0
	tcp	8170 - 8170	0.0.0.0/0

#### Release Notes

First Release

**Pricing Details**

**For Region**  
Asia Pacific (Tokyo)

**Delivery Methods**  
MaxGauge for MySQL & RDS Standard Edition (Entry)

**Estimated Price**

**Estimated Software** : \$0.239/hr using 1 x m4.large machine

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**Estimated Infrastructure** : \$323/month

- Estimated infrastructure costs are a typical default deployment with 24x7 usage with the following assumptions
  - EC2** : 1 x m4 large machine or equivalent
  - EBS** : 1 x 600 GB General Purpose SSD
- Total hourly fees will vary by instance type and EC2 region
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(8) Choose the basic template and click "Next".

The screenshot shows the 'Create stack' wizard in the AWS console, specifically the 'Select Template' step. The navigation pane on the left includes 'Select Template' (highlighted), 'Specify Details', 'Options', and 'Review'. The main content area is titled 'Select Template' and contains the following sections:

- Design a template:** Includes a description and a 'Design template' button.
- Choose a template:** Includes a description and three options:
  - Select a sample template: A dropdown menu.
  - Upload a template to Amazon S3: Includes a '파일 선택' (File selection) button and the text '선택된 파일 없음' (No files selected).
  - Specify an Amazon S3 template URL: Includes a text input field with the URL 'https://s3.amazonaws.com/awamp-fulfillment-cf-templates-prod/e036b205-159' and a 'View/Edit template in Designer' link.

At the bottom right of the main content area, there are 'Cancel' and 'Next' buttons.

The footer of the page includes 'Feedback', 'English', and copyright information: '© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

(9) Enter information below in "Specify Details" page.

- KeyName : choose the keypair which is used for access already existing ec2 ssh.
- SSHLocation : enter 0.0.0.0/0 if you want to SSH log in ec2 server everywhere.
- SubnetId : Choose the one that already existing.
- VpcId : Choose the one that already existing.
- WebCIDRBlock : 0.0.0.0/0 (If you want to access MFM everywhere, just keep it)

**Create stack**

- Select Template
- Specify Details**
- Options
- Review

### Specify Details

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more.](#)

**Stack name**

### Parameters

**InstanceType**  Maxgauge EC2 instance type

**KeyName**  Name of an existing EC2 KeyPair to enable SSH access to the instances

**SSHLocation**  The IP address range that can be used to SSH to the EC2 instances

**SubnetId**  SubnetId of an existing subnet (for the primary network) in your Virtual Private Cloud (VPC)

**VpcId**  VpcId of your existing Virtual Private Cloud (VPC)

**WebCIDRBlock**  The IP address range that can be used to connect Maxgauge Web

[Cancel](#) [Previous](#) [Next](#)

(10) Keep the existing value on Options page and lick "Next".

**Create stack**

- Select Template
- Specify Details**
- Options
- Review

### Specify Details

Specify a stack name and parameter values. You can use or change the default parameter values, which are defined in the AWS CloudFormation template. [Learn more.](#)

**Stack name**

### Parameters

**InstanceType**  Maxgauge EC2 instance type

**KeyName**  Name of an existing EC2 KeyPair to enable SSH access to the instances

**SSHLocation**  The IP address range that can be used to SSH to the EC2 instances

**SubnetId**  SubnetId of an existing subnet (for the primary network) in your Virtual Private Cloud (VPC)

**VpcId**  VpcId of your existing Virtual Private Cloud (VPC)

**WebCIDRBlock**  The IP address range that can be used to connect Maxgauge Web

[Cancel](#) [Previous](#) [Next](#)

(11) Check all the information in Review page and click "Create".

## Create stack

- Select Template
- Specify Details
- Options
- Review**

### Review

#### Template

**Template URL** <https://s3.amazonaws.com/awssmp-fulfillment-cf-templates-prod/e036b205-1597-43de-b26a-57f089674444-9a6fa04f-ae43-41f9-a1f7-bf371df2b6c0.template>  
**Description** AWSMP::e036b205-1597-43de-b26a-57f089674444::9a6fa04f-ae43-41f9-a1f7-bf371df2b6c0--AWS CloudFormation Template MFM Standard Edition - Entry  
**Estimate cost** Link is not available

#### Details

**Stack name** AWSMPMaxGaugeforMySQLRDSStandardEditionEntry  
**InstanceType** m4.large  
**KeyName**  
**SSHLocation**  
**SubnetId**  
**VpcId**  
**WebCIDRBlock** 0.0.0.0/0  
**Create IAM resources** No

#### Options

##### Tags

No tags provided

##### Advanced

**Notification**  
**Timeout** none  
**Rollback on failure** Yes

Cancel Previous **Create**

(12) MFM on AWS creation status is offered.

- When creation is finished, status will change to "CREATE\_COMPLETE".

The screenshot shows the AWS CloudFormation console. At the top, there are navigation tabs: "Create Stack", "Actions", and "Design template". Below this is a table of stacks with columns: "Stack Name", "Created Time", "Status", and "Description". The table contains four rows of stacks, all with the same name "AWSMPMaxGaugeforMySQLRDSStandardEditionEntry". The statuses are "CREATE\_IN\_PROGRESS", "CREATE\_COMPLETE", "ROLLBACK\_COMPLETE", and "CREATE\_COMPLETE". The "Stack Name" column is highlighted in blue. Below the table, there are tabs for "Overview", "Outputs", "Resources", "Events", "Template", "Parameters", "Tags", "Stack Policy", and "Change Sets". The "Events" tab is selected, and the content area below it says "Select a stack".

Stack Name	Created Time	Status	Description
AWSMPMaxGaugeforMySQLRDSStandardEditionEntry	2016-07-13 17:11:15 UTC+0900	CREATE_IN_PROGRESS	AWSMP::e036b205-1597-43de-b26a-57f089674444::9a6fa04f-ae43-41f9-a1f7-bf371df2b6c0--AWS CloudFormation Template MFM
AWSMPMaxGaugeforMySQLRDSStandardEditionEntry	2016-07-13 09:56:33 UTC+0900	CREATE_COMPLETE	AWSMP::e036b205-1597-43de-b26a-57f089674444::9a6fa04f-ae43-41f9-a1f7-bf371df2b6c0--AWS CloudFormation Template MFM
AWSMPMaxGaugeforMySQLRDSStandardEditionEntry	2016-07-13 09:48:47 UTC+0900	ROLLBACK_COMPLETE	AWSMP::e036b205-1597-43de-b26a-57f089674444::9a6fa04f-ae43-41f9-a1f7-bf371df2b6c0--AWS CloudFormation Template MFM
AWSMPMaxGaugeforMySQLRDSStandardEditionEntry	2016-07-12 18:51:14 UTC+0900	CREATE_COMPLETE	AWSMP::e036b205-1597-43de-b26a-57f089674444::9a6fa04f-ae43-41f9-a1f7-bf371df2b6c0--AWS CloudFormation Template MFM

(13) Click "Stack Name" link, creation details will be offered.

- Click "Resources" and check the details.

- Click "Physical ID" of MaxgaugeServer which is colored in blue.

**AWS** Services Edit

Welcome to AWS Tokyo Support

CloudFormation Stack List Stack Detail: AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5

## AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5

Other Actions Update Stack

**Stack name:** AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5

**Stack ID:** arn:aws:cloudformation:ap-northeast-1:632725447126:stack/AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5/5dd9ac10-48d1-11e6-b23b-5001aba75438

**Status:** CREATE\_COMPLETE

**Status reason:**

**Description:**

► Outputs

▼ Resources

Logical ID	Physical ID	Type	Status	Status Reason
EC2SG	sg-787c361c	AWS::EC2::SecurityGroup	CREATE_COMPLETE	
MaxgaugeServer	i-2dfcc4a2	AWS::EC2::Instance	CREATE_COMPLETE	
WaitCondition01	arn:aws:cloudformation:ap-northeast-1:632725447126:stack/AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5/5dd9ac10-48d1-11e6-b23b-5001aba75438/WaitHandle01	AWS::CloudFormation::WaitCondition	CREATE_COMPLETE	
WaitHandle01	https://cloudformation-waitcondition-ap-northeast-1.s3-ap-northeast-1.amazonaws.com/arm%3Aaws%3Acloudformation%3Aap-northeast-1%3A632725447126%3Astack/AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5/5dd9ac10-48d1-11e6-b23b-5001aba75438/WaitHandle01?AWSAccessKeyId=AKIAI26TP2XVEMTYTWLQ&Expires=1468483881&Signature=6VLD7%2FMNqjGYbTW0y5m3f1xo7ig%3D	AWS::CloudFormation::WaitCondition...	CREATE_COMPLETE	

▼ Events

(14) MFM EC2 Server has been created.

**AWS** Services Edit

Welcome to AWS Tokyo Support

EC2 Dashboard

Launch Instance Connect Actions

search: i-2dfcc4a2 Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name	Monitoring	Launch Time
AWSMPMaxGaugefor...	i-2dfcc4a2	m4.large	ap-northeast-1c	running	2/2 checks ...	None	ec2-52-196-28-20.ap-no...	52.196.28.20	tokyo	disabled	July 13, 2016 at 5:11:42 PM

Instance: i-2dfcc4a2 (AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5) Public DNS: ec2-52-196-28-20.ap-northeast-1.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags	Usage Instructions
Instance ID	i-2dfcc4a2			Public DNS ec2-52-196-28-20.ap-northeast-1.compute.amazonaws.com
Instance state	running			Public IP 52.196.28.20
Instance type	m4.large			Elastic IPs
Private DNS	ip-172-31-10-161.ap-northeast-1.compute.internal			Availability zone ap-northeast-1c
Private IPs	172.31.10.161			Security groups AWSMPMaxGaugeforMySQLRDSStandardEditionEntry5-EC2SG-UPQ25BXOM8BC
Secondary private IPs				view rules
VPC ID	vpc-ea361d8f			Scheduled events No scheduled events
Subnet ID	subnet-5835606			AMI ID MaxGauge for MySQL and RDS Entry-4038a205-1597-43de-k26a-57f89674444-ami-db31c0b6-3 (ami-d0ca21b1)
Network interfaces	eth0			Platform -
Source/dest. check	True			IAM role -
EBS-optimized	False			Key pair name tokyo
Root device type	ebs			Owner 632725447126
Root device	/dev/xvda			Launch time July 13, 2016 at 5:11:42 PM UTC+9 (less than one hour)
Block devices	/dev/xvda /dev/sdb			Termination protection False
				Lifecycle normal
				Monitoring basic
				Alarm status None
				Kernel ID -
				RAM disk ID -

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(15) Use Public IP Address to access MFM Server.

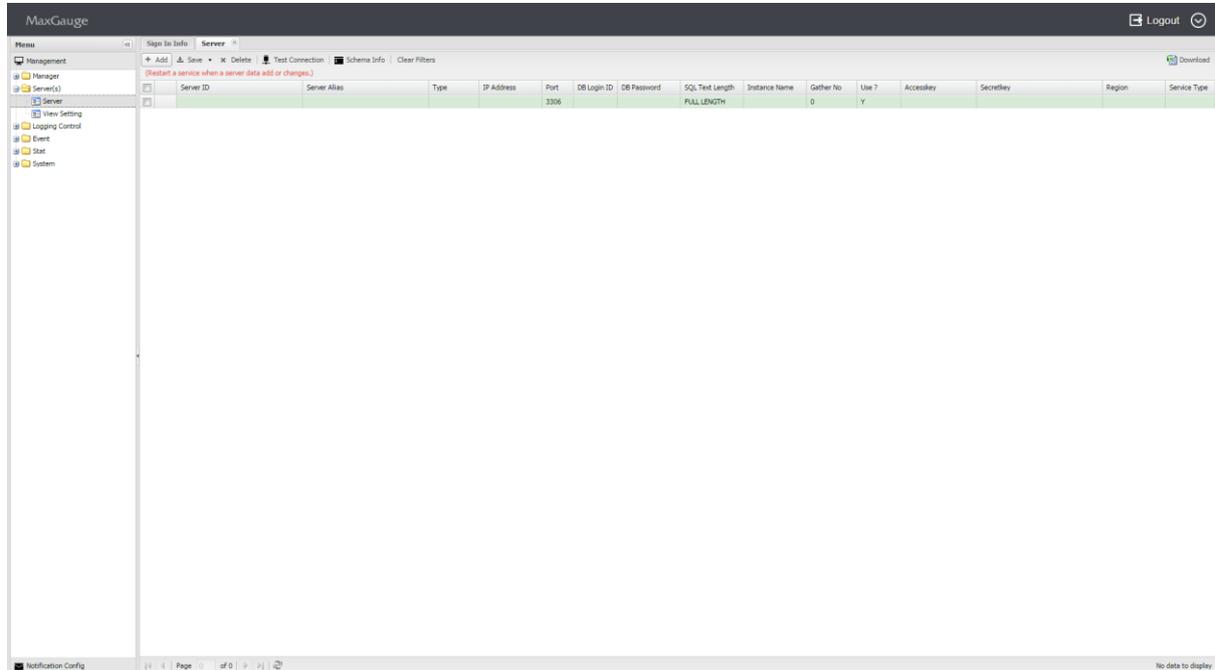
http://xxx.xxx.xxx.xxx:8170

ID: Administrator

Password : EC2 Server instance id value

(16) When you see the MFM Management page, choose "Server" setting and register DB which needs to be monitored.

- Click "Add" to finish adding server.



- Input value is as below.

[mysql DB Monitoring Info]

- IP : inter mysql Server IP

- port : default 3306

- select db user id/password which has authority

. Create MFM access user for target DB and grant select permission. "%" below should be defined to MFM server IP that was accessed.

```
CREATE USER 'mfuser'@'%' IDENTIFIED BY 'password';

GRANT SELECT ON performance_schema.* TO 'mfuser'@'%'; // mark Performance schema

GRANT SELECT ON mysql.* TO 'mfuser'@'%'; // mark information like DB Parameter

GRANT REPLICATION CLIENT ON *.* TO 'mfuser'@'%'; // mark replication client information

GRANT PROCESS ON *.* TO 'mfuser'@'%'; // mark process list information

FLUSH PRIVILEGES; // save permission information
```

- Service Type : RDS or EC2 : Choose

- Set target security group inbound: DB should be accessed through MFM Server IP (default port

3306)

[AWS IAM user creation and info offering is necessary for Cloud Watch]

- instance name : in the case of RDS, it is RDS DB instance Identifier TARGET DB

In the case of EC2, it is **EC2 Instance ID which is created by Target DB.**

- AWS Region:

- aws IAM user access key, secret key,

- aws user should have permissions below:

- . CloudWatchFullAccess
- . AmazonEC2ReadOnlyAccess
- . AmazonRDSReadOnlyAccess

(17) Save all your settings and click "Test Connection" to check the connection.

(18) When the connection is successful, SSH login in MFM EC2 Server and restart the service.

- apply the 2 shells.

```
# /home/ec2-user/maxgauge/bin/all.stop.sh  
# /home/ec2-user/maxgauge/bin/all.start.sh
```

(19) Log in MFM on AWS and start to monitor.

