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IoTDataPlane

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Client

class IoTDataPlane. Client

A low-level client representing AWS IoT Data Plane

IoT data enables secure, bi-directional communication between Internet-connected things (such as sensors, actuators, embedded devices, or smart appliances) and the Amazon Web Services cloud. It implements a broker for applications and things to publish messages over HTTP (Publish) and retrieve, update, and delete shadows. A shadow is a persistent representation of your things and their state in the Amazon Web Services cloud.

Find the endpoint address for actions in IoT data by running this CLI command:

```
aws iot describe-endpoint --endpoint-type iot:Data-ATS
```

The service name used by Amazon Web ServicesSignature Version 4 (<https://docs.aws.amazon.com/general/latest/gr/signature-version-4.html>) to sign requests is: *iotdevicegateway* .

```
import boto3

client = boto3.client('iot-data')
```

These are the available methods:

- [can_paginate\(\)](#)
- [close\(\)](#)
- [delete_thing_shadow\(\)](#)
- [get_paginator\(\)](#)
- [get_retained_message\(\)](#)
- [get_thing_shadow\(\)](#)
- [get_waiter\(\)](#)
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can_paginate(*operation_name*)

Check if an operation can be paginated.

Parameters

operation_name (*string*) -- The operation name. This is the same name as the method name on the client. For example, if the method name is `create_foo`, and you'd normally invoke the operation as `client.create_foo(**kwargs)`, if the `create_foo` operation can be paginated, you can use the call `client.get_paginator("create_foo")`.

Returns

True if the operation can be paginated, False otherwise.

close()

Closes underlying endpoint connections.

delete_thing_shadow(**kwargs)

Deletes the shadow for the specified thing.

Requires permission to access the DeleteThingShadow (https://docs.aws.amazon.com/service-authorization/latest/reference/list_awsiot.html#awsiot-actions-as-permissions) action.

For more information, see DeleteThingShadow (http://docs.aws.amazon.com/iot/latest/developerguide/API_DeleteThingShadow.html) in the IoT Developer Guide.

See also: AWS API Documentation (https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/DeleteThingShadow)

Request Syntax

```
response = client.delete_thing_shadow(
    thingName='string',
    shadowName='string'
)
```

Parameters

- **thingName** (*string*) -- **[REQUIRED]**
The name of the thing.
- **shadowName** (*string*) -- The name of the shadow.

Return type

dict

Returns

Response Syntax

```
{
    'payload': StreamingBody()
}
```

Response Structure

- (*dict*) --
The output from the DeleteThingShadow operation.
 - **payload** (*StreamingBody*) --
The state information, in JSON format.

Exceptions

- `IoTDataPlane.Client.exceptions.ResourceNotFoundException`
- `IoTDataPlane.Client.exceptions.InvalidRequestException`
- `IoTDataPlane.Client.exceptions.ThrottlingException`
- `IoTDataPlane.Client.exceptions.UnauthorizedException`
- `IoTDataPlane.Client.exceptions.ServiceUnavailableException`
- `IoTDataPlane.Client.exceptions.InternalFailureException`

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- `IoTDataPlane.Client.exceptions.MethodNotAllowedException`
- `IoTDataPlane.Client.exceptions.UnsupportedDocumentEncodingException`

`get_paginator (operation_name)`

Create a paginator for an operation.

Parameters

operation_name (*string*) -- The operation name. This is the same name as the method name on the client. For example, if the method name is `create_foo`, and you'd normally invoke the operation as `client.create_foo(**kwargs)`, if the `create_foo` operation can be paginated, you can use the call `client.get_paginator("create_foo")`.

Raises OperationNotPageableError

Raised if the operation is not pageable. You can use the `client.can_paginate` method to check if an operation is pageable.

Return type

`L{botocore.paginate.Paginator}`

Returns

A paginator object.

`get_retained_message (**kwargs)`

Gets the details of a single retained message for the specified topic.

This action returns the message payload of the retained message, which can incur messaging costs. To list only the topic names of the retained messages, call `ListRetainedMessages` (/iot/latest/developer/guide/API_iotdata_ListRetainedMessages.html) .

Requires permission to access the `GetRetainedMessage` (https://docs.aws.amazon.com/service-authorization/latest/reference/list_awsiotfleethubfordevicemanagement.html#awsiotfleethubfordevicemanagement-actions-as-permissions) action.

For more information about messaging costs, see Amazon Web Services IoT Core pricing - Messaging (<http://aws.amazon.com/iot-core/pricing/#Messaging>) .

See also: AWS API Documentation (<https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/GetRetainedMessage>)

Request Syntax

```
response = client.get_retained_message(
    topic='string'
)
```

Parameters

topic (*string*) --
[REQUIRED]

The topic name of the retained message to retrieve.

Return type

dict

Returns

Response Syntax

```
{
    'topic': 'string',
    'payload': b'bytes',
    'qos': 123,
    'lastModifiedTime': 123
}
```

Response Structure

- (*dict*) --
The output from the `GetRetainedMessage` operation.
 - **topic** (*string*) --

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The topic name to which the retained message was published.

- **payload** (*bytes*) --
The Base64-encoded message payload of the retained message body.
- **qos** (*integer*) --
The quality of service (QoS) level used to publish the retained message.
- **lastModifiedTime** (*integer*) --
The Epoch date and time, in milliseconds, when the retained message was stored by IoT.

Exceptions

- `IoTDataPlane.Client.exceptions.InvalidRequestException`
- `IoTDataPlane.Client.exceptions.ResourceNotFoundException`
- `IoTDataPlane.Client.exceptions.ThrottlingException`
- `IoTDataPlane.Client.exceptions.UnauthorizedException`
- `IoTDataPlane.Client.exceptions.ServiceUnavailableException`
- `IoTDataPlane.Client.exceptions.InternalFailureException`
- `IoTDataPlane.Client.exceptions.MethodNotAllowedException`

get_thing_shadow (**kwargs)

Gets the shadow for the specified thing.

Requires permission to access the GetThingShadow (https://docs.aws.amazon.com/service-authorization/latest/reference/list_awsiot.html#awsiot-actions-as-permissions) action.

For more information, see GetThingShadow (http://docs.aws.amazon.com/iot/latest/developerguide/API_GetThingShadow.html) in the IoT Developer Guide.

See also: AWS API Documentation (<https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/GetThingShadow>)

Request Syntax

```
response = client.get_thing_shadow(
    thingName='string',
    shadowName='string'
)
```

Parameters

- **thingName** (*string*) --
[REQUIRED]
The name of the thing.
- **shadowName** (*string*) -- The name of the shadow.

Return type

dict

Returns

Response Syntax

```
{
    'payload': StreamingBody()
}
```

Response Structure

- (*dict*) --
The output from the GetThingShadow operation.
 - **payload** (`StreamingBody`) --
The state information, in JSON format.

Exceptions

- `IoTDataPlane.Client.exceptions.InvalidRequestException`
- `IoTDataPlane.Client.exceptions.ResourceNotFoundException`
- `IoTDataPlane.Client.exceptions.ThrottlingException`

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- `IoTDataPlane.Client.exceptions.UnauthorizedException`
- `IoTDataPlane.Client.exceptions.ServiceUnavailableException`
- `IoTDataPlane.Client.exceptions.InternalFailureException`
- `IoTDataPlane.Client.exceptions.MethodNotAllowedException`
- `IoTDataPlane.Client.exceptions.UnsupportedDocumentEncodingException`

get_waiter (waiter_name)

Returns an object that can wait for some condition.

Parameters

waiter_name (*str*) -- The name of the waiter to get. See the waiters section of the service docs for a list of available waiters.

Returns

The specified waiter object.

Return type

`botocore.waiter.Waiter`

list_named_shadows_for_thing (**kwargs)

Lists the shadows for the specified thing.

Requires permission to access the `ListNamedShadowsForThing` (https://docs.aws.amazon.com/service-authorization/latest/reference/list_awsiot.html#awsiot-actions-as-permissions) action.

See also: AWS API Documentation (<https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/ListNamedShadowsForThing>)

Request Syntax

```
response = client.list_named_shadows_for_thing(
    thingName='string',
    nextToken='string',
    pageSize=123
)
```

Parameters

- **thingName** (*string*) --
[REQUIRED]
The name of the thing.
- **nextToken** (*string*) -- The token to retrieve the next set of results.
- **pageSize** (*integer*) -- The result page size.

Return type

dict

Returns

Response Syntax

```
{
  'results': [
    'string',
  ],
  'nextToken': 'string',
  'timestamp': 123
}
```

Response Structure

- (*dict*) --
 - **results** (*list*) --
The list of shadows for the specified thing.
 - (*string*) --
 - **nextToken** (*string*) --
The token to use to get the next set of results, or **null** if there are no additional results.

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- **timestamp** (*integer*) --

The Epoch date and time the response was generated by IoT.

Exceptions

- `IoTDataPlane.Client.exceptions.ResourceNotFoundException`
- `IoTDataPlane.Client.exceptions.InvalidRequestException`
- `IoTDataPlane.Client.exceptions.ThrottlingException`
- `IoTDataPlane.Client.exceptions.UnauthorizedException`
- `IoTDataPlane.Client.exceptions.ServiceUnavailableException`
- `IoTDataPlane.Client.exceptions.InternalFailureException`
- `IoTDataPlane.Client.exceptions.MethodNotAllowedException`

`list_retained_messages (**kwargs)`

Lists summary information about the retained messages stored for the account.

This action returns only the topic names of the retained messages. It doesn't return any message payloads. Although this action doesn't return a message payload, it can still incur messaging costs.

To get the message payload of a retained message, call `GetRetainedMessage` (https://docs.aws.amazon.com/iot/latest/developerguide/API_iotdata_GetRetainedMessage.html) with the topic name of the retained message.

Requires permission to access the `ListRetainedMessages` (https://docs.aws.amazon.com/service-authorization/latest/reference/list_awsiotfleethubfordevicemanagement.html#awsiotfleethubfordevicemanagement-actions-as-permissions) action.

For more information about messaging costs, see Amazon Web Services IoT Core pricing - Messaging (<http://aws.amazon.com/iot-core/pricing/#Messaging>) .

See also: AWS API Documentation (<https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/ListRetainedMessages>)

Request Syntax

```
response = client.list_retained_messages(
    nextToken='string',
    maxResults=123
)
```

Parameters

- **nextToken** (*string*) -- To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.
- **maxResults** (*integer*) -- The maximum number of results to return at one time.

Return type

dict

Returns

Response Syntax

```
{
    'retainedTopics': [
        {
            'topic': 'string',
            'payloadSize': 123,
            'qos': 123,
            'lastModifiedTime': 123
        },
    ],
    'nextToken': 'string'
}
```

Response Structure

- (*dict*) --
 - **retainedTopics** (*list*) --

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A summary list the account's retained messages. The information returned doesn't include the message payloads of the retained messages.

- **(dict)** --
Information about a single retained message.
- **topic** (*string*) --
The topic name to which the retained message was published.
- **payloadSize** (*integer*) --
The size of the retained message's payload in bytes.
- **qos** (*integer*) --
The quality of service (QoS) level used to publish the retained message.
- **lastModifiedTime** (*integer*) --
The Epoch date and time, in milliseconds, when the retained message was stored by IoT.
- **nextToken** (*string*) --
The token for the next set of results, or null if there are no additional results.

Exceptions

- `IoTDataPlane.Client.exceptions.InvalidRequestException`
- `IoTDataPlane.Client.exceptions.ThrottlingException`
- `IoTDataPlane.Client.exceptions.UnauthorizedException`
- `IoTDataPlane.Client.exceptions.ServiceUnavailableException`
- `IoTDataPlane.Client.exceptions.InternalFailureException`
- `IoTDataPlane.Client.exceptions.MethodNotAllowedException`

publish (**kwargs)

Publishes an MQTT message.

Requires permission to access the Publish (https://docs.aws.amazon.com/service-authorization/latest/reference/list_awsiot.html#awsiot-actions-as-permissions) action.

For more information about MQTT messages, see MQTT Protocol (<http://docs.aws.amazon.com/iot/latest/developerguide/mqtt.html>) in the IoT Developer Guide.

For more information about messaging costs, see Amazon Web Services IoT Core pricing - Messaging (<http://aws.amazon.com/iot-core/pricing/#Messaging>).

See also: AWS API Documentation (<https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/Publish>)

Request Syntax

```
response = client.publish(
    topic='string',
    qos=123,
    retain=True|False,
    payload=b'bytes' | file
)
```

Parameters

- **topic** (*string*) --
[REQUIRED]
The name of the MQTT topic.
- **qos** (*integer*) -- The Quality of Service (QoS) level.
- **retain** (*boolean*) --
A Boolean value that determines whether to set the RETAIN flag when the message is published.

Setting the RETAIN flag causes the message to be retained and sent to new subscribers to the topic.

Valid values: true | false

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Default value: false

- **payload** (*bytes or seekable file-like object*) --
The message body. MQTT accepts text, binary, and empty (null) message payloads.

Publishing an empty (null) payload with **retain** = true deletes the retained message identified by **topic** from Amazon Web Services IoT Core.

Returns

None

Exceptions

- `IoTDataPlane.Client.exceptions.InternalFailureException`
- `IoTDataPlane.Client.exceptions.InvalidRequestException`
- `IoTDataPlane.Client.exceptions.UnauthorizedException`
- `IoTDataPlane.Client.exceptions.MethodNotAllowedException`

update_thing_shadow (**kwargs)

Updates the shadow for the specified thing.

Requires permission to access the UpdateThingShadow (https://docs.aws.amazon.com/service-authorization/latest/reference/list_awsiot.html#awsiot-actions-as-permissions) action.

For more information, see UpdateThingShadow (http://docs.aws.amazon.com/iot/latest/developerguide/API_UpdateThingShadow.html) in the IoT Developer Guide.

See also: AWS API Documentation (<https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/UpdateThingShadow>)

Request Syntax

```
response = client.update_thing_shadow(
    thingName='string',
    shadowName='string',
    payload=b'bytes' | file
)
```

Parameters

- **thingName** (*string*) --
[REQUIRED]

The name of the thing.
- **shadowName** (*string*) -- The name of the shadow.
- **payload** (*bytes or seekable file-like object*) --
[REQUIRED]

The state information, in JSON format.

Return type

dict

Returns

Response Syntax

```
{
    'payload': StreamingBody()
}
```

Response Structure

- (*dict*) --
The output from the UpdateThingShadow operation.
 - **payload** (`StreamingBody`) --
The state information, in JSON format.

Exceptions

- `IoTDataPlane.Client.exceptions.ConflictException`

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- `IoTDataPlane.Client.exceptions.RequestEntityTooLargeException`
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- `IoTDataPlane.Client.exceptions.ThrottlingException`
- `IoTDataPlane.Client.exceptions.UnauthorizedException`
- `IoTDataPlane.Client.exceptions.ServiceUnavailableException`
- `IoTDataPlane.Client.exceptions.InternalFailureException`
- `IoTDataPlane.Client.exceptions.MethodNotAllowedException`
- `IoTDataPlane.Client.exceptions.UnsupportedDocumentEncodingException`

Paginators

The available paginators are:

- `IoTDataPlane.Paginator.ListRetainedMessages`

`class IoTDataPlane.Paginator. ListRetainedMessages`

```
paginator = client.get_paginator('list_retained_messages')
```

`paginate (kwargs)`**

Creates an iterator that will paginate through responses from `IoTDataPlane.Client.list_retained_messages()`.

See also: AWS API Documentation (<https://docs.aws.amazon.com/goto/WebAPI/iot-data-2015-05-28/ListRetainedMessages>)

Request Syntax

```
response_iterator = paginator.paginate(
    PaginationConfig={
        'MaxItems': 123,
        'PageSize': 123,
        'StartingToken': 'string'
    }
)
```

Parameters

PaginationConfig (*dict*) --

A dictionary that provides parameters to control pagination.

- **MaxItems** (*integer*) --

The total number of items to return. If the total number of items available is more than the value specified in max-items then a `NextToken` will be provided in the output that you can use to resume pagination.

- **PageSize** (*integer*) --

The size of each page.

- **StartingToken** (*string*) --

A token to specify where to start paginating. This is the `NextToken` from a previous response.

Return type

dict

Returns

Response Syntax

```
{
    'retainedTopics': [
        {
            'topic': 'string',
            'payloadSize': 123,
            'qos': 123,
            'lastModifiedTime': 123
        },
    ],
    'NextToken': 'string'
}
```

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Response Structure

- *(dict)* --
 - **retainedTopics** (*list*) --

A summary list the account's retained messages. The information returned doesn't include the message payloads of the retained messages.
 - *(dict)* --

Information about a single retained message.
 - **topic** (*string*) --

The topic name to which the retained message was published.
 - **payloadSize** (*integer*) --

The size of the retained message's payload in bytes.
 - **qos** (*integer*) --

The quality of service (QoS) level used to publish the retained message.
 - **lastModifiedTime** (*integer*) --

The Epoch date and time, in milliseconds, when the retained message was stored by IoT.
 - **NextToken** (*string*) --

A token to resume pagination.

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