

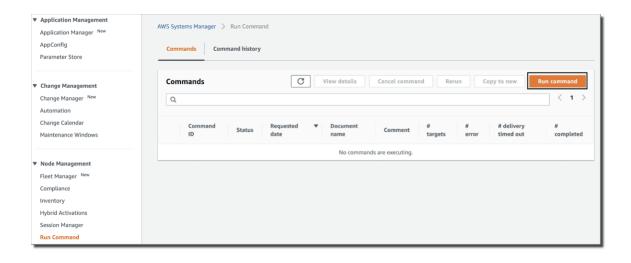
Deploy Cloudwatch Agent on an EC2

This is a guide to Install and configure Cloudwatch agent on EC2. It covers 2 cases

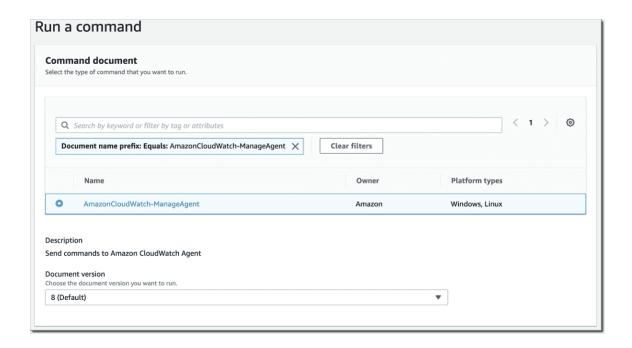
- If you would like to add standard monitoring (Memory, Disk)
- If you would like to send application logs to cloudwatch along with standard monitoring

To deploy CloudWatch Agent on an EC2 instance, follow these steps:

- 1. Install CW agent on EC2.
 - a. Navigate to the AWS Systems Manager console.
 - b. On the left menu, select **Node Management > Run Command**. Then click **Run command**.



c. In the Command document search bar, choose **Document prefix name**, then **Equals**, and then specify the name of the document as **AWS-ConfigureAWSPackage**.



Then specify the following command parameters:

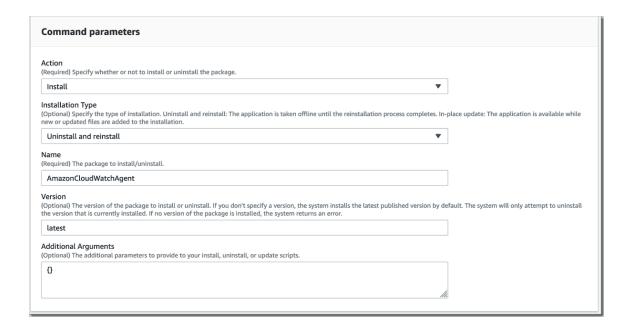
· Action: Install

Installation Type: Uninstall and Reinstall

• Name: AmazonCloudWatchAgent

Version: Latest

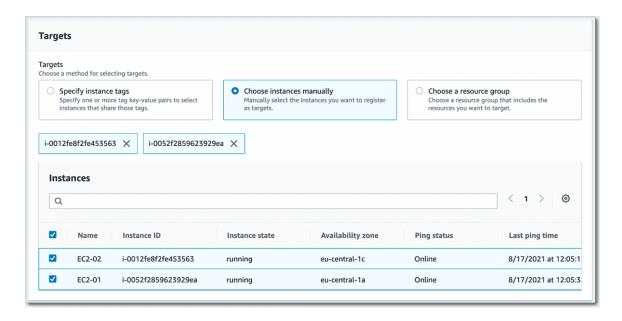
• Additional Arguments: No additional arguments needed



Specify command parameters

Under the **Targets** section, specify the method for selecting the instances in which you want to install the CloudWatch agent. There are three methods:

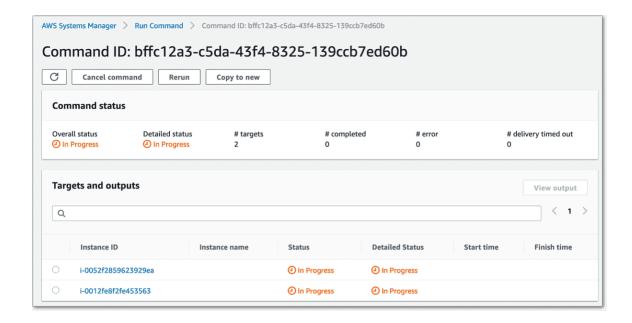
- **Instance Tags**: If the instances you're using are tagged, you can specify one or more instance tag key–value pairs to identify the instances on which the tasks will run.
- Manually: Manually select the instances on which the tasks will run.
- **Resource Group**: If the instances are gathered under, you can specify the resource group on which the tasks will run.



Uncheck Enable an S3 bucket under Output options.

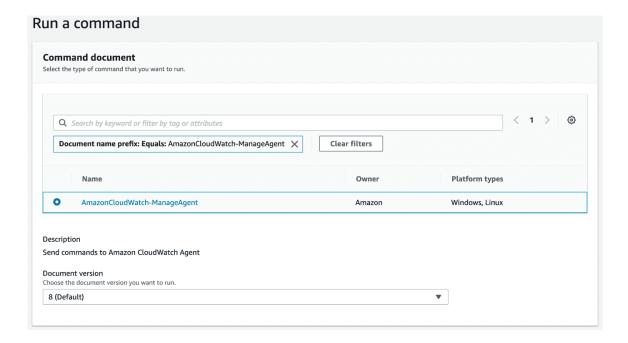
Finally, click Run.

Once you click **Run**, you are redirected to a new page where you can monitor the status of the running tasks.



2. Configure Cloudwatch Agent

- ▼ If you would like to add standard monitoring (Memory, Disk)
 - Navigate to Run Command the same way we did earlier.
 - In the Command document search bar, choose Document prefix name, then Equals, and then specify the name of the document AmazonCloudWatch-ManageAgent.



Search for the CloudWatch-Manage Agent command document

Then specify the following command parameters:

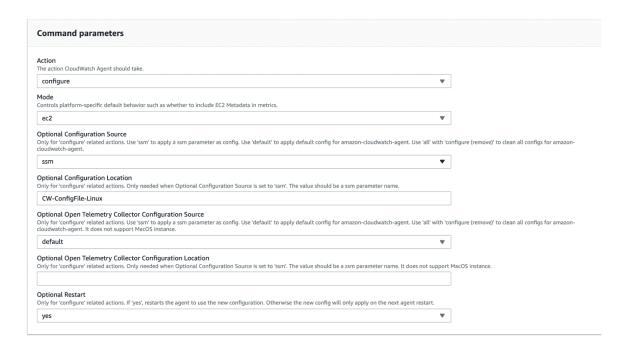
Action: configure

Mode: ec2

Optional Configuration Source: ssm

- Optional Configuration Location: AmazonCloudWatch-cw-agent-config
- Optional Open Telemetry Collector Configuration Source: default

The rest of the sections are the same as in the command document we ran earlier.



Finally, you can click **Run** and wait until it configures the CloudWatch agent on the instances you specified.

- ▼ If you would like to send application logs to cloudwatch along with standard monitoring
 - · SSH into the instance.
 - Create a file(if not exist) /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.json using below template

•

```
{
    "agent": {
        "metrics_collection_interval": 60,
        "run_as_user": "root"
```

```
},
  "logs": {
          "logs_collected": {
                   "files": {
                            "collect_list": [
                                    {
                                             "file_path":
                                             "log_group_na
                                             "log_stream_n
                                             "retention_in
                                    }
                           ]
                   }
          }
  },
  "metrics":{
"append_dimensions":{
   "InstanceId": "${aws:InstanceId}",
   "InstanceType":"${aws:InstanceType}"
},
"metrics_collected":{
       "mem":{
      "measurement":[
         "mem_used_percent"
      ],
      "metrics_collection_interval":60,
                   "resources":[
         II * II
                   ]
   },
   "disk":{
      "measurement":[
         "used_percent"
      ],
      "metrics_collection_interval":60,
      "resources":[
         "/"
      ]
   }
}
```

```
}
}
```

Make changes to below parameters as required:

- -> file_path: path of log files
- --> log_group_name: name of existing/new cloudwatch log group
- --> log_stream_name: name of log stream
- --> retention_in_days: retention of logs

More details about the fields can be found here

• Run below command to start Cloudwatch agent with the config file

```
sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-a
```

• Verify that the agent is running by checking the status:

```
sudo systemctl status amazon-cloudwatch-agent.service
```

The output should show that the agent is active and running.

You can now monitor your EC2 instance using CloudWatch metrics and logs.

Troubleshooting-

• Restart the CloudWatch Agent by running the following command:

```
sudo systemctl restart amazon-cloudwatch-agent.service
```

- Check Cloudwatch agent log at /opt/aws/amazon-cloudwatch-agent/logs/amazon-cloudwatch-agent.log
- https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/troubleshooting-cloudWatch-Agent.html