Steps to Create a Lambda Function for Removing Resources in a Specified Zone

NAME : T MANOJ

Step 1: Create an AWS Lambda Function

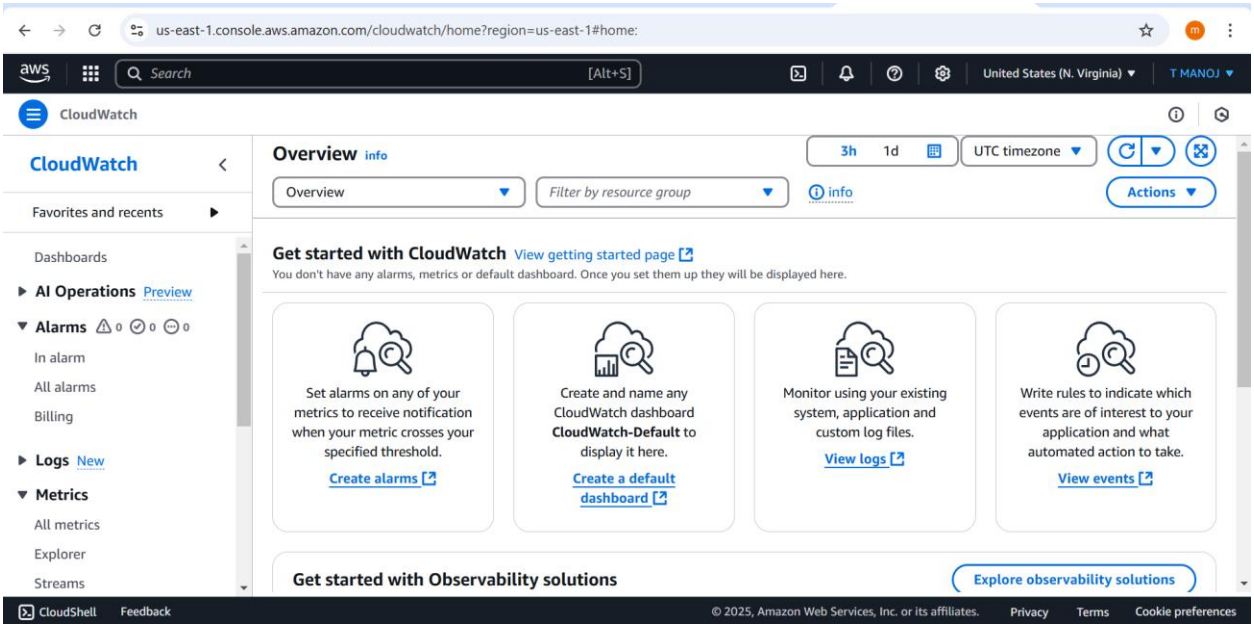
1. Go to the AWS Lambda Console.
2. Click Create Function and select Author from scratch.
3. Provide a function name .
4. Select Python as the runtime (latest version).
5. Choose an execution role with permissions for EC2, S3, and other resources.

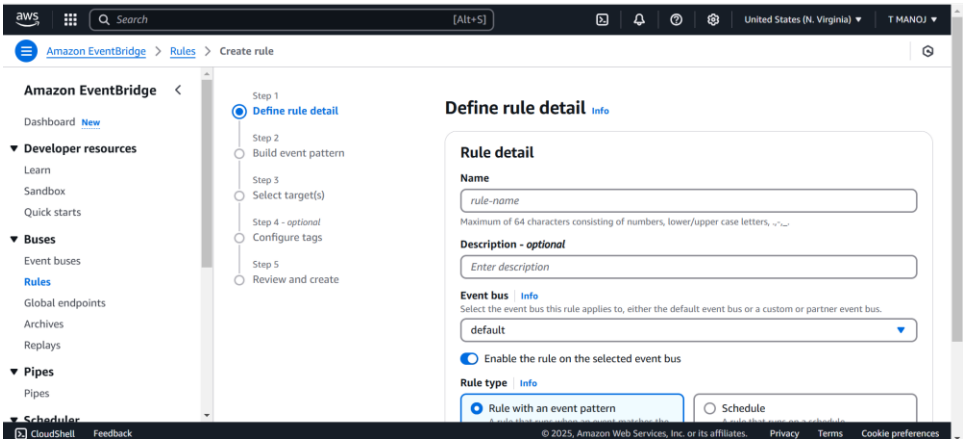
Step 2: Add Python Code for Resource Cleanup

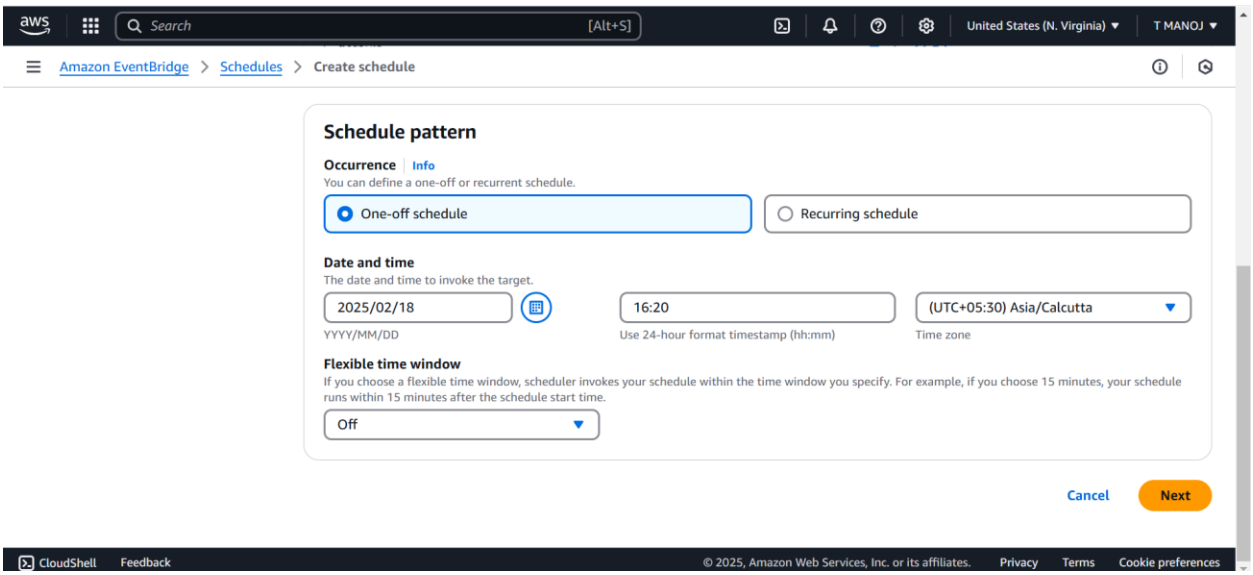
1. Open the Lambda code editor and add a Python script that removes resources in a specified zone.
2. Use the Boto3 library to interact with AWS services.

Step 3: Create a CloudWatch Events Rule

1. Go to the Amazon EventBridge (CloudWatch Events) Console.
2. Click Create Rule and provide a name .
3. Select Schedule Rule and set a cron expression to trigger every minute .
4. Choose Lambda function as the target and select the created function.
5. Save and enable the rule.






Search
[Alt+S]
United States (N. Virginia)
T MANOJ
Amazon EventBridge
Schedules
Create schedule
Schedule pattern
Occurrence
Info
You can define a one-off or recurrent schedule.
One-off schedule
Recurring schedule
Date and time
The date and time to invoke the target.
2025/02/18
YYYY/MM/DD
16:20
Use 24-hour format timestamp (hh:mm)
(UTC+05:30) Asia/Calcutta
Time zone
Flexible time window
If you choose a flexible time window, scheduler invokes your schedule within the time window you specify. For example, if you choose 15 minutes, your schedule runs within 15 minutes after the schedule start time.
Off
Cancel
Next
CloudShell
Feedback
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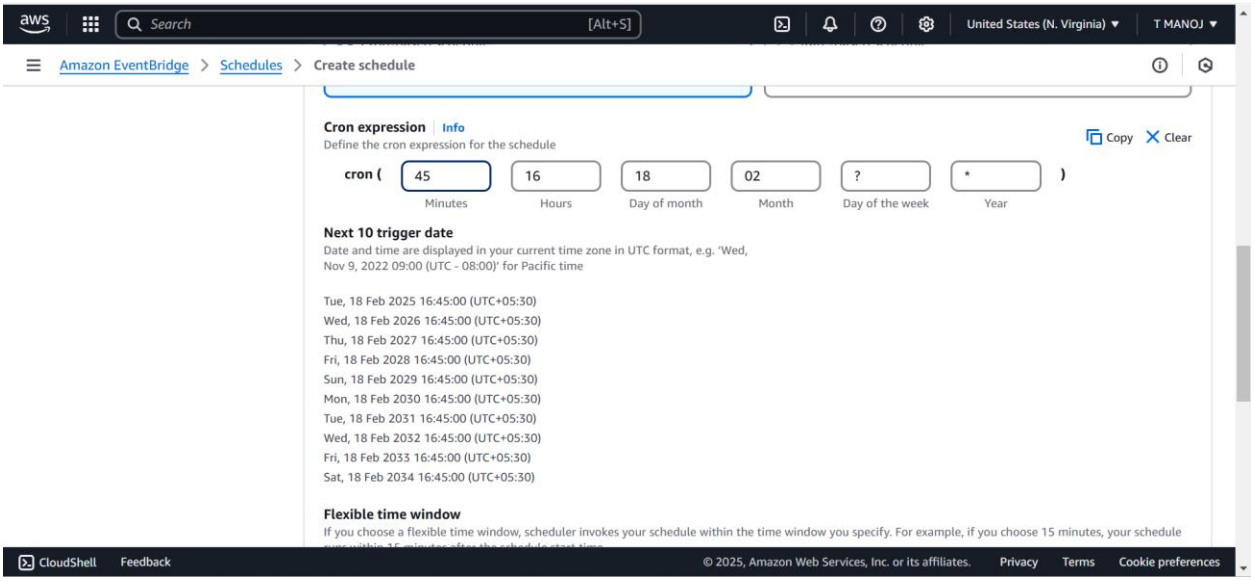
Search
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United States (N. Virginia)
T MANOJ
Amazon EventBridge
Schedules
Create schedule
Cron expression
Info
Define the cron expression for the schedule
Copy
Clear
cron (
45
16
18
02
?
*
)
Minutes
Hours
Day of month
Month
Day of the week
Year
Next 10 trigger date
Date and time are displayed in your current time zone in UTC format, e.g. 'Wed, Nov 9, 2022 09:00 (UTC - 08:00)' for Pacific time
Tue, 18 Feb 2025 16:45:00 (UTC+05:30)
Wed, 18 Feb 2026 16:45:00 (UTC+05:30)
Thu, 18 Feb 2027 16:45:00 (UTC+05:30)
Fri, 18 Feb 2028 16:45:00 (UTC+05:30)
Sun, 18 Feb 2029 16:45:00 (UTC+05:30)
Mon, 18 Feb 2030 16:45:00 (UTC+05:30)
Tue, 18 Feb 2031 16:45:00 (UTC+05:30)
Wed, 18 Feb 2032 16:45:00 (UTC+05:30)
Fri, 18 Feb 2033 16:45:00 (UTC+05:30)
Sat, 18 Feb 2034 16:45:00 (UTC+05:30)
Flexible time window
If you choose a flexible time window, scheduler invokes your schedule within the time window you specify. For example, if you choose 15 minutes, your schedule
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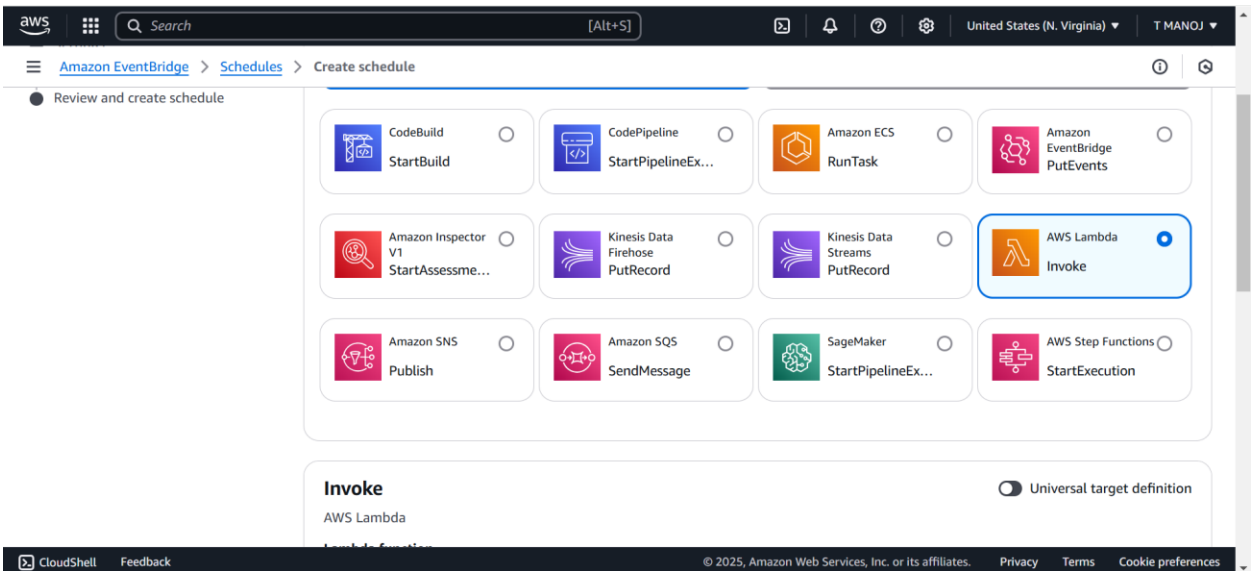
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T MANOJ
Amazon EventBridge > Schedules > Create schedule
Review and create schedule
CodeBuild
StartBuild
CodePipeline
StartPipelineEx...
Amazon ECS
RunTask
Amazon EventBridge
PutEvents
Amazon Inspector V1
StartAssessme...
Kinesis Data Firehose
PutRecord
Kinesis Data Streams
PutRecord
AWS Lambda
Invoke
Amazon SNS
Publish
Amazon SQS
SendMessage
SageMaker
StartPipelineEx...
AWS Step Functions
StartExecution
Invoke
AWS Lambda
Universal target definition
CloudShell
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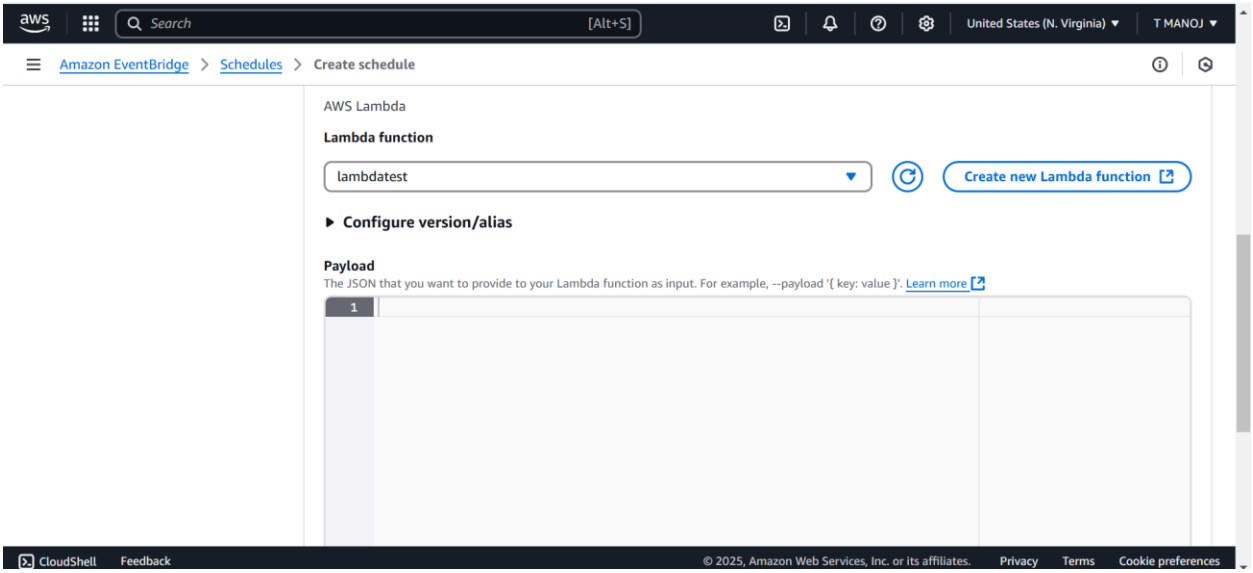
aws
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T MANOJ
Amazon EventBridge > Schedules > Create schedule
AWS Lambda
Lambda function
lambdatest
Create new Lambda function
Configure version/alias
Payload
The JSON that you want to provide to your Lambda function as input. For example, --payload '{ key: value }'. Learn more
1
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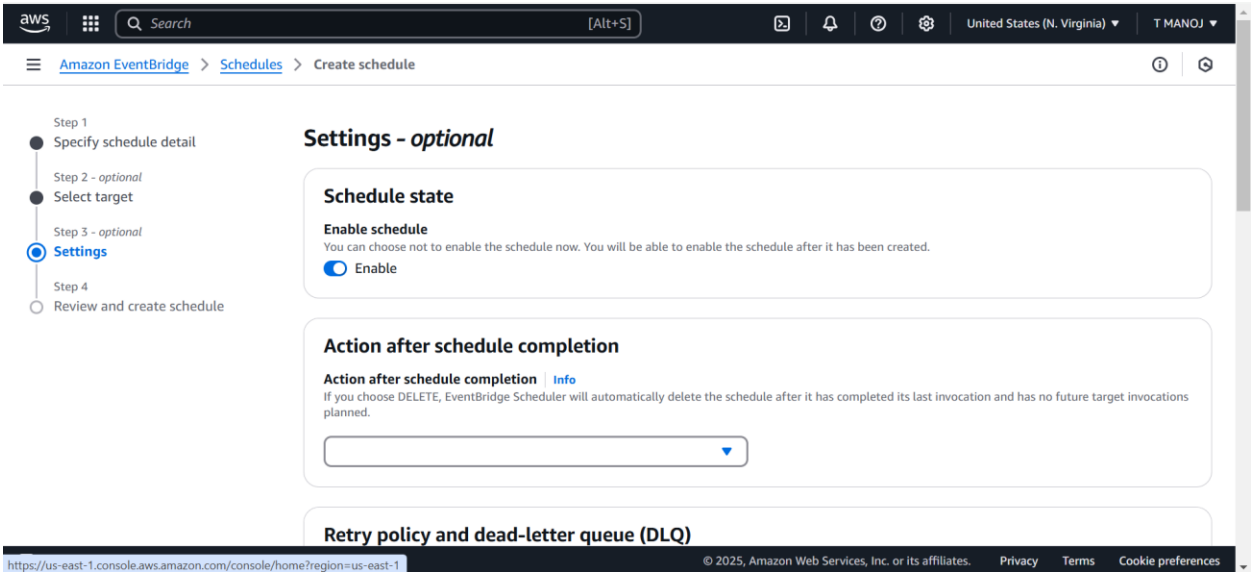
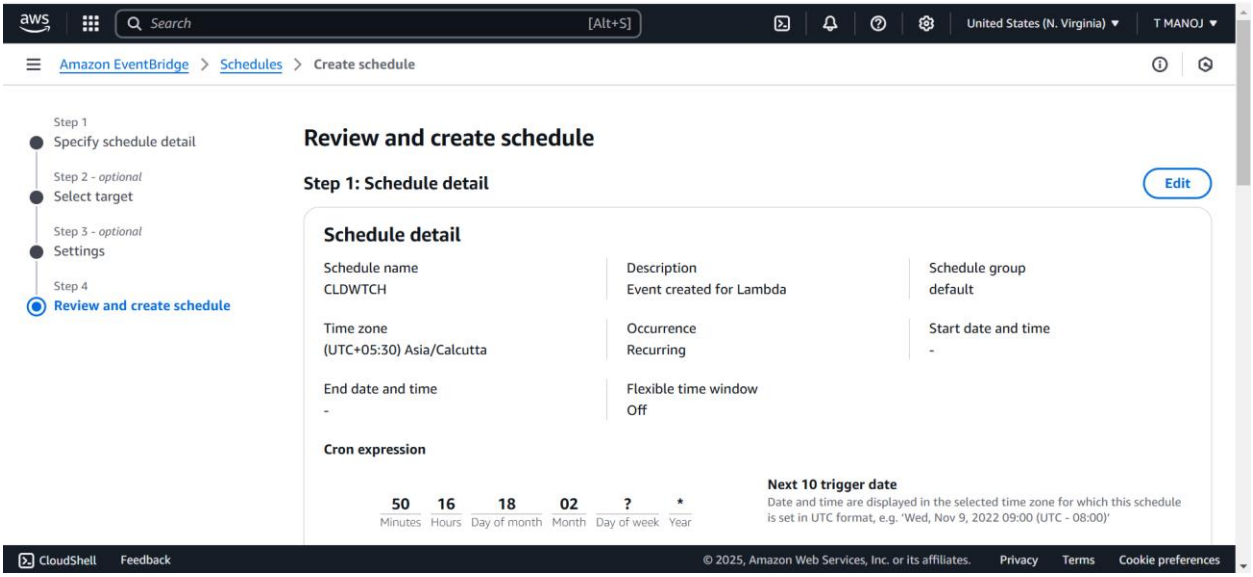
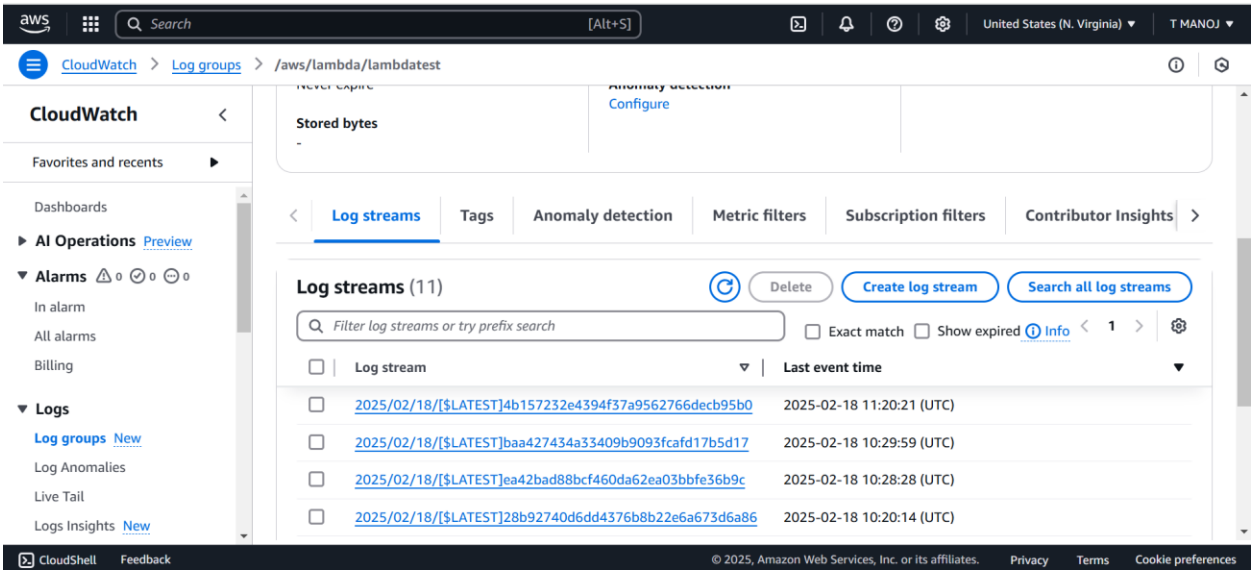




Step 4: Test and Verify Logs in CloudWatch

1. Wait for the scheduled event to trigger the Lambda function.
2. Go to AWS CloudWatch → Logs → Log Groups.
3. Select the Lambda function's log stream to verify output.
4. Check CloudWatch Metrics for execution status.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CloudWatch
Log groups
/aws/lambda/lambdatest
CloudWatch
Favorites and recents
Dashboards
AI Operations Preview
Alarms
In alarm
All alarms
Billing
Logs
Log groups New
Log Anomalies
Live Tail
Logs Insights New
Stored bytes
-
Configure
Log streams
Tags
Anomaly detection
Metric filters
Subscription filters
Contributor Insights
Log streams (11)
Delete
Create log stream
Search all log streams
Filter log streams or try prefix search
Exact match
Show expired
Info
1
Log stream
Last event time
2025/02/18/[$LATEST]4b157232e4394f37a9562766decb95b0
2025-02-18 11:20:21 (UTC)
2025/02/18/[$LATEST]baa427434a33409b9093fcafd17b5d17
2025-02-18 10:29:59 (UTC)
2025/02/18/[$LATEST]ea42bad88bcf460da62ea03bbfe36b9c
2025-02-18 10:28:28 (UTC)
2025/02/18/[$LATEST]28b92740d6dd4376b8b22e6a673d6a86
2025-02-18 10:20:14 (UTC)
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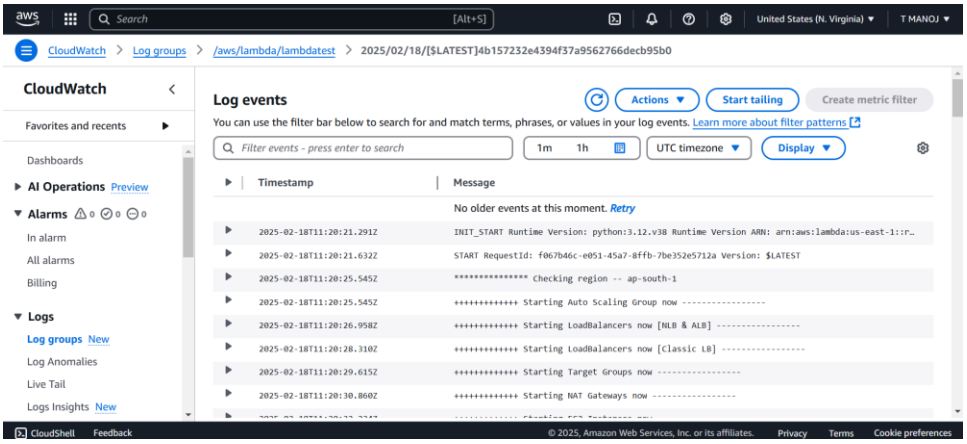
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CloudWatch
Log groups
/aws/lambda/lambdatest
2025/02/18/[$LATEST]4b157232e4394f37a9562766decb95b0
CloudWatch
Favorites and recents
Dashboards
AI Operations Preview
Alarms
In alarm
All alarms
Billing
Logs
Log groups New
Log Anomalies
Live Tail
Logs Insights New
Log events
Actions
Start tailing
Create metric filter
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
1m
1h
UTC timezone
Display
Timestamp
Message
No older events at this moment. Retry
2025-02-18T11:20:21.291Z
INIT_START Runtime Version: python:3.12.v38 Runtime Version ARN: arn:aws:lambda:us-east-1::r…
2025-02-18T11:20:21.632Z
START RequestId: f067b46c-e051-45a7-8ffb-7be352e5712a Version: $LATEST
2025-02-18T11:20:25.545Z
********** Checking region -- ap-south-1
2025-02-18T11:20:25.545Z
++++++++++++ Starting Auto Scaling Group now ----------
2025-02-18T11:20:26.958Z
++++++++++++ Starting LoadBalancers now [NLB & ALB] ----------
2025-02-18T11:20:28.310Z
++++++++++++ Starting LoadBalancers now [Classic LB] ----------
2025-02-18T11:20:29.615Z
++++++++++++ Starting Target Groups now ----------
2025-02-18T11:20:30.860Z
++++++++++++ Starting NAT Gateways now ----------
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