

■ MaxGauge for Amazon Aurora Installation Guide

(1) Go to amazon Marketplace homepage.

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

The screenshot shows the AWS Marketplace homepage. At the top, there's a navigation bar with the 'aws marketplace' logo, a search bar, and links for 'Sign in or Create a new account', 'Your Account', 'Help', and 'Sell on AWS Marketplace'. Below the navigation bar, there's a 'Shop All Categories' dropdown and a search bar. The main content area is divided into several sections: a featured banner for TIBCO JasperSoft, a 'Featured Products' section with TIBCO Spotfire, Trend Micro, and Imperva, and an 'Operating Systems' section with Amazon Linux AMI, CentOS, Oracle Linux, and Ubuntu.

(2) Search "MFAA"

The screenshot shows the MaxGauge product page on AWS Marketplace. The product name is 'MaxGauge for Amazon Aurora, MySQL, MariaDB'. The seller is 'MaxGauge' and the latest version is '1.0'. There are buttons for 'Continue to Subscribe' and 'Save to List'. The page also includes a 'Product Overview' section with a description of the tool and a 'Highlights' section with key features.

Product Overview

MaxGauge is a database performance management tool designed to support an effective performance management of your database system. MFAA monitors Amazon Aurora, MySQL, and MariaDB providing easy interface to use. You can monitor database system with real-time visibility of intergrated dashboard and find root cause of Database errors easily. Improve your database performance easily and quickly with MaxGauge.

Version	1.0
Sold by	MaxGauge
Video	See Product Video
Categories	Monitoring Testing
Operating System	Linux/Unix, Amazon Linux 2017.09.01
Fulfillment Methods	Amazon Machine Image

Highlights

- Intergrated DashDB: Monitoring Amazon Aurora, MySQL, MariaDB as RDS and those on EC2 in one screen.
- Agentless monitoring: MaxGauge is easy to install and support both EC2 and RDS on AWS.

(3) Click "Continue to Subscribe"

-Select the Region you want to launch and click "Launch with EC2 Console"

Launch on EC2:

Maxgauge for Amazon Aurora, MySQL, MariaDB

Manual Launch

With EC2 Console, API or CLI

Launch Options

You can click the "Launch with EC2 Console" buttons below and follow the instructions to launch an instance of this software.

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.

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.

Version

1.0, released 03/14/2018

[Usage Instructions](#)

Launch

AMI IDs

Region	ID	
US East (N. Virginia)	ami-e306c59e	Launch with EC2 Console
US East (Ohio)	ami-0bd6e06e	Launch with EC2 Console
US West (N. California)	ami-38041058	Launch with EC2 Console
US West (Oregon)	ami-e864f490	Launch with EC2 Console
Canada (Central)	ami-69088f0d	Launch with EC2 Console
EU (Frankfurt)	ami-342b405b	Launch with EC2 Console
EU (Ireland)	ami-ac95dcd5	Launch with EC2 Console
EU (London)	ami-c040a7a7	Launch with EC2 Console
EU (Paris)	ami-ca58eeb7	Launch with EC2 Console
Asia Pacific (Singapore)	ami-622c7c1e	Launch with EC2 Console
Asia Pacific (Sydney)	ami-c51edda7	Launch with EC2 Console
Asia Pacific (Seoul)	ami-7f882411	Launch with EC2 Console
Asia Pacific (Tokyo)	ami-5e591338	Launch with EC2 Console
Asia Pacific (Mumbai)	ami-d3c990bc	Launch with EC2 Console
South America (Sao Paulo)	ami-1c550070	Launch with EC2 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	8070 - 8070	0.0.0.0/0

Release Notes

First Release

Pricing Information

Use the Region dropdown selector to see software and infrastructure pricing information for the chosen AWS region.

For Region:

Additional Taxes May Apply

Pricing Details

Software pricing is based on your chosen options, such as subscription term and AWS region. Infrastructure prices are estimates only. Final prices will be calculated according to actual usage and reflected on your monthly report.

1 Software Pricing

The data below shows pricing per instance for services hosted in US East (N. Virginia).

Maxgauge for Amazon Aurora, MySQL, MariaDB - Metered (Hosts)	
Unit Type	/host/hour
Target Server Number per hour	\$0.10

This software is priced along a consumption dimension. Your bill will be determined by the number of hosts you use per hour.

2 Infrastructure Pricing

Total hourly price will vary by instance type and EC2 region. [Click here for full EC2 pricing](#)

EBS General Purpose (SSD) volumes ⓘ
\$0.10 per GB-month of provisioned storage

Assumes On-Demand EC2 pricing ⓘ
[Learn about instance types](#)

Data Transfer Fees not included
[Learn more about Data Transfer Fees](#)

For lower prices you can utilize:
[Reserved Instances](#)
[Spot Instances](#)

(4) Select instance type

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: m4.large (6.5 ECU, 2 vCPUs, 2.4 GHz, Intel Xeon E5-2676v3, 8 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="radio"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input type="radio"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="radio"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="radio"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="radio"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="radio"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="radio"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="radio"/>	General purpose	m5.large	2	8	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="radio"/>	General purpose	m5.xlarge	4	16	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="radio"/>	General purpose	m5.2xlarge	8	32	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="radio"/>	General purpose	m5.4xlarge	16	64	EBS only	Yes	Up to 10 Gigabit	Yes
<input type="radio"/>	General purpose	m5.12xlarge	48	192	EBS only	Yes	10 Gigabit	Yes
<input type="radio"/>	General purpose	m5.24xlarge	96	384	EBS only	Yes	25 Gigabit	Yes
<input checked="" type="radio"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="radio"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes
<input type="radio"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

(5) Finish Instance Detail Information

- Click "Choose an existing IAM role from your account" in IAM role.
- Click "Create new IAM role manually"

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 [Launch into Auto Scaling Group](#)

Purchasing option: Request Spot instances

Network: vpc-c9f42aa0 (default) [Create new VPC](#)

Subnet: No preference (default subnet in any Availability Zone) [Create new subnet](#)

Auto-assign Public IP: Use subnet setting (Enable)

Placement group: Add instance to placement group.

IAM role: The AMI you have selected (ami-7882411) supports metered pricing and requires an IAM role with the aws-marketplace:MeterUsage permission to record software usage. [Learn more.](#)
 Automatically create an IAM role with the required permission and the name below.
 Choose an existing IAM role from your account
 None [Create new IAM role manually](#)

Shutdown behavior: Stop

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring
Additional charges apply

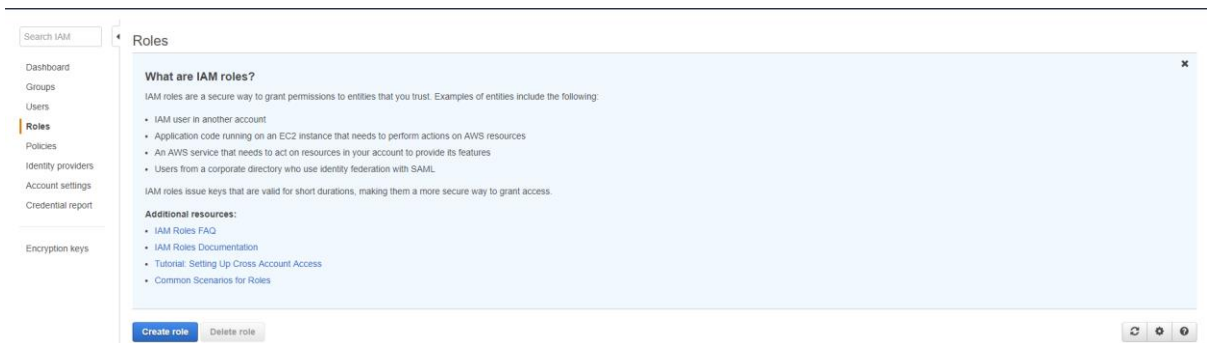
EBS-optimized instance: Launch as EBS-optimized instance

Tenancy: Shared - Run a shared hardware instance
Additional charges will apply for dedicated tenancy.

Advanced Details

Cancel Previous **Review and Launch** Next: Add Storage

(6) Click "Create role"




(7) Click "EC2" and then "Next"


Create role




Select type of trusted entity




AWS service
EC2, Lambda and others



Another AWS account
Belonging to you or 3rd party



Web identity
Cognito or any OpenID provider



SAML 2.0 federation
Your corporate directory

Allows AWS services to perform actions on your behalf. [Learn more](#)

Choose the service that will use this role

EC2
Allows EC2 instances to call AWS services on your behalf.

Lambda
Allows Lambda functions to call AWS services on your behalf.

API Gateway	DMS	Elastic Transcoder	Machine Learning	SageMaker
Application Auto Scaling	Data Pipeline	ElasticLoadBalancing	MediaConvert	Service Catalog
Auto Scaling	DeepLens	Glue	OpsWorks	Step Functions
Batch	Directory Service	Greengrass	RDS	Storage Gateway
CloudFormation	DynamoDB	GuardDuty	Redshift	
CloudHSM	EC2	Inspector	Rekognition	
CloudWatch Events	EMR	IoT	S3	
CodeBuild	ElastiCache	Kinesis	SMS	
CodeDeploy	Elastic Beanstalk	Lambda	SNS	
Config	Elastic Container Service	Lex	SWF	

* Required

Cancel

Next: Permissions

(8) Click "Create policy" and type the following JSON

-These are values that cannot be changed.

Create policy

1 2

A policy defines the AWS permissions that you can assign to a user, group, or role. You can create and edit a policy in the visual editor and using JSON. [Learn more](#)

Visual editor

JSON

[Import managed policy](#)

```
3  "Statement": [  
4  {  
5    "Action": [  
6      "ec2:describeInstances",  
7      "rds:describeDBInstances",  
8      "rds:describeDBLogFiles",  
9      "rds:downloadDBLogFilePortion",  
10     "cloudwatch:getMetricStatistics",  
11     "logs:getLogEvents",  
12     "aws-marketplace:MeterUsage"  
13   ],  
14   "Effect": "Allow",  
15   "Resource": "*" }  
16 ]  
17 ]  
18 }
```

```
{  
  
  "Version": "2012-10-17",  
  
  "Statement": [  
  
    {  
  
      "Action": [  
  
        "ec2:describeInstances",  
  
        "rds:describeDBInstances",  
  
        "rds:describeDBLogFiles",  
  
        "rds:downloadDBLogFilePortion",  
  
        "cloudwatch:getMetricStatistics",  
  
        "logs:getLogEvents",  
  
        "aws-marketplace:MeterUsage"  
  
      ],  
  
      "Effect": "Allow",  
  
      "Resource": "*" }  
  
    ]  
  
  ]  
  
}
```

}

(9) Create Policy

Create policy

1 2

Review policy

Name* MFAA

Use alphanumeric and '+=, @-_' characters. Maximum 128 characters.

Description

Maximum 1000 characters. Use alphanumeric and '+=, @-_' characters.

Summary

Filter

Service	Access level	Resource	Request condition
Allow (5 of 133 services) Show remaining 128			
CloudWatch	Limited: Read	All resources	None
CloudWatch Logs	Limited: Read	All resources	None
EC2	Limited: List	All resources	None
Marketplace Metering	Limited: Write	All resources	None
RDS	Limited: List, Read	All resources	None

(10) Back to the earlier page and select your Policy then Click "Next Review"

Create role

1 2 3

Attach permissions policies

Choose one or more policies to attach to your new role.

Create policy

Refresh

Filter: Policy type Showing 1 result

	Policy name	Attachments	Description
<input checked="" type="checkbox"/>	MFAA	1	MFAA

* Required

Cancel

Previous

Next: Review

(11) Type the Role name and then Click "Create role"

Create role

Review

Provide the required information below and review this role before you create it.

Role name*

Use alphanumeric and '+=, @-_' characters. Maximum 64 characters.

Role description

Maximum 1000 characters. Use alphanumeric and '+=, @-_' characters.

Trusted entities AWS service: ec2.amazonaws.com

Policies [MFAA](#)

* Required

Cancel

Previous

Create role

(12) Apply the role which was created in IAM.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances [Launch into Auto Scaling Group](#)

Purchasing option Request Spot instances

Network [Create new VPC](#)

Subnet [Create new subnet](#)

Auto-assign Public IP

Placement group Add instance to placement group

IAM role [Create new IAM role manually](#)
The AMI you have selected (ami-7f82411) supports metered pricing and requires an IAM role with the aws-marketplace:MeterUsage permission to record software usage. [Learn more.](#)
 Automatically create an IAM role with the required permission and the name below
 Choose an existing IAM role from your account

Shutdown behavior

Enable termination protection Protect against accidental termination

Monitoring Enable CloudWatch detailed monitoring
Additional charges apply.

EBS-optimized instance Launch as EBS-optimized instance

Tenancy
Additional charges will apply for dedicated tenancy.

Advanced Details

Cancel


Previous


Review and Launch

Next: Add Storage

(13) Click "Launch" to start EC2

Launch Status

 **Your instances are now launching**
The following instance launches have been initiated: i-0c5660620979f202 [View launch log](#)

 **Get notified of estimated charges**
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

Getting started with your software

To get started with Maxgauge for Amazon Aurora, MySQL, MariaDB

To manage your software subscription

[View Usage Instructions](#)

[Open Your Software on AWS Marketplace](#)

Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- [Create status check alarms to be notified when these instances fail status checks.](#) (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)
- [Manage security groups](#)

[View Instances](#)

(14) Use Public IP Address to access MFAA Server.

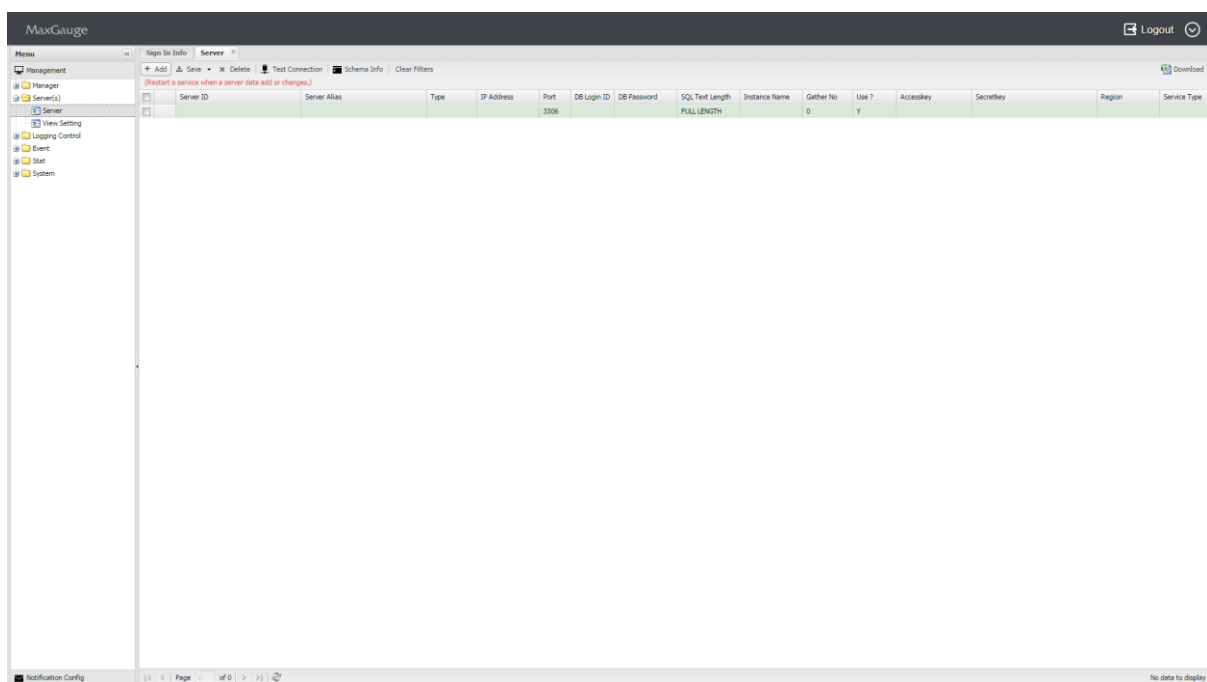
http://xxx.xxx.xxx.xxx:8070

ID: Administrator

Password : EC2 Server instance id value

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

- Click "Add" to finish adding server.



Server ID	Server Alias	Type	IP Address	Port	DB Login ID	DB Password	SQL Text Length	Instance Name	Caller No	User ?	Accesskey	Secretkey	Region	Service Type
No data to display														

- Input value is as below.

[mysql DB Monitoring Info]

- IP : inter mysql Server IP

- port : default 3306

- select db user id/password which has super, replication client, process, select authority

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

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

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

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

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

GRANT PROCESS ON *.* TO 'mfaauser'@'%'; // 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 MFAA 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
```

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

(17) When the connection is successful, SSH login in MFAA 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
```

(18) Log in MFAA on AWS and start to monitor.

