

Lesson 09 Demo 02

Evaluating CloudWatch Log Reports

Objective: To evaluate CloudWatch Log reports by creating and graphing metrics from log data using CloudWatch Log groups and Metric filters for monitoring and analysis

Tools required: AWS Management Console

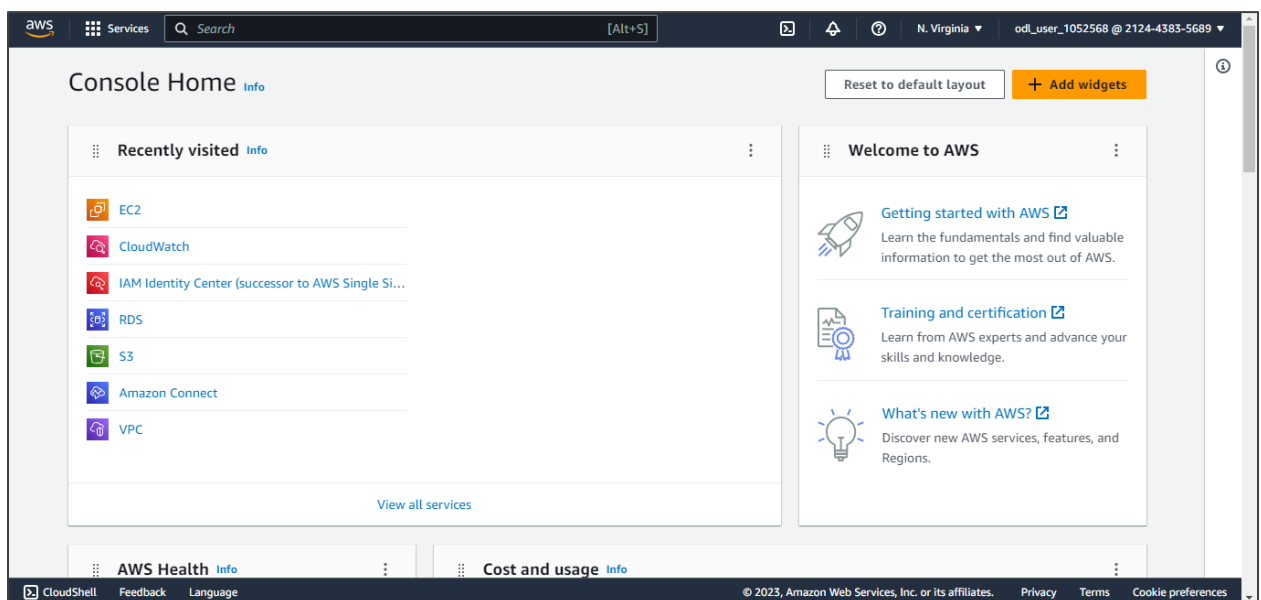
Prerequisites: None

Steps to be followed:

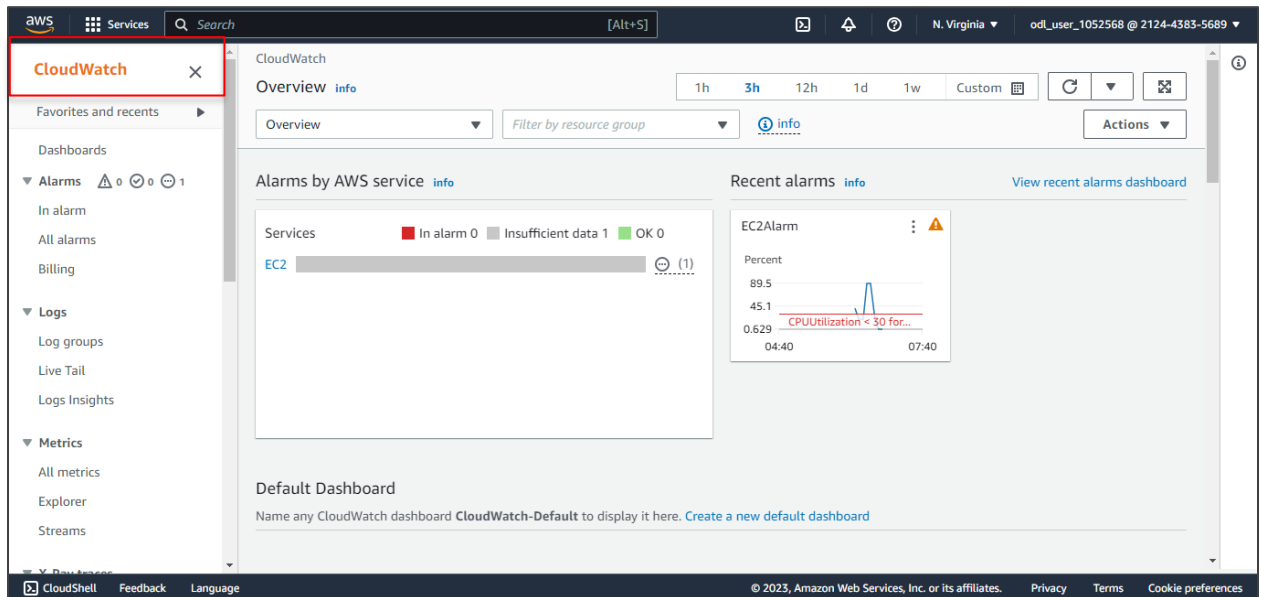
1. Evaluate CloudWatch Log reports

Step 1: Evaluate CloudWatch Log reports

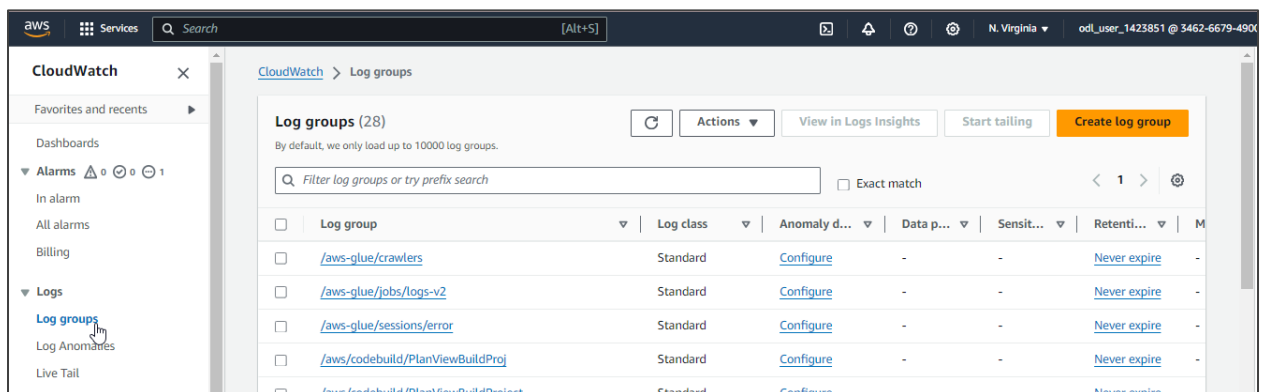
1.1 Go to the AWS Management Console



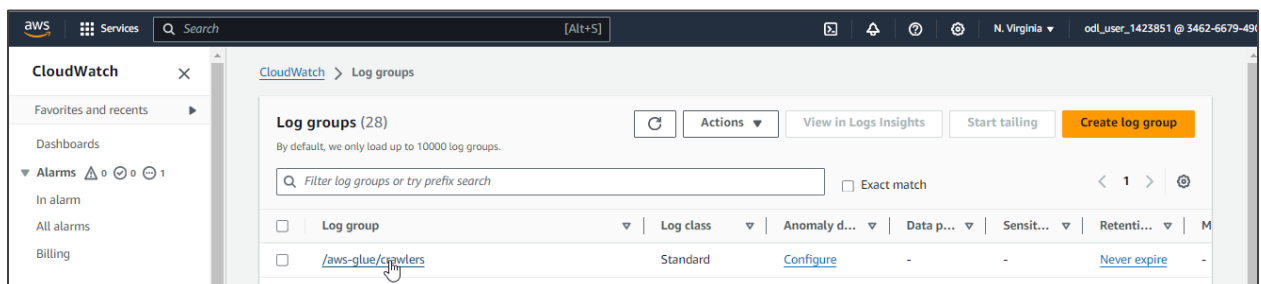
1.2 Open the CloudWatch service



1.3 In the navigation pane, choose Log groups under Logs

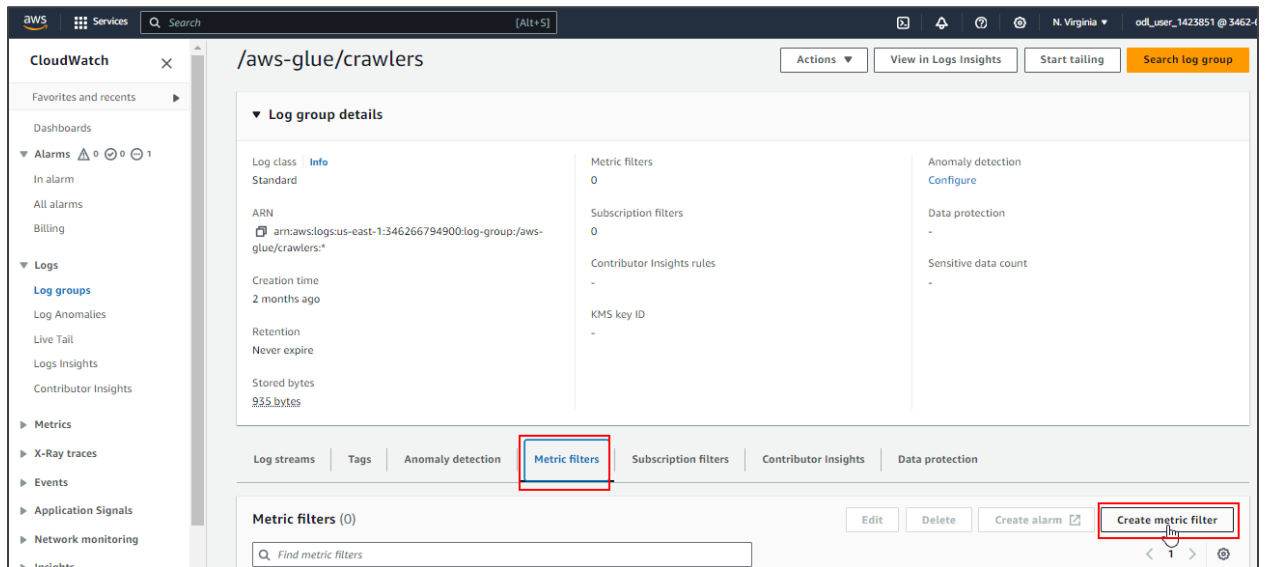


1.4 Select a log group

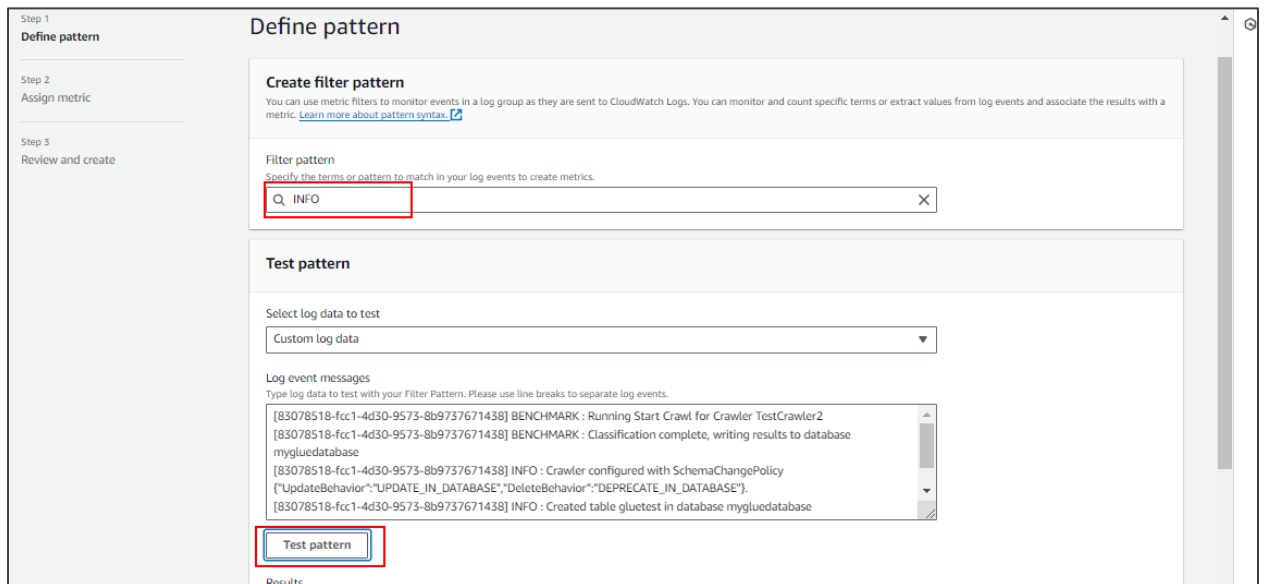


Note: If there are no existing log groups, create one

1.5 Click on **Create metric filter** under the **Metric filters** tab



1.6 Enter a **Filter pattern** and click on Test pattern to test the filter



1.7 Click Next

Test pattern

Select log data to test

Custom log data

Log event messages

Type log data to test with your Filter Pattern. Please use line breaks to separate log events.

```
mygluedatabase
[83078518-fcc1-4d30-9573-8b9737671438] INFO : Crawler configured with SchemaChangePolicy
{"UpdateBehavior":"UPDATE_IN_DATABASE","DeleteBehavior":"DEPRECATE_IN_DATABASE"}
[83078518-fcc1-4d30-9573-8b9737671438] INFO : Created table gluetest in database mygluedatabase
[83078518-fcc1-4d30-9573-8b9737671438] BENCHMARK : Finished writing to Catalog
[83078518-fcc1-4d30-9573-8b9737671438] BENCHMARK : Crawler has finished running and is in state READY
```

Test pattern

Results

Found 2 matches out of 6 event(s) in the sample log.

Show test results

Event number	Event message
3	[83078518-fcc1-4d30-9573-8b9737671438] INFO : Crawler configured with SchemaChangePolicy {"UpdateBehavior":"UPDATE_IN_DATABASE","DeleteBehavior":"DEPRECATE_IN_DATABASE"}
4	[83078518-fcc1-4d30-9573-8b9737671438] INFO : Created table gluetest in database mygluedatabase

Cancel

Next

1.8 In the Assign metric page, enter the desired filter name and related metric details

CloudWatch > Log groups > /aws-glue/crawlers > Create metric filter

Step 1

Define pattern

Step 2

Assign metric

Step 3

Review and create

Assign metric

Create filter name

Log events that match the pattern you define are recorded to the metric that you specify. You can graph the metric and set alarms to notify you.

Filter name

info_filter

Filter pattern

INFO

Metric details

Metric namespace

Namespaces let you group similar metrics. [Learn more](#)

myawsdemomeric

Create new

Metric name

Metric name identifies this metric, and must be unique within the namespace. [Learn more](#)

demometrics

Metric value

Metric value is the value published to the metric name when a Filter Pattern match occurs.

99.9

1.9 Click **Next**

Namespaces can be up to 255 characters long; all characters are valid except for colon(:) at the start of the name.

Metric name
Metric name identifies this metric, and must be unique within the namespace. [Learn more](#)

demometrics

Metric name can be up to 255 characters long; all characters are valid except for colon(:), asterisk(*), dollar(\$), and space().

Metric value
Metric value is the value published to the metric name when a Filter Pattern match occurs.

99.9

Valid metric values are: floating point number (1, 99.9, etc.), numeric field identifiers (\$1, \$2, etc.), or named field identifiers (e.g. \$requestSize for delimited filter pattern or \$.status for JSON-based filter pattern - dollar (\$) or dollar dot (\$.) followed by alphanumeric and/or underscore (_) characters).

Default value – optional
The default value is published to the metric when the pattern does not match. If you leave this blank, no value is published when there is no match. [Learn more](#)

Enter default value

Unit – optional
Select a unit

Cancel Previous **Next**

1.10 Review all the metric filter details and click **Create metric filter**

CloudWatch > Log groups > /aws-glue/crawlers > Create metric filter

Step 1
[Define pattern](#)

Step 2
[Assign metric](#)

Step 3
Review and create

Review and create

Step 1: Pattern Edit

Create filter pattern

Filter pattern

INFO

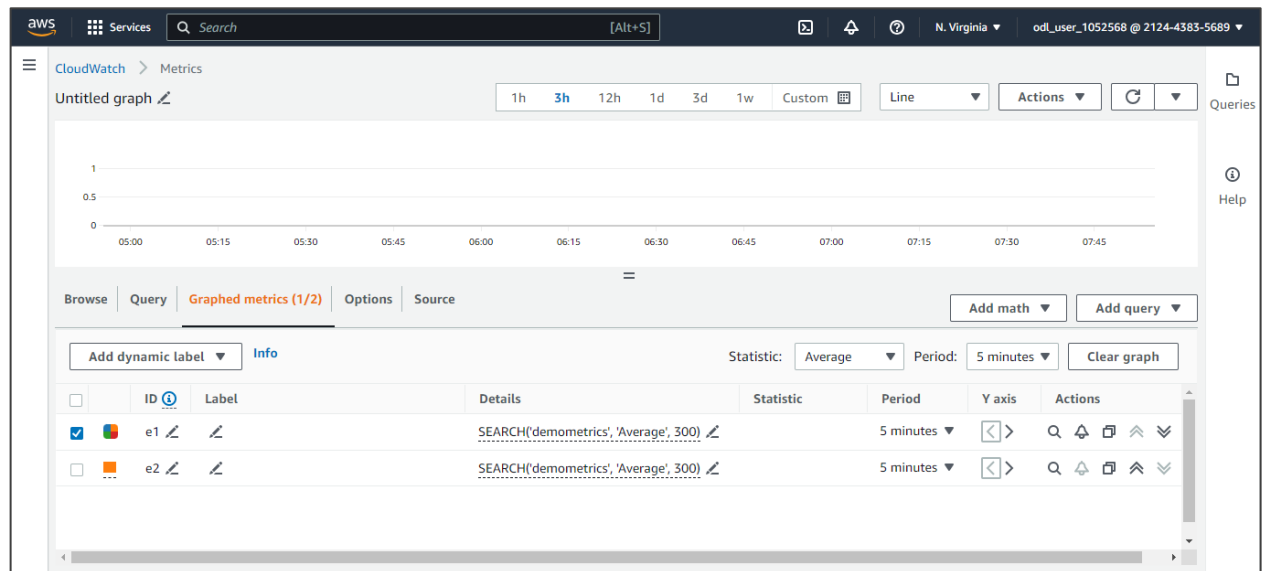
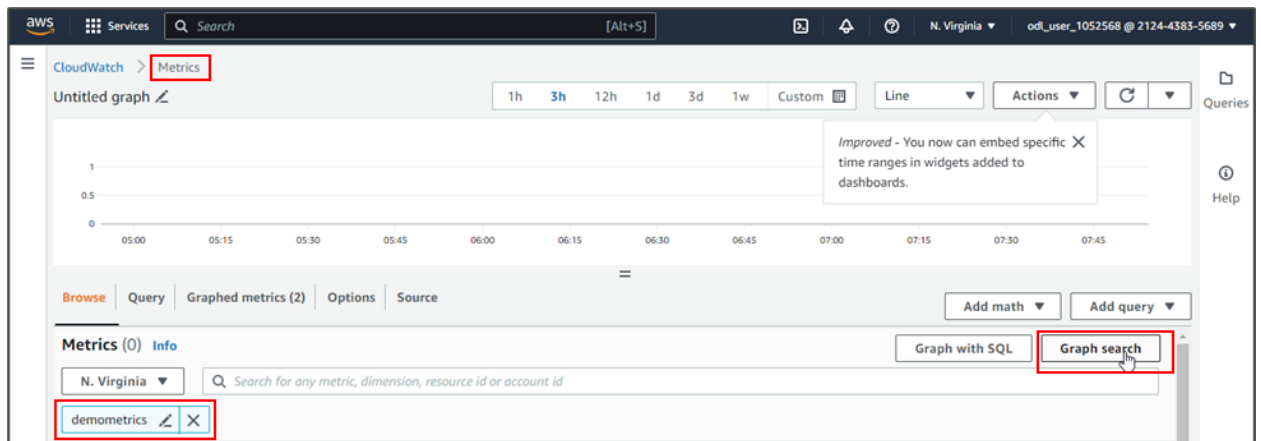
Step 2: Metric Edit

Assign metric

Filter name	Metric name
Info_filter	demometrics
Metric namespace	Metric value
myawsdemometric	99.9
Default value	Unit
-	-

Cancel Previous **Create metric filter**

1.11 Go to the Metrics page, search for the created metric, graph the metric to visualize patterns and trends in the log data by clicking on **Graph search**



By following these steps, you have successfully evaluated CloudWatch Log reports using Metric filters and graphical visualization for monitoring and analysis.