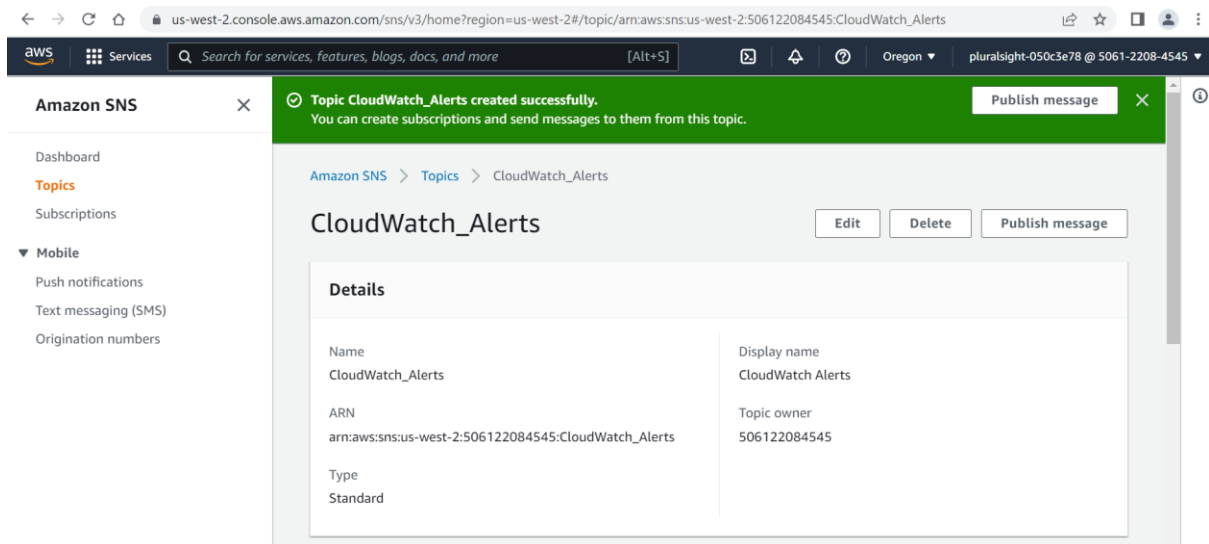
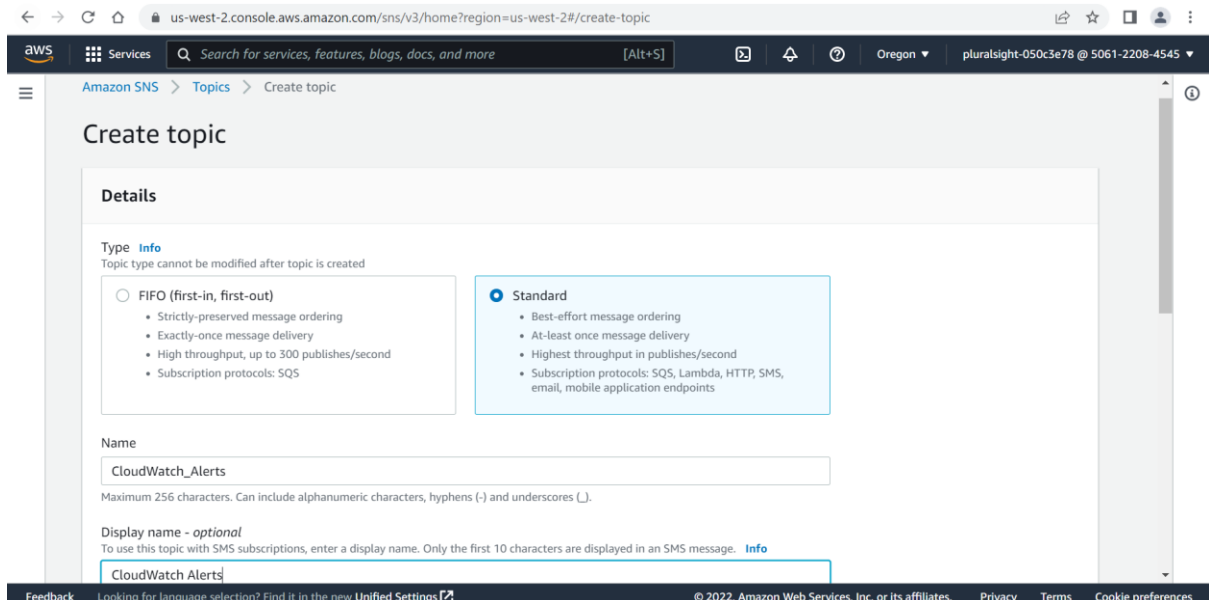
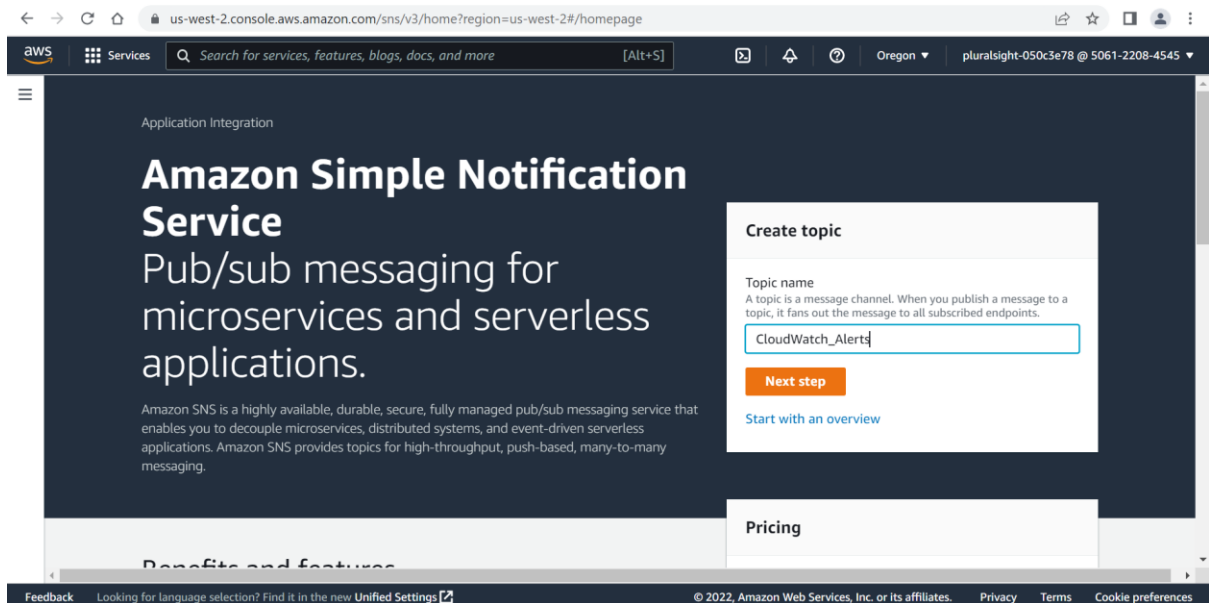
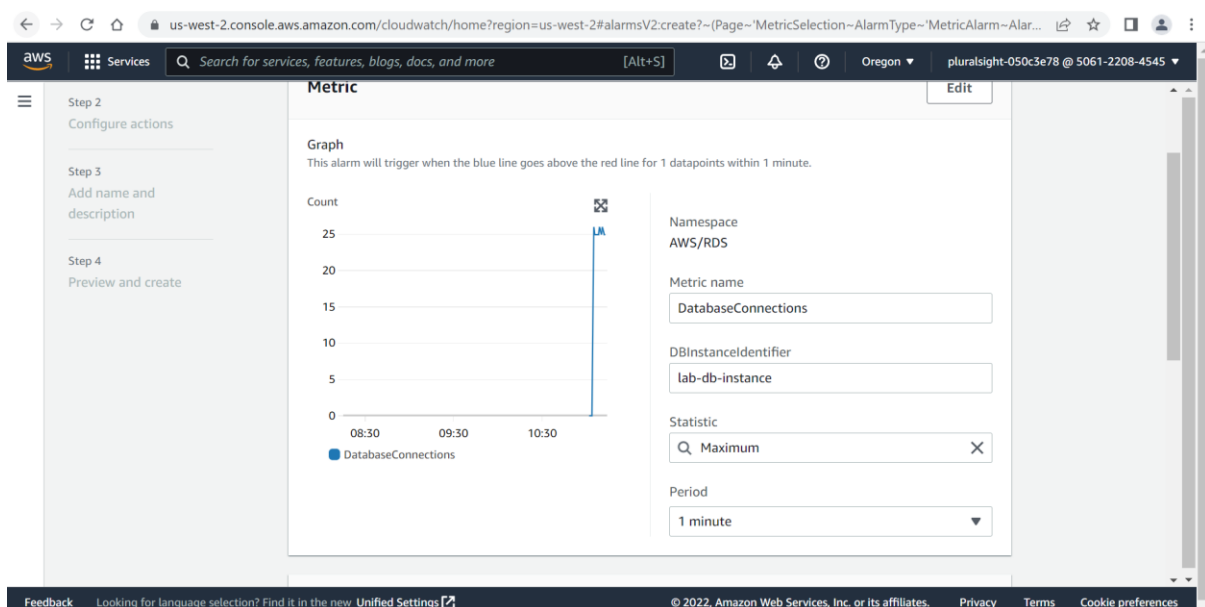
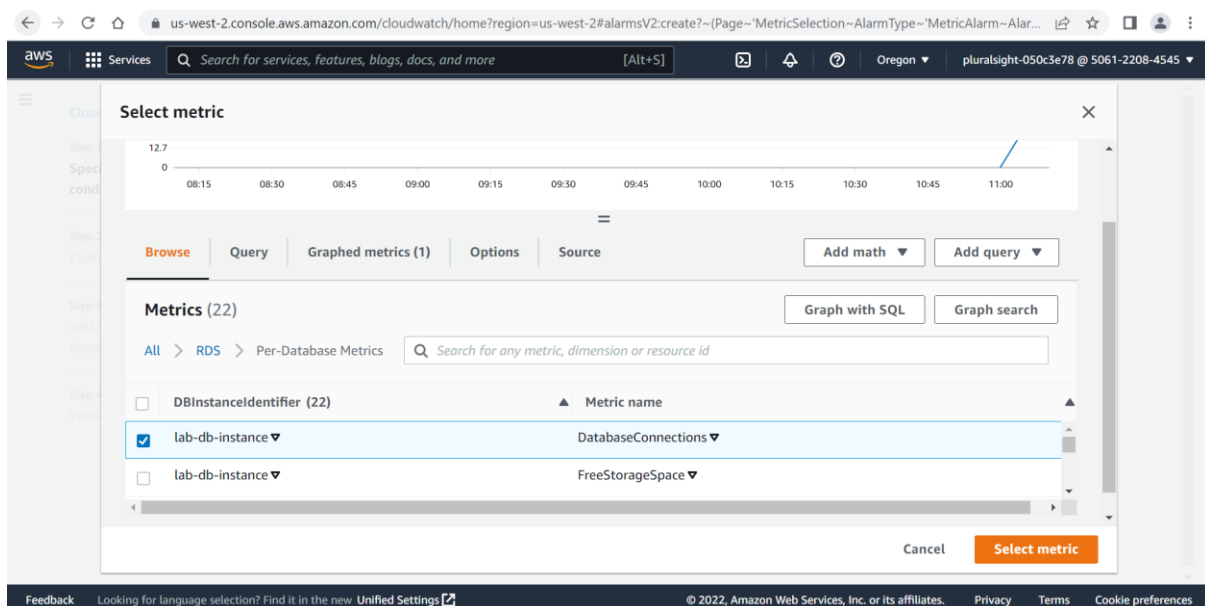
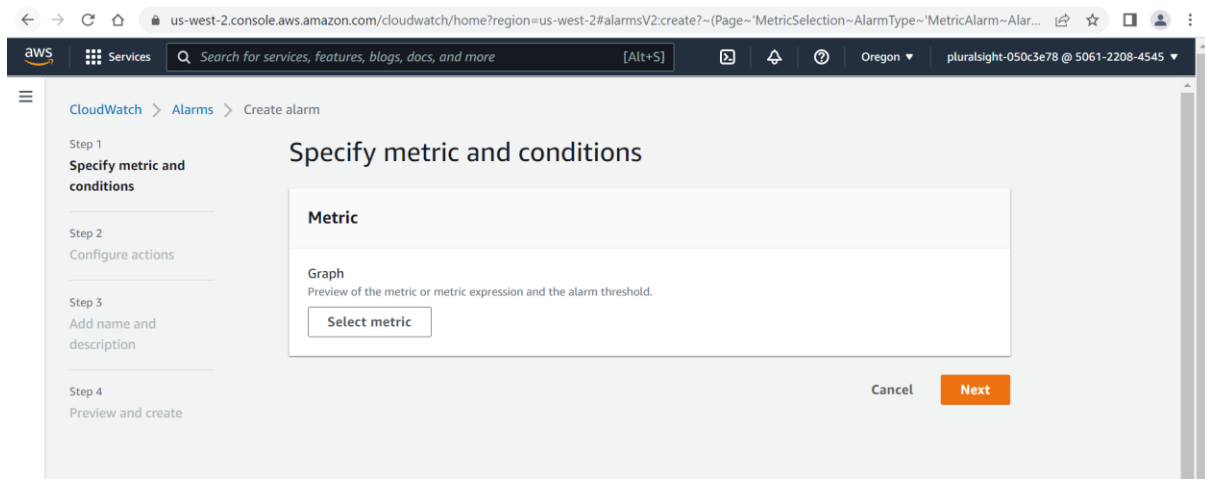


1. Create a Simple Notification Service (SNS) Topic



2. Graph the DatabaseConnections Metric



3. Create an Alarm Using the DatabaseConnections Metric

us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:create?~(Page~'MetricSelection~AlarmType~'MetricAlarm~Alar...

aws Services Search for services, features, blogs, docs, and more [Alt+S] Oregon pluralsight-050c3e78 @ 5061-2208-4545

Step 2
Configure actions

Step 3
Add name and description

Step 4
Preview and create

Metric

Graph

This alarm will trigger when the blue line goes above the red line for 1 datapoints within 1 minute.

Count

25
20
15
10
5
0

08:30 09:30 10:30

DatabaseConnections

Namespace
AWS/RDS

Metric name
DatabaseConnections

DBInstanceIdentifier
lab-db-instance

Statistic
Maximum

Period
1 minute

Edit

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:create?~(Page~'Actions~AlarmType~'MetricAlarm~AlarmData~...

aws Services Search for services, features, blogs, docs, and more [Alt+S] Oregon pluralsight-050c3e78 @ 5061-2208-4545

conditions

Step 2
Configure actions

Step 3
Add name and description

Step 4
Preview and create

Notification

Alarm state trigger

Define the alarm state that will trigger this action.

☒ In alarm
The metric or expression is outside of the defined threshold.

☐ OK
The metric or expression is within the defined threshold.

☐ Insufficient data
The alarm has just started or not enough data is available.

Remove

Send a notification to the following SNS topic

Define the SNS (Simple Notification Service) topic that will receive the notification.

☒ Select an existing SNS topic

☐ Create new topic

CloudWatch_Alerts

CloudWatch_Alerts

CloudWatch_Alerts

Only email lists for this account are available.

Email (endpoints)

Topic has no endpoints - View in SNS Console

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:create?~(Page~'Details~AlarmType~'MetricAlarm~AlarmData~(...

aws Services Search for services, features, blogs, docs, and more [Alt+S] Oregon pluralsight-050c3e78 @ 5061-2208-4545

CloudWatch > Alarms > Create alarm

Step 1 Specify metric and conditions

Step 2 Configure actions

Step 3 **Add name and description**

Step 4 Preview and create

Add name and description

Name and description

Alarm name

Lab DB Connection Count

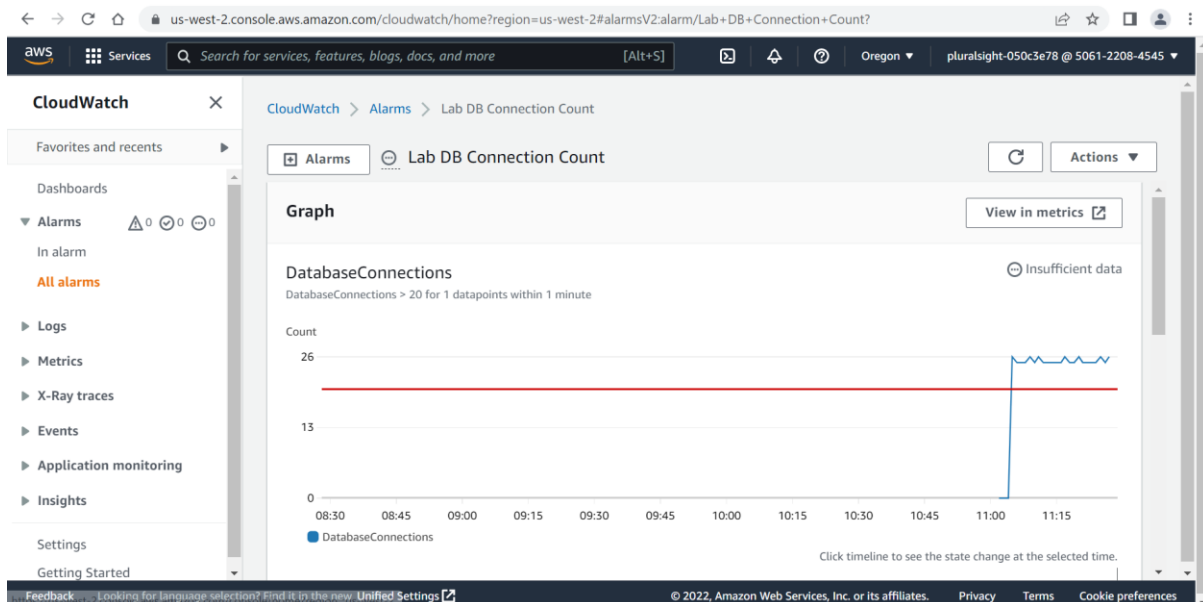
Alarm description - optional

Total number of connections to the Lab DB has exceeded 20

Up to 1024 characters (57/1024)

Cancel Previous Next

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences



us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:alarm/Lab+DB+Connection+Count?

aws Services Search for services, features, blogs, docs, and more [Alt+S] Oregon pluralsight-050c3e78 @ 5061-2208-4545

CloudWatch X

Favorites and recents

Dashboards

Alarms 0 0 0 In alarm All alarms

Logs

Metrics

X-Ray traces

Events

Application monitoring

Insights

Settings

Getting Started

CloudWatch > Alarms > Lab DB Connection Count

Alarms Lab DB Connection Count

Details

Name	State	Namespace	Datapoints to alarm
Lab DB Connection Count	Insufficient data	AWS/RDS	1 out of 1
Type	Threshold	Metric name	Missing data treatment
Metric alarm	DatabaseConnections > 20 for 1 datapoints within 1 minute	DatabaseConnections	Treat missing data as missing
Description	Last change	DBInstanceIdentifier	Percentiles with low samples evaluate
Total number of connections to the Lab DB has exceeded 20	2022-06-24 11:28:46	lab-db-instance	ARN
	Actions	Statistic	arn:aws:cloudwatch:us-west-2:506122084545:alarm:Lab DB Connection Count
	Actions enabled	Maximum	
		Period	
		1 minute	

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

4. Observe and Update the Alarm

Change threshold to 40

The screenshot shows the 'Conditions' configuration page in the AWS CloudWatch console. The 'Threshold type' is set to 'Static' (Use a value as a threshold). The condition is defined as 'Whenever DatabaseConnections is... Greater > threshold'. The threshold value is set to 40. The 'Additional configuration' section is collapsed. At the bottom, there are 'Cancel', 'Next', and 'Update alarm' buttons.

Conditions

Threshold type

☒ Static
Use a value as a threshold

☐ Anomaly detection
Use a band as a threshold

Whenever DatabaseConnections is...

Define the alarm condition.

☒ Greater
> threshold

☐ Greater/Equal
≥ threshold

☐ Lower/Equal
≤ threshold

☐ Lower
< threshold

than...

Define the threshold value.

40

Must be a number

► Additional configuration

Cancel Next Update alarm

The screenshot shows the 'Add to dashboard' dialog box in the AWS CloudWatch console. The 'Select a dashboard' section has a search bar and a 'Create new' button. The 'Widget type' is set to 'Line'. The 'Customize widget title' section has a text input with 'Lab DB Connection Count'. The 'Preview' section shows a line chart titled 'Lab DB Connection Count' with a red threshold line at 40. The chart shows a spike in 'DatabaseConnections' that crosses the threshold. At the bottom, there are 'Cancel' and 'Add to dashboard' buttons.

Add to dashboard

Select a dashboard

Select an existing dashboard or create a new one.

Search Select dashboard

Create new

Widget type

Select a widget type to add to the dashboard.

Line

Customize widget title

Widgets get an automatic title. You can optionally customize the title here.

Lab DB Connection Count

Preview

This is how your chart will appear in your dashboard.

Lab DB Connection Count

Count

40

DatabaseConnections > 40 for 1 datapoints within 1 minute

20

0

09:30 10:30 11:30

DatabaseConnections

Cancel Add to dashboard

us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:~(selectedIds~(~/Lab*20DB*20Connection*20Count))

Services Search for services, features, blogs, docs, and more [Alt+S] Oregon pluralsight-050c3e78 @ 5061-2208-4545

Successfully updated alarm **Lab DB Connection Count**. View alarm

1 new widget(s) have been added to your dashboard **Scaling-Metrics**. View dashboard

CloudWatch > Alarms

Alarms (1/1) ☐ Hide Auto Scaling alarms Clear selection Create composite alarm Actions Create alarm

Search Any state Any type < 1 > ⚙

<input checked="" type="checkbox"/>	Name	State	Last state update	Conditions	Actions
<input checked="" type="checkbox"/>	Lab DB Connection Count	In alarm	2022-06-24 16:59:42	DatabaseConnections > 40 for 1 datapoints within 1 minute	Actions enabled Warning

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#alarmsV2:~(alarmStateFilter~OK)

Services Search for services, features, blogs, docs, and more [Alt+S] Oregon pluralsight-050c3e78 @ 5061-2208-4545

CloudWatch X

Favorites and recents Dashboards * Scaling-Metrics

Alarms 0 1 0 In alarm All alarms

Logs Log groups Logs Insights Metrics

CloudWatch > Alarms

Alarms (1) ☐ Hide Auto Scaling alarms Clear selection Create composite alarm Actions Create alarm

Search OK Any type < 1 > ⚙

<input type="checkbox"/>	Name	State	Last state update	Conditions
<input type="checkbox"/>	Lab DB Connection Count	OK	2022-06-24 17:02:48	DatabaseConnections > 40 for 1 datapoints within 1 minute