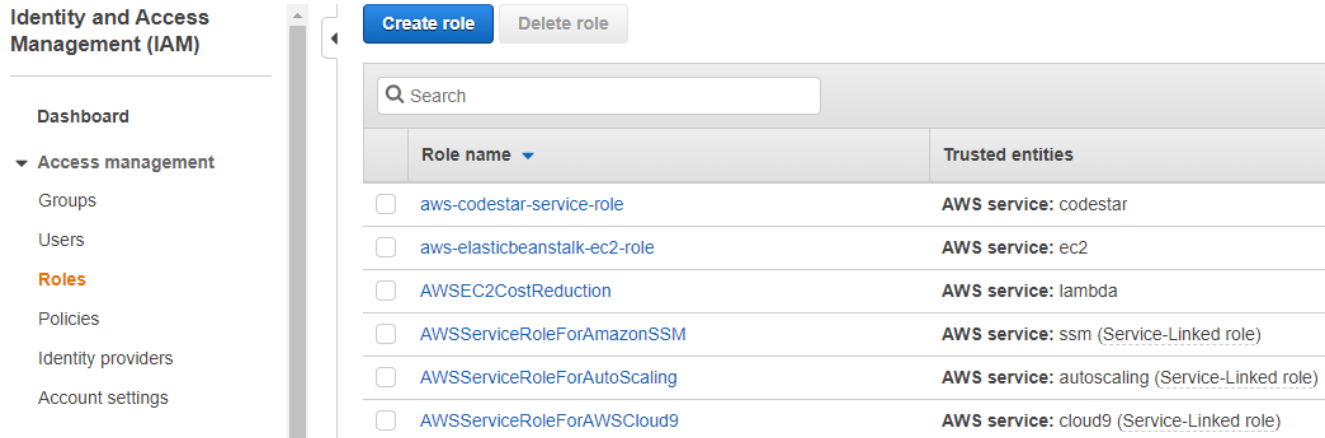


Installation of CloudWatch Agent on Amazon Linux2 AMI

Overview

This document is to install the CloudWatch Agent on linux 2 machines, and to monitor the custom metrics in CloudWatch dashboard.

Navigate to the 'Roles' and click on the 'Create role' button to create new role.

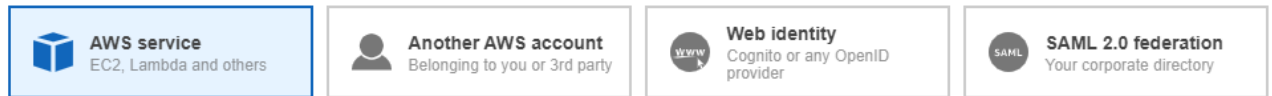


Choose the service that you want to allow the EC2 to call the AWS Services and then click on 'Next : Permissions' button.

Create role



Select type of trusted entity



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	CodeBuild	EKS	Kinesis	S3
AWS Backup	CodeDeploy	EMR	Lambda	SMS
AWS Chatbot	CodeStar Notifications	ElastiCache	Lex	SNS
AWS Support	Comprehend	Elastic Beanstalk	License Manager	SWF
Amplify	Config	Elastic Container Service	Machine Learning	SageMaker
AppStream 2.0	Connect	Elastic Transcoder	Macie	Security Hub
AppSync	DMS	ElasticLoadBalancing	MediaConvert	Service Catalog
Application Auto Scaling	Data Lifecycle Manager	Forecast	Migration Hub	Step Functions
Application Discovery	Data Pipeline	Global Accelerator	OpsWorks	Storage Gateway

* Required

CancelNext: Permissions

Attach permissions policies, by selecting one by one and then click on 'Next : Tags' button.

Create role

▼ Attach permissions policies

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



Create policy

↺

Filter policies ▼

Q CloudWatchAgent

Showing 2 results

	Policy name ▼	Used as
<input checked="" type="checkbox"/>	▶  CloudWatchAgentAdminPolicy	Permissions policy (1)
<input checked="" type="checkbox"/>	▶  CloudWatchAgentServerPolicy	Permissions policy (1)

▶ Set permissions boundary

Create role



Add tags (optional)

IAM tags are key-value pairs you can add to your role. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this role. [Learn more](#)

Key	Value (optional)	Remove
<input type="text" value="Add new key"/>	<input type="text"/>	

You can add 50 more tags.

[Cancel](#)

[Previous](#)

[Next: Review](#)

Create a Tag by specifying the Key & Value and then click on 'Next : Review' button.

Create role

1 2 3 4

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**
-  [AmazonSNSFullAccess](#)
 -  [CloudWatchFullAccess](#)
 -  [CloudWatchAgentAdminPolicy](#)
 -  [CloudWatchAgentServerPolicy](#)

Permissions boundary Permissions boundary is not set

No tags were added.

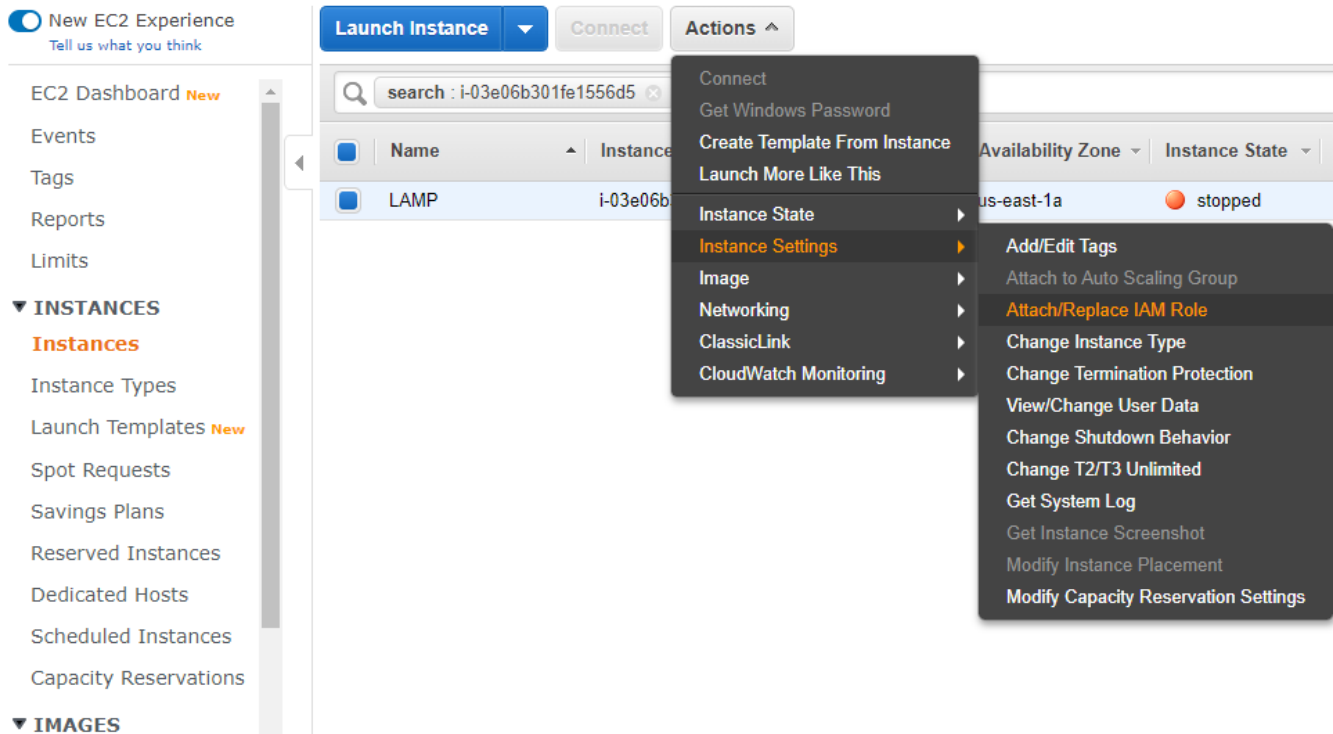
* Required

Cancel

Previous

Create role

After review, navigate to the EC2 console, select the instance then attach the newly created role to the instance.



Install the CloudWatch Agent on Amazon Linux machine as shown below

```
cd /home/ec2-user
```

sudo wget sudo wget https://s3.amazonaws.com/amazoncloudwatch-agent/amazon_linux/amd64/latest/amazon-cloudwatch-agent.rpm

sudo rpm -U ./amazon-cloudwatch-agent.rpm

copy the below .json file in /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d/location and run commands as shown in below

```
[ec2-user@ip-10-0-1-10 ~]$ cd /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d/
[ec2-user@ip-10-0-1-10 amazon-cloudwatch-agent.d]$ ll
total 0
[ec2-user@ip-10-0-1-10 amazon-cloudwatch-agent.d]$ sudo vi amazon-cloudwatch-agent-new.json
[ec2-user@ip-10-0-1-10 amazon-cloudwatch-agent.d]$ sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -a fetch-config -m ec2 -c file:/opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d/amazon-cloudwatch-agent-new.json -s
/opt/aws/amazon-cloudwatch-agent/bin/config-downloader --output-dir /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d --download-source file:/opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d/amazon-cloudwatch-agent-new.json --mode ec2 --config /opt/aws/amazon-cloudwatch-agent/etc/common-config.toml --multi-config default
Successfully fetched the config and saved in /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d/file_amazon-cloudwatch-agent-new.json.tmp
Start configuration validation...
/opt/aws/amazon-cloudwatch-agent/bin/config-translator --input /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.json --input-dir /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d --output /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.toml --mode ec2 --config /opt/aws/amazon-cloudwatch-agent/etc/common-config.toml --multi-config default
2019/12/06 13:14:15 Reading json config file path: /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d/file_amazon-cloudwatch-agent-new.json.tmp ...
Valid json input schema.
!! Detecting runasuser...
No csm configuration found.
Configuration validation first phase succeeded
/opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent -schematest --config /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.toml
Configuration validation second phase succeeded
Configuration validation succeeded
Created symlink from /etc/systemd/system/multi-user.target.wants/amazon-cloudwatch-agent.service to /etc/systemd/system/amazon-cloudwatch-agent.service.
Redirecting to /bin/systemctl restart amazon-cloudwatch-agent.service
[ec2-user@ip-10-0-1-10 amazon-cloudwatch-agent.d]$ sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -m ec2 -a status
{
  "status": "running",
  "starttime": "2019-12-06T13:14:14+0000",
  "version": "1.231221.0"
}
[ec2-user@ip-10-0-1-10 amazon-cloudwatch-agent.d]$
```

sudo vi amazon-cloudwatch-agent-new.json

Download the below file and add the inside content to it. To add content, open the file with above command, and click on i symbol from keyboard, then vi editor goes to the **Enter** mode, copy the content from file and right click on Linux black console.

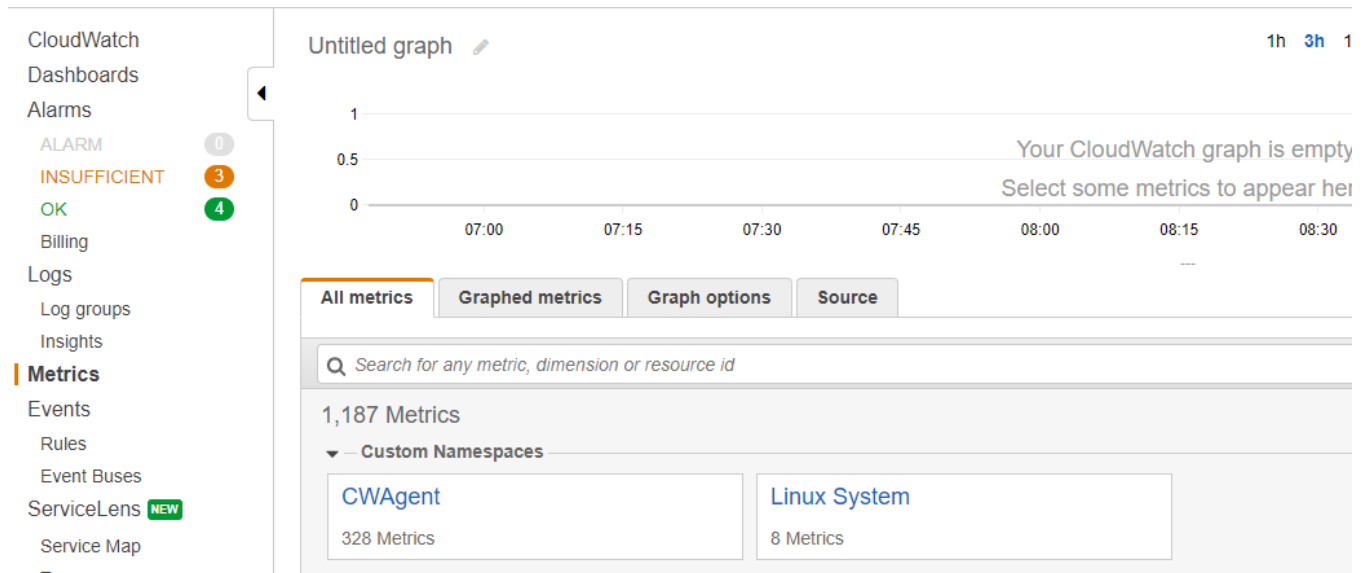
[amazon-cloudwatch-agent-new.json](#)

sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -a fetch-config -m ec2 -c file:/opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.d/amazon-cloudwatch-agent-new.json -s

To check the status of agent, run this command

sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -m ec2 -a status

After running successfully, check CloudWatch console, you will get the CWAgent



Whenever a person created a new machine, he/she needs to attach the IAM role to the instance to get the CWAgent metrics on CloudWatch console.