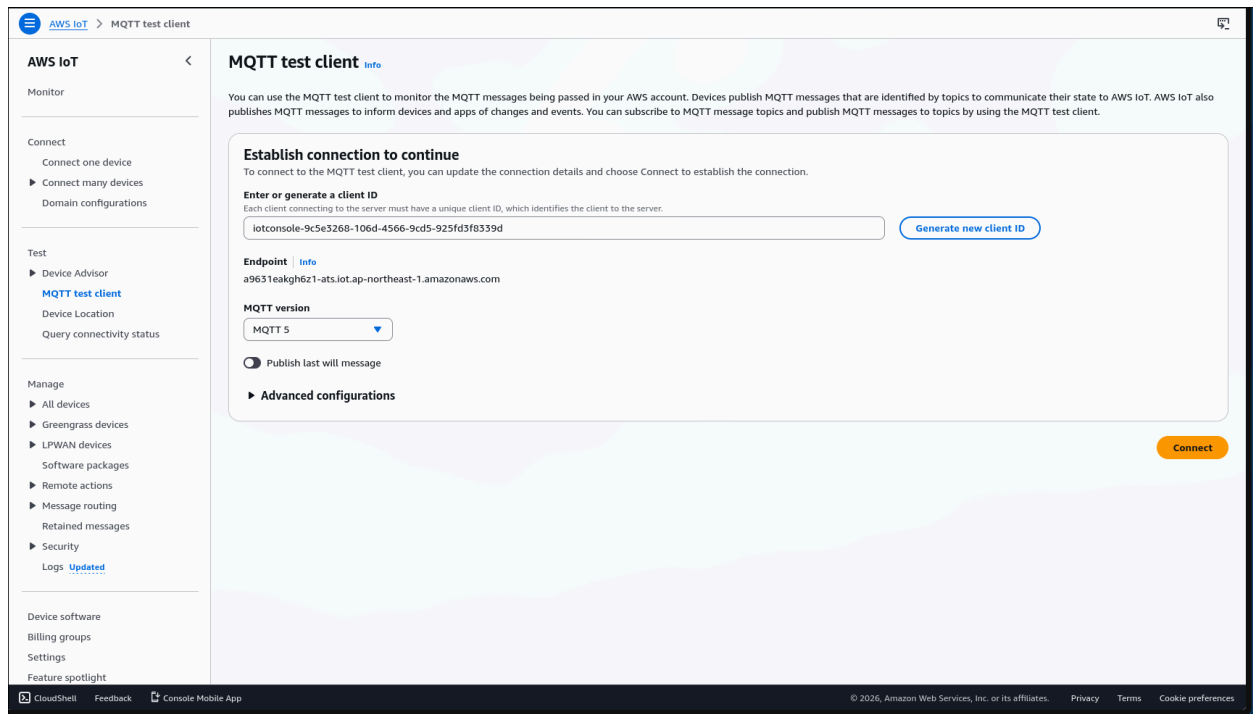


24CYS333 - IoT - MQTT Implementation

Praneesh R V

CB.SC.U4CYS23036

Go to the AWS IoT Section and And go to MQTT Test client



Then connect to the MQTT Test Client

Info

You can use the MQTT test client to monitor the MQTT messages being passed in your AWS account. Devices publish MQTT messages that are identified by topics to communicate their state to AWS IoT. AWS IoT also publishes MQTT messages to inform devices and apps of changes and events. You can subscribe to MQTT message topics and publish MQTT messages to topics by using the MQTT test client.

Connected

To disconnect from the MQTT test client, choose **Disconnect**. To re-establish a connection, you can update the details and choose **Connect**.

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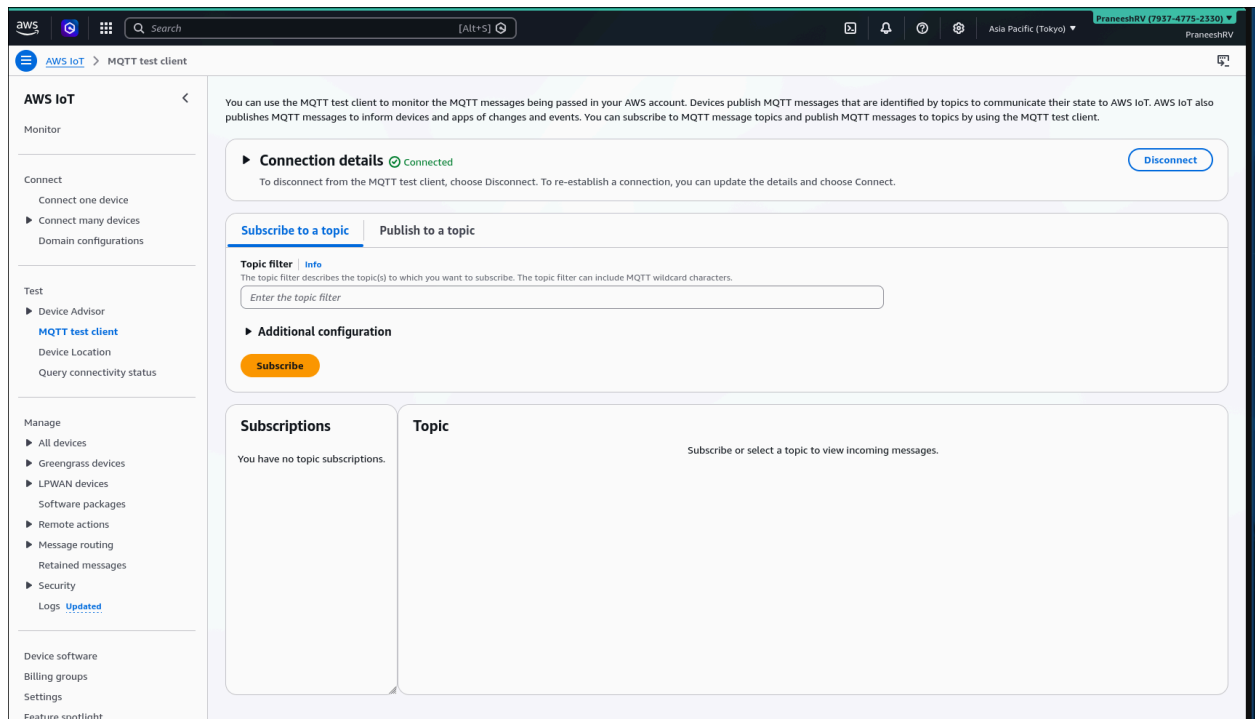
—

ties (0)

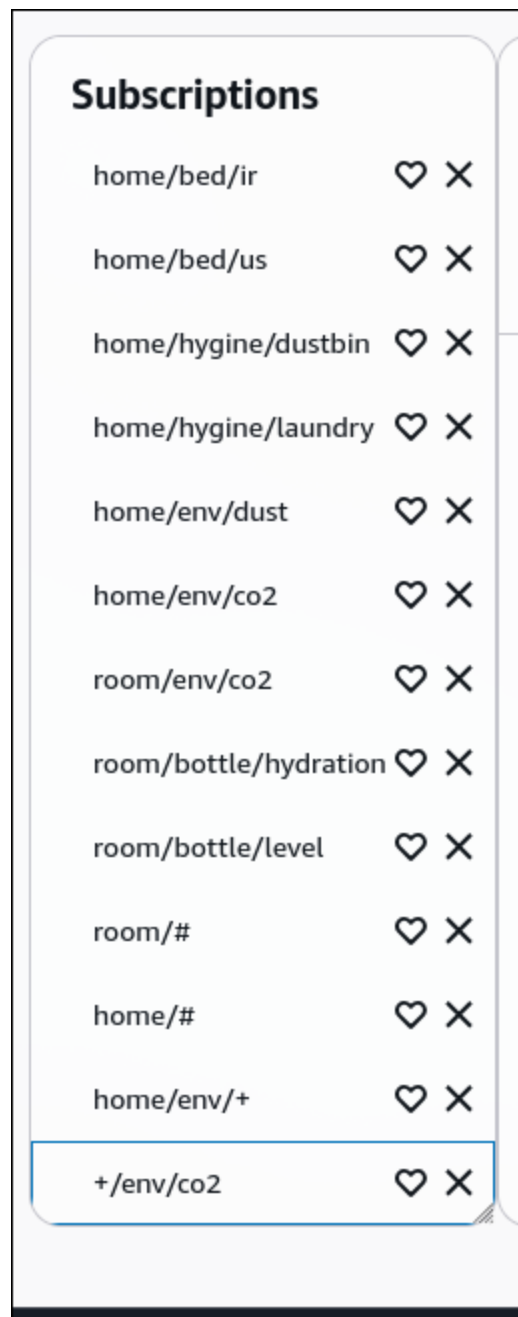
Key

Val

This message has no user properties



Now subscribe to the required publishers



Now publish messages

Subscribe to a topic

Publish to a topic

Topic name

The topic name identifies the message. The message payload will be published to this topic with a Quality of Service (QoS) of 0.

home/bed/ir

Message payload

```
{
  "message": "person still in bed"
}
```

Additional configuration

Publish

Subscriptions

home/bed/ir

home/bed/us

home/hygiene/dustbin

home/hygiene/laundry

home/env/dust

home/env/co2

room/env/co2

room/bottle/hydration

room/bottle/level

room/#

home/#

home/bed/ir

Pause

Clear

Export

Edit

Message payload

```
{
  "message": "Hello from AWS IoT console"
}
```

Additional configuration

Publish

home/bed/ir

February 12, 2026, 13:10:35 (UTC+0530)

```
{
  "message": "person still in bed"
}
```

Properties

Subscribe to a topic

Publish to a topic

Topic name

The topic name identifies the message. The message payload will be published to this topic with a Quality of Service (QoS) of 0.

room/env/co2

Message payload

```
{
  "message": "co2 levels high"
}
```

Additional configuration

Publish

Subscriptions

home/bed/ir

home/bed/us

home/hygiene/dustbin

home/hygiene/laundry

home/env/dust

home/env/co2

room/env/co2

room/bottle/hydration

room/bottle/level

room/#

home/#

home/env/+

+/env/co2

room/env/co2

Pause

Clear

Export

Edit

Message payload

```
{
  "message": "Hello from AWS IoT console"
}
```

Additional configuration

Publish

room/env/co2

February 12, 2026, 13:11:44 (UTC+0530)

```
{
  "message": "co2 levels high"
}
```

Properties

room/env/co2

February 12, 2026, 13:11:44 (UTC+0530)

```
{
  "message": "co2 levels high"
}
```

Properties

Subscribe to a topic

Publish to a topic

Topic name

The topic name identifies the message. The message payload will be published to this topic with a Quality of Service (QoS) of 0.

Q home/hygiene/dustbin X

Message payload

{
 "message": "dustbin nearly full"
}

► Additional configuration

Publish

Subscriptions

home/bed/ir X
home/bed/us X
home/hygiene/dustbin X
home/hygiene/laundry X
home/env/dust X
home/env/co2 X
room/env/co2 X
room/bottle/hydration X
room/bottle/level X
room/# X
home/# X

home/hygiene/dustbin

Pause Clear Export Edit

Message payload

{
 "message": "Hello from AWS IoT console"
}

► Additional configuration

Publish

▼ home/hygiene/dustbin

February 12, 2026, 13:13:22 (UTC+0530)

{
 "message": "dustbin nearly full"
}

► Properties

Using wildcards

I used the following wildcards

room/#	♡ ✕
home/#	♡ ✕
home/env/+	♡ ✕
+/env/co2	♡ ✕

Subscribe to a topic

Publish to a topic

Topic name

The topic name identifies the message. The message payload will be published to this topic with a Quality of Service (QoS) of 0.

home/env/dust

Message payload

```
{
  "message": "dust levels in the air is low"
}
```

Additional configuration

Publish

Subscriptions

home/bed/ir

♡ ✕

home/bed/us

♡ ✕

home/hygine/dustbin

♡ ✕

home/hygine/laundry

♡ ✕

home/env/dust

♡ ✕

home/env/co2

♡ ✕

room/env/co2

♡ ✕

room/bottle/hydration

♡ ✕

room/bottle/level

♡ ✕

room/#

♡ ✕

home/#

♡ ✕

home/env/+

♡ ✕

+/env/co2

♡ ✕

home/#

Pause Clear Export Edit

You cannot publish messages to a wildcard topic.
Please select a different topic to publish messages to.

home/env/dust

February 12, 2026, 13:14:30 (UTC+0530)

```
{
  "message": "dust levels in the air is low"
}
```

Properties

home/env/dust

February 12, 2026, 13:14:30 (UTC+0530)

```
{
  "message": "dust levels in the air is low"
}
```

Properties

Sending to home/env/dust sends it to home/# and home/env/+ as well

Subscribe to a topic

Publish to a topic

Topic name

The topic name identifies the message. The message payload will be published to this topic with a Quality of Service (QoS) of 0.

room/bottle/level

Message payload

{
 "message": "70% water remaining"
}

Additional configuration

Publish

Subscriptions

home/bed/fir

home/bed/us

home/hygine/dustbin

home/hygine/laundry

home/env/dust

home/env/co2

room/env/co2

room/bottle/hydration

room/bottle/level

room/#

home/#

home/env/+

+/env/co2

room/#

Pause

Clear

Export

Edit

You cannot publish messages to a wildcard topic.
Please select a different topic to publish messages to.

room/bottle/level

February 12, 2026, 13:15:56 (UTC+0530)

{
 "message": "70% water remaining"
}

Properties

room/bottle/level

February 12, 2026, 13:15:56 (UTC+0530)

{
 "message": "70% water remaining"
}

Properties

Sending to /room/bottle/level also sends to room/#