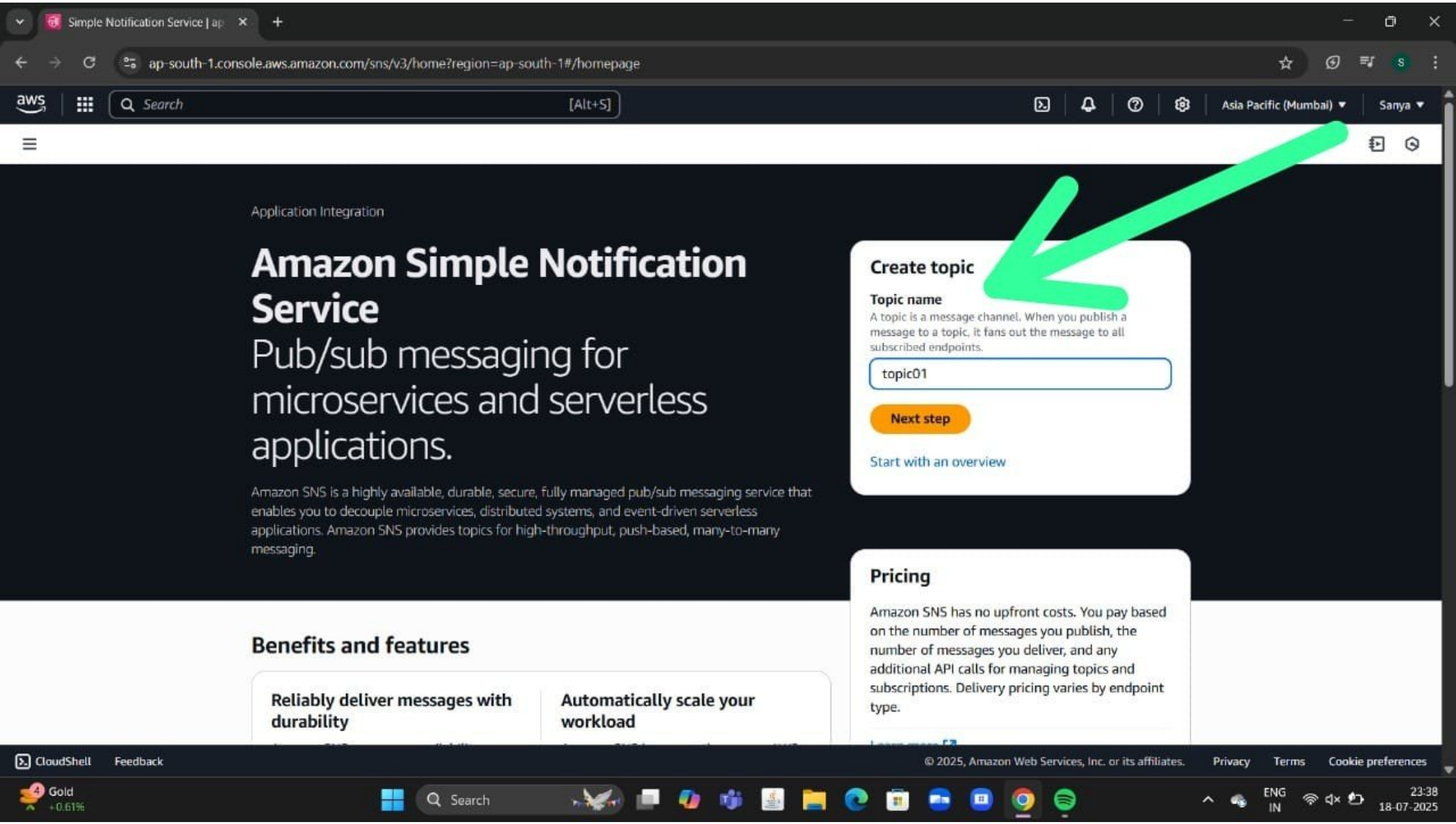
Simple Notification Service | ap
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/homepage
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Application Integration
Amazon Simple Notification Service
Pub/sub messaging for microservices and serverless applications.
Amazon SNS is a highly available, durable, secure, fully managed pub/sub messaging service that enables you to decouple microservices, distributed systems, and event-driven serverless applications. Amazon SNS provides topics for high-throughput, push-based, many-to-many messaging.
Create topic
Topic name
A topic is a message channel. When you publish a message to a topic, it fans out the message to all subscribed endpoints.
topic01
Next step
Start with an overview
Pricing
Amazon SNS has no upfront costs. You pay based on the number of messages you publish, the number of messages you deliver, and any additional API calls for managing topics and subscriptions. Delivery pricing varies by endpoint type.
Benefits and features
Reliably deliver messages with durability
Automatically scale your workload
CloudShell
Feedback
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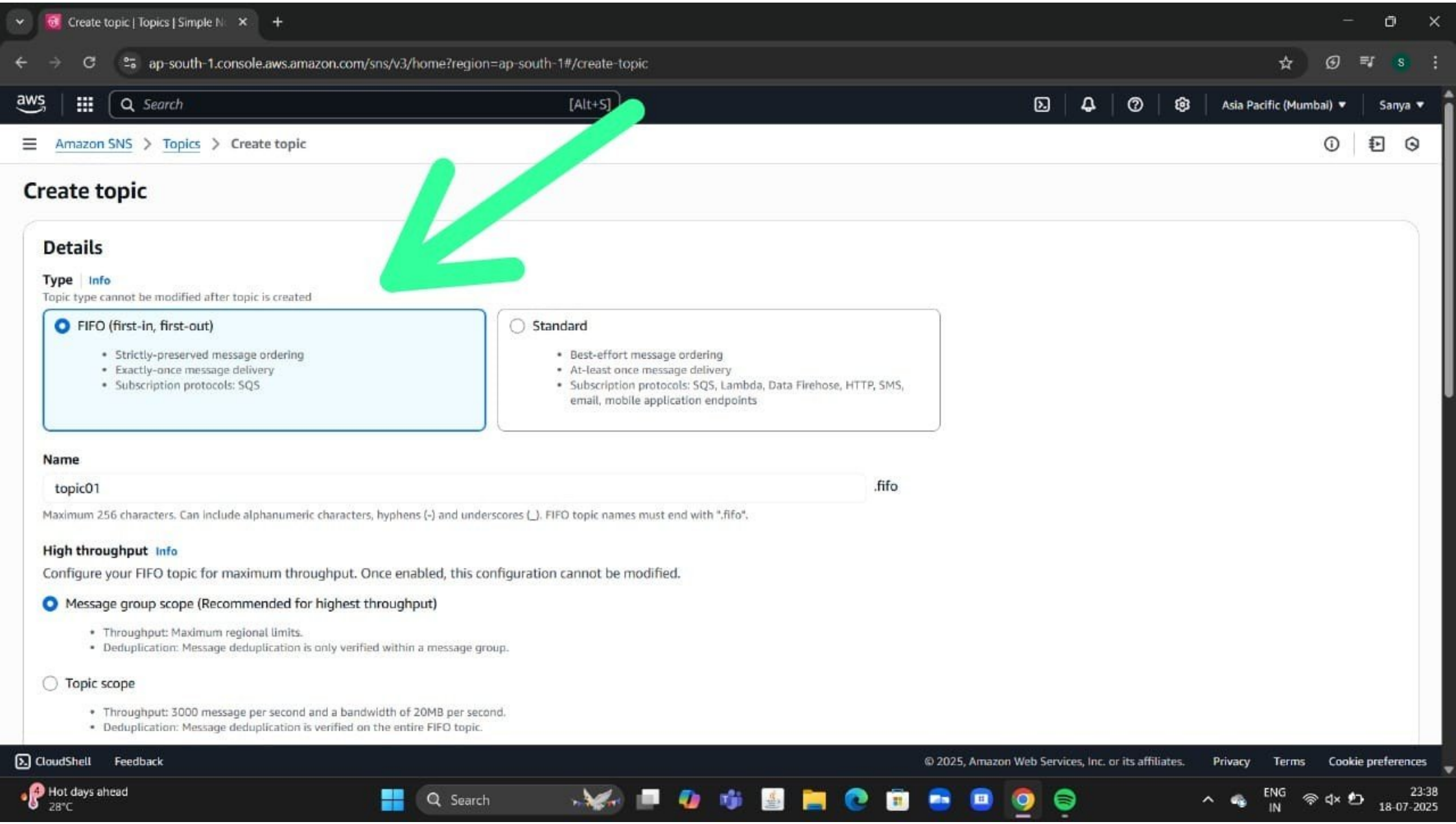
Privacy
Terms
Cookie preferences
Gold
+0.61%
Search
ENG
IN
23:38
18-07-2025

- **AMAZON SNS :**

  AMAZON SNS stands for Amazon Simple Notification Service. It is used in AWS for delivering messages from publishers to subscribers. It communicates through communication channel known as topic. Subscribers to an SNS topic can receive messages through different endpoints, depending on their use case, such as: Lambda, Amazon SQS, Email, SMS, etc.

  SNS supports both Application-to-Application and Application-to-Person messaging, giving flexibility to send messages between different applications or directly to mobile phones, email addresses, and more.


Create topic | Topics | Simple N
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/create-topic
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Topics > Create topic
Create topic
Details
Type Info
Topic type cannot be modified after topic is created
FIFO (first-in, first-out)
Strictly-preserved message ordering
Exactly-once message delivery
Subscription protocols: SQS
Standard
Best-effort message ordering
At-least once message delivery
Subscription protocols: SQS, Lambda, Data Firehose, HTTP, SMS, email, mobile application endpoints
Name
topic01
.fifo
Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (_). FIFO topic names must end with ".fifo".
High throughput Info
Configure your FIFO topic for maximum throughput. Once enabled, this configuration cannot be modified.
Message group scope (Recommended for highest throughput)
Throughput: Maximum regional limits.
Deduplication: Message deduplication is only verified within a message group.
Topic scope
Throughput: 3000 message per second and a bandwidth of 20MB per second.
Deduplication: Message deduplication is verified on the entire FIFO topic.
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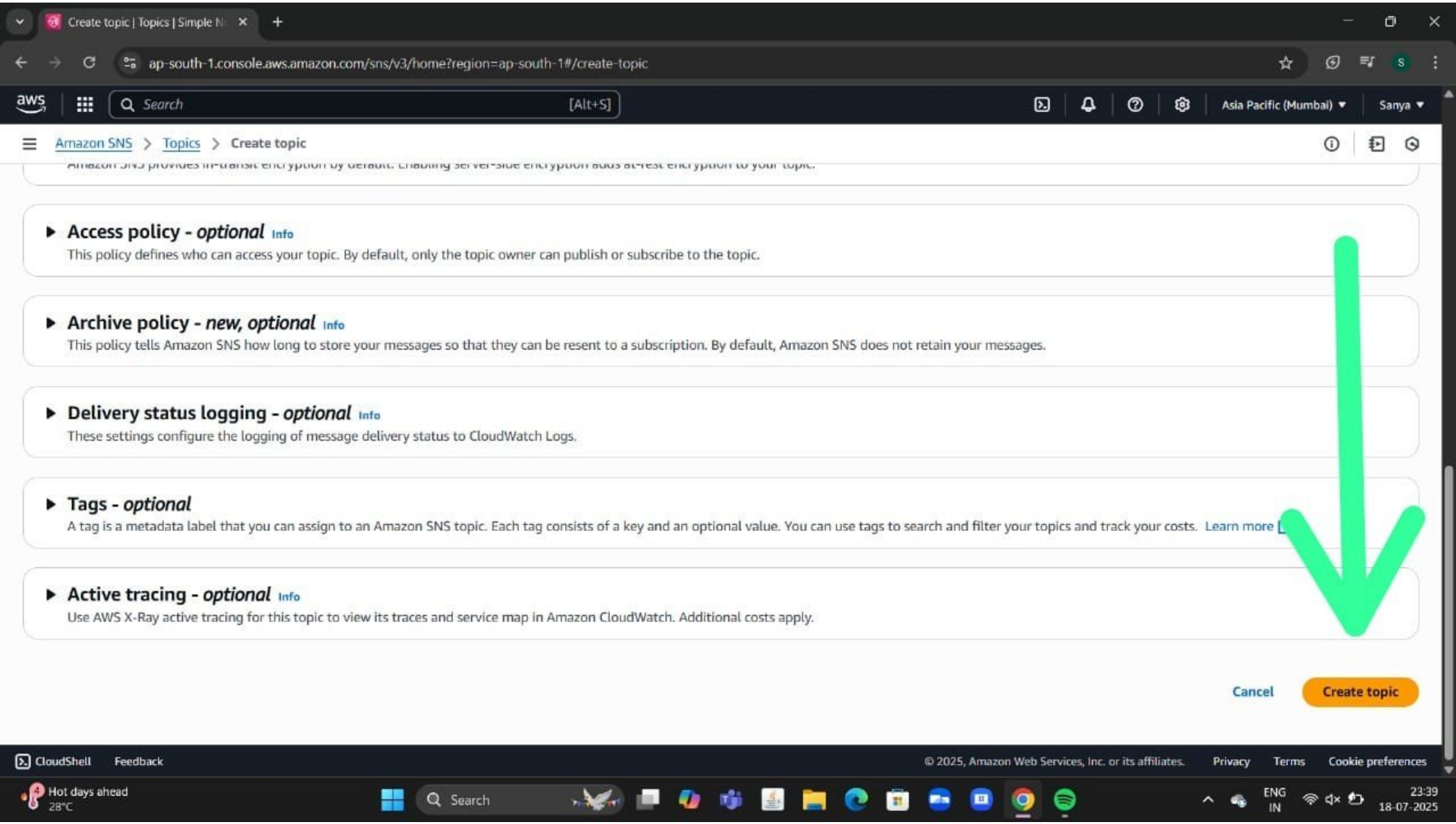
- **TOPIC :**

  In AWS, a TOPIC in Amazon SNS (Simple Notification Service) is a communication channel used to send messages to multiple subscribers at once. Topics allow you to send messages to many endpoints—such as email addresses, SMS numbers, or AWS services (like Lambda or SQS). Publishers send messages to the topic, and all subscribers who have opted in receiving the message.


Create topic | Topics | Simple N
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/create-topic
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Topics > Create topic
Access policy - optional Info
This policy defines who can access your topic. By default, only the topic owner can publish or subscribe to the topic.
Archive policy - new, optional Info
This policy tells Amazon SNS how long to store your messages so that they can be resent to a subscription. By default, Amazon SNS does not retain your messages.
Delivery status logging - optional Info
These settings configure the logging of message delivery status to CloudWatch Logs.
Tags - optional
A tag is a metadata label that you can assign to an Amazon SNS topic. Each tag consists of a key and an optional value. You can use tags to search and filter your topics and track your costs. Learn more
Active tracing - optional Info
Use AWS X-Ray active tracing for this topic to view its traces and service map in Amazon CloudWatch. Additional costs apply.
Cancel
Create topic
CloudShell
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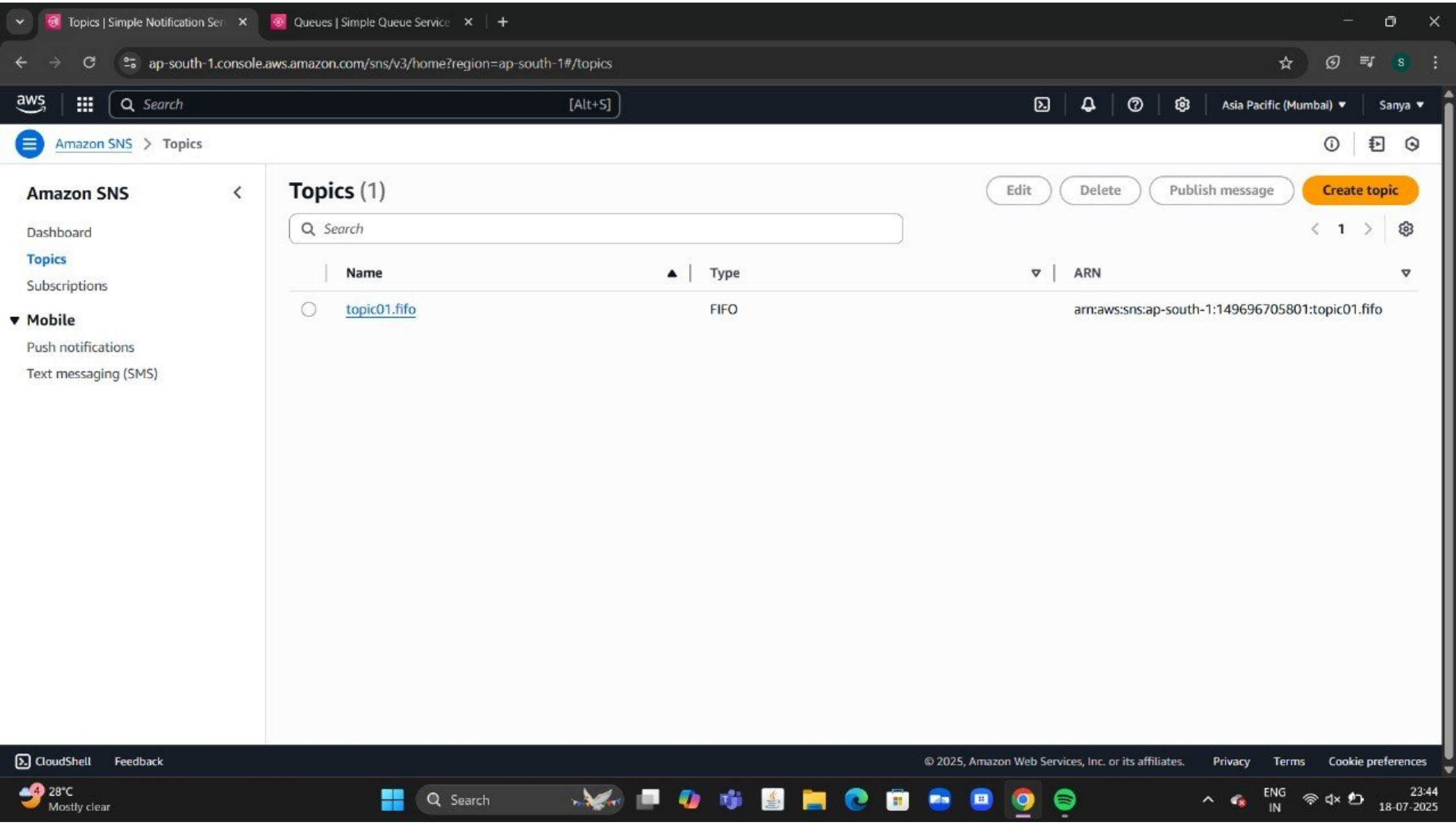
Topics | Simple Notification Ser
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/topics
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Topics
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Topics (1)
Edit
Delete
Publish message
Create topic
Search
1
Name
Type
ARN
topic01.fifo
FIFO
arn:aws:sns:ap-south-1:149696705801:topic01.fifo
CloudShell
Feedback
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Terms
Cookie preferences
28°C
Mostly clear
Search
ENG
IN
23:44
18-07-2025

Application integration

Amazon SQS

A message queuing service

Amazon SQS provides queues for high-throughput, system-to-system messaging. You can use queues to decouple heavyweight processes and to buffer and batch work. Amazon SQS stores messages until microservices and serverless applications process them.

Get started

Learn how to use Amazon SQS by creating a queue, sending a message to the queue, and receiving and processing the message.

Create queue

Pricing (US)

You can get started with Amazon SQS for free. All customers can make 1 million Amazon SQS requests for free each month. Some applications might be able to operate within this Free Tier limit.

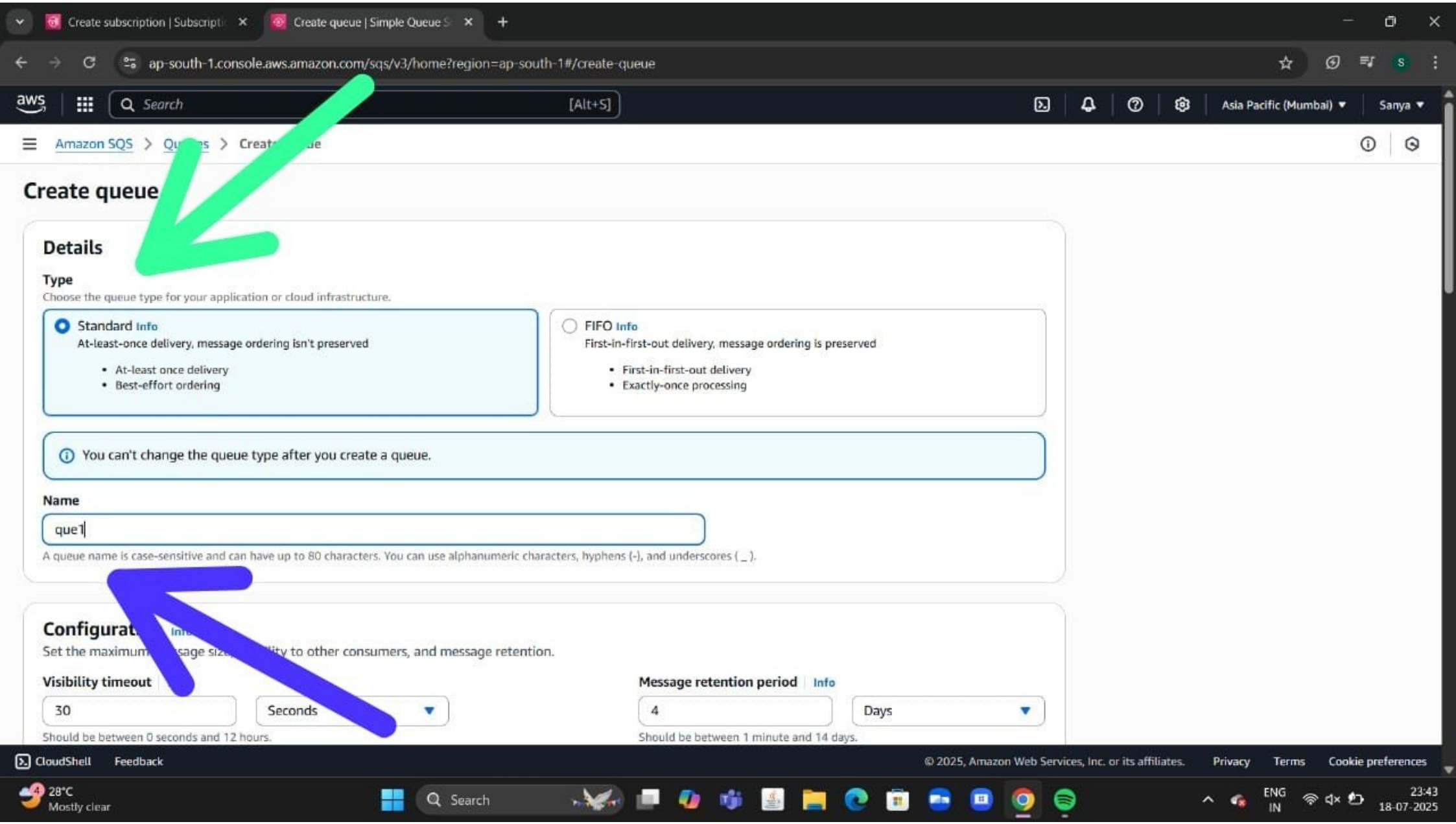
Cost calculator

Documentation

How it works

- **AMAZON SQS :**

  AMAZON SQS stands for Amazon Simple Queue Service. It offers a secure, durable, and available hosted queue and can receive, store and send messages. Amazon SQS offers common constructs such as dead letter queues and cost allocation tags. Some benefits of SQS are: Security (server-side encryption is available), durability (stores messages on multiple servers), availability, scalability, reliability, and customization.


Create subscription | Subscript
Create queue | Simple Queue S
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/create-queue
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS
Create queue
Details
Type
Choose the queue type for your application or cloud infrastructure.
Standard Info
At-least-once delivery, message ordering isn't preserved
At-least once delivery
Best-effort ordering
FIFO Info
First-in-first-out delivery, message ordering is preserved
First-in-first-out delivery
Exactly-once processing
You can't change the queue type after you create a queue.
Name
que1
A queue name is case-sensitive and can have up to 80 characters. You can use alphanumeric characters, hyphens (-), and underscores (_).
Visibility timeout
30
Seconds
Should be between 0 seconds and 12 hours.
Message retention period Info
4
Days
Should be between 1 minute and 14 days.
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Mostly clear
Search
ENG
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23:43
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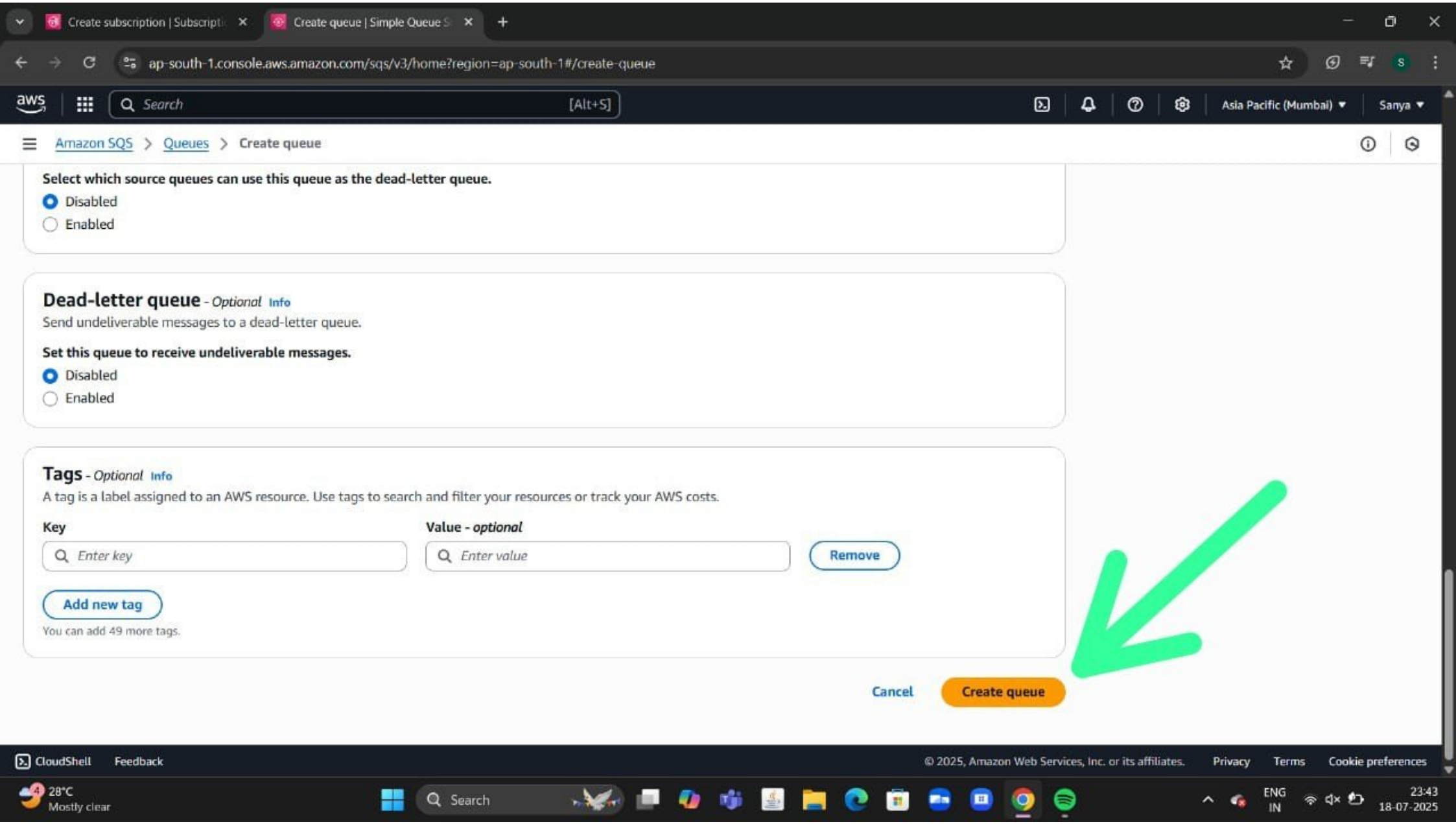
- **QUEUE :**

  In AWS, a Queue in Amazon SQS is a temporary storage for messages. Producers send messages to the queue, and consumers retrieve and process them asynchronously. SQS supports two types of queues: Standard queues (which offer high throughput with at-least-once delivery) and FIFO queues (which preserve the exact order of messages with exactly-once processing).


Create subscription | Subscripti
Create queue | Simple Queue S
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/create-queue
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS > Queues > Create queue
Select which source queues can use this queue as the dead-letter queue.
Disabled
Enabled
Dead-letter queue - Optional Info
Send undeliverable messages to a dead-letter queue.
Set this queue to receive undeliverable messages.
Disabled
Enabled
Tags - Optional Info
A tag is a label assigned to an AWS resource. Use tags to search and filter your resources or track your AWS costs.
Key
Value - optional
Enter key
Enter value
Remove
Add new tag
You can add 49 more tags.
Cancel
Create queue
CloudShell
Feedback
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Terms
Cookie preferences
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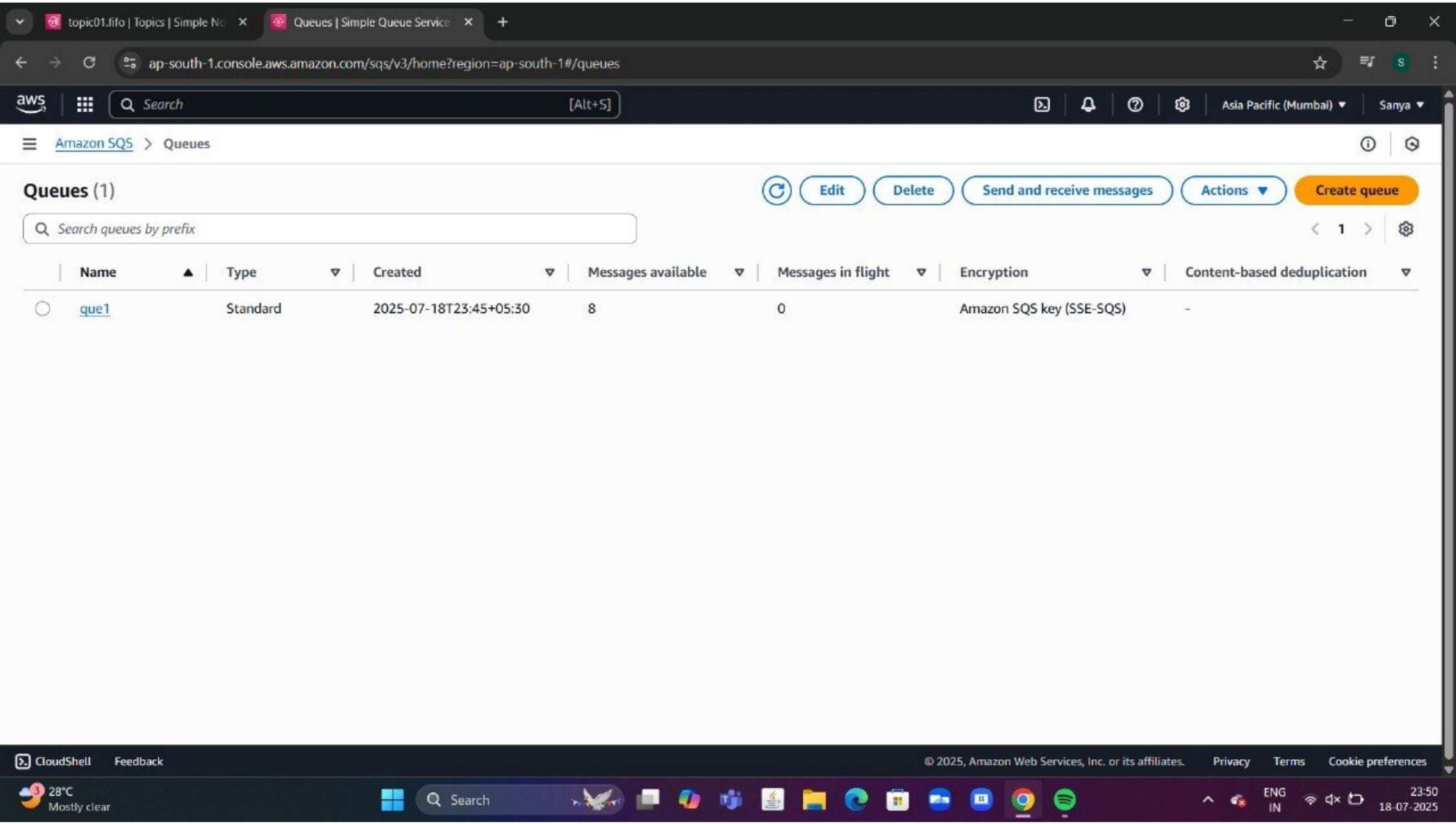
Mostly clear
Search
ENG
IN
23:43
18-07-2025


topic01.fifo | Topics | Simple No
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS > Queues
Queues (1)
Edit
Delete
Send and receive messages
Actions
Create queue
Search queues by prefix
1
Name
Type
Created
Messages available
Messages in flight
Encryption
Content-based deduplication
que1
Standard
2025-07-18T23:45+05:30
8
0
Amazon SQS key (SSE-SQS)
-
CloudShell
Feedback
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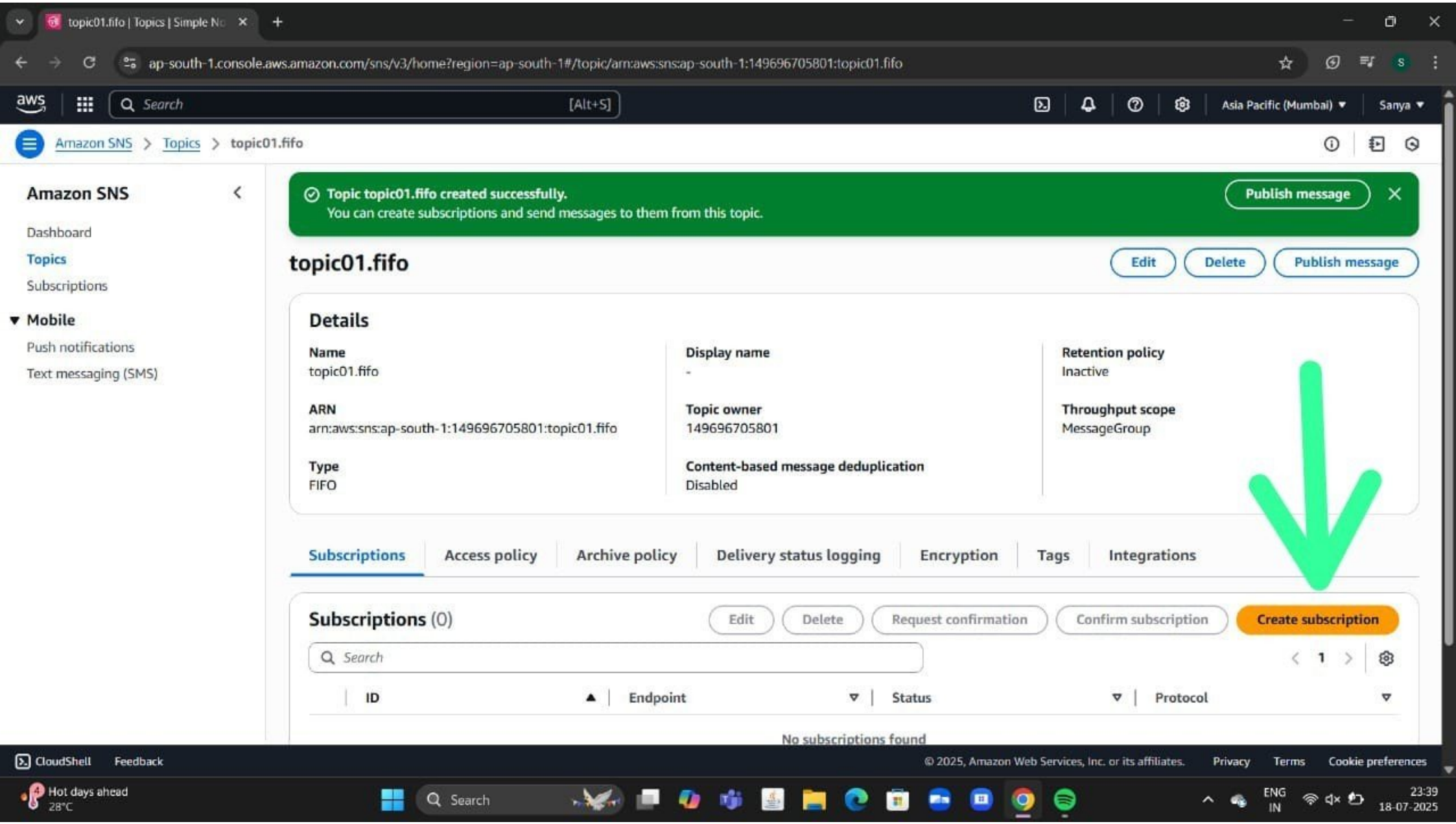
Cookie preferences
28°C
Mostly clear
Search
ENG
IN
23:50
18-07-2025


topic01.fifo | Topics | Simple No
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/topic/arn:aws:sns:ap-south-1:149696705801:topic01.fifo
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Topics > topic01.fifo
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Topic topic01.fifo created successfully.
You can create subscriptions and send messages to them from this topic.
Publish message
topic01.fifo
Edit
Delete
Publish message
Details
Name
topic01.fifo
Display name
-
Retention policy
Inactive
ARN
arn:aws:sns:ap-south-1:149696705801:topic01.fifo
Topic owner
149696705801
Throughput scope
MessageGroup
Type
FIFO
Content-based message deduplication
Disabled
Subscriptions
Access policy
Archive policy
Delivery status logging
Encryption
Tags
Integrations
Subscriptions (0)
Edit
Delete
Request confirmation
Confirm subscription
Create subscription
Search
1
ID
Endpoint
Status
Protocol
No subscriptions found
CloudShell
Feedback
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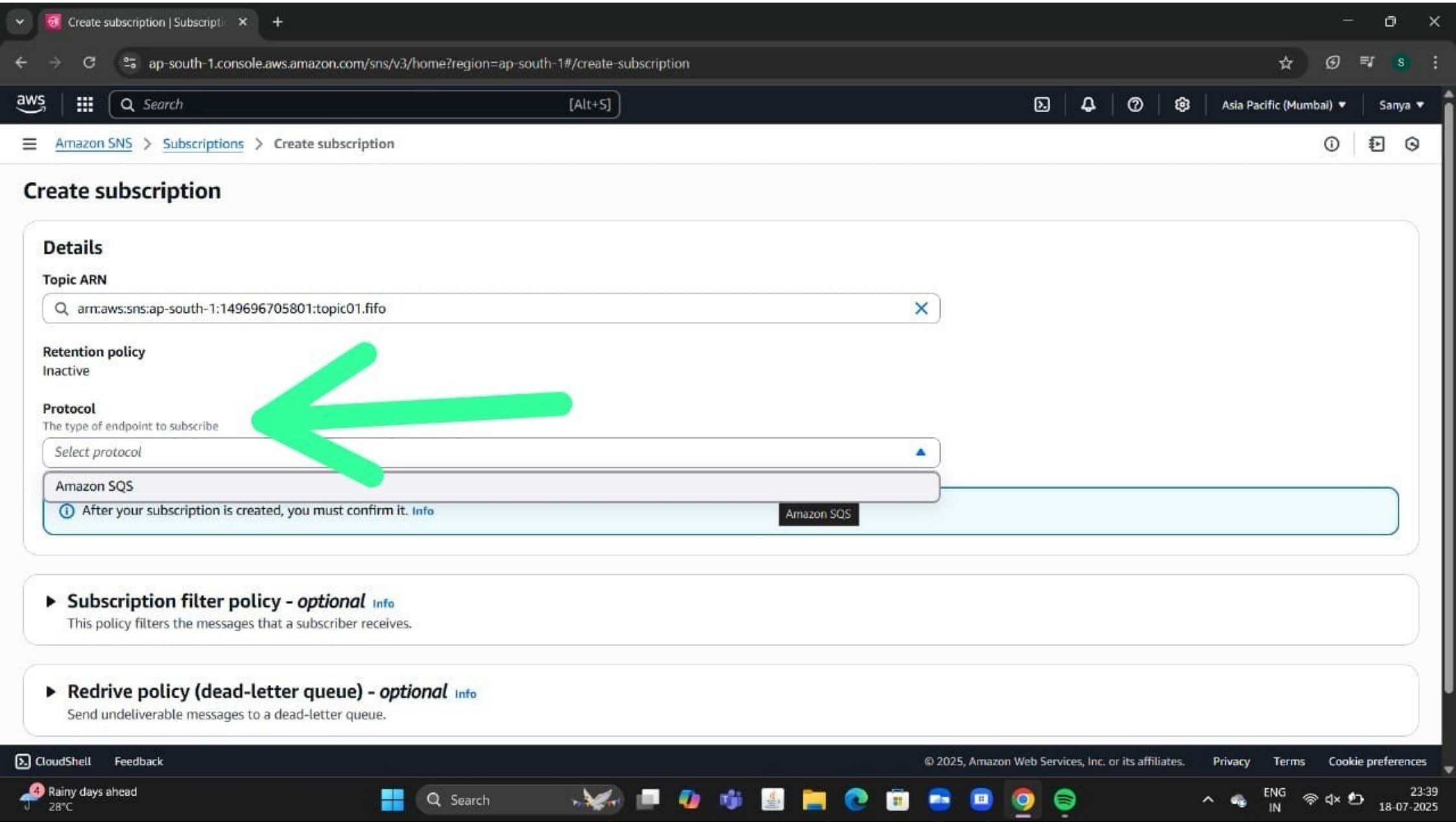
Privacy
Terms
Cookie preferences
Hot days ahead
28°C
Search
ENG
IN
23:39
18-07-2025


Create subscription | Subscript
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/create-subscription
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Subscriptions > Create subscription
Create subscription
Details
Topic ARN
arn:aws:sns:ap-south-1:149696705801:topic01.fifo
Retention policy
Inactive
Protocol
The type of endpoint to subscribe
Select protocol
Amazon SQS
After your subscription is created, you must confirm it. Info
Amazon SQS
Subscription filter policy - optional Info
This policy filters the messages that a subscriber receives.
Redrive policy (dead-letter queue) - optional Info
Send undeliverable messages to a dead-letter queue.
CloudShell
Feedback
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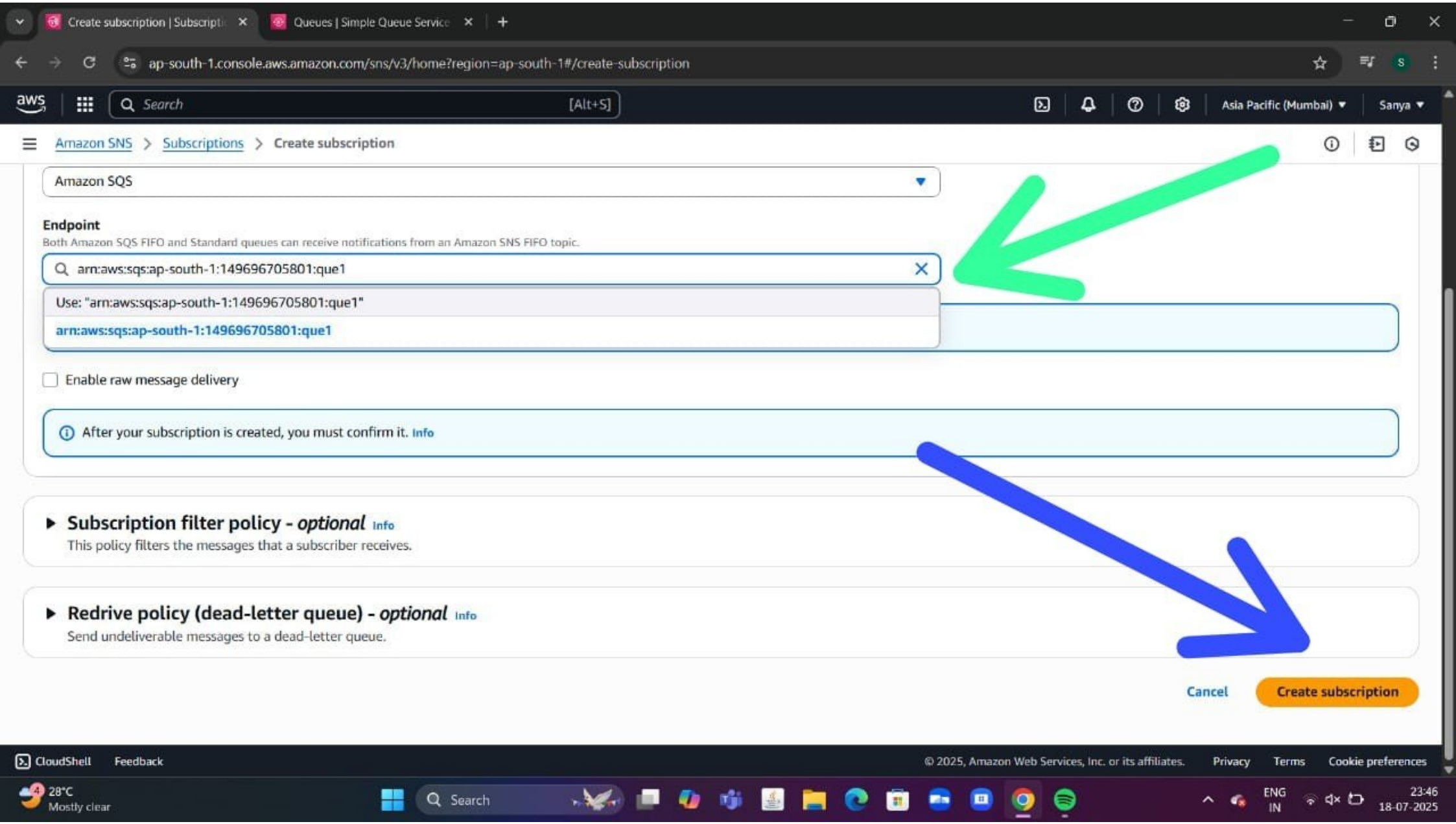
Privacy
Terms
Cookie preferences
Rainy days ahead
28°C
Search
ENG
IN
23:39
18-07-2025


Create subscription | Subscript
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/create-subscription
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Subscriptions > Create subscription
Amazon SQS
Endpoint
Both Amazon SQS FIFO and Standard queues can receive notifications from an Amazon SNS FIFO topic.
arn:aws:sqs:ap-south-1:149696705801:que1
Use: "arn:aws:sqs:ap-south-1:149696705801:que1"
arn:aws:sqs:ap-south-1:149696705801:que1
Enable raw message delivery
After your subscription is created, you must confirm it. Info
Subscription filter policy - optional Info
This policy filters the messages that a subscriber receives.
Redrive policy (dead-letter queue) - optional Info
Send undeliverable messages to a dead-letter queue.
Cancel
Create subscription
CloudShell
Feedback
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Cookie preferences
28°C
Mostly clear
Search
ENG
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23:46
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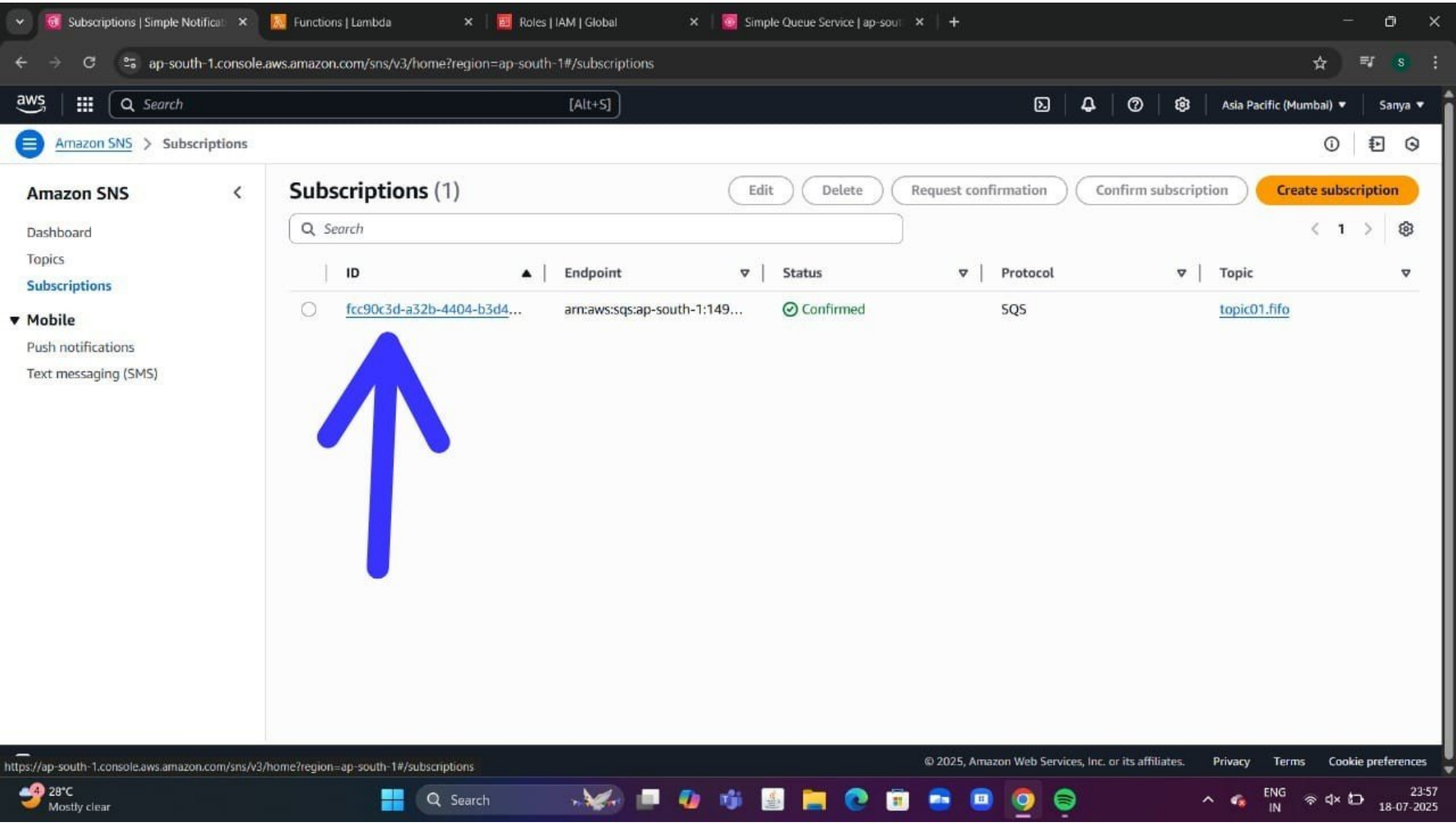
Subscriptions | Simple Notifica
Functions | Lambda
Roles | IAM | Global
Simple Queue Service | ap-sout
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/subscriptions
Search
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Asia Pacific (Mumbai)
Sanya
Amazon SNS > Subscriptions
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Subscriptions (1)
Edit
Delete
Request confirmation
Confirm subscription
Create subscription
Search
1
ID
Endpoint
Status
Protocol
Topic
fcc90c3d-a32b-4404-b3d4...
arn:aws:sqs:ap-south-1:149...
Confirmed
SQS
topic01.fifo
https://ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/subscriptions
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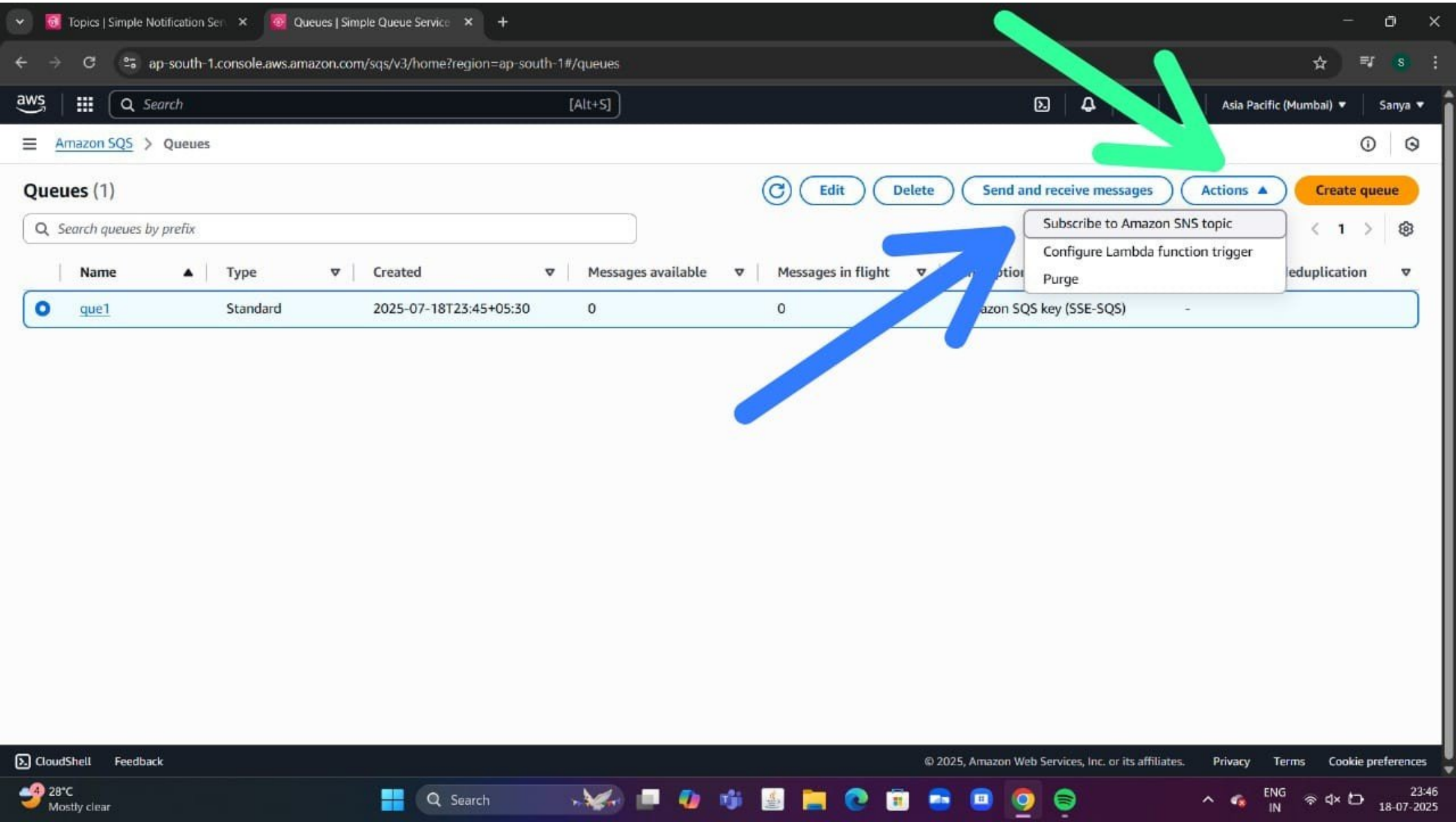
Topics | Simple Notification Ser
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS > Queues
Queues (1)
Edit
Delete
Send and receive messages
Actions
Create queue
Subscribe to Amazon SNS topic
Configure Lambda function trigger
Purge
Search queues by prefix
1
Name
Type
Created
Messages available
Messages in flight
eduplication
que1
Standard
2025-07-18T23:45+05:30
0
0
azon SQS key (SSE-SQS)
-
CloudShell
Feedback
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Cookie preferences
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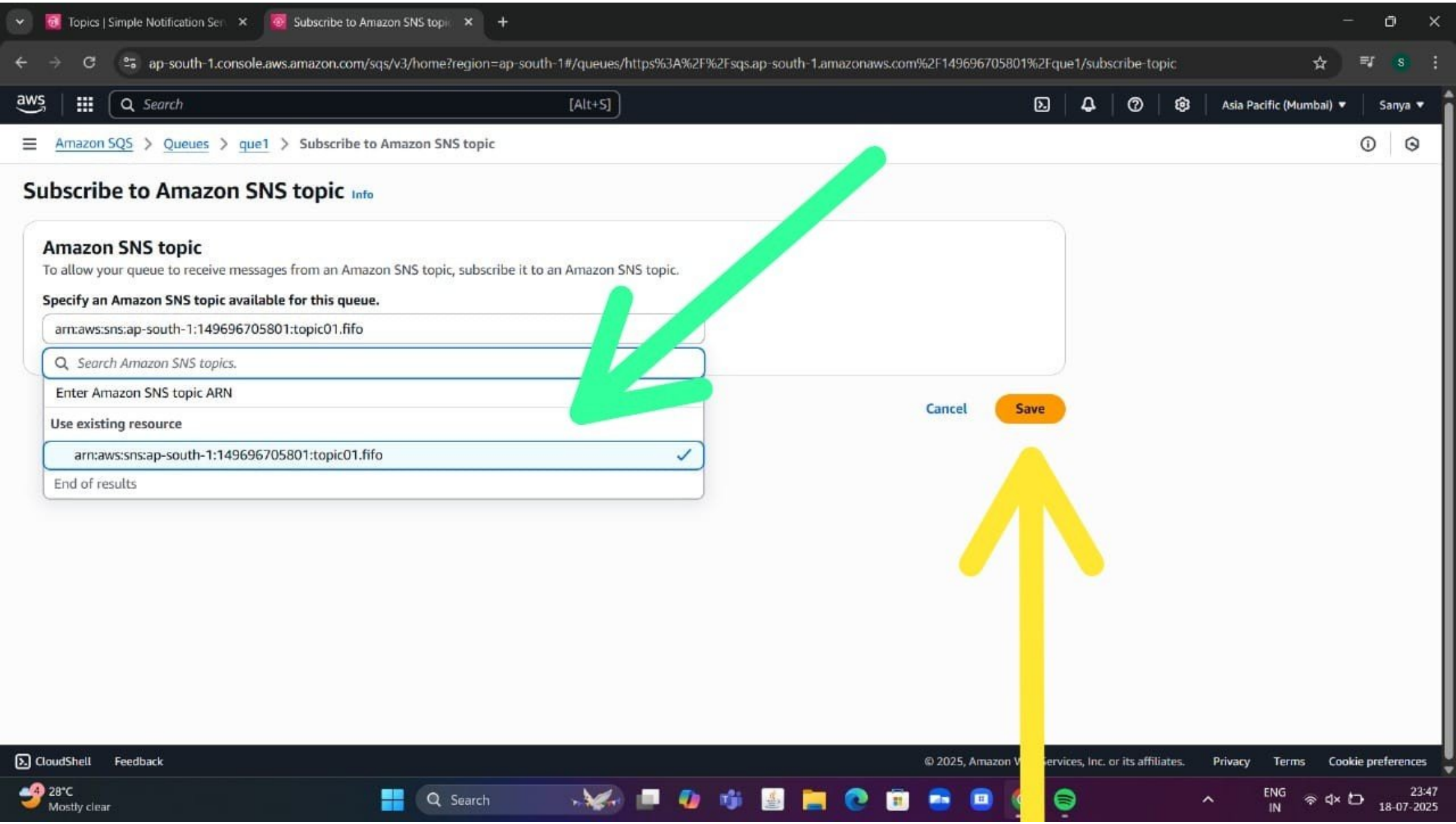
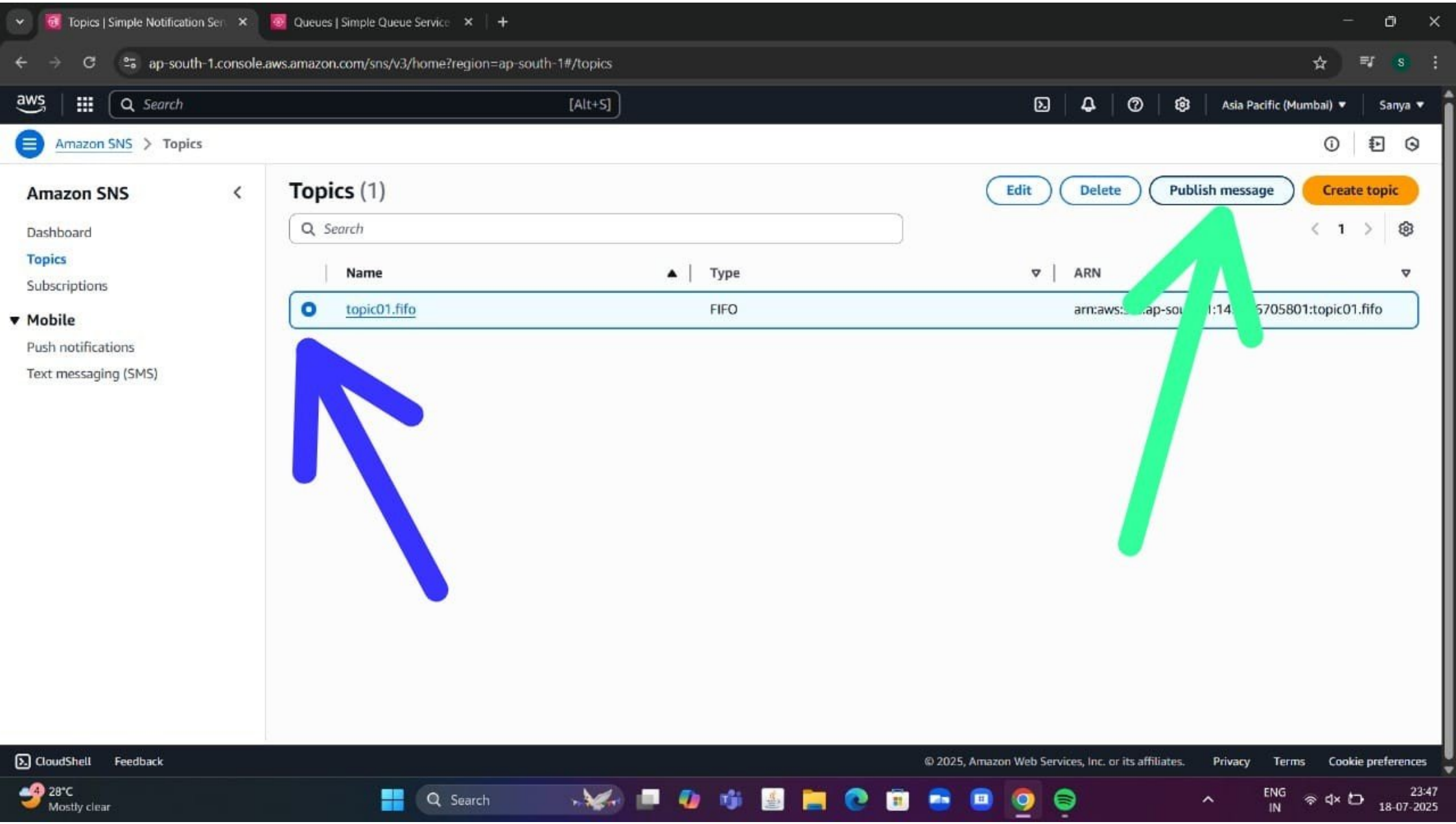
18-07-2025


Topics | Simple Notification Ser
Subscribe to Amazon SNS topic
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazonaws.com%2F149696705801%2Fque1/subscribe-topic
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS > Queues > que1 > Subscribe to Amazon SNS topic
Subscribe to Amazon SNS topic Info
Amazon SNS topic
To allow your queue to receive messages from an Amazon SNS topic, subscribe it to an Amazon SNS topic.
Specify an Amazon SNS topic available for this queue.
arn:aws:sns:ap-south-1:149696705801:topic01.fifo
Search Amazon SNS topics.
Enter Amazon SNS topic ARN
Use existing resource
arn:aws:sns:ap-south-1:149696705801:topic01.fifo
End of results
Cancel
Save
CloudShell
Feedback
Privacy
Terms
Cookie preferences
28°C
Mostly clear
Search
ENG
IN
23:47
18-07-2025


Topics | Simple Notification Ser
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/topics
Search
[Alt+S]
Asia Pacific (Mumbai)
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Amazon SNS > Topics
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Topics (1)
Edit
Delete
Publish message
Create topic
Search
1
Name
Type
ARN
topic01.fifo
FIFO
5705801:topic01.fifo
CloudShell
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Cookie preferences
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Mostly clear
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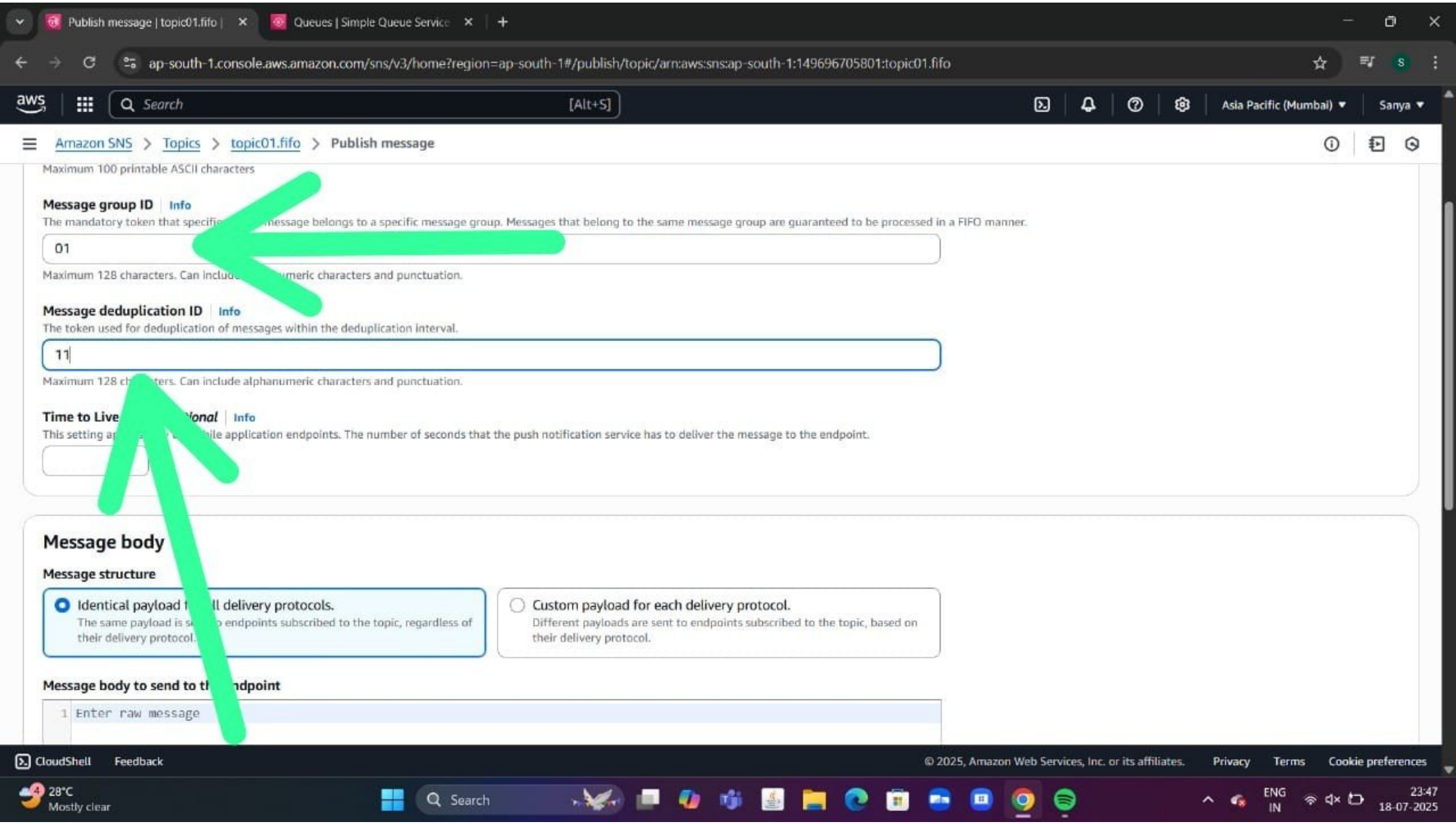
Publish message | topic01.fifo
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/publish/topic/arn:aws:sns:ap-south-1:149696705801:topic01.fifo
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Topics > topic01.fifo > Publish message
Maximum 100 printable ASCII characters
Message group ID Info
The mandatory token that specifies message belongs to a specific message group. Messages that belong to the same message group are guaranteed to be processed in a FIFO manner.
01
Maximum 128 characters. Can include numeric characters and punctuation.
Message deduplication ID Info
The token used for deduplication of messages within the deduplication interval.
11
Maximum 128 characters. Can include alphanumeric characters and punctuation.
Time to Live (TTL) - optional Info
This setting applies only to mobile application endpoints. The number of seconds that the push notification service has to deliver the message to the endpoint.
Message body
Message structure
Identical payload for all delivery protocols.
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.
Custom payload for each delivery protocol.
Different payloads are sent to endpoints subscribed to the topic, based on their delivery protocol.
Message body to send to the endpoint
1 Enter raw message
CloudShell
Feedback
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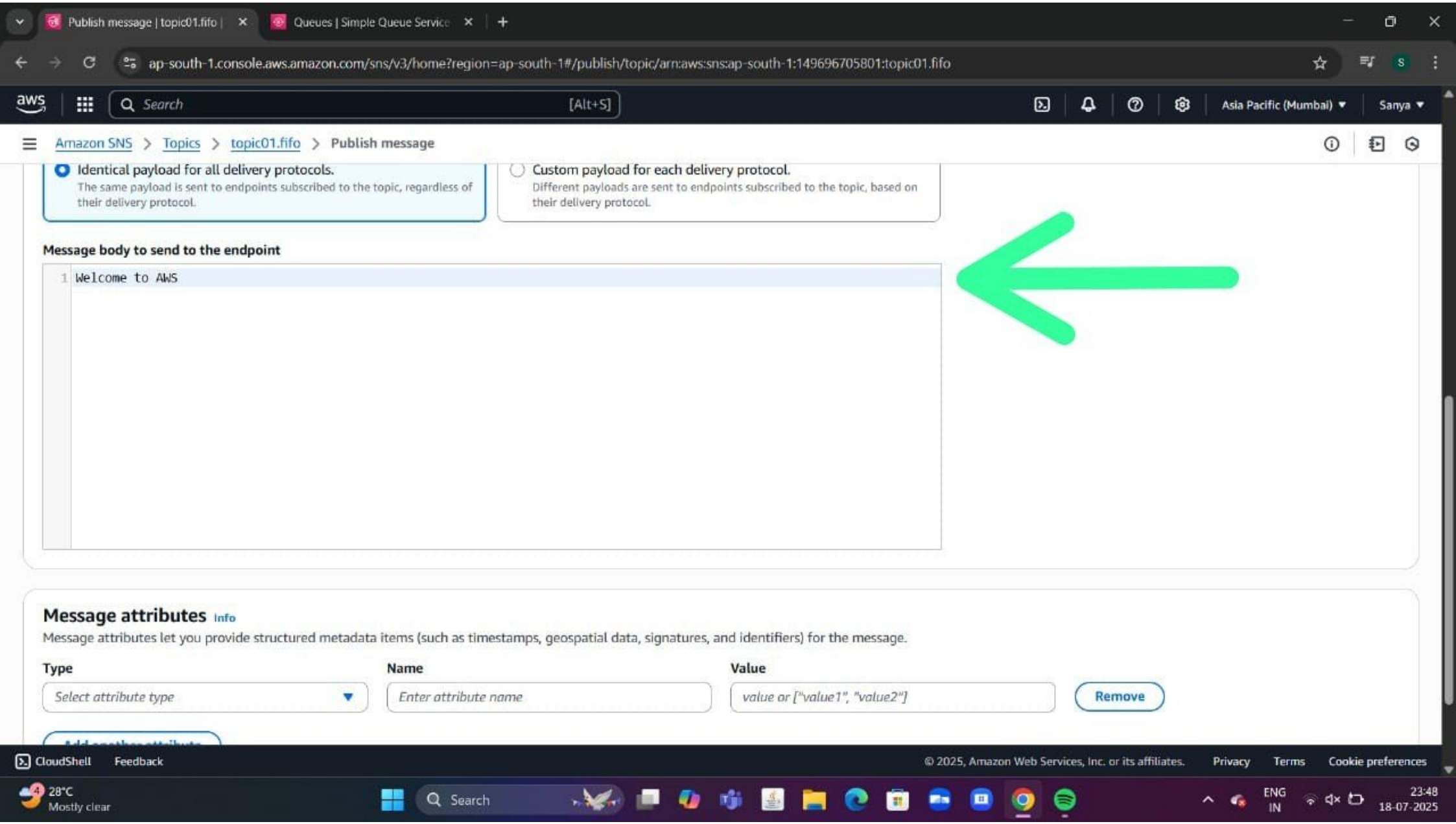
Privacy
Terms
Cookie preferences
28°C
Mostly clear
Search
ENG
IN
23:47
18-07-2025


Publish message | topic01.fifo
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/publish/topic/arn:aws:sns:ap-south-1:149696705801:topic01.fifo
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Topics > topic01.fifo > Publish message
Identical payload for all delivery protocols.
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.
Custom payload for each delivery protocol.
Different payloads are sent to endpoints subscribed to the topic, based on their delivery protocol.
Message body to send to the endpoint
1 Welcome to AWS
Message attributes Info
Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message.
Type
Name
Value
Select attribute type
Enter attribute name
value or ["value1", "value2"]
Remove
CloudShell
Feedback
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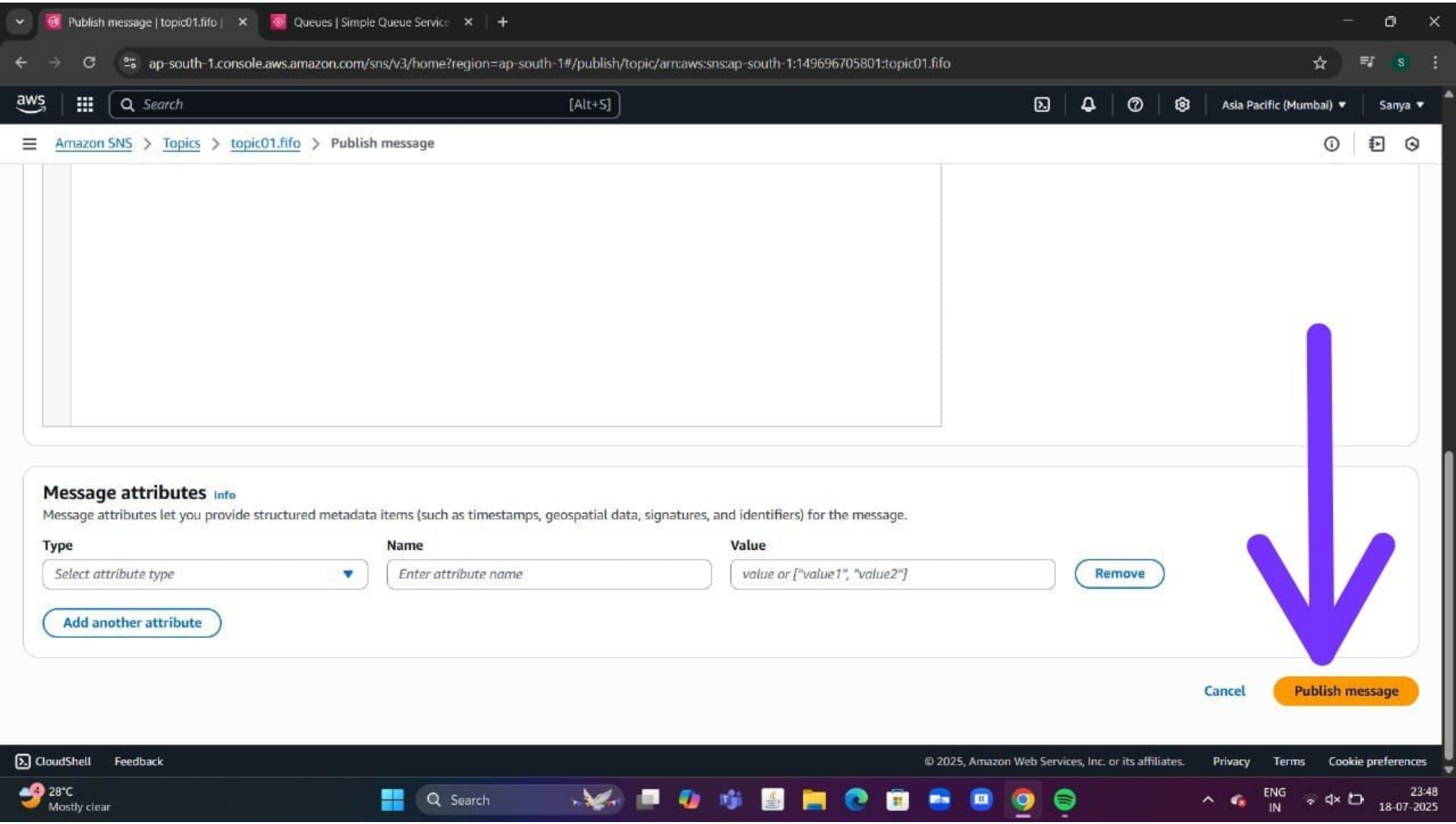
Privacy
Terms
Cookie preferences
28°C
Mostly clear
Search
ENG
IN
23:48
18-07-2025


Publish message | topic01.fifo
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sns/v3/home?region=ap-south-1#/publish/topic/arn:aws:sns:ap-south-1:149696705801:topic01.fifo
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SNS > Topics > topic01.fifo > Publish message
Message attributes Info
Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message.
Type
Select attribute type
Name
Enter attribute name
Value
value or ["value1", "value2"]
Remove
Add another attribute
Cancel
Publish message
CloudShell
Feedback
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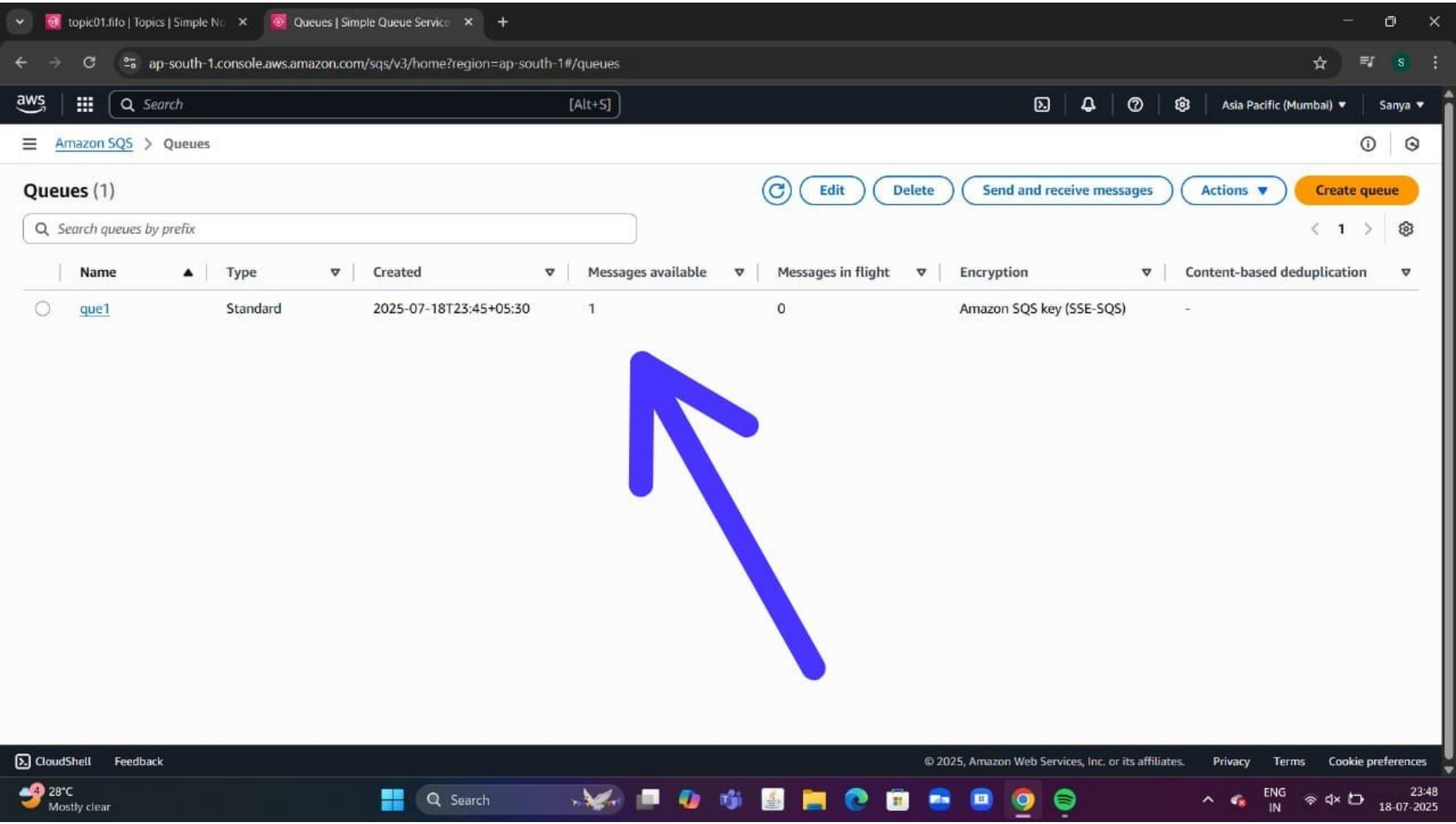
Mostly clear
Search
ENG
IN
23:48
18-07-2025


topic01.fifo | Topics | Simple N
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS > Queues
Queues (1)
Edit
Delete
Send and receive messages
Actions
Create queue
Search queues by prefix
1
Name
Type
Created
Messages available
Messages in flight
Encryption
Content-based deduplication
que1
Standard
2025-07-18T23:45+05:30
1
0
Amazon SQS key (SSE-SQS)
-
CloudShell
Feedback
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Search
ENG
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23:48
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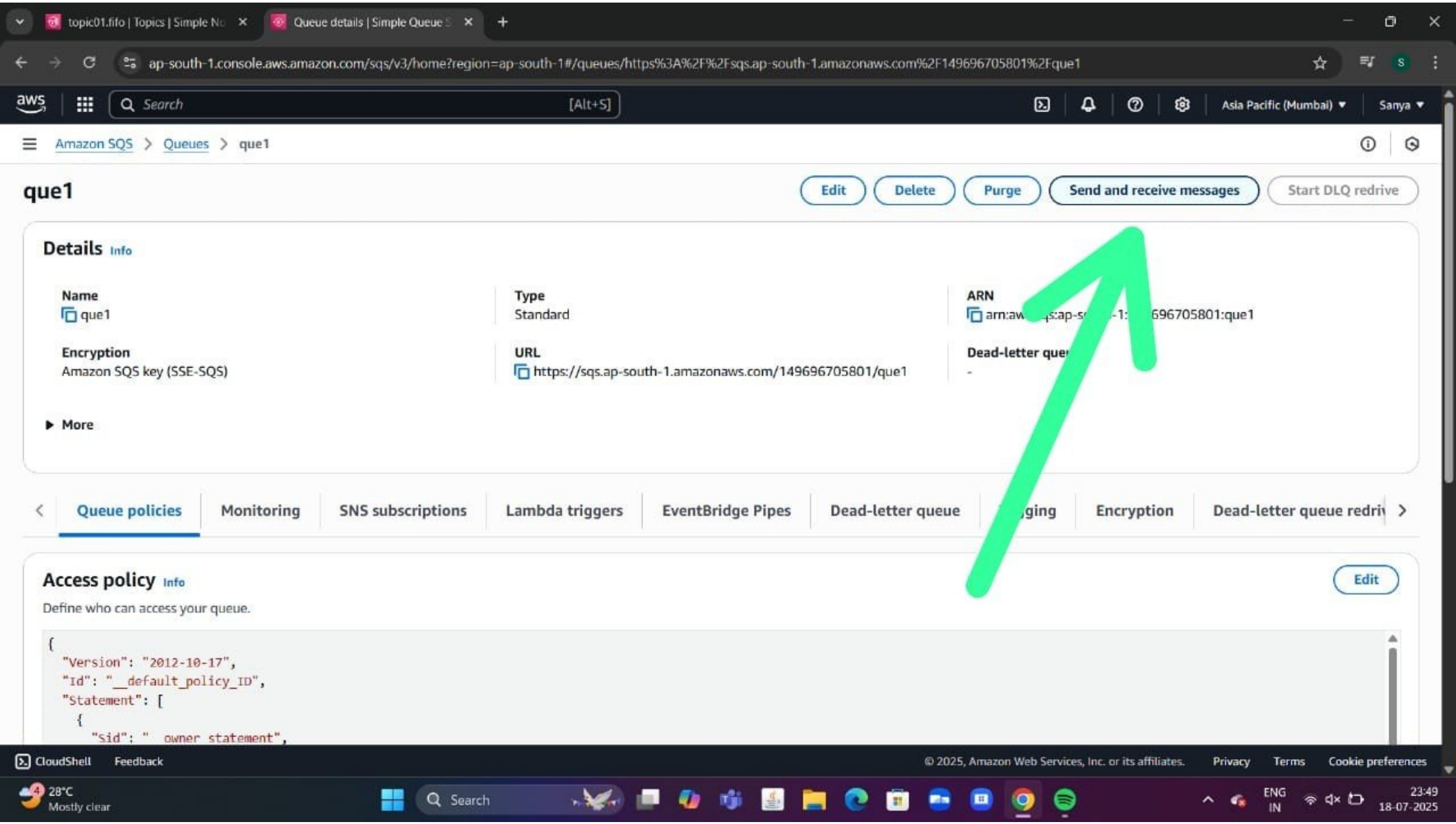
topic01.fifo | Topics | Simple N
Queue details | Simple Queue
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazonaws.com%2F149696705801%2Fque1
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS > Queues > que1
que1
Edit
Delete
Purge
Send and receive messages
Start DLQ redrive
Details Info
Name
que1
Type
Standard
ARN
696705801:que1
Encryption
Amazon SQS key (SSE-SQS)
URL
https://sqs.ap-south-1.amazonaws.com/149696705801/que1
Dead-letter que
More
Queue policies
Monitoring
SNS subscriptions
Lambda triggers
EventBridge Pipes
Dead-letter queue
Encryption
Dead-letter queue redri
Access policy Info
Edit
Define who can access your queue.
{
"Version": "2012-10-17",
"Id": "__default_policy_ID",
"Statement": [
{
"Sid": "__owner_statement",
CloudShell
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Cookie preferences
28°C
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Search
ENG
IN
23:49
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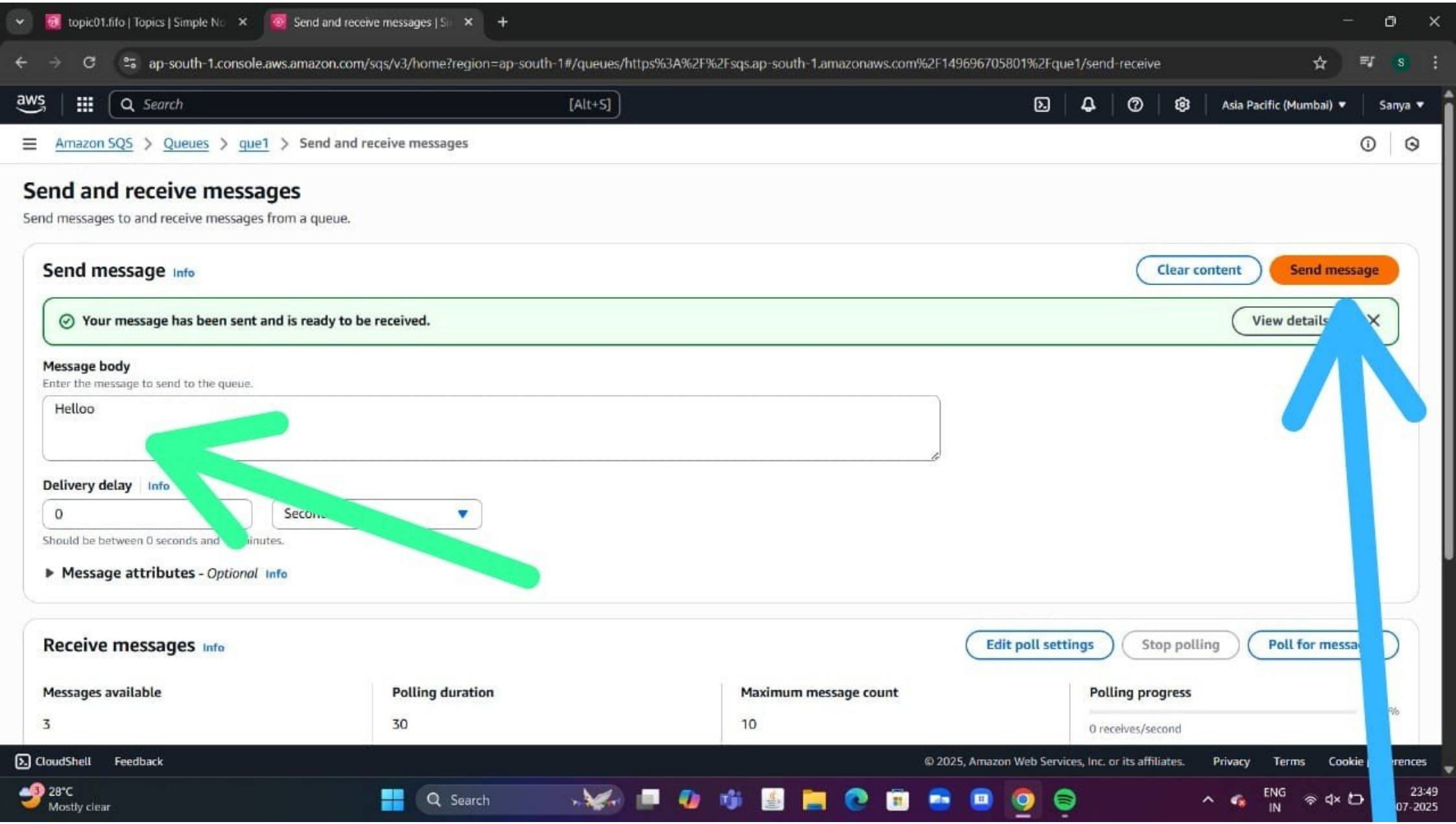
topic01.fifo | Topics | Simple N
Send and receive messages | S
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues/https%3A%2F%2Fsqs.ap-south-1.amazonaws.com%2F149696705801%2Fque1/send-receive
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Amazon SQS > Queues > que1 > Send and receive messages
Send and receive messages
Send messages to and receive messages from a queue.
Send message Info
Clear content
Send message
Your message has been sent and is ready to be received.
View details
Message body
Enter the message to send to the queue.
Helloo
Delivery delay Info
0
Should be between 0 seconds and
Message attributes - Optional Info
Receive messages Info
Edit poll settings
Stop polling
Poll for messa
Messages available
3
Polling duration
30
Maximum message count
10
Polling progress
0 receives/second
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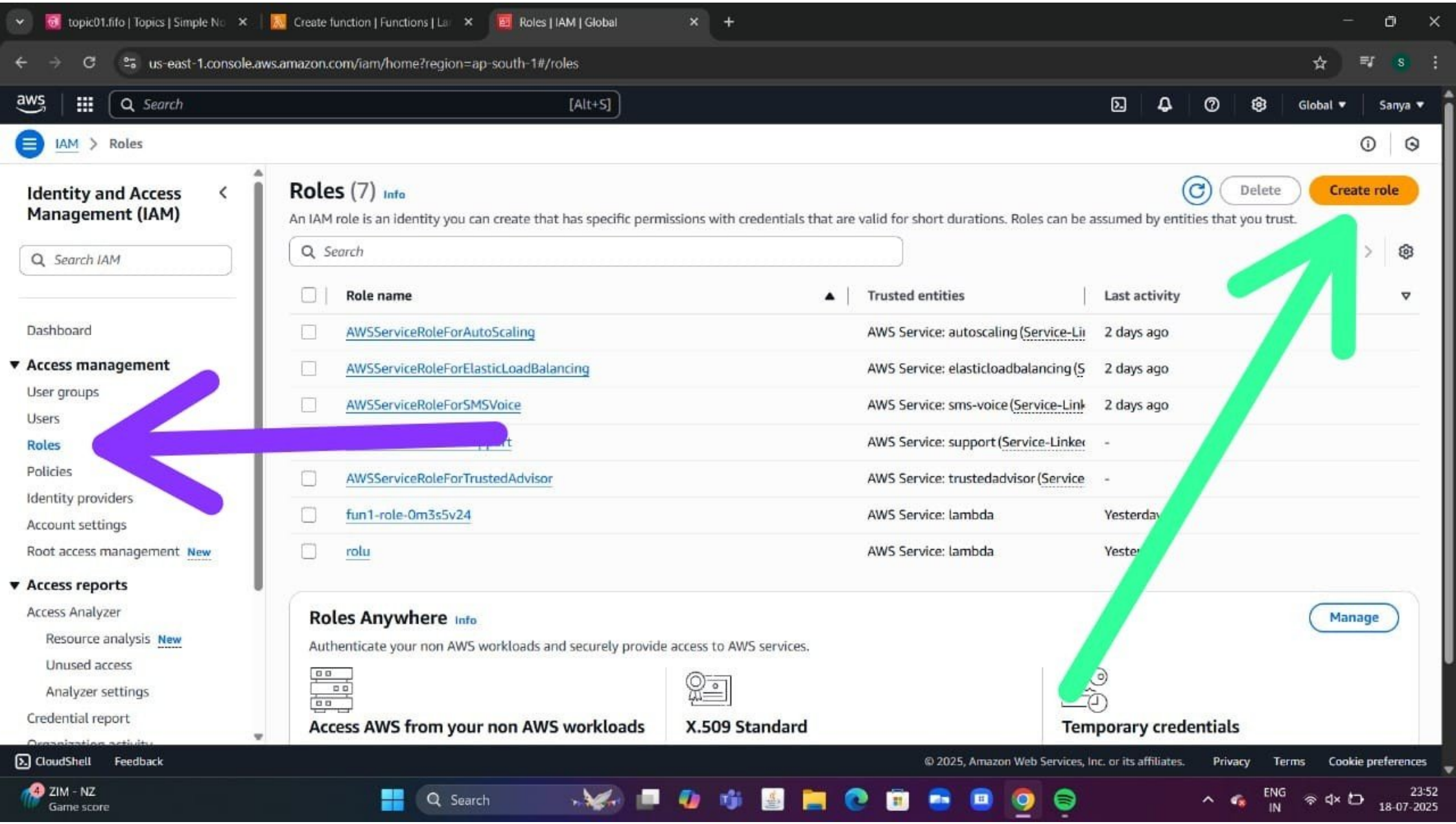
- **IAM :**

  IAM (Identity and Access Management) in AWS is a service that helps to manage who can access our AWS resources and what they can do. We can create users, groups and roles, and assign permissions to control actions like viewing, editing, or deleting resources. It's an essential tool for keeping our AWS account secure, organized, and under control.


topic01.fifo | Topics | Simple No
Create function | Functions | La
Roles | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles
Search
[Alt+S]
Global
Sanya
IAM > Roles
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
Resource analysis New
Unused access
Analyzer settings
Credential report
Roles (7) Info
An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.
Delete
Create role
Search
Role name
Trusted entities
Last activity
AWSServiceRoleForAutoScaling
AWS Service: autoscaling (Service-Li
2 days ago
AWSServiceRoleForElasticLoadBalancing
AWS Service: elasticloadbalancing (S
2 days ago
AWSServiceRoleForSMSVoice
AWS Service: sms-voice (Service-Link
2 days ago
AWS Service: support (Service-Linke
-
AWSServiceRoleForTrustedAdvisor
AWS Service: trustedadvisor (Service
-
fun1-role-0m3s5v24
AWS Service: lambda
Yesterda
rolu
AWS Service: lambda
Yeste
Roles Anywhere Info
Manage
Authenticate your non AWS workloads and securely provide access to AWS services.
Access AWS from your non AWS workloads
X.509 Standard
Temporary credentials
CloudShell
Feedback
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Cookie preferences
ZIM - NZ
Game score
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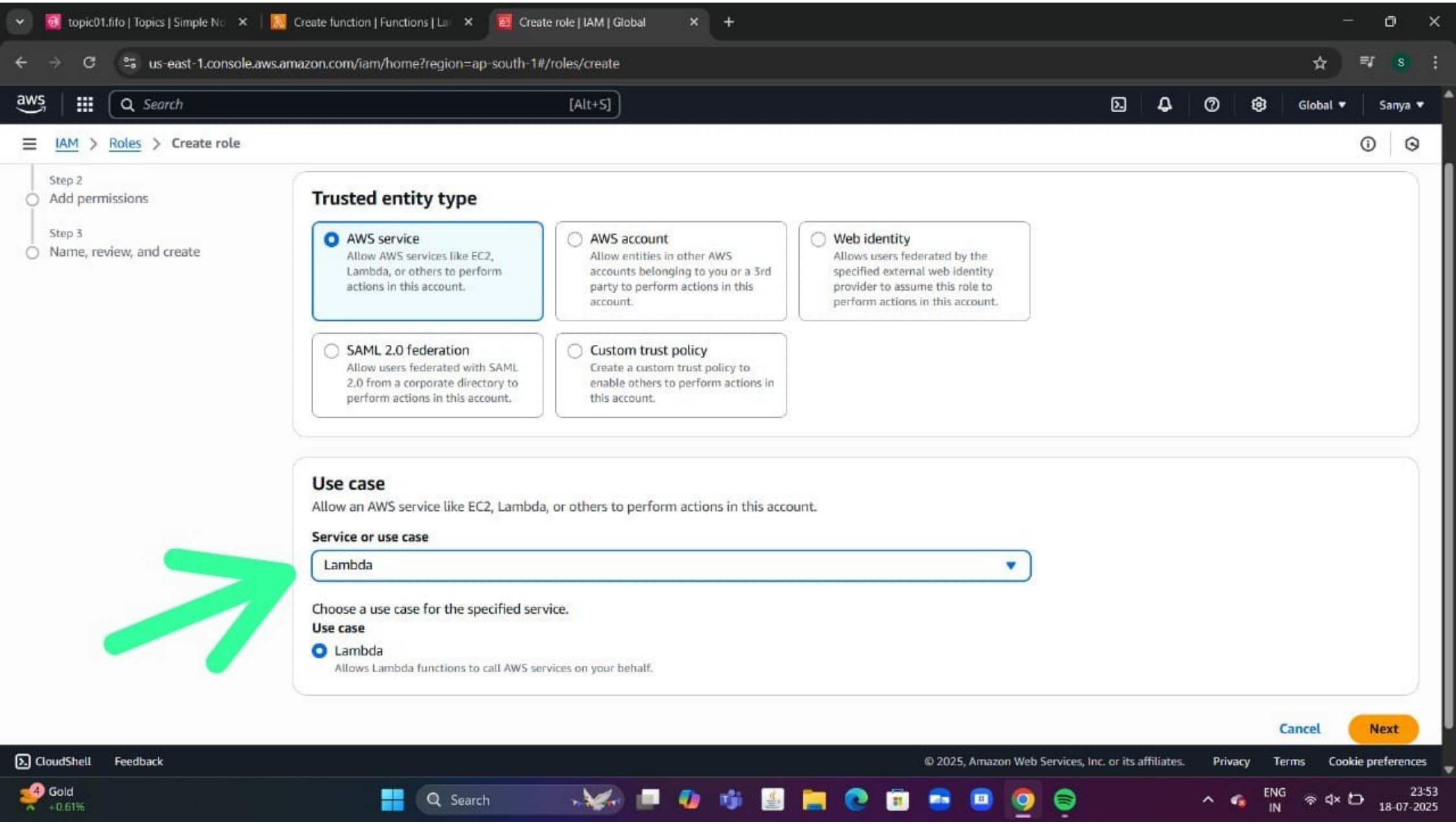
- **ROLES :**

  In AWS, ROLES are used to allow services like Lambda to securely access other AWS resources, such as SQS. When a Lambda function is triggered by an SQS queue, it needs an IAM role with the right permissions to read and delete messages from that queue. Instead of using passwords or access keys, the role is assumed temporarily by the function, making the process secure and efficient. Roles help different AWS services work together safely without exposing sensitive credentials.


topic01.fifo | Topics | Simple No
Create function | Functions | La
Create role | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create
Search [Alt+S]
Global
Sanya
IAM > Roles > Create role
Step 2
Add permissions
Step 3
Name, review, and create
Trusted entity type
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
Lambda
Choose a use case for the specified service.
Use case
Lambda
Allows Lambda functions to call AWS services on your behalf.
Cancel
Next
CloudShell
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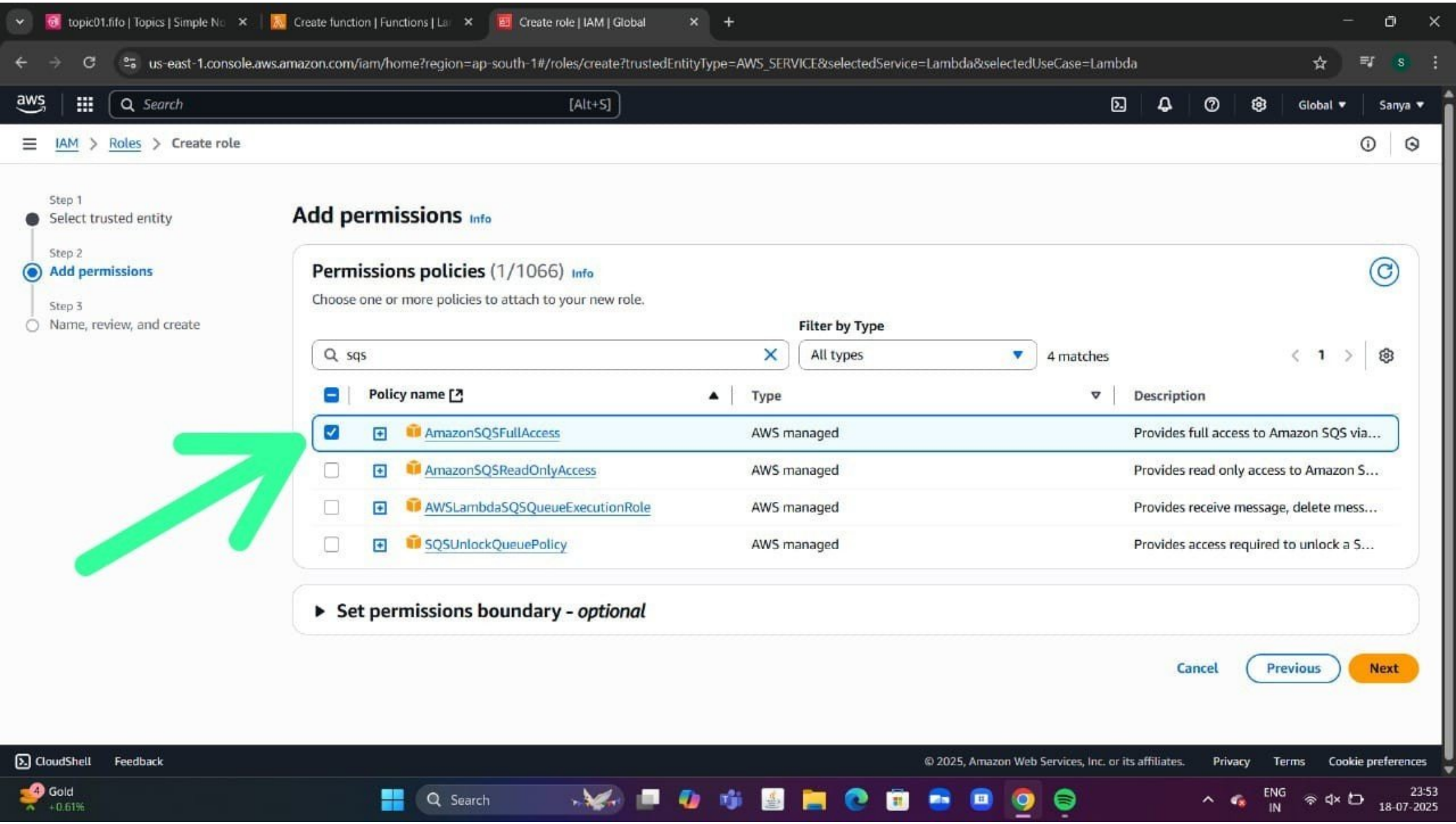
Gold +0.61%
Search
ENG IN
23:53 18-07-2025


topic01.fifo | Topics | Simple No
Create function | Functions | La
Create role | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create?trustedEntityType=AWS_SERVICE&selectedService=Lambda&selectedUseCase=Lambda
aws
Search
[Alt+S]
Global
Sanya
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions Info
Permissions policies (1/1066) Info
Choose one or more policies to attach to your new role.
Filter by Type
sqs
All types
4 matches
1
Policy name
Type
Description
AmazonSQSFullAccess
AWS managed
Provides full access to Amazon SQS via...
AmazonSQSReadOnlyAccess
AWS managed
Provides read only access to Amazon S...
AWSLambdaSQSQueueExecutionRole
AWS managed
Provides receive message, delete mess...
SQSUnlockQueuePolicy
AWS managed
Provides access required to unlock a S...
Set permissions boundary - optional
Cancel
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Next
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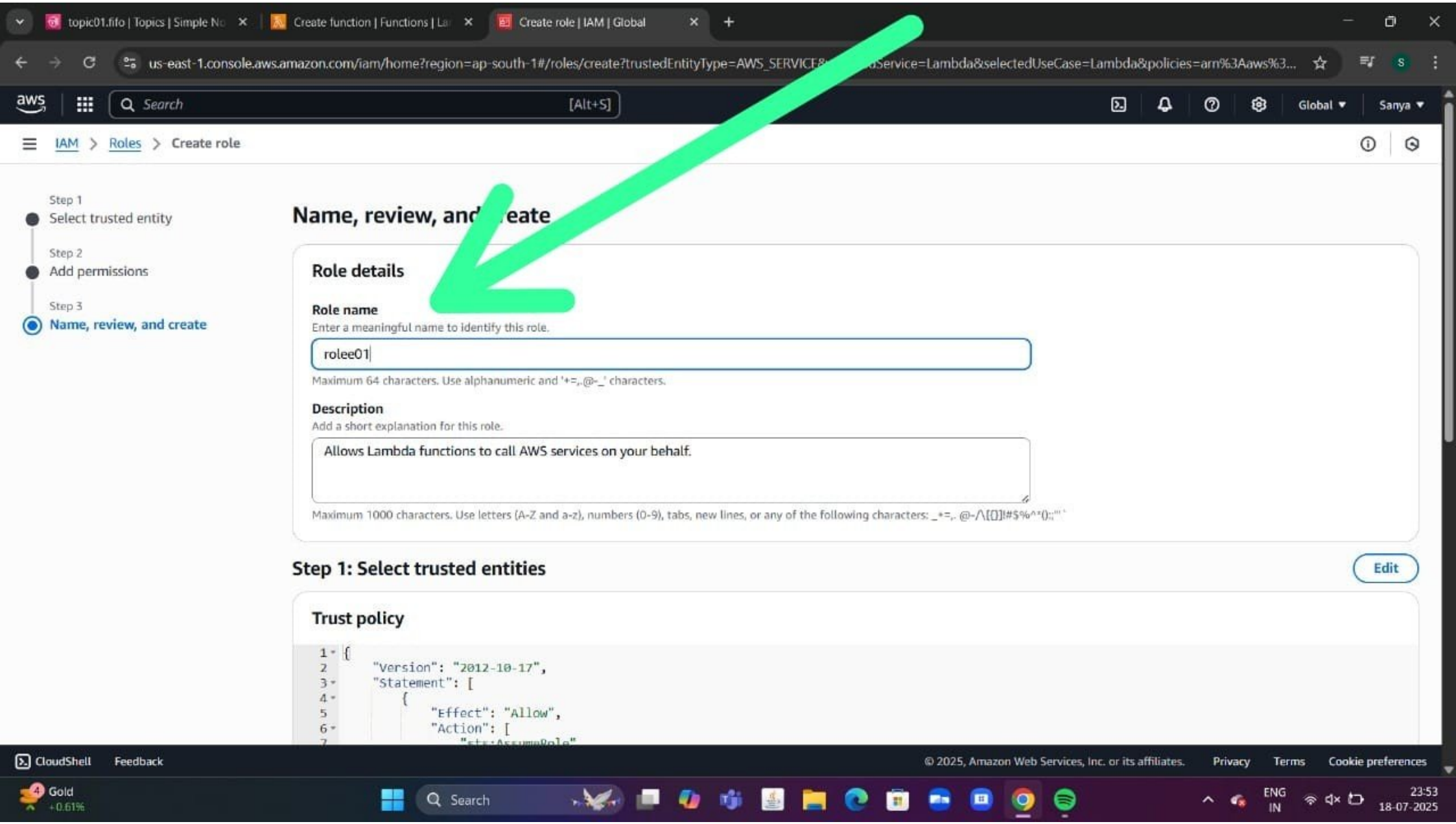
topic01.fifo | Topics | Simple No
Create function | Functions | La
Create role | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create?trustedEntityType=AWS_SERVICE&
dService=Lambda&selectedUseCase=Lambda&policies=arn%3Aaws%3...
aws
Search
[Alt+S]
Global
Sanya
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Name, review, and eate
Role details
Role name
Enter a meaningful name to identify this role.
rolee01
Maximum 64 characters. Use alphanumeric and '+=,.@-_' characters.
Description
Add a short explanation for this role.
Allows Lambda functions to call AWS services on your behalf.
Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _*=,. @-/\[{}]!#$%^*();:"'`
Step 1: Select trusted entities
Edit
Trust policy
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": [
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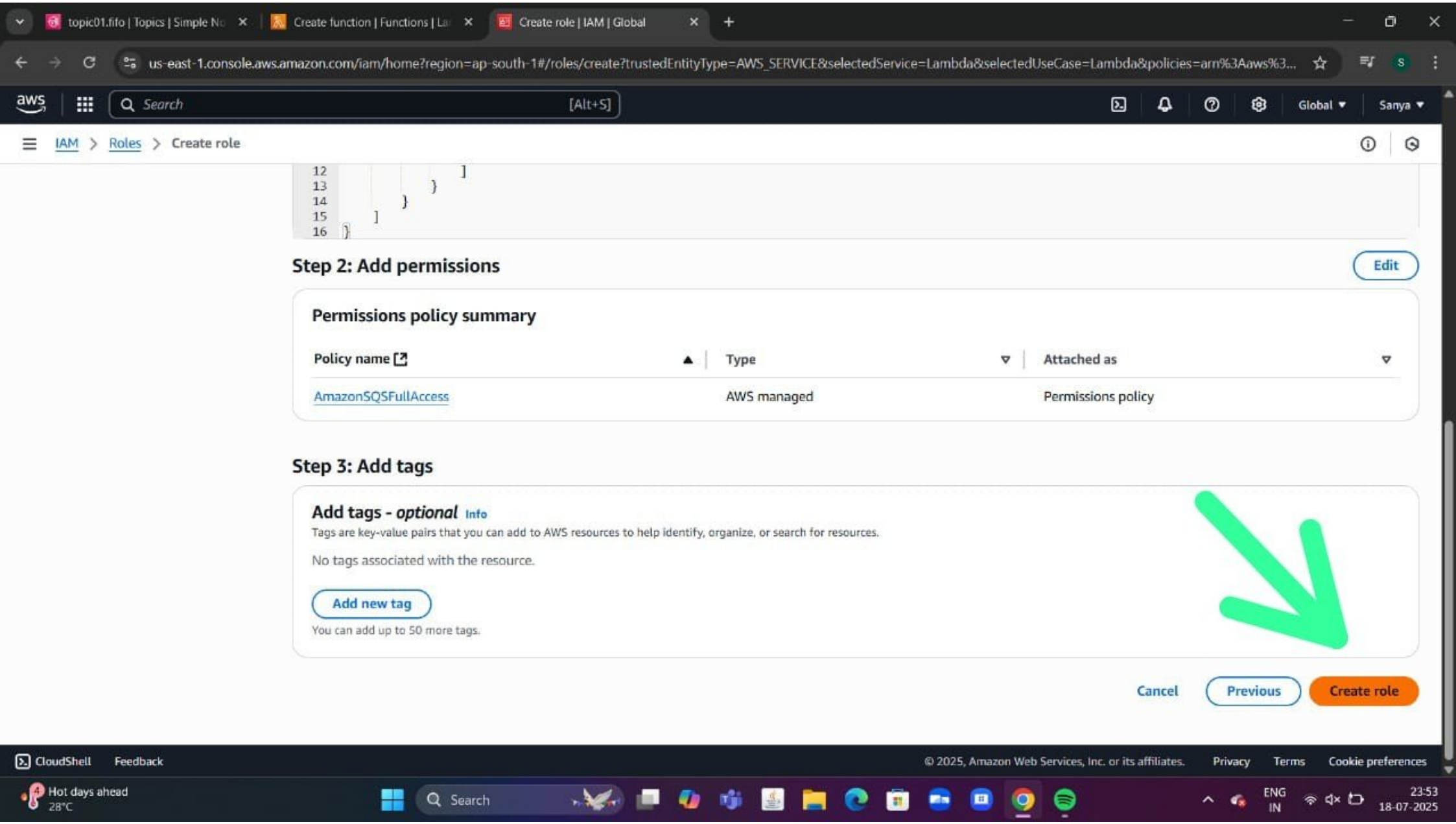
topic01.fifo | Topics | Simple No
Create function | Functions | La
Create role | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create?trustedEntityType=AWS_SERVICE&selectedService=Lambda&selectedUseCase=Lambda&policies=arn%3Aaws%3...
aws
Search
[Alt+S]
Global
Sanya
IAM > Roles > Create role
12]
13 }
14 }
15]
16 }
Step 2: Add permissions
Edit
Permissions policy summary
Policy name
Type
Attached as
AmazonSQSFullAccess
AWS managed
Permissions policy
Step 3: Add tags
Add tags - optional Info
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.
Cancel
Previous
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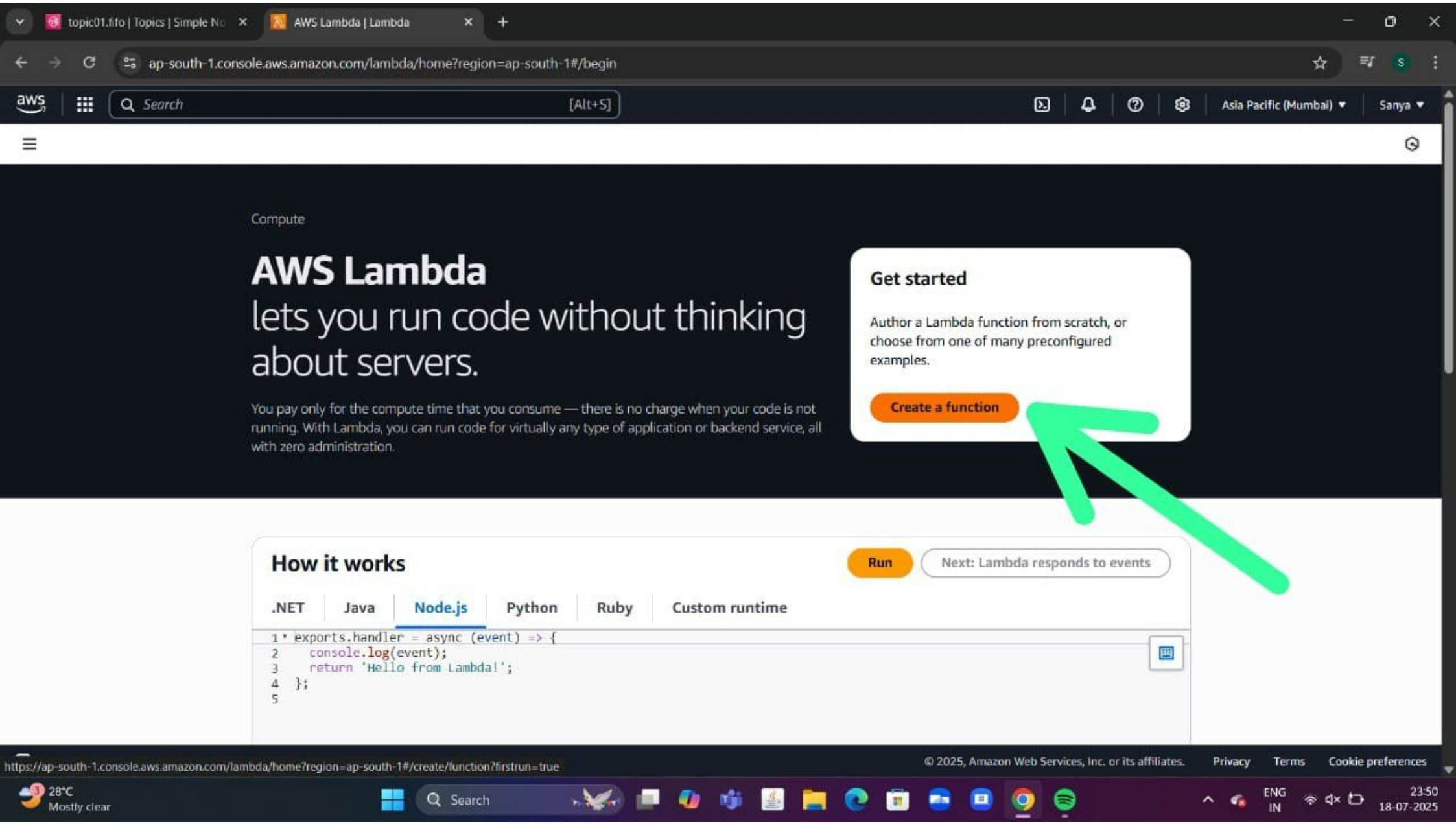
topic01.fifo | Topics | Simple No
AWS Lambda | Lambda
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/begin
aws
Search
[Alt+S]
Asia Pacific (Mumbai)
Sanya
Compute
AWS Lambda
lets you run code without thinking about servers.
You pay only for the compute time that you consume — there is no charge when your code is not running. With Lambda, you can run code for virtually any type of application or backend service, all with zero administration.
Get started
Author a Lambda function from scratch, or choose from one of many preconfigured examples.
Create a function
How it works
Run
Next: Lambda responds to events
.NET
Java
Node.js
Python
Ruby
Custom runtime
1 exports.handler = async (event) => {
2 console.log(event);
3 return 'Hello from Lambda!';
4 };
5
https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function?firstrun=true
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- **LAMBDA FUNCTION :**

  An AWS Lambda function let the code run automatically when something happens, like a user uploads a file or clicks a button on a website. We don't need to set up or manage any servers—just write the code, choose what should trigger it, and AWS takes care of the rest. It runs only when needed and we pay only for the time it runs.

topic01.fifo | Topics | Simple N

Create function | Functions | La

ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function?firstrun=true&intent=authorFromScratch

Search [Alt+S]

Asia Pacific (Mumbai) Sanya

Lambda > Functions > Create function

Create function Info

Choose one of the following options to create your function.

- **Author from scratch** — Start with a simple Hello World example.
- **Use a blueprint** — Build a Lambda application from sample code and configuration presets for common use cases.
- **Container image** — Select a container image to deploy for your function.

Basic information

Function name

Enter a name that describes the purpose of your function.

func1

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (_).

Runtime Info

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Node.js 22.x

Architecture Info

Choose the instruction set architecture you want for your function code.

- arm64
- x86_64

Permissions Info

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

Info | Tutorials

Learn how to implement common use cases in AWS Lambda.

Create a simple web app

In this tutorial you will learn how to:

- Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
- Invoke your function through its function URL

Learn more

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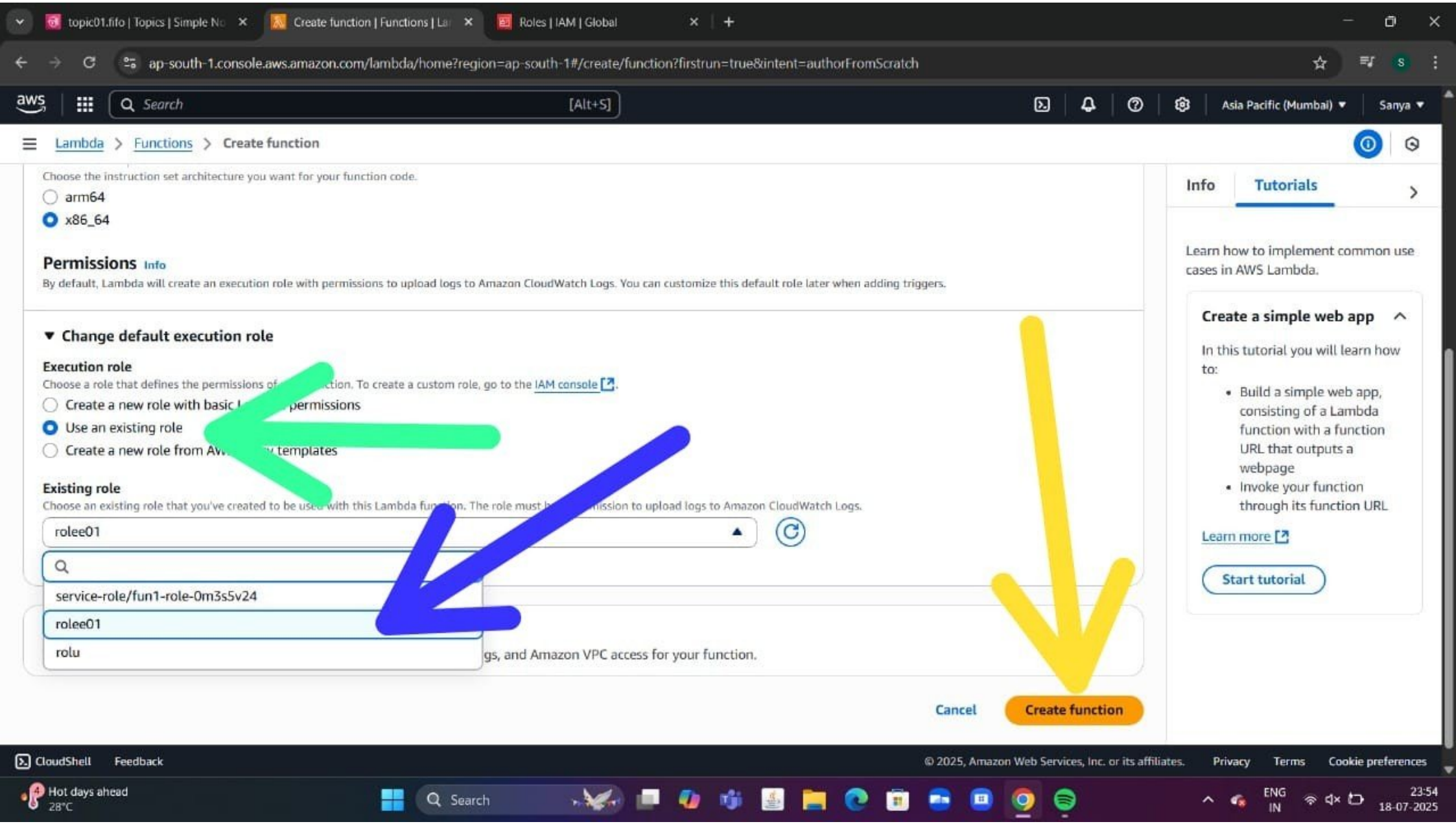
topic01.fifo | Topics | Simple N
Create function | Functions | La
Roles | IAM | Global
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function?firstrun=true&intent=authorFromScratch
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Lambda > Functions > Create function
Choose the instruction set architecture you want for your function code.
arm64
x86_64
Permissions Info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.
Change default execution role
Execution role
Choose a role that defines the permissions of
ction. To create a custom role, go to the IAM console.
Create a new role with basic
permissions
Use an existing role
Create a new role from AW
templates
Existing role
Choose an existing role that you've created to be used with this Lambda fun
on. The role must h
mission to upload logs to Amazon CloudWatch Logs.
rolee01
service-role/fun1-role-0m3s5v24
rolee01
rolu
gs, and Amazon VPC access for your function.
Cancel
Create function
Info
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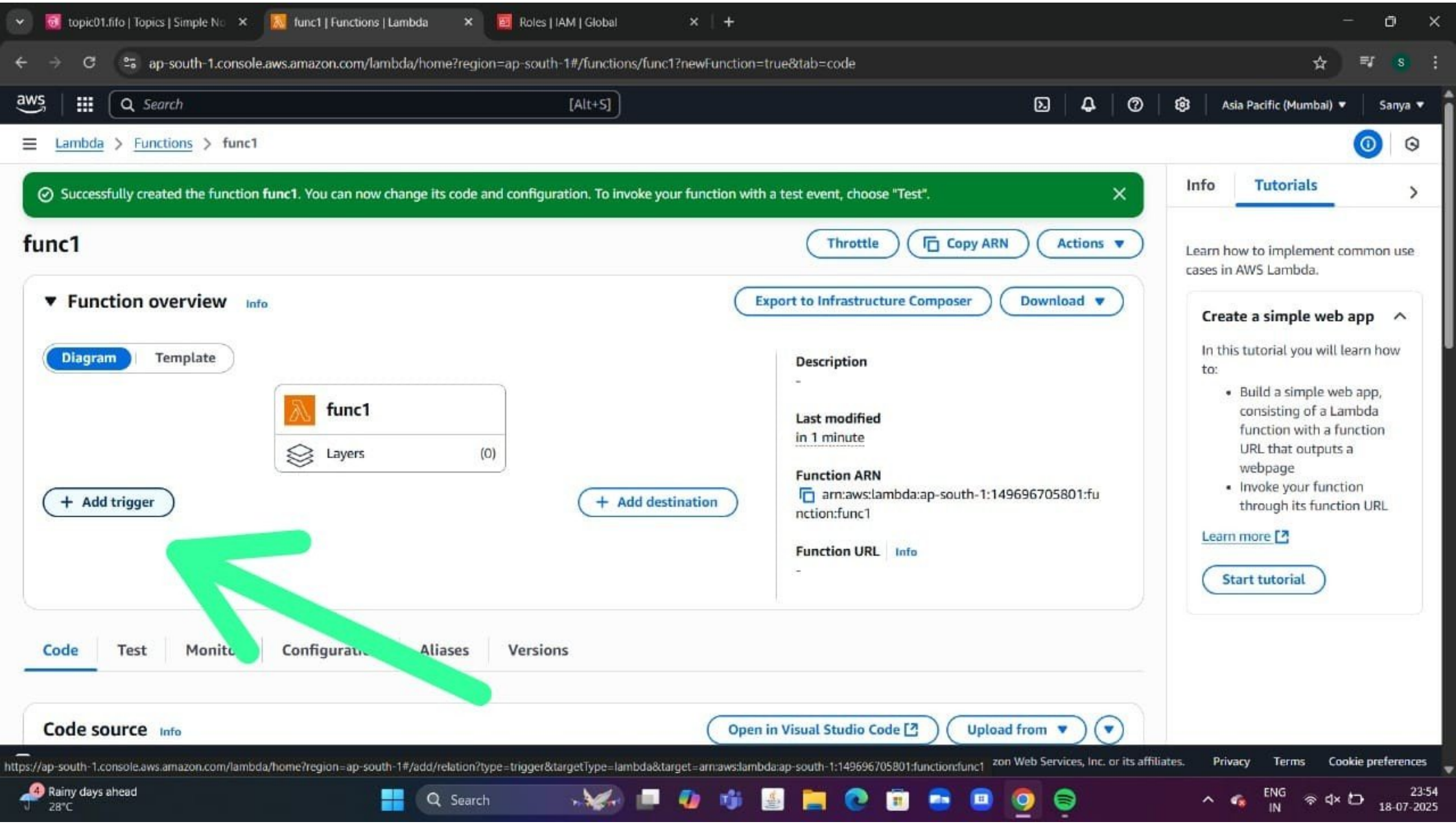
topic01.fifo | Topics | Simple N
func1 | Functions | Lambda
Roles | IAM | Global
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/func1?newFunction=true&tab=code
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Lambda > Functions > func1
Successfully created the function func1. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
func1
Throttle
Copy ARN
Actions
Function overview Info
Export to Infrastructure Composer
Download
Diagram
Template
func1
Layers (0)
Add trigger
Add destination
Description
-
Last modified
in 1 minute
Function ARN
arn:aws:lambda:ap-south-1:149696705801:function:func1
Function URL Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
Code source Info
Open in Visual Studio Code
Upload from
Info
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Invoke your function through its function URL
Learn more
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https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/add/relation?type=trigger&targetType=lambda&target=arn:aws:lambda:ap-south-1:149696705801:function:func1
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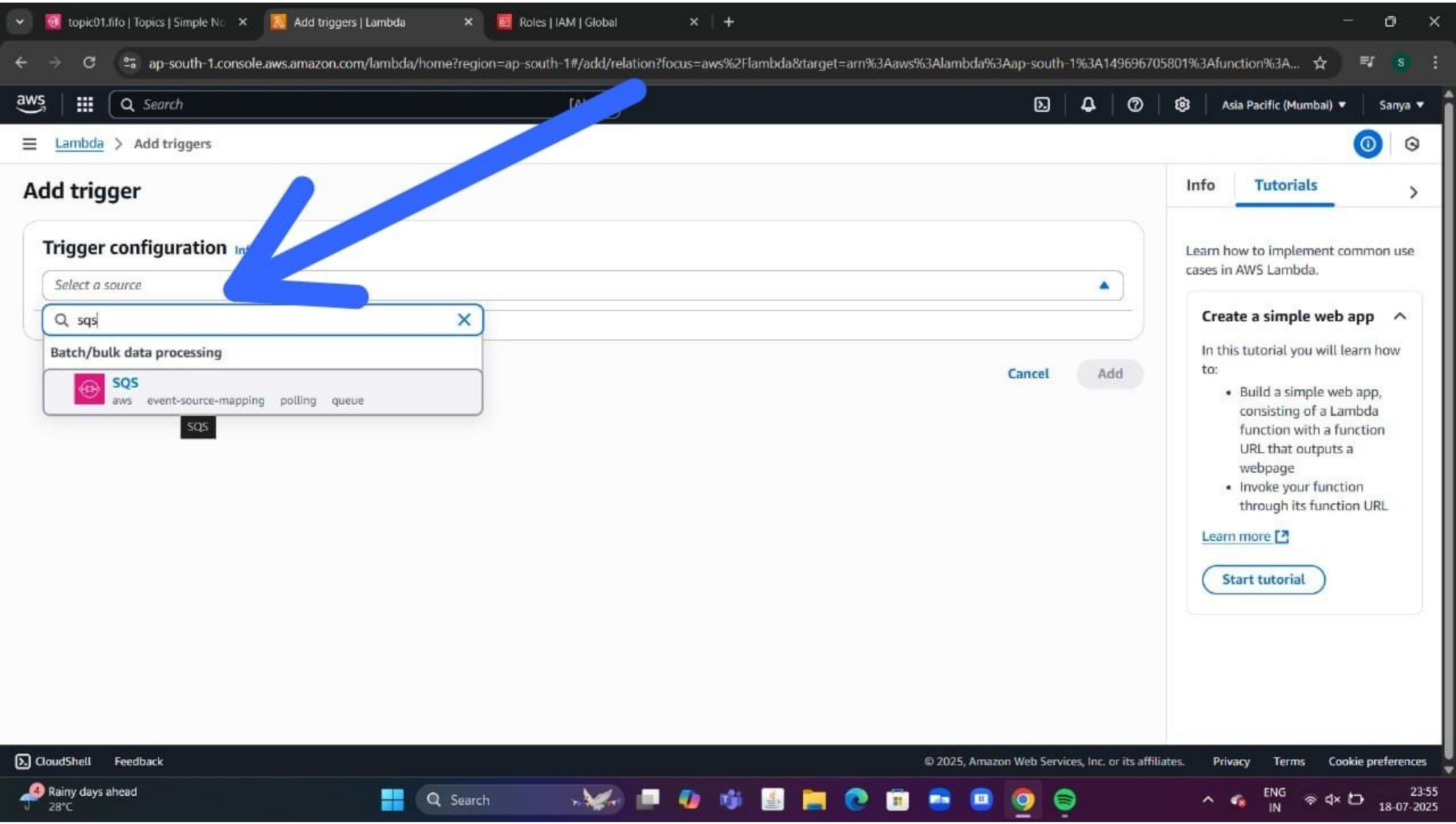
- **TRIGGER :**

  In AWS, a TRIGGER in a Lambda function is an event source that automatically starts the function when a specific action occurs. Instead of calling the function manually, the trigger tells Lambda when to run, based on events from services like S3, SQS, API Gateway, DynamoDB, or CloudWatch. Triggers make Lambda functions event-driven, allowing them to respond instantly and automatically to changes or activities within your AWS environment.


topic01.fifo | Topics | Simple N
Add triggers | Lambda
Roles | IAM | Global
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/add/relation?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aap-south-1%3A149696705801%3Afunction%3A...
Search
Asia Pacific (Mumbai)
Sanya
Lambda > Add triggers
Add trigger
Trigger configuration
Select a source
sqs
Batch/bulk data processing
SQS
aws event-source-mapping polling queue
SQS
Cancel
Add
Info
Tutorials
Learn how to implement common use cases in AWS Lambda.
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Invoke your function through its function URL
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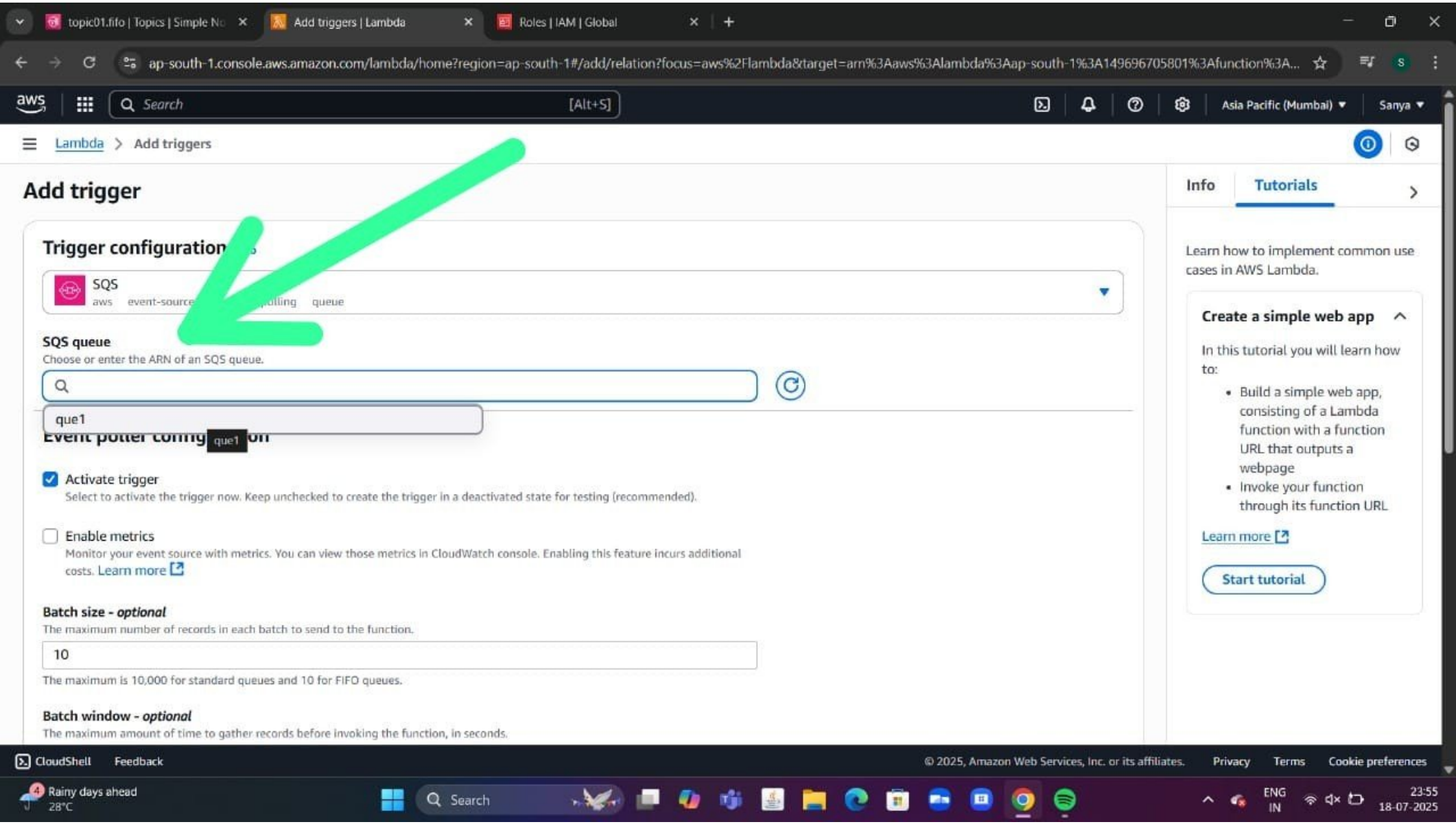
topic01.fifo | Topics | Simple N
Add triggers | Lambda
Roles | IAM | Global
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/add/relation?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aap-south-1%3A149696705801%3Afunction%3A...
Search [Alt+S]
Asia Pacific (Mumbai)
Sanya
Lambda > Add triggers
Add trigger
Trigger configuration
SQS
aws event-source polling queue
SQS queue
Choose or enter the ARN of an SQS queue.
que1
que1
Activate trigger
Select to activate the trigger now. Keep unchecked to create the trigger in a deactivated state for testing (recommended).
Enable metrics
Monitor your event source with metrics. You can view those metrics in CloudWatch console. Enabling this feature incurs additional costs. Learn more
Batch size - optional
The maximum number of records in each batch to send to the function.
10
The maximum is 10,000 for standard queues and 10 for FIFO queues.
Batch window - optional
The maximum amount of time to gather records before invoking the function, in seconds.
Info
Tutorials
Learn how to implement common use cases in AWS Lambda.
Create a simple web app
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Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
Invoke your function through its function URL
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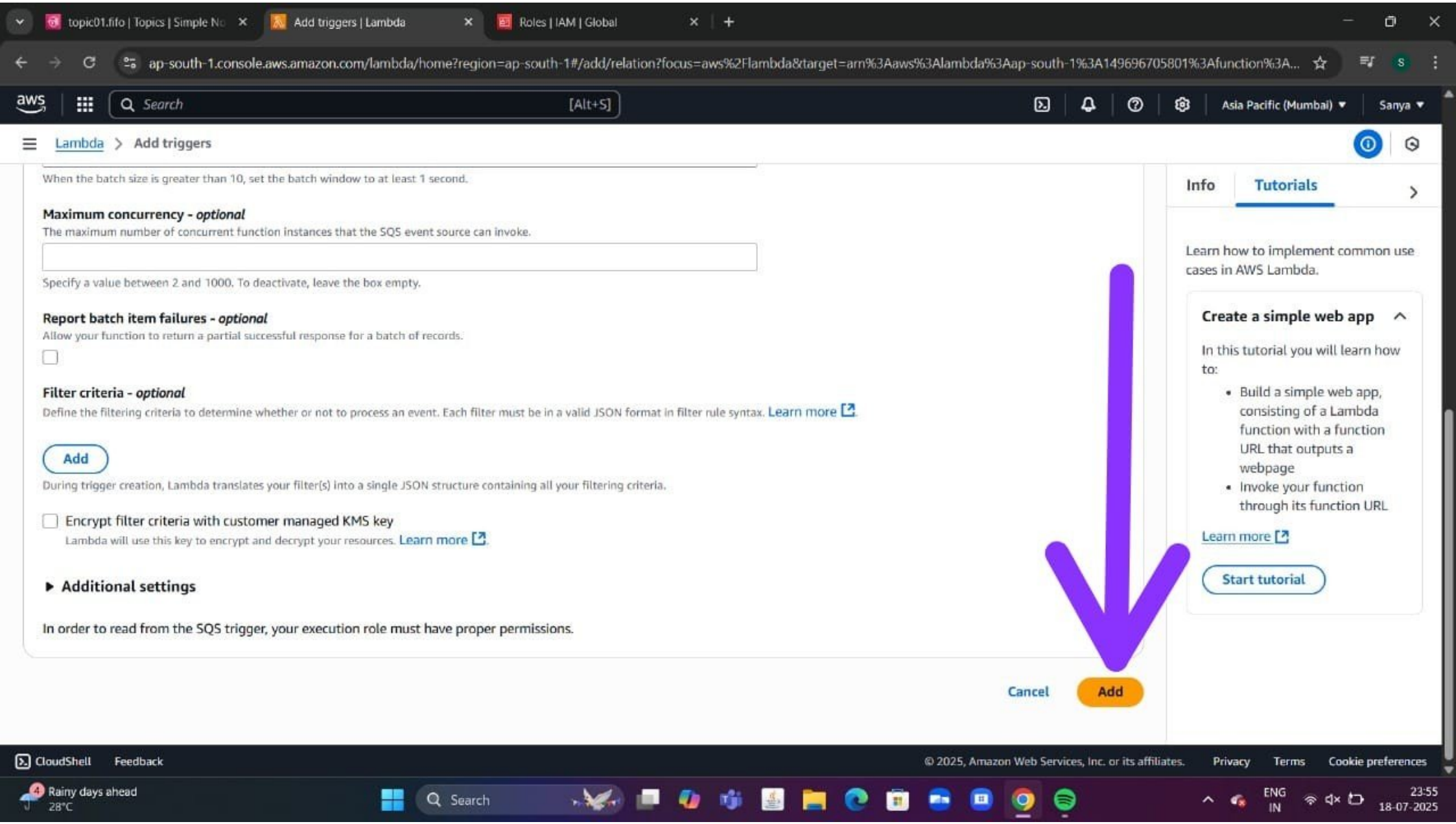
topic01.fifo | Topics | Simple N
Add triggers | Lambda
Roles | IAM | Global
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/add/relation?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aap-south-1%3A149696705801%3Afunction%3A...
Search [Alt+S]
Asia Pacific (Mumbai)
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Lambda > Add triggers
When the batch size is greater than 10, set the batch window to at least 1 second.
Maximum concurrency - optional
The maximum number of concurrent function instances that the SQS event source can invoke.
Specify a value between 2 and 1000. To deactivate, leave the box empty.
Report batch item failures - optional
Allow your function to return a partial successful response for a batch of records.
Filter criteria - optional
Define the filtering criteria to determine whether or not to process an event. Each filter must be in a valid JSON format in filter rule syntax. Learn more
Add
During trigger creation, Lambda translates your filter(s) into a single JSON structure containing all your filtering criteria.
Encrypt filter criteria with customer managed KMS key
Lambda will use this key to encrypt and decrypt your resources. Learn more
Additional settings
In order to read from the SQS trigger, your execution role must have proper permissions.
Cancel
Add
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Learn how to implement common use cases in AWS Lambda.
Create a simple web app
In this tutorial you will learn how to:
Build a simple web app, consisting of a Lambda function with a function URL that outputs a webpage
Invoke your function through its function URL
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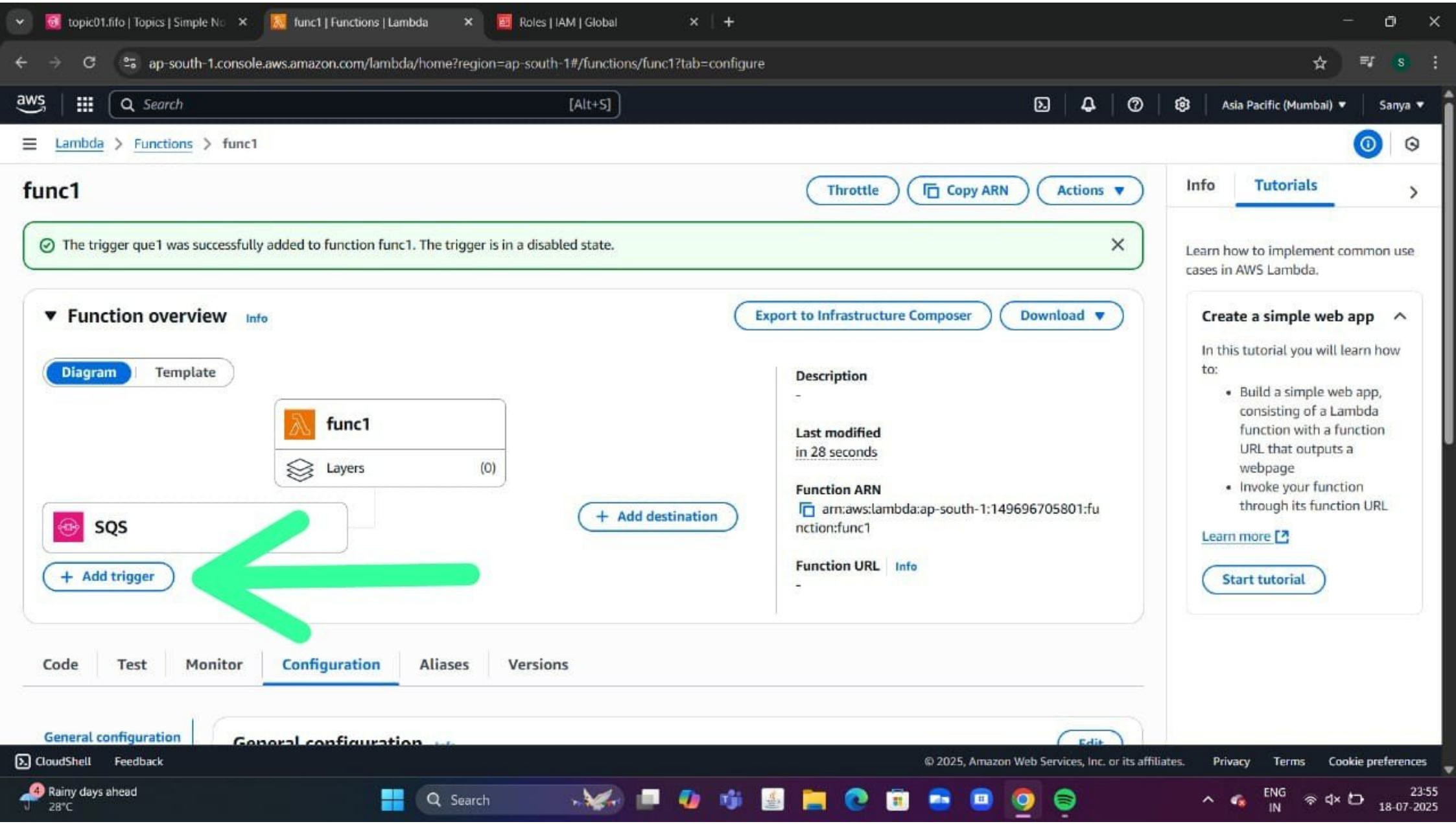
topic01.fifo | Topics | Simple N
func1 | Functions | Lambda
Roles | IAM | Global
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/func1?tab=configure
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Lambda > Functions > func1
func1
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The trigger que1 was successfully added to function func1. The trigger is in a disabled state.
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Layers
(0)
SQS
Add destination
Add trigger
Description
-
Last modified
in 28 seconds
Function ARN
arn:aws:lambda:ap-south-1:149696705801:function:func1
Function URL
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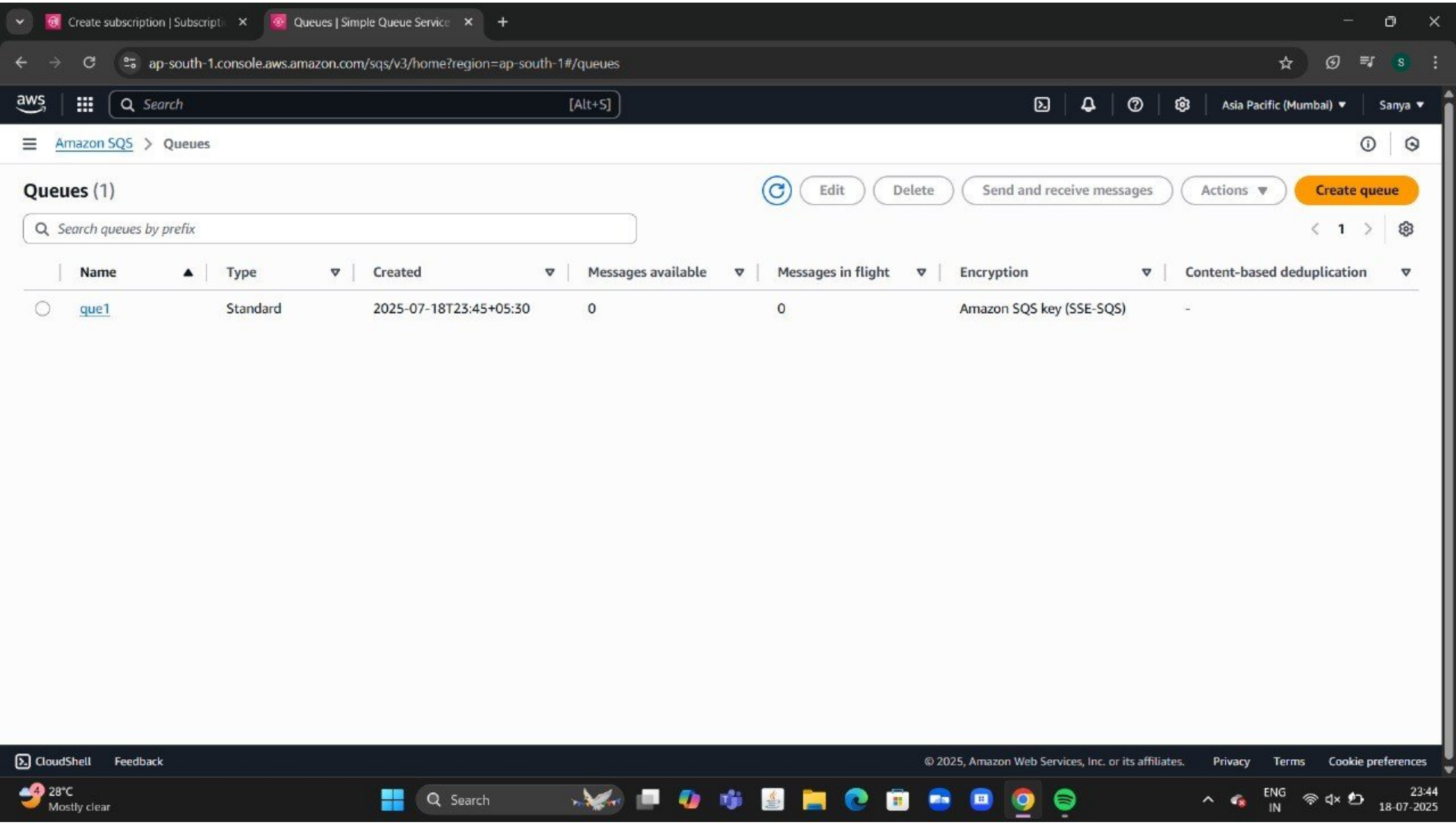
Create subscription | Subscripti
Queues | Simple Queue Service
ap-south-1.console.aws.amazon.com/sqs/v3/home?region=ap-south-1#/queues
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Messages in flight
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Content-based deduplication
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