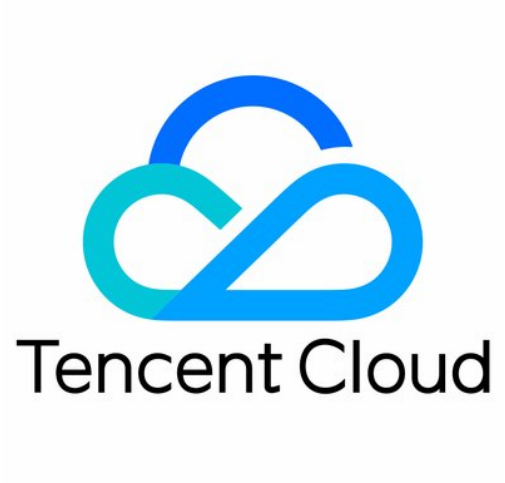
Media Processing Service

Best Practice

Product Documentation



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Best Practice
MPS Task Callback Backup to COS

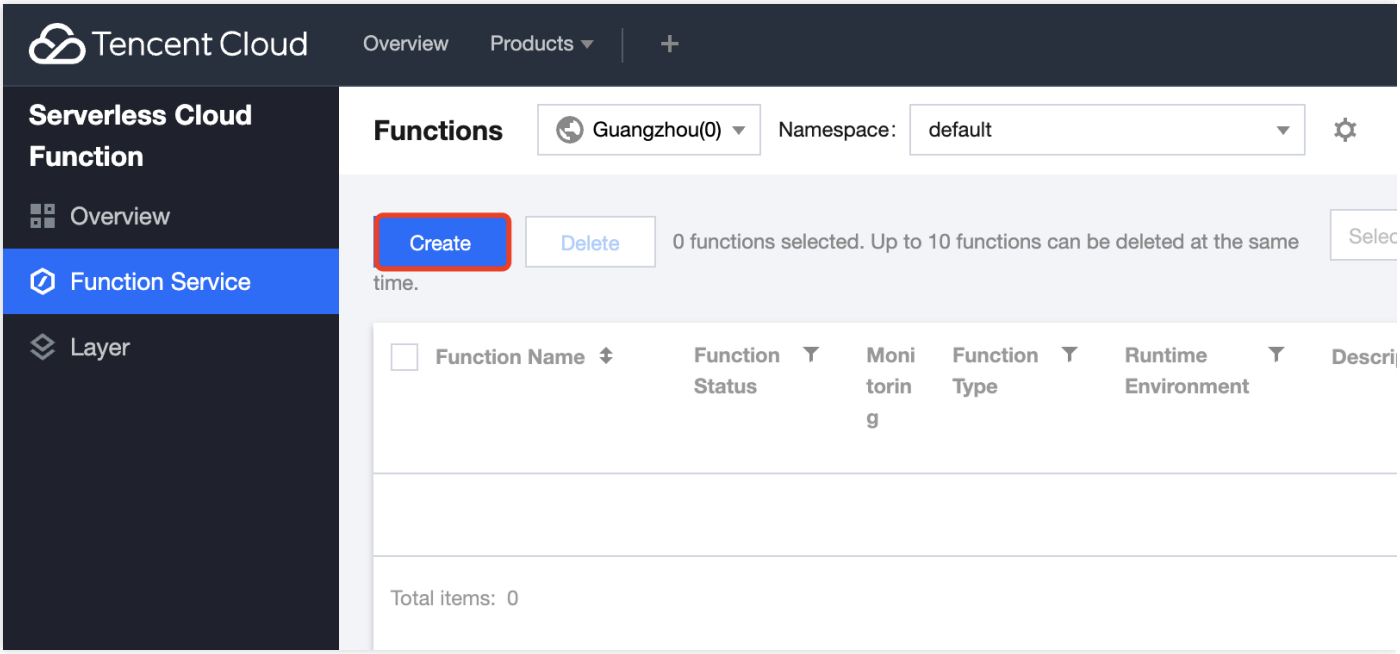
Last updated：2022-01-18 16:19:44

Backing up callbacks of MPS tasks to COS via SCF is a standard practice. MPS has a template in SCF which you can use to enable the feature. MPS executes video processing tasks; SCF handles callback messages, and COS provides permanent terminal storage.

Directions

Step 1. Create a function

1. Log in to the SCF console, and click **Function Service** on the left sidebar.



2. At the top of the **Function Service** page, select **Beijing** and click **Create** to enter the function creating page.
3. Set the following parameters:
   - **Create Method**: select **Template**.

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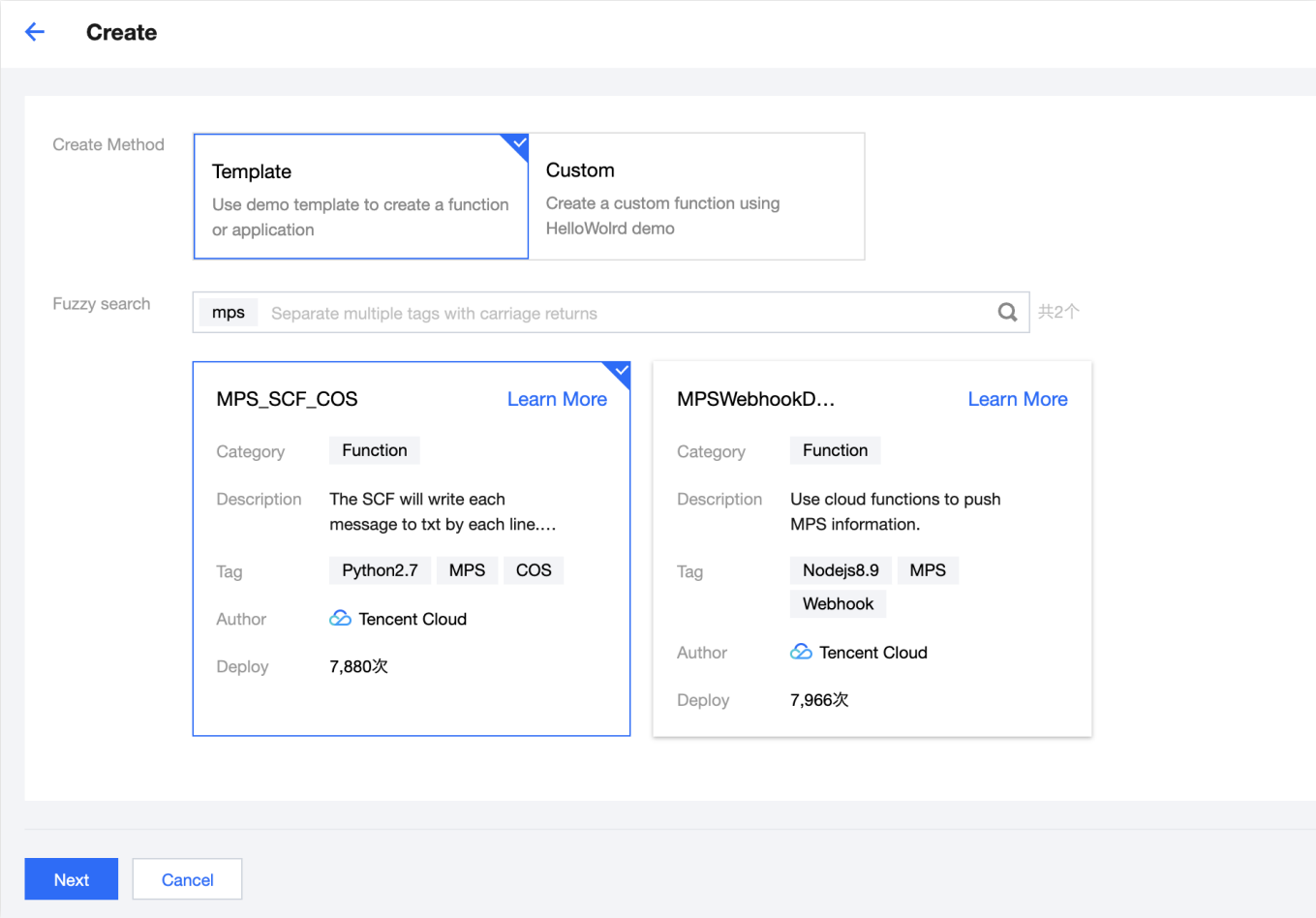
- **Fuzzy search**: search **CLSSCFCOS**.



Note：

You can click **Learn More** in a template to view its details or download the template.

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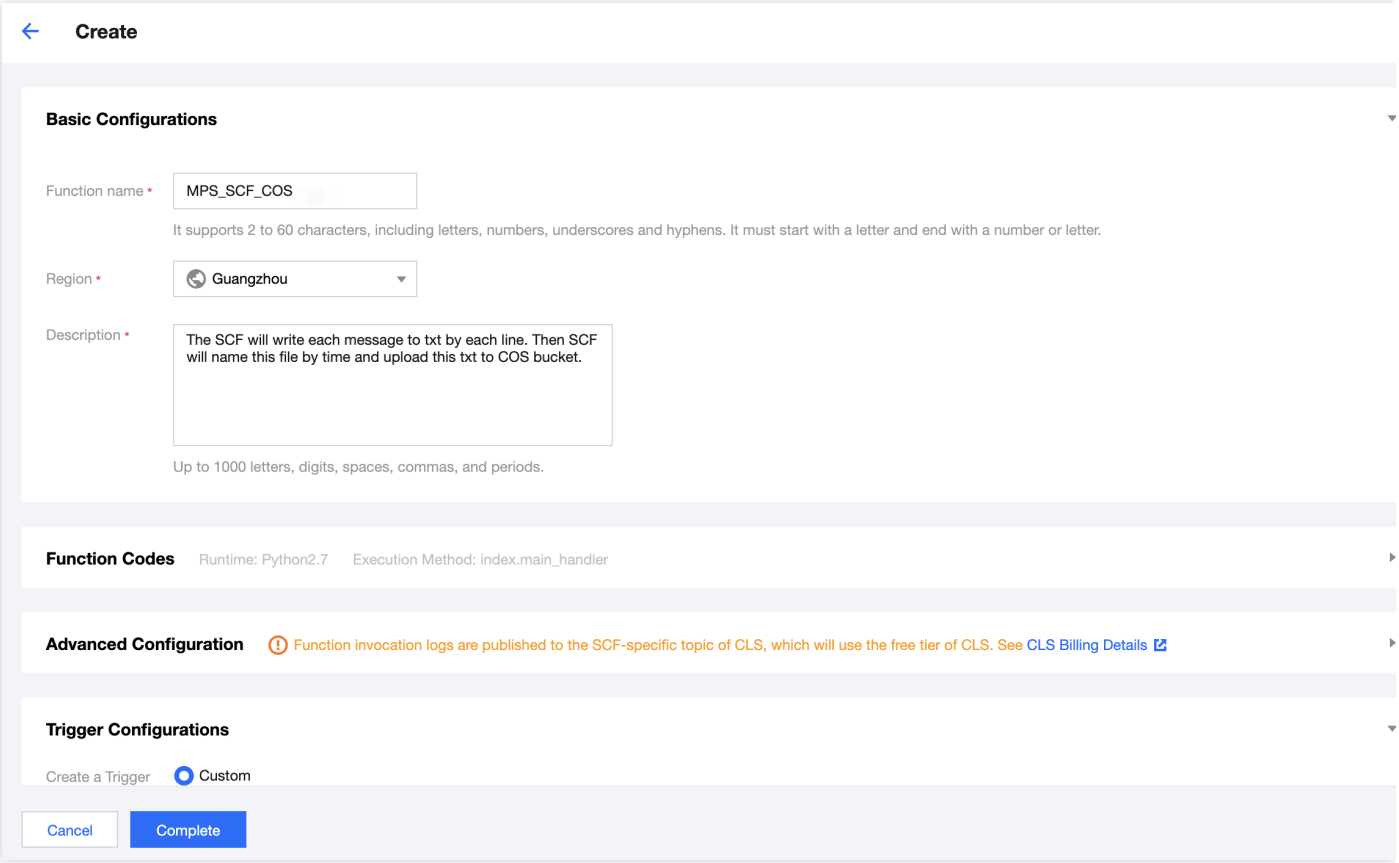
4. Click **Next**.



5. Keep the default configuration and click **Complete** to complete the creation.

Step 2. Configure an MPS trigger

1. In the **SCF console**, click **Function Service** on the left sidebar, and click the function created to go to the details page.
2. Click **Trigger Management** > **Create a Trigger**. A trigger creation window pops up. Select **MPS trigger** for the trigger method.

The main parameter information is as follows. Use the default values for the remaining configuration items.

- **Event Type**: an MPS trigger pushes events at the account level. Two types of trigger events are supported now: Workflow Task (`WorkflowTask`) and Video Edit Task (`EditMediaTask`).

> Note：
>
> - A service role error message will appear when you create an MPS trigger for the first time. Click **SCF_QcsRole** and **MPS_QcsRole** to grant the necessary permissions as prompted.

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- An MPS trigger uses events generated at the service level as event sources, regardless of attributes such as region and resources. Each event type can be bound to only one function for each account. If you need multiple functions to handle a task, please see Node.js SDK.

3. Click **Submit** to complete the configuration.

Step 3. Test the function

1. Start an MPS video processing workflow in the **MPS console**.
2. Go to the **SCF console** to view the execution result.
   Select the **Log Query** tab on the function details page to view the printed log information.
3. Log in to the COS console to view the data dumping and processing result.

Note：
You can write your own data processing methods as needed.

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MPS Task Callback Notification

Last updated：2022-06-06 11:10:54

After a video is processed by MPS, it's a standard practice to send a notification about the completion of the video processing task. MPS has a template in SCF which you can use to enable this feature.

Overview

The example in this document uses MPS and SCF. MPS executes vide processing tasks, and SCF handles callback messages.

Directions

Step 1. Create a function

1. Log in to the SCF console, and click **Function Service** on the left sidebar.
2. At the top of the **Function Service** page, select **Beijing** and click **Create** to enter the function creating page.
3. Set the following parameters:

Function name: enter a name, e.g., `MPSAnalysis` .

Runtime: task callback templates support only Nodejs 8.9 at the moment.

Create Method: select **Function Template**.

Fuzzy search: enter "MPS Webhook template" and search.

Note:

Click **Learn More** in the template to view details in the **Template Details** window, which can be downloaded.

4. Click **Next** to go to the function configuration page.
5. Keep the default configuration and click **Finish** to complete the creation.

Step 2. Configure an MPS trigger

1. In the SCF console, click **Function Service** on the left sidebar, and click the function created to go to the details page.
2. Click **Trigger Management** > **Create a Trigger**. A trigger creation window pops up. Select **MPS trigger** for the trigger method.

The information of the main parameters is as follows. Keep the default settings for other parameters.

Event Type: an MPS trigger pushes events at the account level. Two types of trigger events are supported now: Workflow Task (`WorkflowTask`) and Video Edit Task (`EditMediaTask`).

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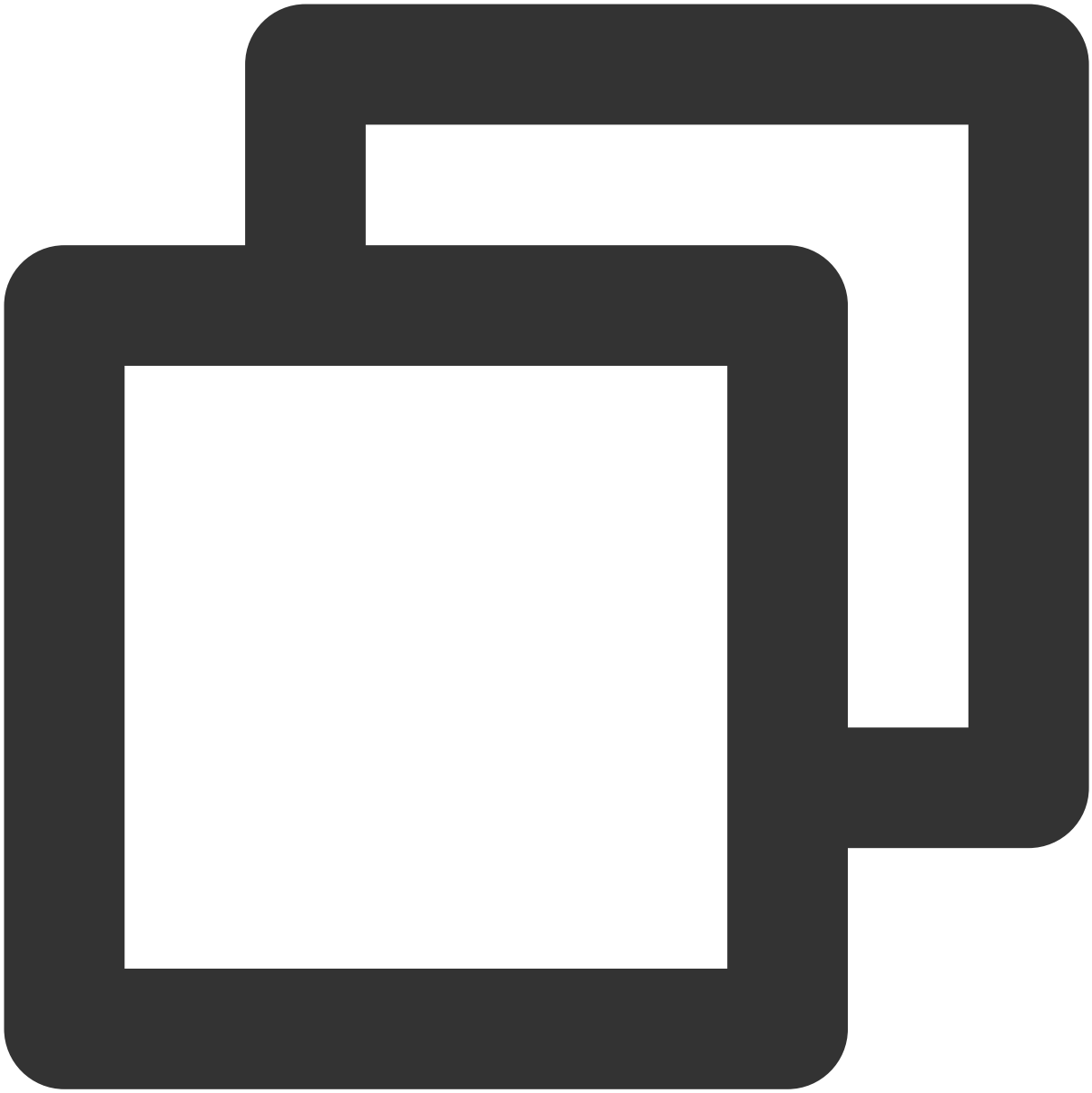

```
>?
>- A service role exception message will appear when you create an MPS trigger for
>- An MPS trigger uses events generated at the service level as event sources, rega
```

3. Click **Submit** to complete the configuration.

Step 3. Test the function

1. Log in to the MPS console and start a video processing workflow.

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2. Go to the **SCF console** to view the execution result.

Select the **Log Query** tab on the function details page to view the printed log information.

3. Log in to the COS console to view the data dumping and processing result.

Note:

You can write your own data processing methods as needed.

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Subtitle Generation and Translation

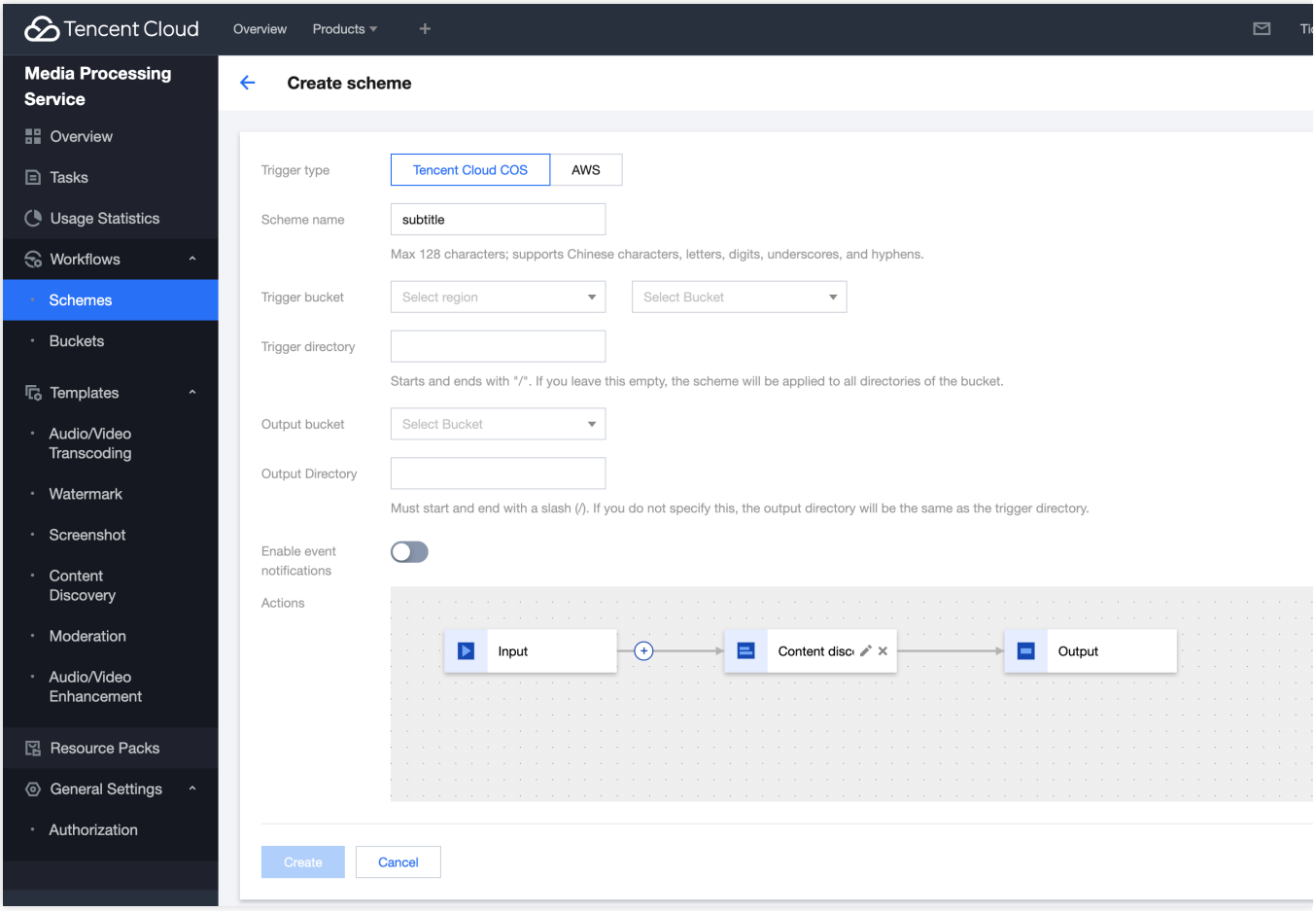
Last updated：2023-04-14 15:31:57

Case 1: Generating subtitles for an existing file

1. Zero code generation in the console

1. Log in to the MPS console and go to Schemes. Add a **content discovery** action (which can be used for speech recognition and translation). Click

and select a template.



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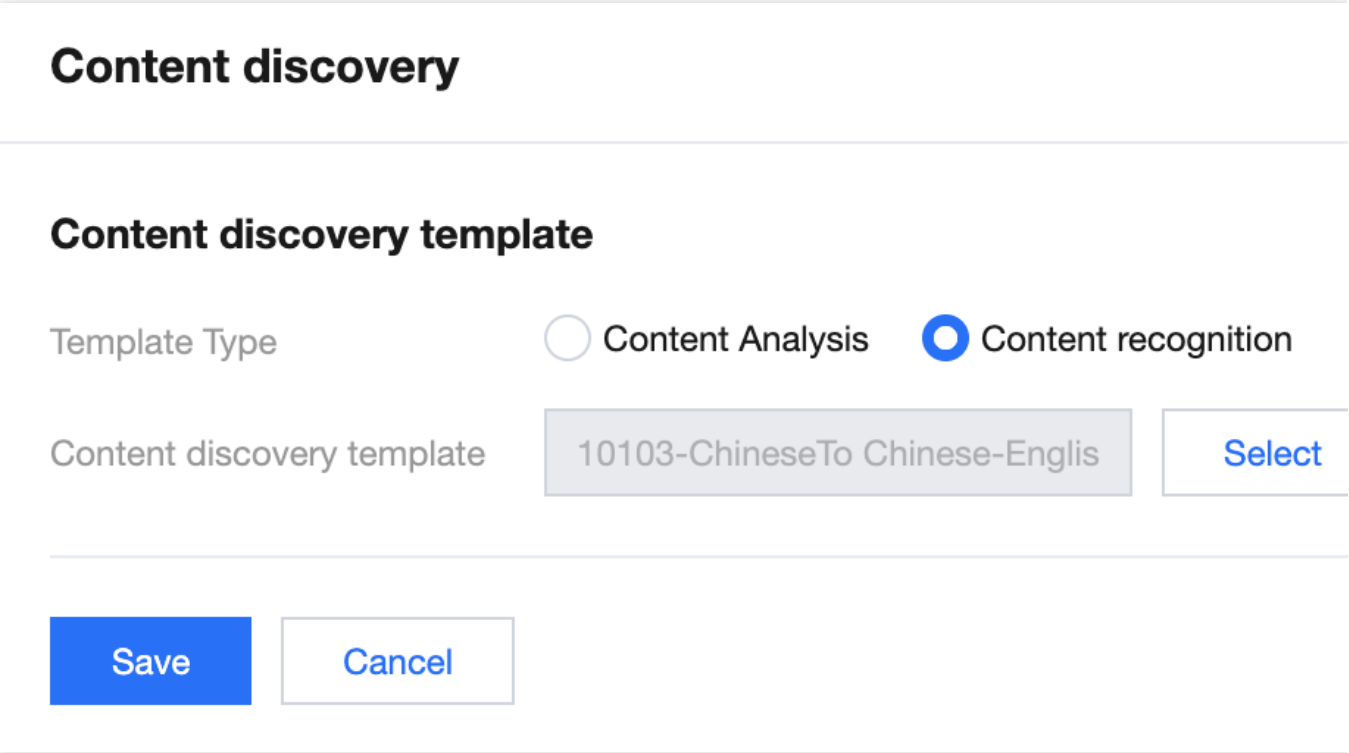

MPS offers the following preset content discovery templates:

Template ID	Capability
10101	Chinese speech recognition
10102	English speech recognition
10103	Chinese speech to Chinese and English text
10104	English speech to English and Chinese text

Note:

If the preset templates do not meet your requirements, please submit a ticket. We can customize a template for your needs.

2. Enable the scheme. Wait about five minutes for the configuration to take effect, and upload your file to the trigger bucket.

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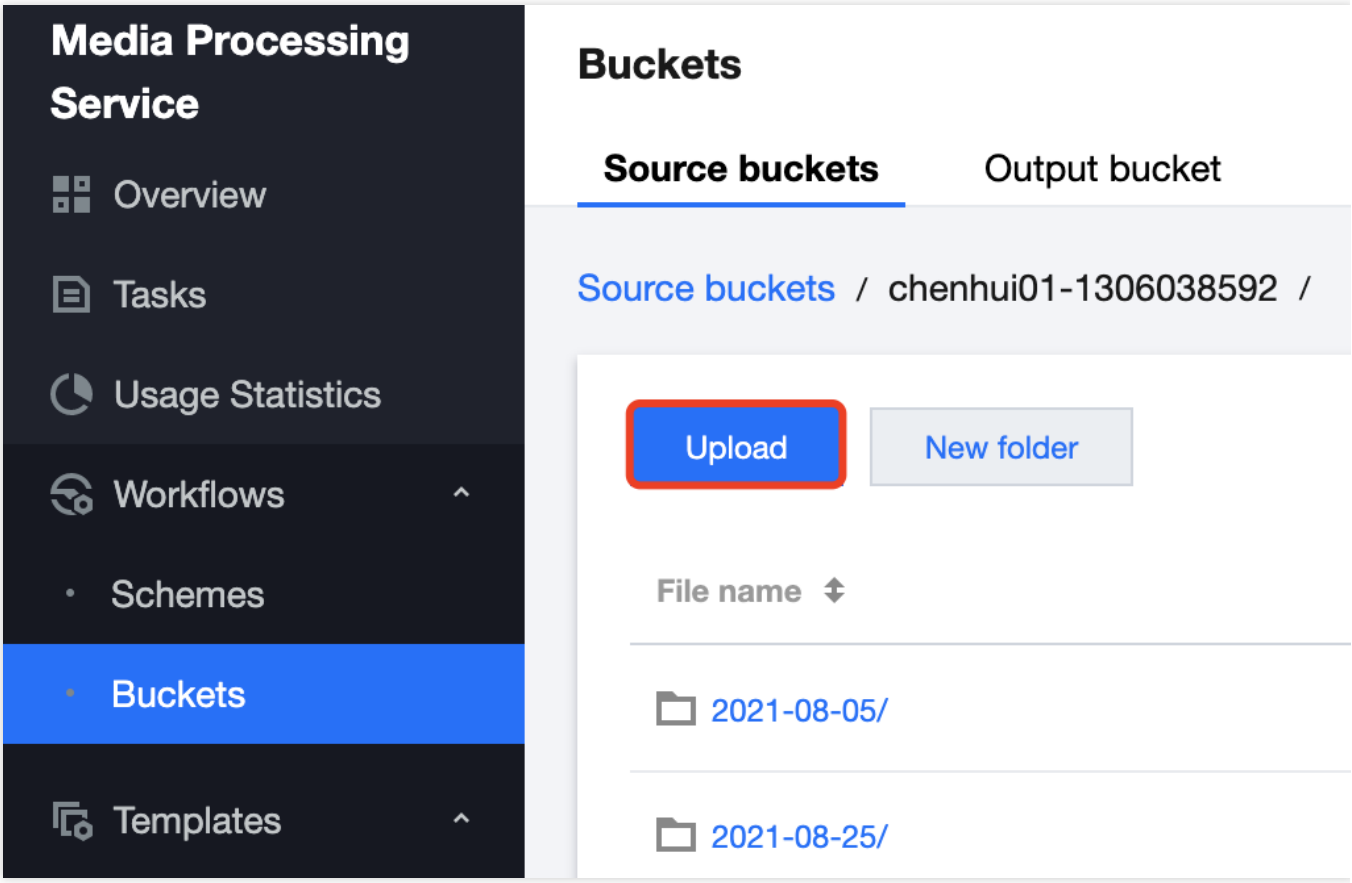

3. After the task is executed, a VTT file will be generated and saved to the output directory.

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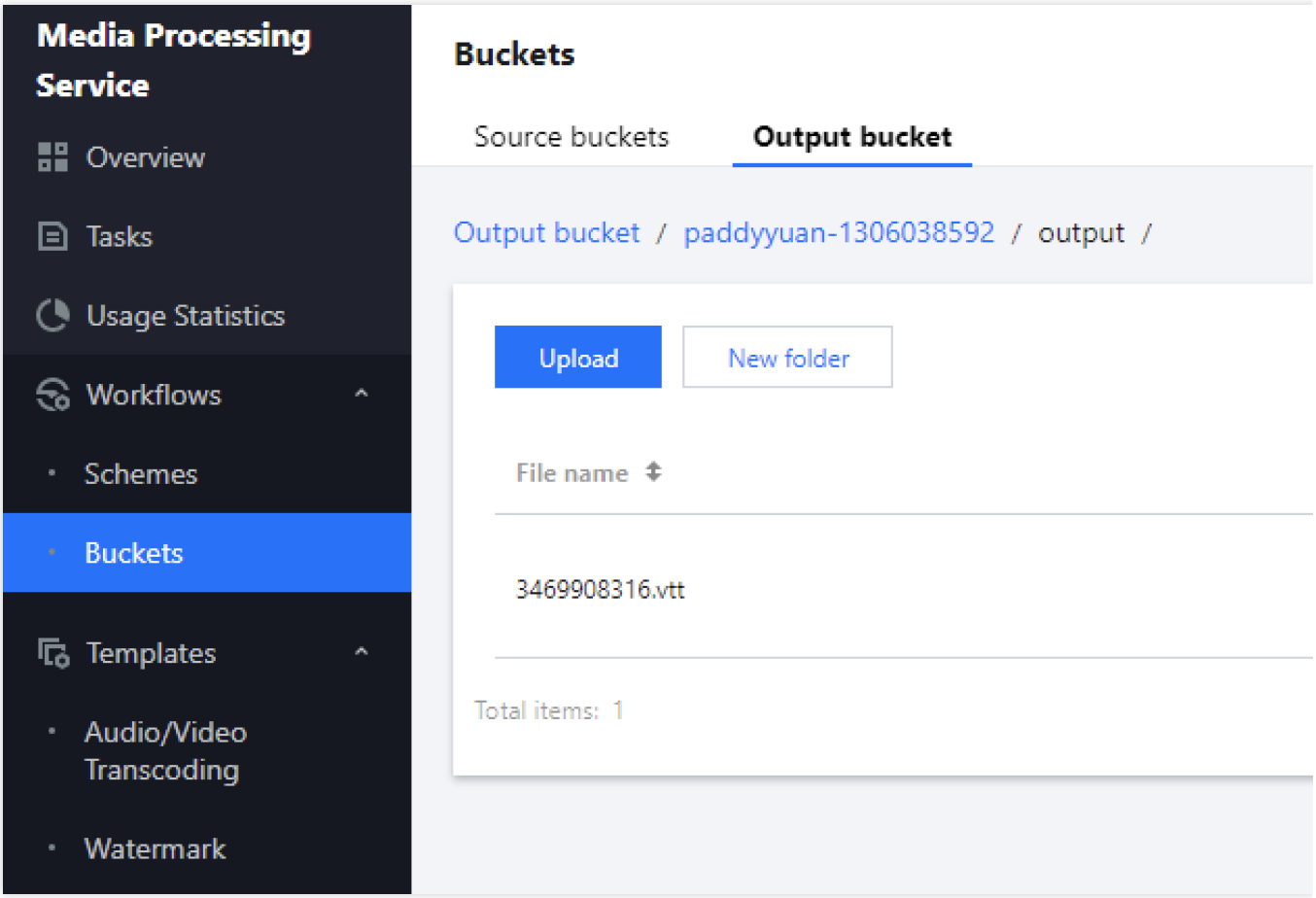

Chinese subtitle sample:

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```
WEBVTT

00:01.740 --> 00:02.700
MO.

00:12.890 --> 00:17.329
One day in eighteen nineteen three thousand miles off the coast of

00:17.329 --> 00:20.180
 in one of the most remote regions of the Pacific ocean,

00:20.180 --> 00:24.350
 twenty American sailors watched their ship flood with seawater.

00:24.920 --> 00:26.360
They've been struck by a sperm whale,

00:26.360 --> 00:28.790
 which had brought a catastrophic hole in the ship's hull.

00:29.809 --> 00:31.849
As their ship began to sink beneath the swells,

00:31.849 --> 00:35.599
 the men huddled together in three small whale boats.

00:36.180 --> 00:36.779
These men were 10,

00:36.779 --> 00:38.310
000 miles from home,

00:38.310 --> 00:41.250
 more than a thousand miles from the nearest graph of land.

00:42.360 --> 00:43.170
In their small boats,

00:43.170 --> 00:48.120
 they carried only rudimentary navigational equipment and limited s
```

Chinese and English subtitle sample:

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```
WEBVTT

00:00.000 --> 00:23.795
中国共产党第19次全国代表大会主席团22号晚和23号上午在人民大会堂举行第三次和第四次会议。通过19届中
The presidium of Communist Party of China's 19th National Congress held its third and fourth me

00:25.110 --> 00:27.165
习近平同志主持会议。
Comrade Xi Jinping presided over the meeting.

00:28.549 --> 00:43.720
会议通过了经各代表团差额预选产生的19届中央委员会委员、候补委员和中央纪律检查委员会委员候选人名单
The meeting adopted the draft list of candidates for members of the 19th CPC Central Committee,

00:45.630 --> 01:04.694
据了解，从10月21号开始，各代表团对18届中央政治局提出并经大会主席团通过的19届中央委员会委员、候补
It is understood that since October 21, delegations have seriously deliberated the preliminary

01:05.989 --> 01:30.449
代表们认为，这个名单是经过严密的组织程序，充分发扬党内民主产生的，集中了各地区、各部门、各条战线
The deputies believe that this list has gone through strict organizational procedures, fully de

01:31.910 --> 02:02.200
10月22号下午和23号上午，大会举行各代表团全体会议，先后对中央委员、中央纪委委员和候补中央委员进行
On the afternoon of 22 October and the morning of 23 October, the Congress held plenary meeting

02:02.360 --> 02:23.455
进行预选，结果合法有效。根据大会选举办法规定和日程安排，23号下午大会举行各代表团分组会议，酝酿主
Carry on the pre-selection, the result is legal and valid. In accordance with the provisions of

02:24.339 --> 02:28.360
24号上午，大会将举行正式选举。
On the morning of the 24th, the Congress will hold a formal election.
```

2. Generation via an API

1. Call ProcessMedia, specifying the input file information and the scheme ID.

Example:

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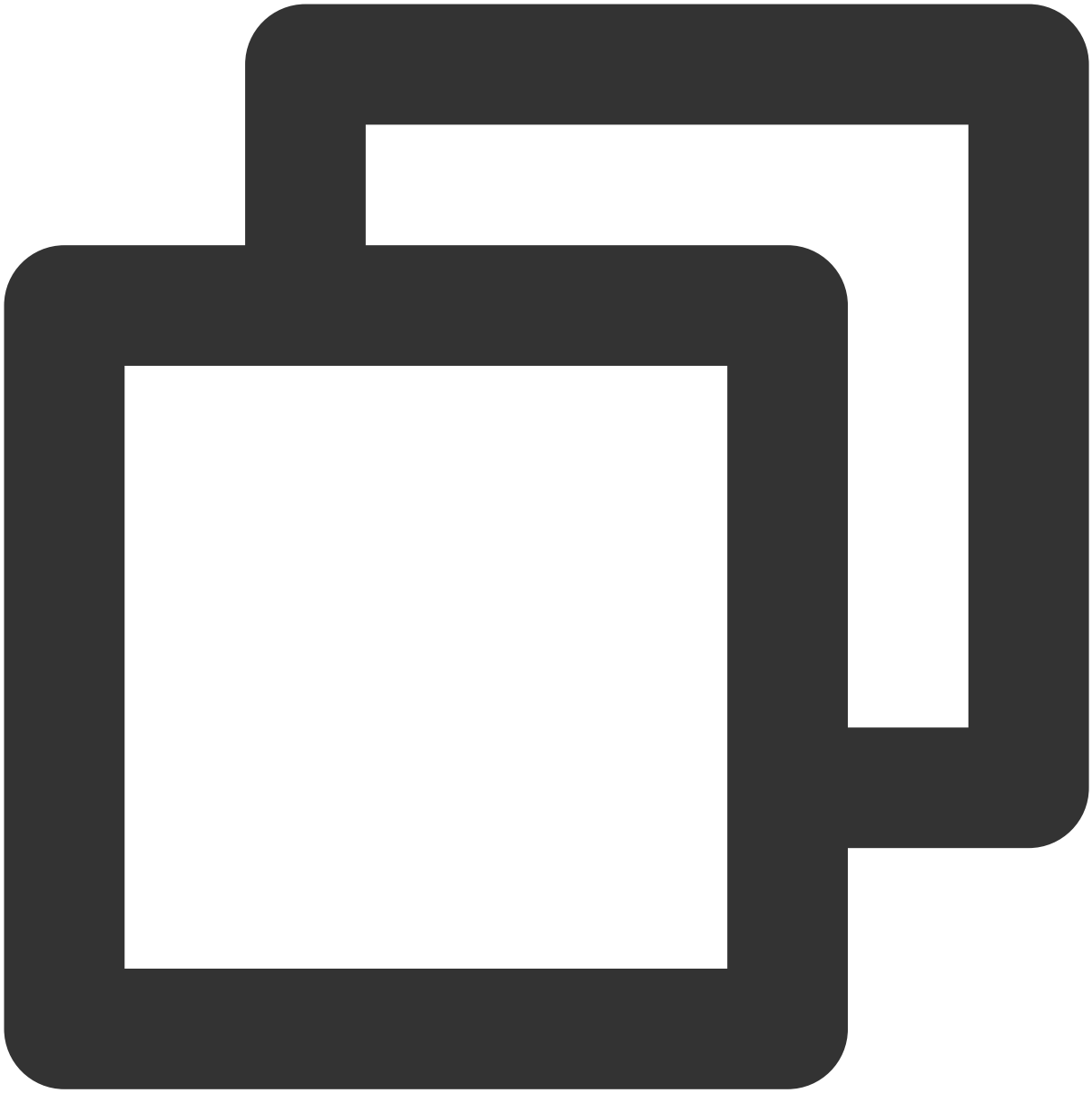

```
{
    "InputInfo": {
        "Type": "COS",
        "CosInputInfo": {
            "Bucket": "facedetectioncos-1251132611",
            "Region": "ap-guangzhou",
            "Object": "/video/123.mp4"
        }
    },
    "ScheduleId": 20073,
    "Action": "ProcessMedia",
```

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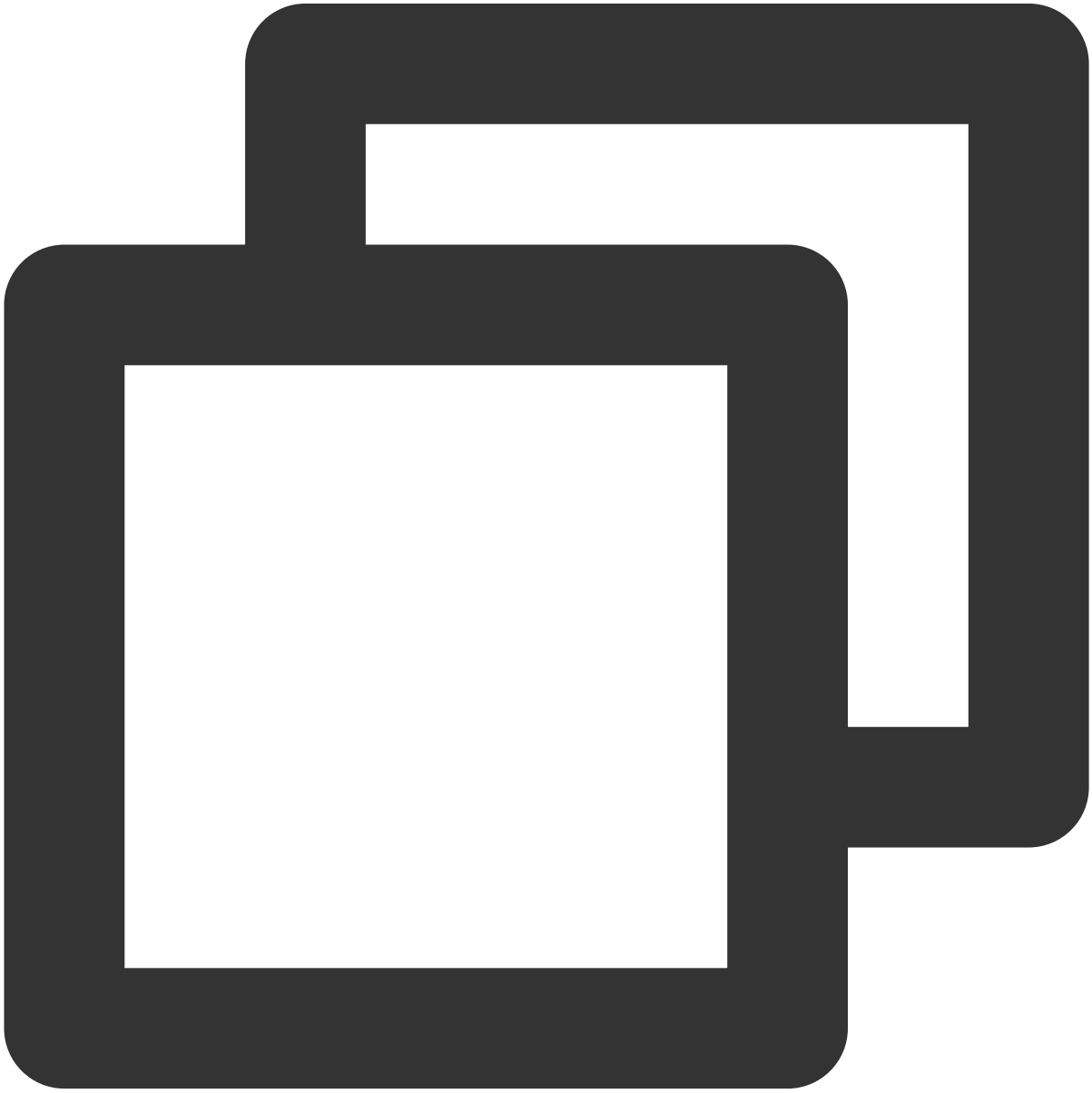
```
    "Version": "2019-06-12"
}
```

2. If you have configured a callback address, for details about the data returned, see ParseNotification.

3. Embedding the subtitles into the video

Create a transcoding task, setting `SubtitleTemplate` to the VTT file generated in step 1 or step 2. For details, see Data Types.

Example:



```
{
```

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```
    "MediaProcessTask": {
        "TranscodeTaskSet": [
            {
                "Definition": 206390,
                "OverrideParameter": {
                    "Container": "mp4",
                    "RemoveVideo": 0,
                    "RemoveAudio": 0,
                    "VideoTemplate": {
                        "Codec": "libx264",
                        "Fps": 30,
                        "Bitrate": 2346,
                        "ResolutionAdaptive": "close",
                        "Width": 1920,
                        "Height": 0,
                        "Gop": 0,
                        "FillType": "black"
                    },
                    "AudioTemplate": {
                        "Codec": "libmp3lame",
                        "Bitrate": 0,
                        "SampleRate": 32000,
                        "AudioChannel": 2
                    },
                    "SubtitleTemplate": {
                        "Path": "https://lily-1256342427.cos.ap-nanjing.myqcloud.co
                        "StreamIndex": 2,
                        "FontType": "simkai.ttf",
                        "FontSize": "10px",
                        "FontColor": "0xFFFFFF",
                        "FontAlpha": 0.9
                    }
                }
            }
        ]
    },
    "InputInfo": {
        "Type": "URL",
        "UrlInputInfo": {
            "Url": "https://lily-1256342427.cos.ap-nanjing.myqcloud.com/mps_autotes
        }
    },
    "OutputStorage": {
        "Type": "COS",
        "CosOutputStorage": {
            "Bucket": "lily-1256342427",
            "Region": "ap-nanjing"
```


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```
            }
        },
        "OutputDir": "/mps_autotest/output2/",
        "Action": "ProcessMedia",
        "Version": "2019-06-12"
    }
```

Case 2: Generating subtitles for a live stream

1. Configuring a callback that returns the text in real time.

1. Call ProcessLiveStream to start a speech recognition task using a preset subtitle generation template.

Example:

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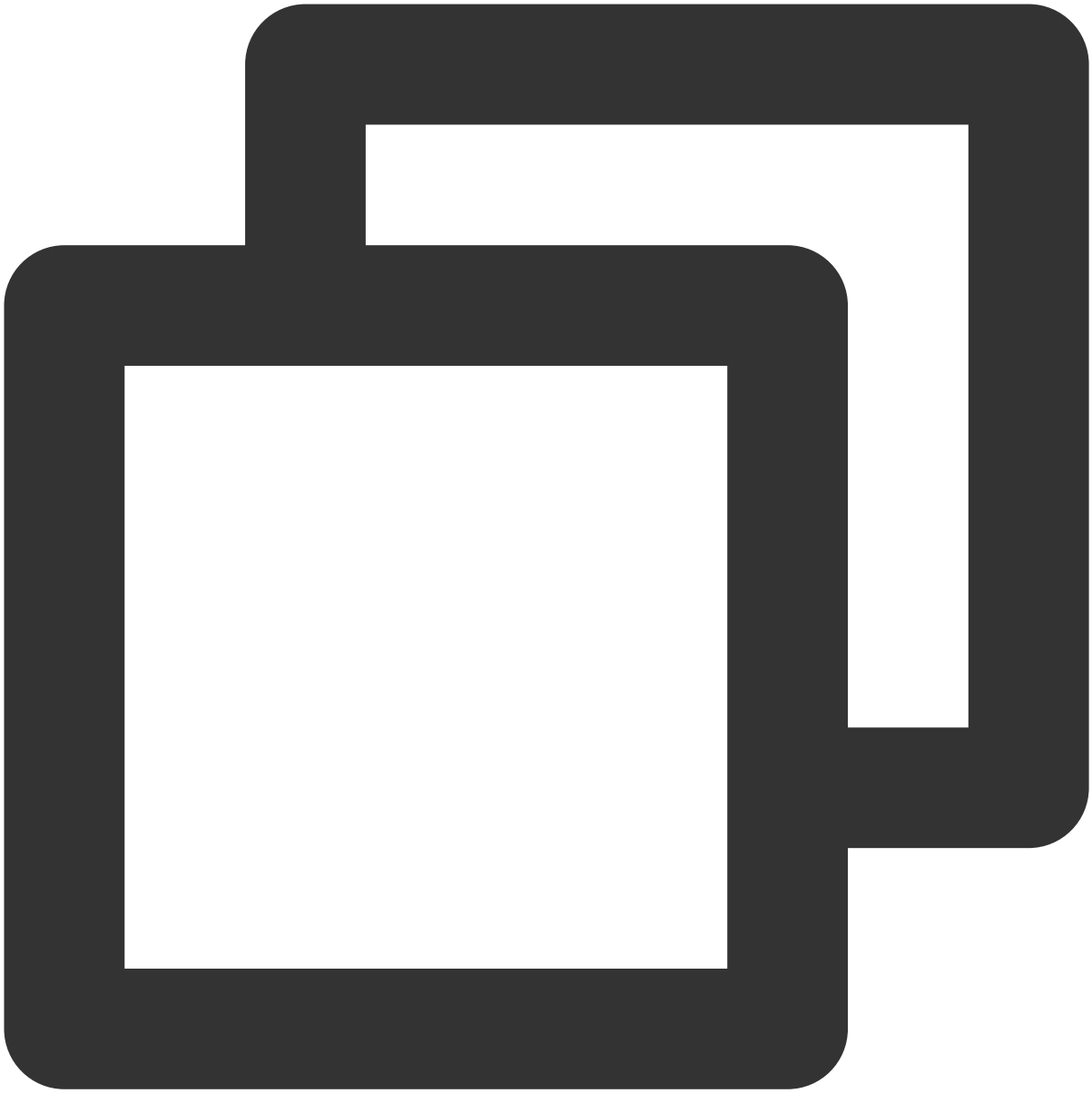

```
{
    "Url": "http://5000-wenzhen.liveplay.myqcloud.com/live/123.flv",
    "AiRecognitionTask": {
        "Definition": 10101
    },
    "OutputStorage": {
        "CosOutputStorage": {
            "Bucket": "6c0f30dfvodgzp251000800-10022853",
            "Region": "ap-guangzhou-2"
        },
        "Type": "COS"
```

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```
    },
    "OutputDir": "/6c0f30dfvodgzp251000800/0d1409d34565514956657373652/",
    "TaskNotifyConfig": {
        "NotifyType": "URL",
        "NotifyUrl": "http://xxxx.qq.com/callback/qtatest/?token=xxxxxx"
    },
    "Action": "ProcessLiveStream",
    "Version": "2019-06-12"
}
```

2. Receive the callback. For details about the data returned, see ParseLiveStreamProcessNotification.

2. Embedding the subtitles into the live stream

1. Make sure you have activated Cloud Streaming Services and MPS.
2. Submit a ticket to enable the live subtitling feature for your account.
3. The publishing and playback logic remains unchanged. You can get subtitled streams simply by adding a suffix that specifies the subtitle language to the playback URL.

For example, suppose the stream ID is `5000_test` .

Original stream (with no subtitles)

http://5000.liveplay.myqcloud.com/live/5000_test.flv

Chinese speech to Chinese text subtitles

http://5000.liveplay.myqcloud.com/live/5000_test_**chs2chs.**flv

Chinese speech to Chinese and English text subtitles

http://5000.liveplay.myqcloud.com/live/5000_test_**chs2chseng**.flv

Chinese speech to English text subtitles

http://5000.liveplay.myqcloud.com/live/5000_test_**chs2eng.**flv

English speech to English text subtitles

http://5000.liveplay.myqcloud.com/live/5000_test_**eng2eng**.flv

English speech to English and Chinese text subtitles

http://5000.liveplay.myqcloud.com/live/5000_test_**eng2chseng**.flv

If you want to use subtitles in other languages, please submit a ticket.

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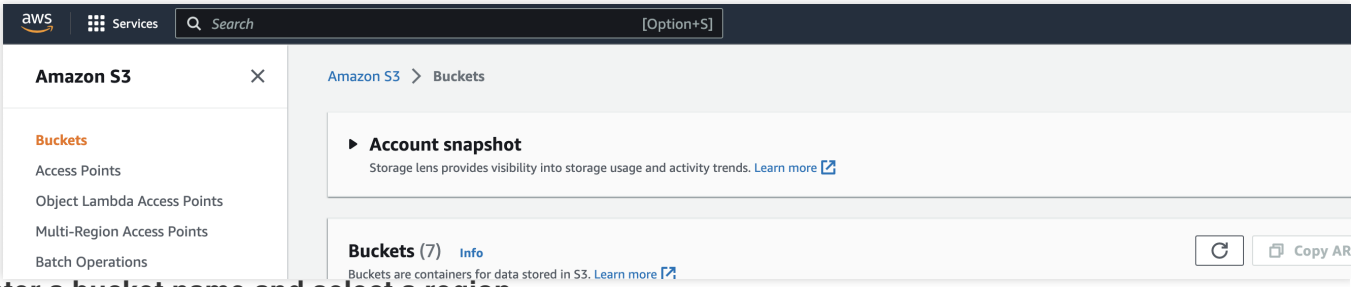
Using Amazon S3 Buckets with MPS

Last updated：2023-04-14 15:32:54

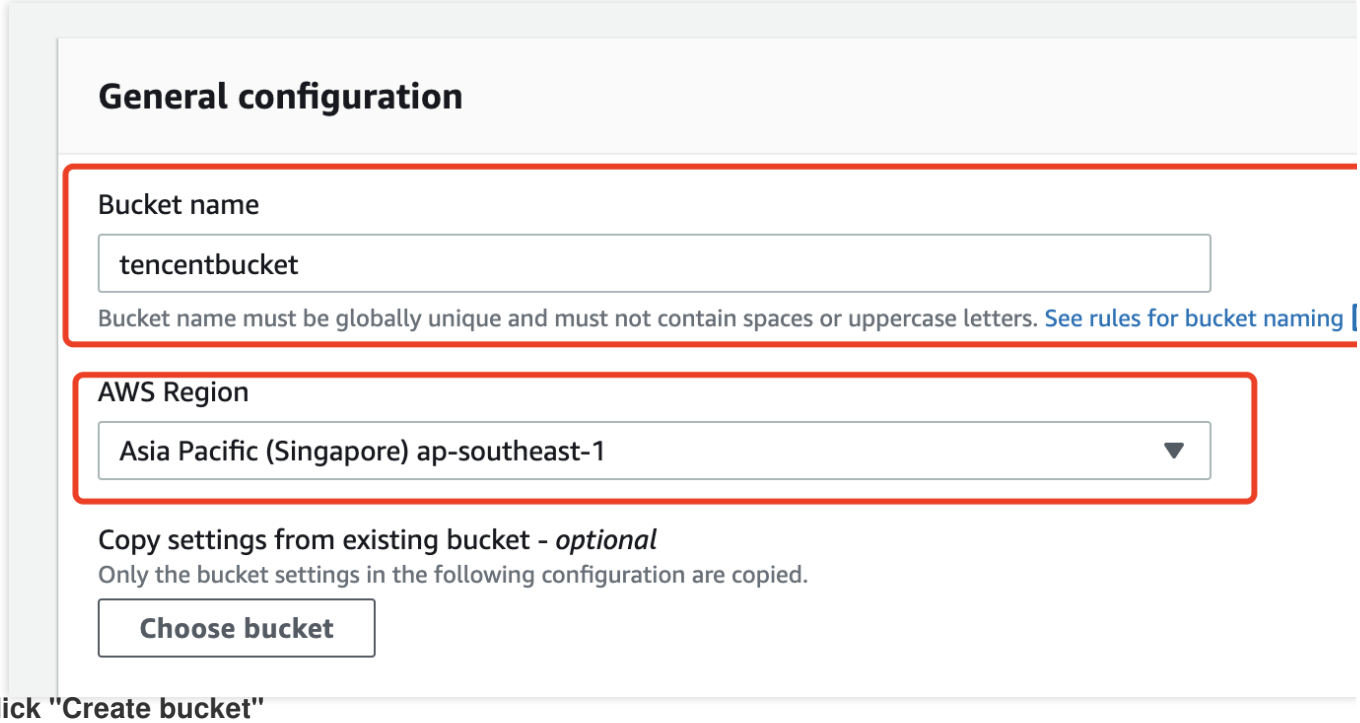
1. Creating an S3 bucket for input/output files

1.1 **Click "Create bucket".**



1.2 **Enter a bucket name and select a region.**

Enter a bucket name and select a region for the bucket. As an example, Singapore is selected in the screenshot below.



1.3 **Click "Create bucket"**

1.4 **Repeat the above steps to create a bucket for transcoding outputs (optional).**

Note:

You can also output transcoding files to a new directory of the input bucket.

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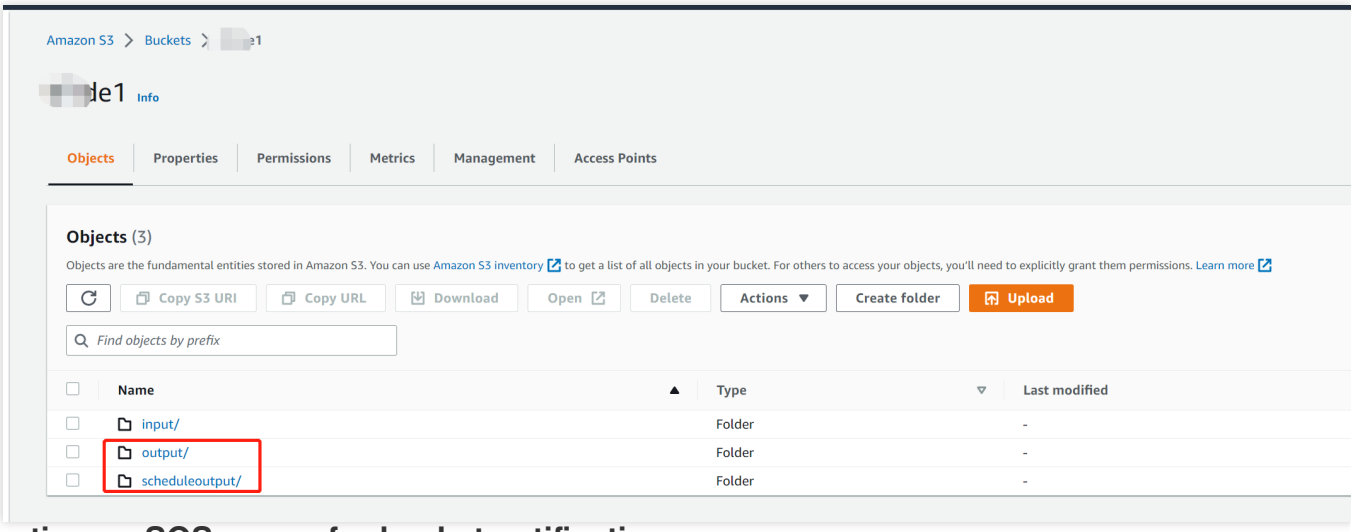
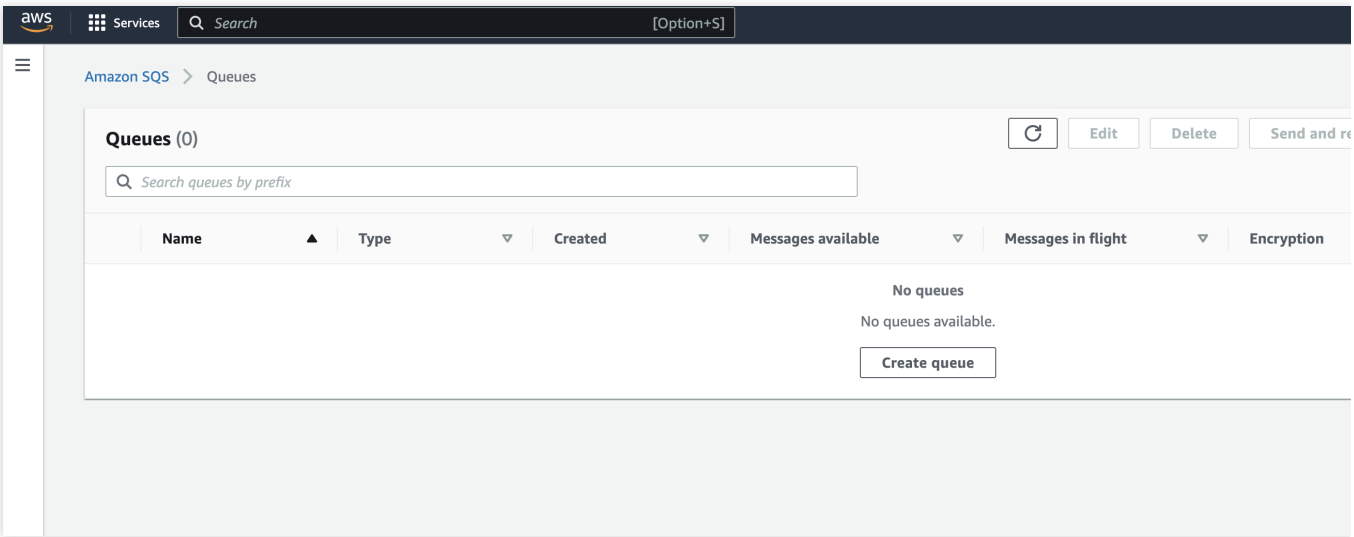


2. Creating an SQS queue for bucket notifications

1.1 **Select the queue region.**

Select Singapore (ap-southeast-1).



Note:

To bind the queue to your bucket, make sure the queue region is the same as the bucket region.

1.2 **Enter a queue name.**

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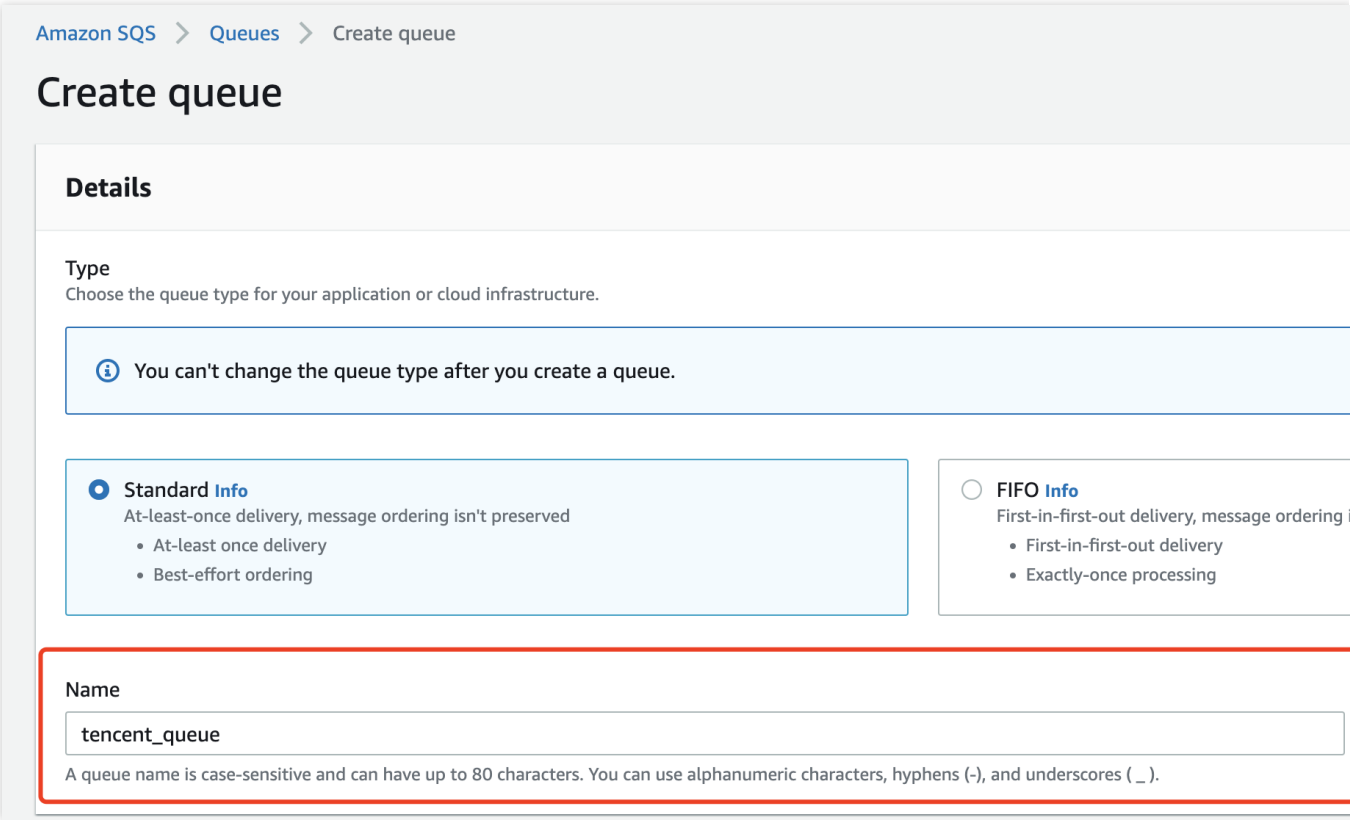
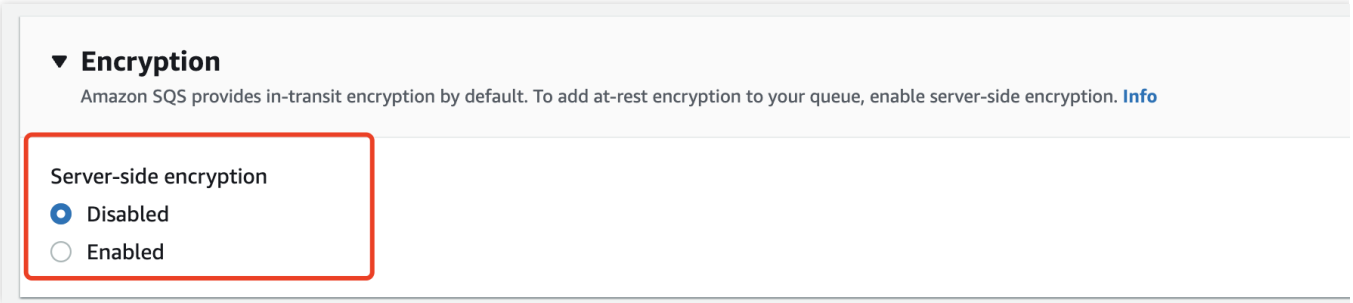


1.3 **Disable encryption.**



1.4 **Modify the access policy.**

Select **Advanced**, enter your SQS ARN, S3 bucket ARN, and account ID at the specified locations below (for how to get the information, refer to the end of this document), and paste it under the access policy tab in the AWS console.

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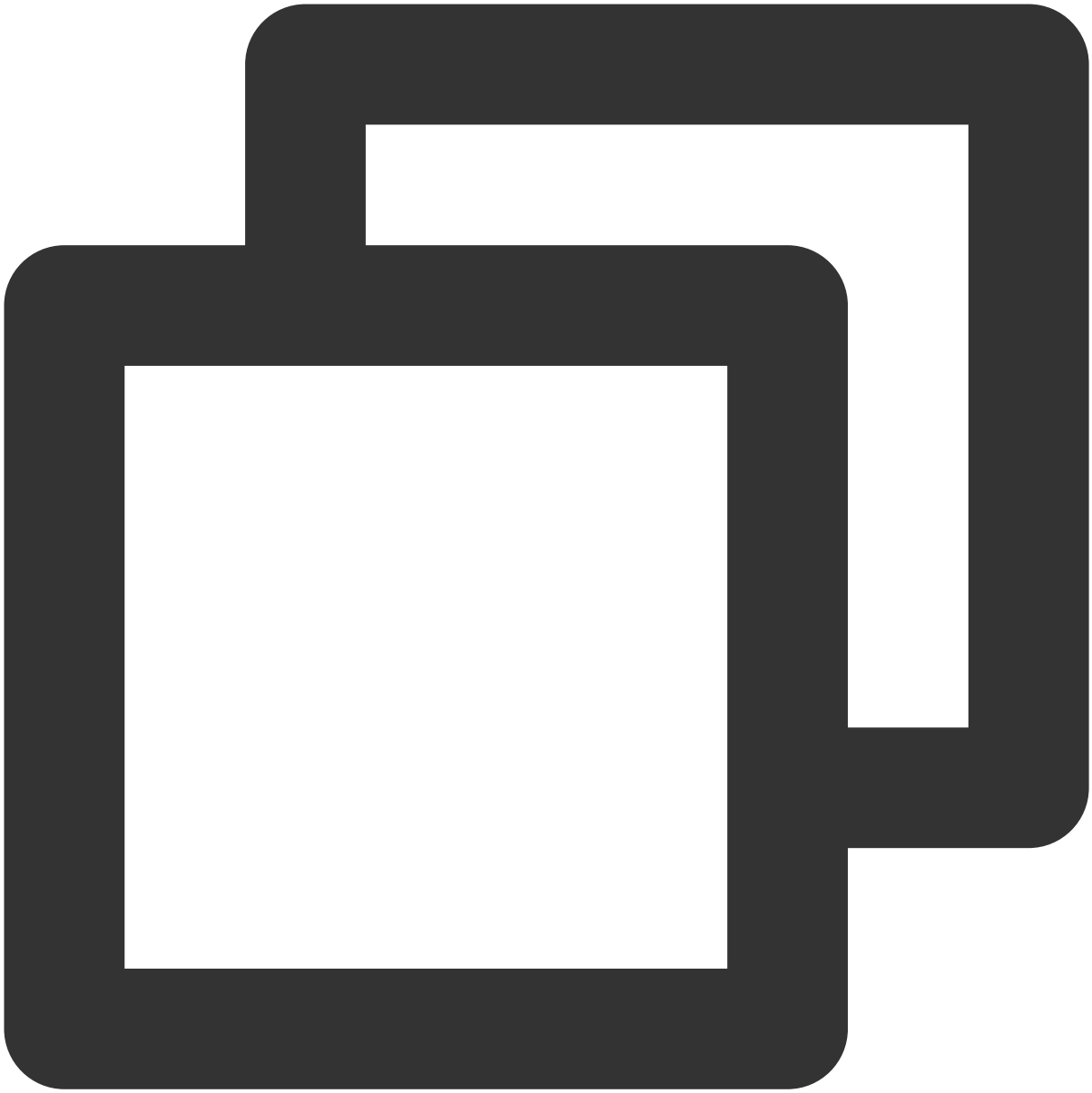

```
{
    "Version": "2012-10-17",
    "Id": "__default_policy_ID",
    "Statement": [
        {
            "Sid": "__owner_statement",
            "Effect": "Allow",
            "Principal": {
                "Service": "s3.amazonaws.com"
```

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```
            },
            "Action": [
                "SQS:SendMessage"
            ],
            "Resource": "Your SQS ARN",
            "Condition": {
                "ArnLike": {
                    "aws:SourceArn": "Your bucket ARN"
                },
                "StringEquals": {
                    "aws:SourceAccount": "Your account ID"
                }
            }
        }
    ]
}
```

1.5 **Click "Create queue".**

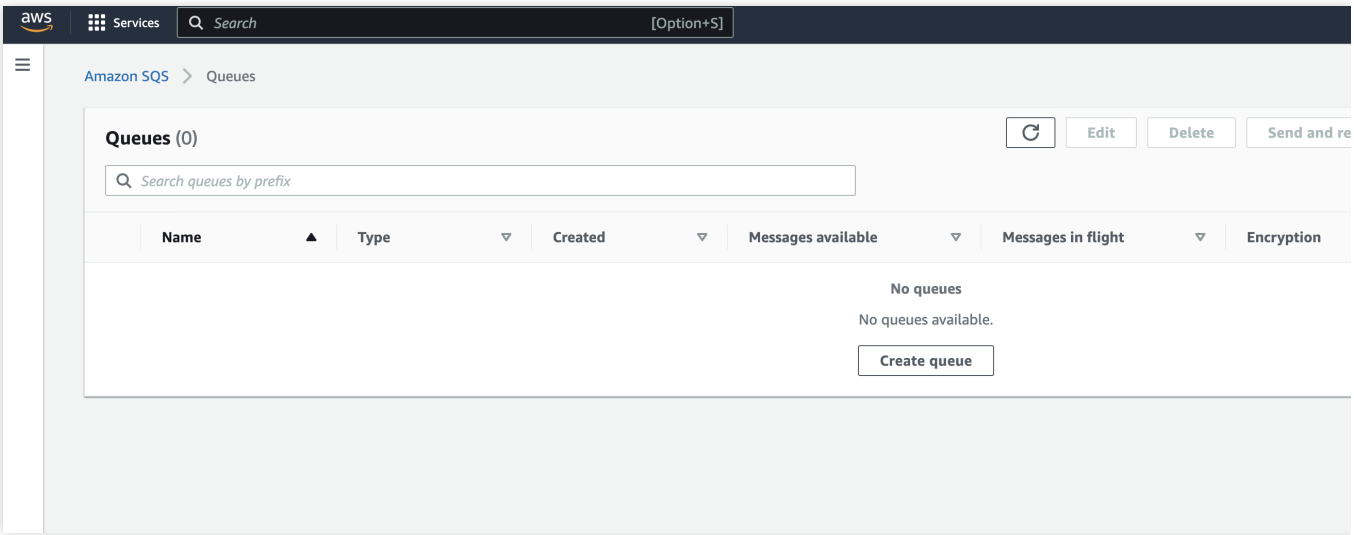
3. Creating an SQS queue for transcoding callbacks

Note:

This is required only if you use AWS SQS callbacks.

1.1 **Select the queue region.**

Select Singapore.



Note:

The queue region must be the same as your bucket region.

1.2 **Enter a queue name.**

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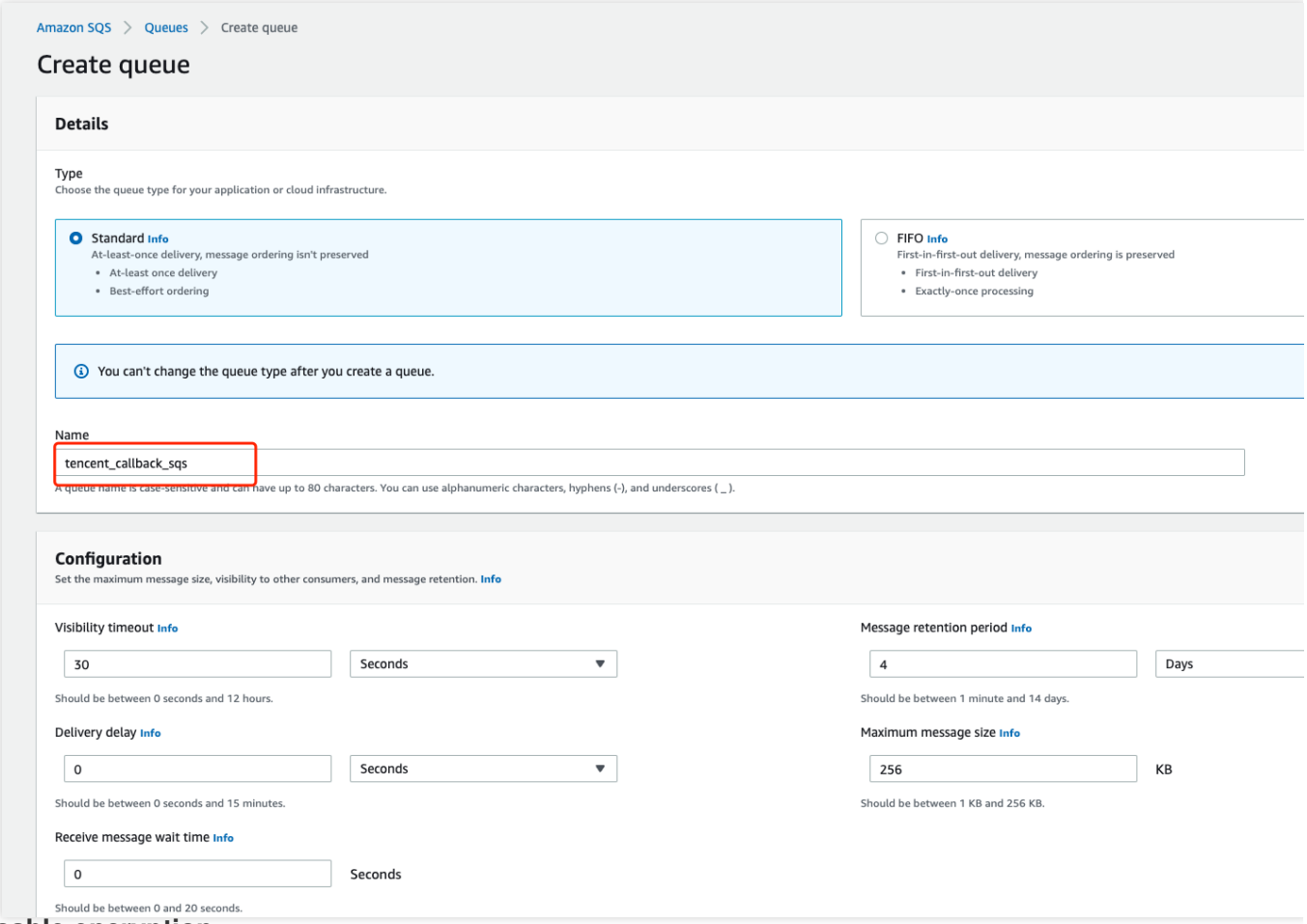
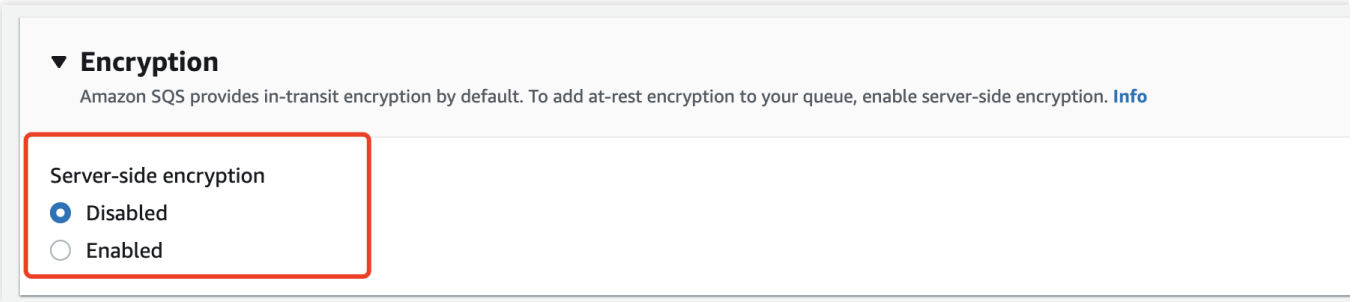


1.3 **Disable encryption.**



1.4 **Click "Create queue".**

4. Binding the input bucket with the SQS queue

1.1 Go to the input bucket details page.

Return to the Amazon S3 console. Find the bucket you created and click the bucket name to enter the details page.

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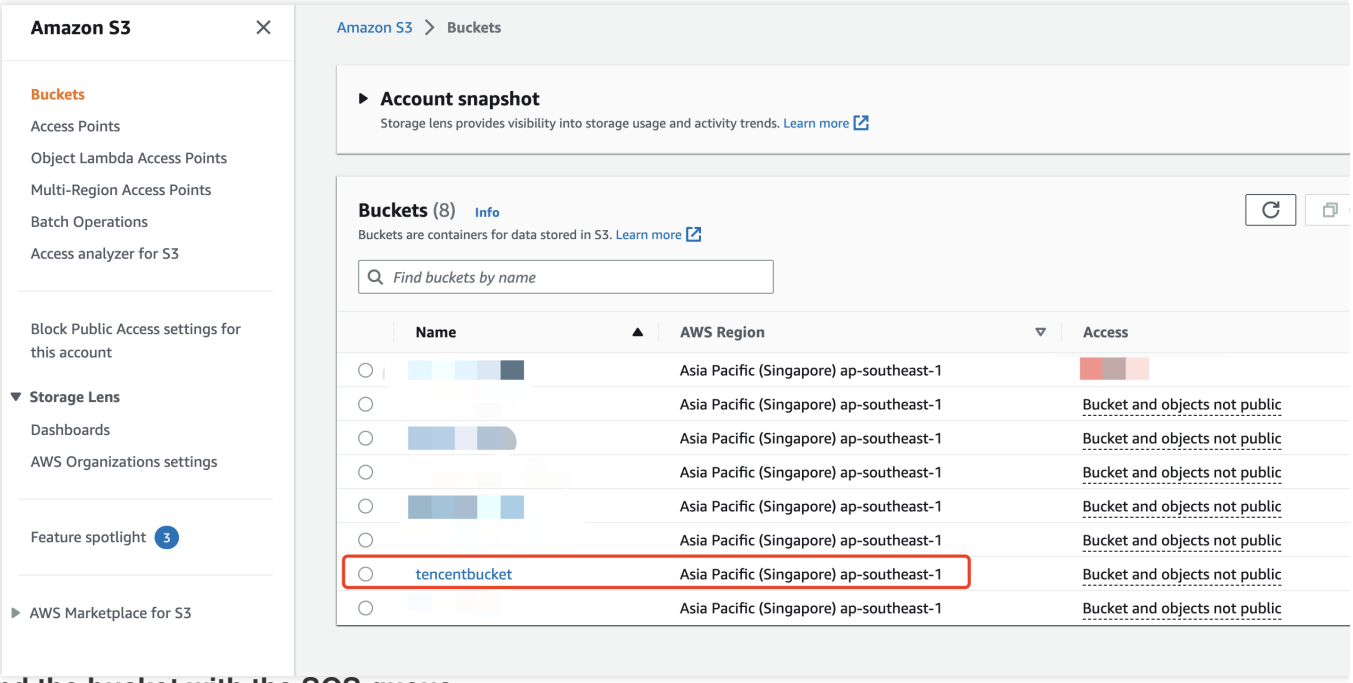
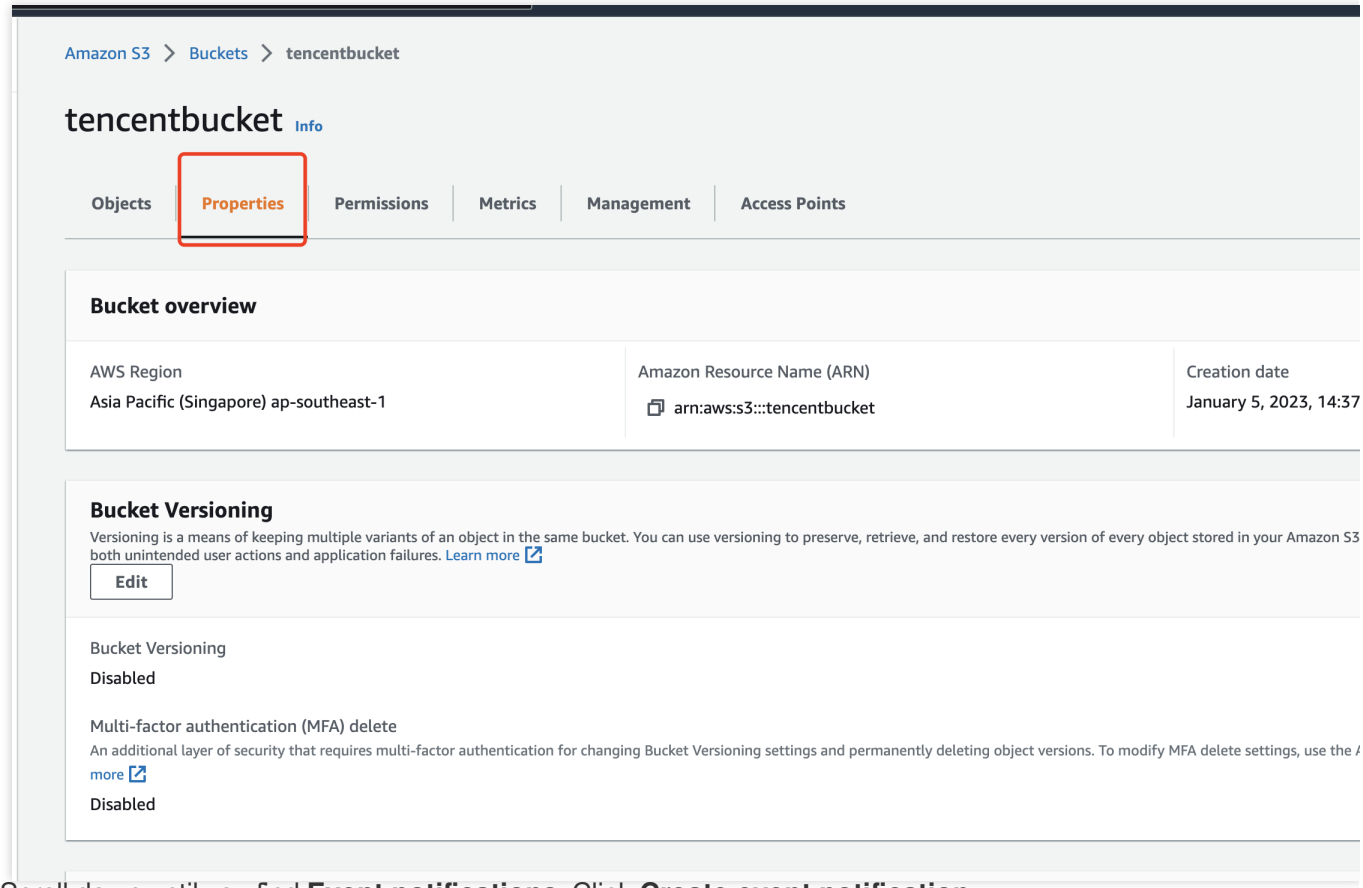


1.2 **Bind the bucket with the SQS queue.**

1.2.1 Select **Properties**.



1.2.2 Scroll down until you find **Event notifications**. Click **Create event notification**.

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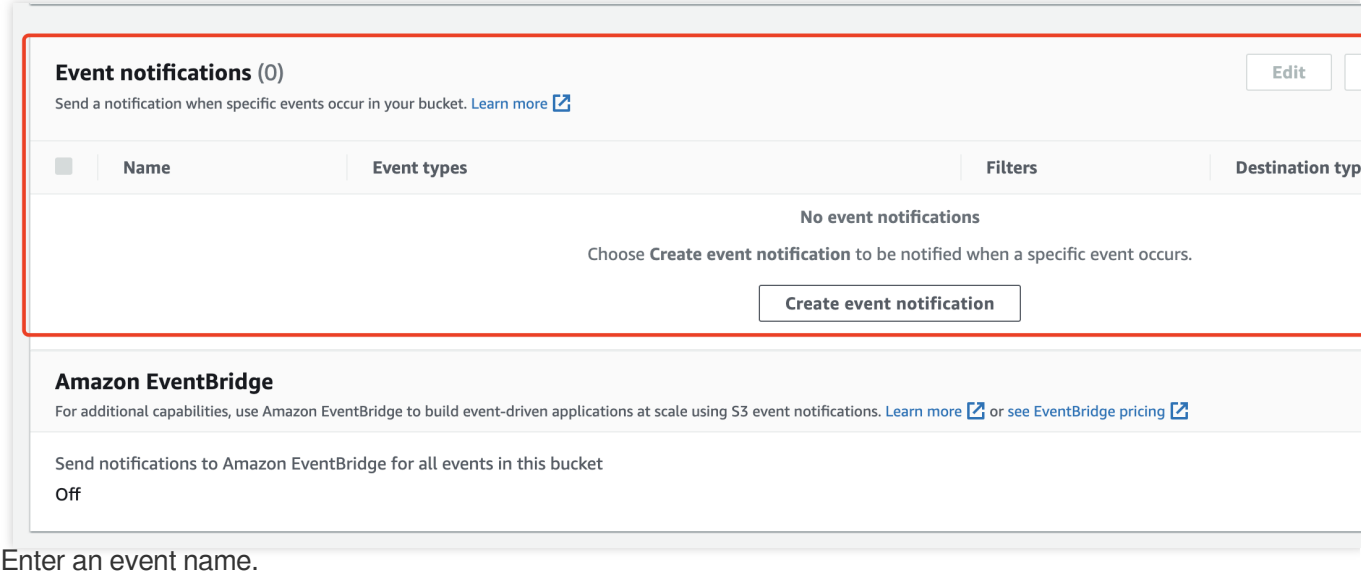
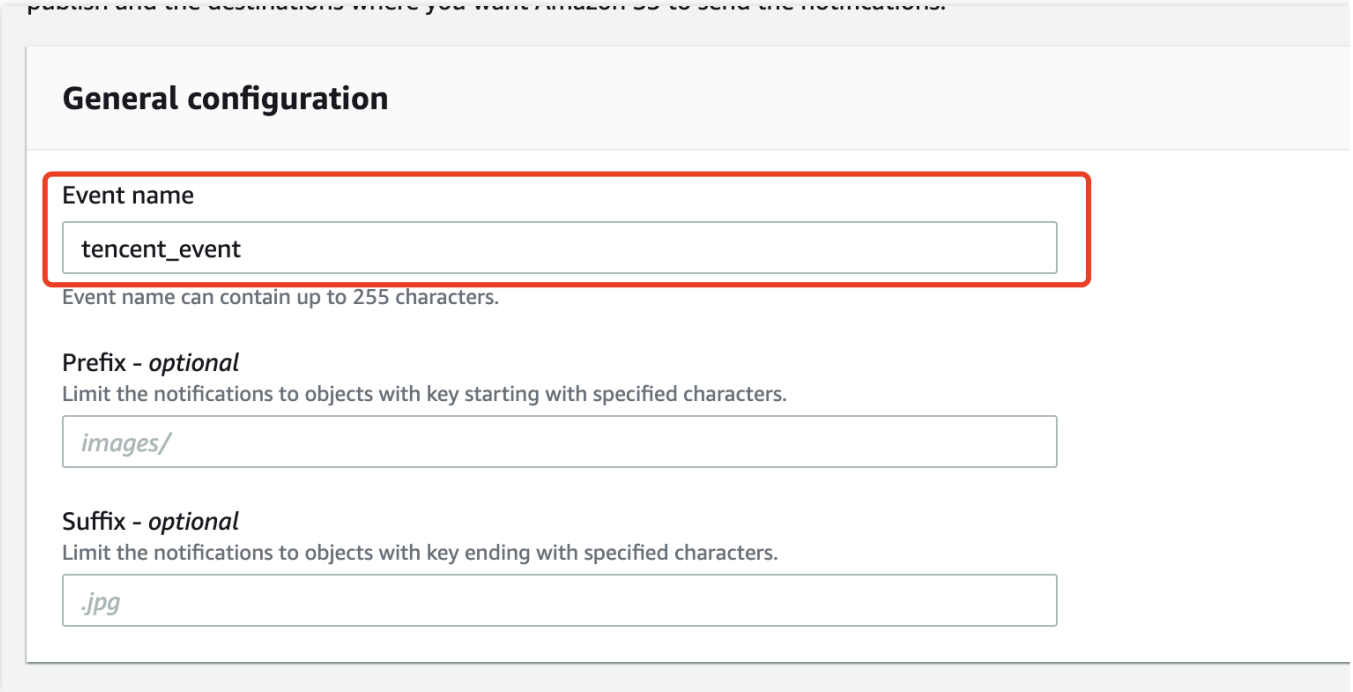


1.2.3 Enter an event name.



1.2.4 Select **All object create events** in **Event types**.

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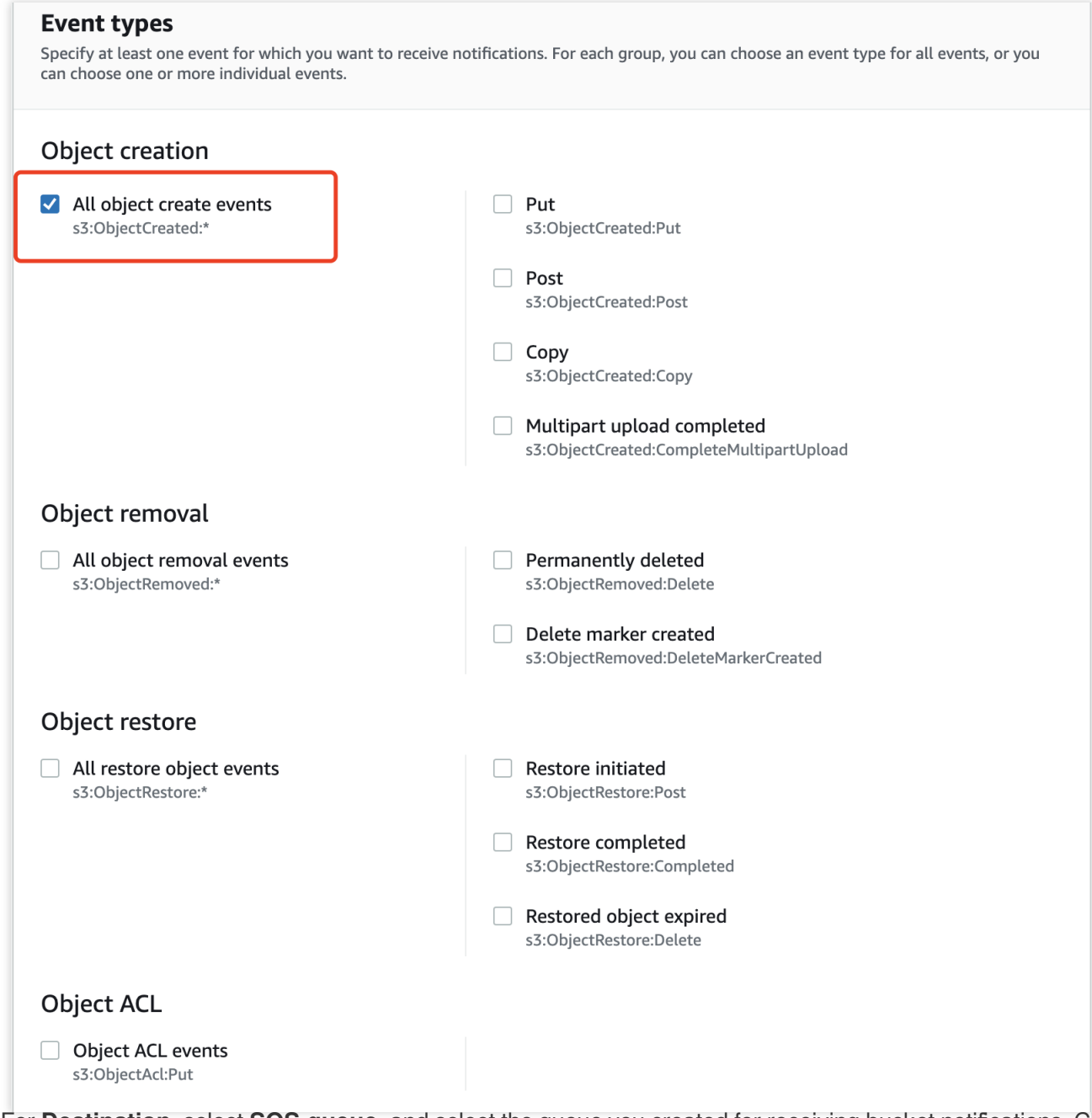

1.2.5 For **Destination**, select **SQS queue**, and select the queue you created for receiving bucket notifications. Click **Save changes**.

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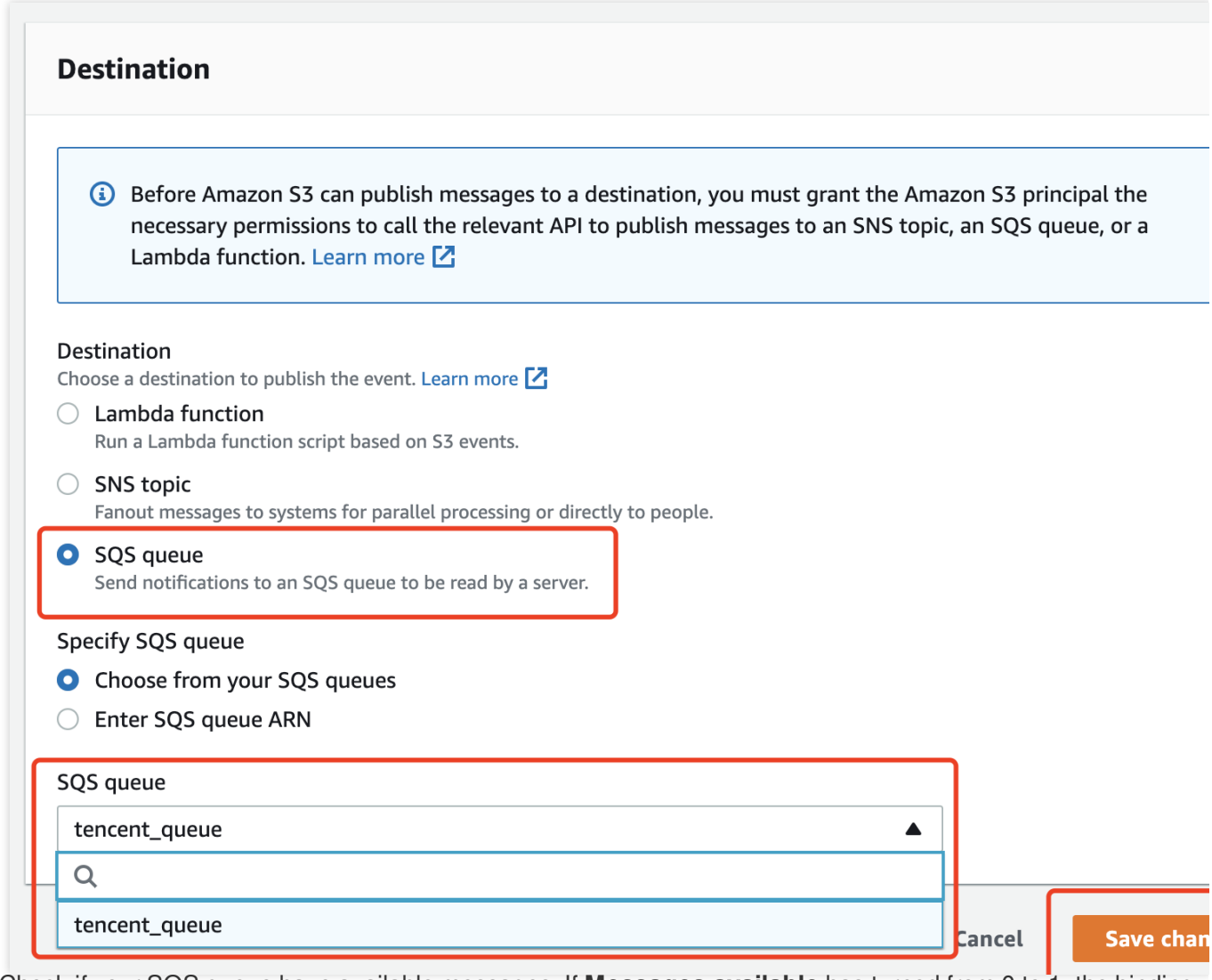
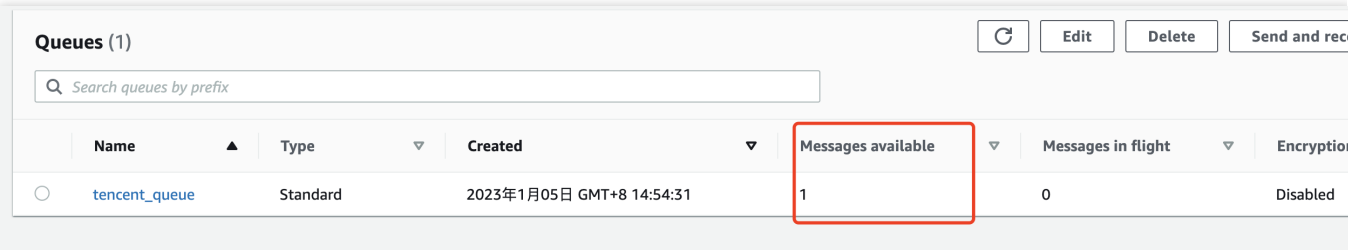


1.2.6 Check if your SQS queue have available messages. If **Messages available** has turned from 0 to 1, the binding is successful.



5. Creating an IAM user and grant it permissions

5.1 Create a policy.

1.1.1 Go to **Identity and Access Management**, click **Policies**, and then click **Create policy**.

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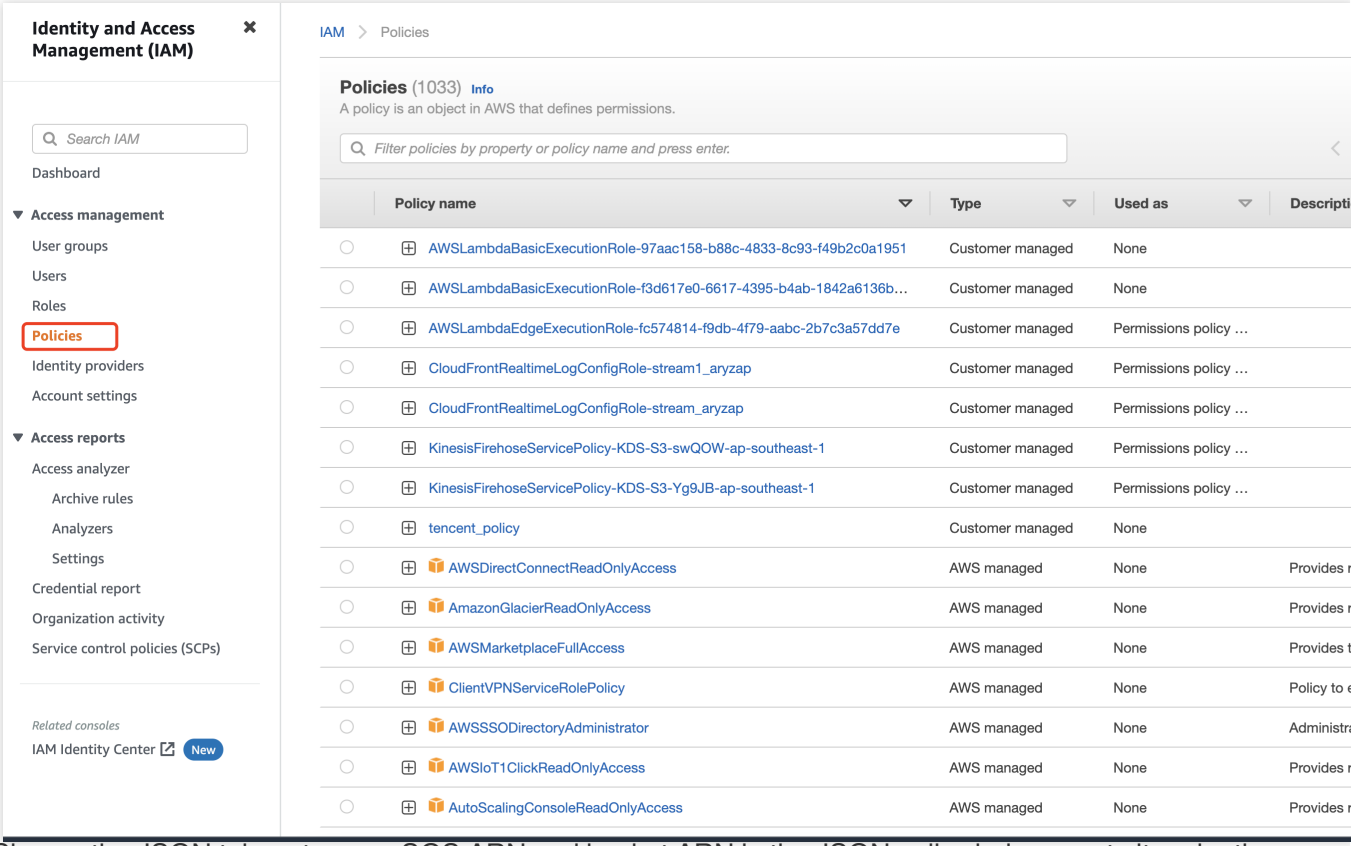

1.1.2 Choose the JSON tab, enter your SQS ARN and bucket ARN in the JSON policy below, paste it under the JSON tab, and click **Next** (twice).

Policy for Amazon SQS callbacks

Policy for HTTP callbacks

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```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "sqs:DeleteMessage",
                "s3:GetObject",
                "sqs:GetQueueUrl",
                "sqs:ReceiveMessage",
                "s3:GetObjectAttributes",
                "sqs:GetQueueAttributes",
                "sqs:ListQueueTags"
            ],
            "Resource": [
                [redacted]",
                [redacted]
            ]
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
                "s3:PutObject",
                "sqs:GetQueueUrl",
                "sqs:SendMessage"
            ],
            "Resource": [
                [redacted]",
                "[redacted]"
            ]
        }
    ]
}
```

Security: 0 Errors: 0 Warnings: 0 Suggestions: 0

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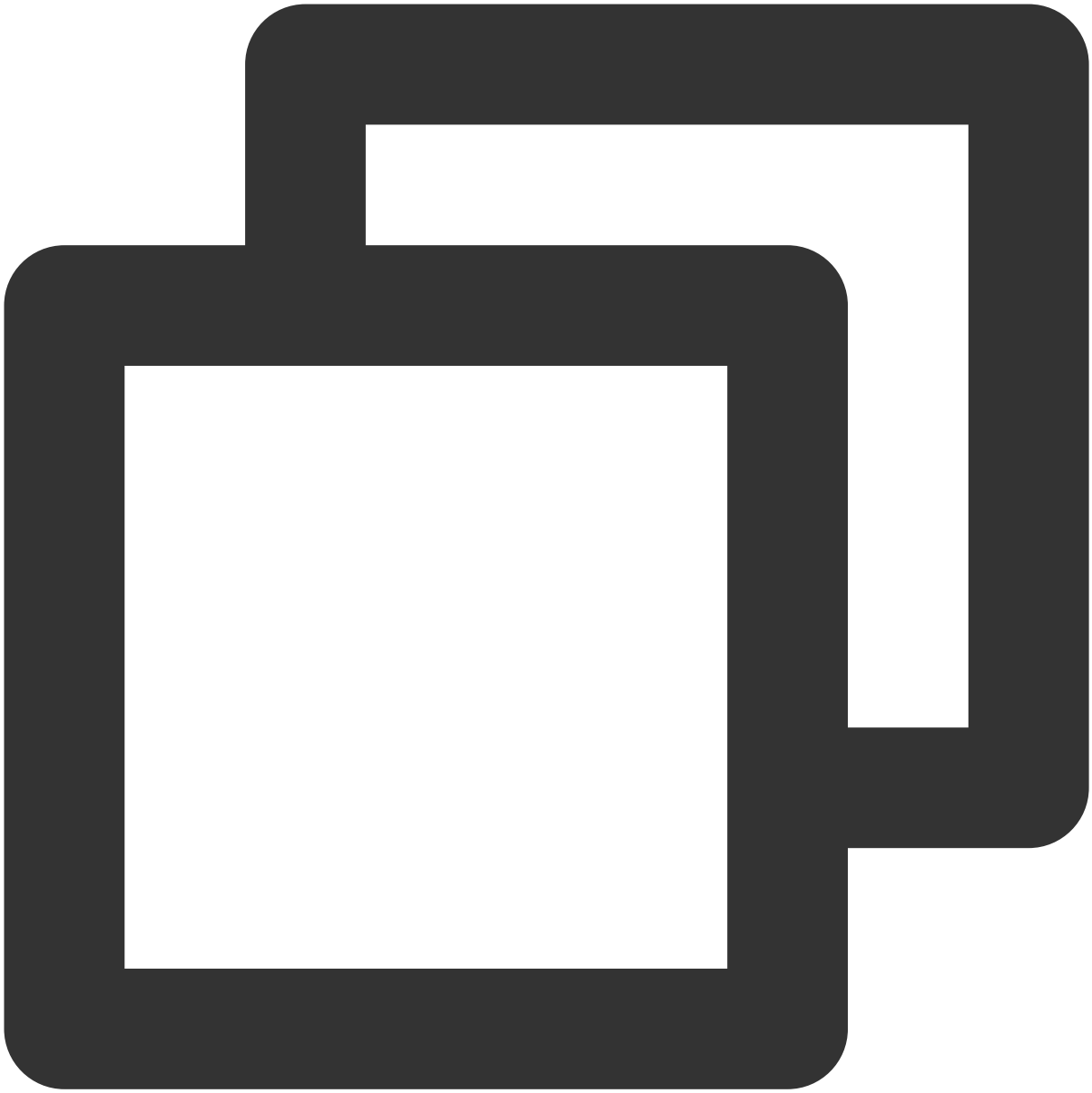

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "sqs:DeleteMessage",
                "s3:GetObject",
```

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```
                "sqs:GetQueueUrl",
                "sqs:ReceiveMessage",
                "s3:GetObjectAttributes",
                "sqs:GetQueueAttributes",
                "sqs:ListQueueTags"
            ],
            "Resource": [
                "The ARN of the SQS queue for bucket notifications",
                "The input bucket ARN + /*"
            ]
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
                "s3:PutObject",
                "sqs:GetQueueUrl",
                "sqs:SendMessage"
            ],
            "Resource": [
                "The ARN of the SQS queue for transcoding callbacks",
                "The output bucket ARN + /*"
            ]
        }
    ]
}
```

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```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "sqs:DeleteMessage",
                "s3:GetObject",
                "sqs:GetQueueUrl",
                "sqs:ReceiveMessage",
                "s3:GetObjectAttributes",
                "sqs:GetQueueAttributes",
                "sqs:ListQueueTags"
            ],
            "Resource": [
                [redacted]",

            ]
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
                "s3:PutObject",
                "sqs:GetQueueUrl",
                "sqs:SendMessage"
            ],
            "Resource": [
                [redacted]",
                [redacted]"
            ]
        }
    ]
}
```

Security: 0 Errors: 0 Warnings: 0 Suggestions: 0

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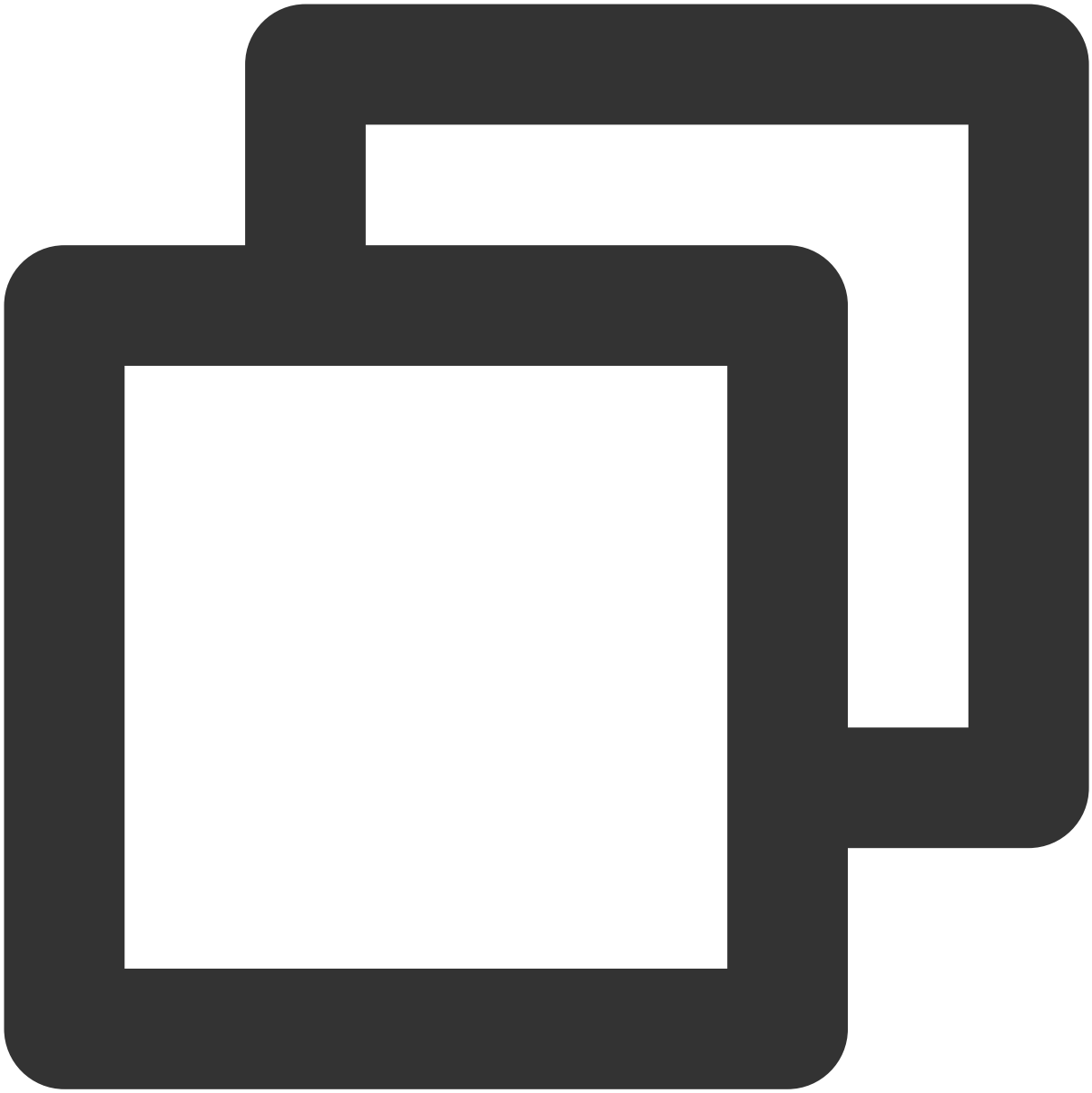

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "VisualEditor0",
            "Effect": "Allow",
            "Action": [
                "sqs:DeleteMessage",
                "s3:GetObject",
```

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```
                "sqs:GetQueueUrl",
                "sqs:ReceiveMessage",
                "s3:GetObjectAttributes",
                "sqs:GetQueueAttributes",
                "sqs:ListQueueTags"
            ],
            "Resource": [
                "The ARN of the SQS queue for bucket notifications",
                "The input bucket ARN + /*"
            ]
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
                "s3:PutObject"
            ],
            "Resource": [
                "The output bucket ARN + /*"
            ]
        }
    ]
}
```

Note:

In `Resources` of the JSON document, make sure you attach `/*` to the bucket ARN. For example, if your bucket ARN is `arn:aws:s3:::tencentbucket`, enter `arn:aws:s3:::tencentbucket/*`.

1.1.3 Enter a policy name and click **Create policy**.

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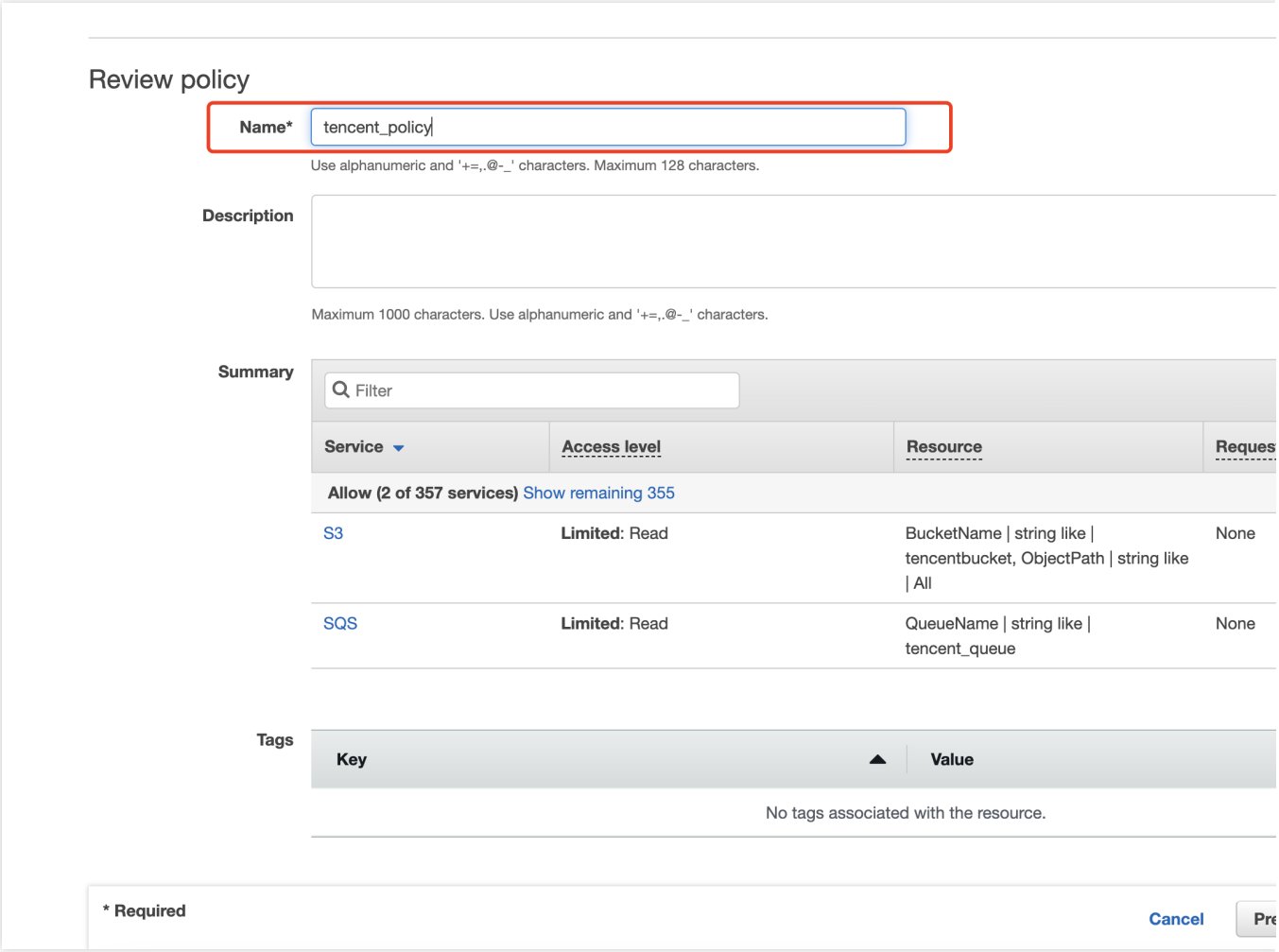
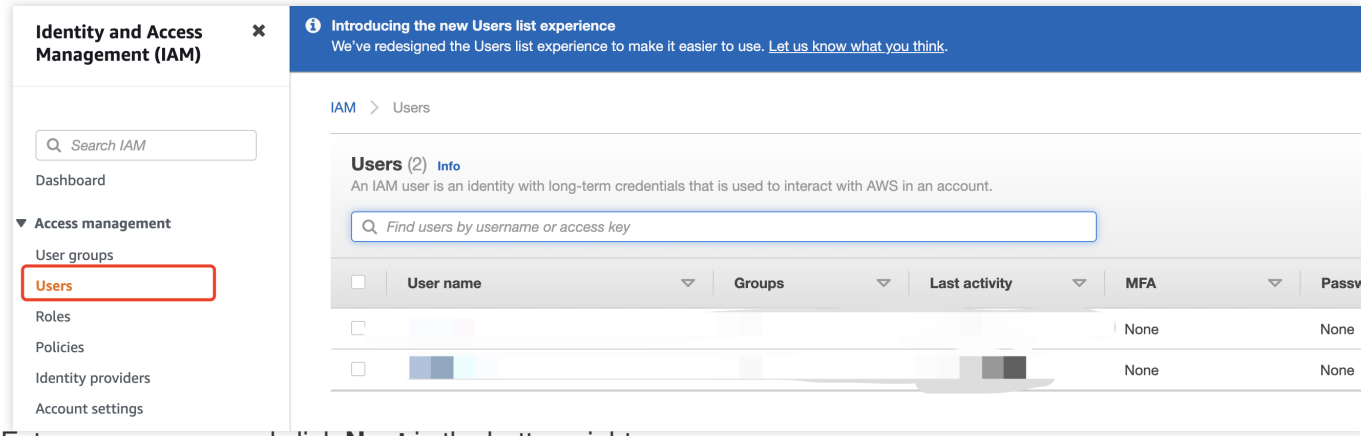


5.2 Create an IAM user.

1.1.1 Go to the IAM page, click **Users**, and then click **Add users**.



1.1.2 Enter a user name and click **Next** in the bottom right.

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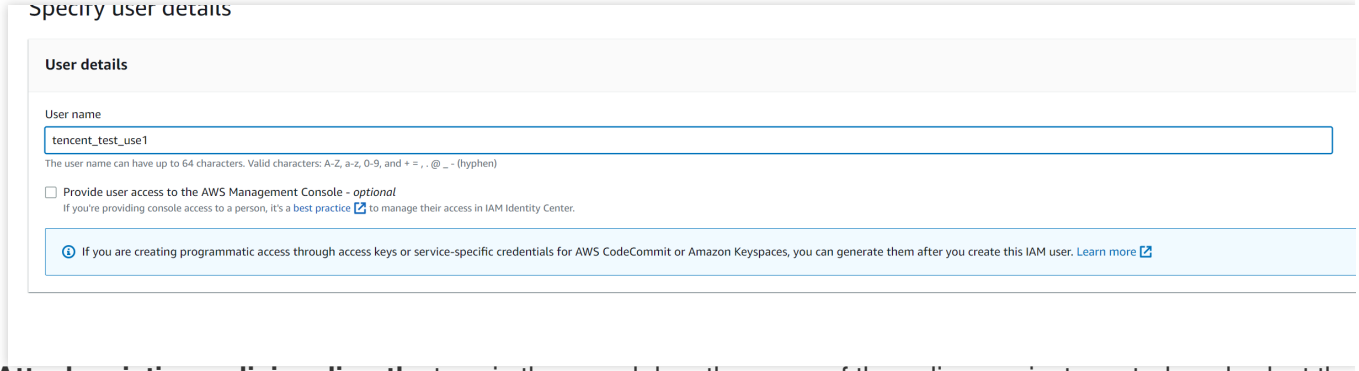
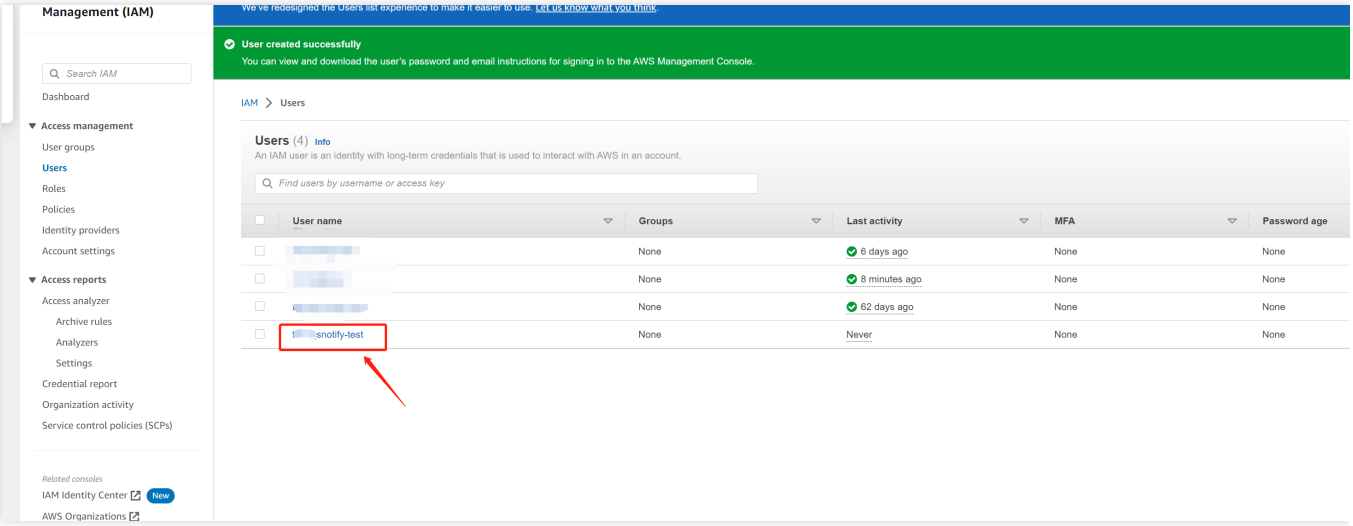


Click **Attach existing policies directly**, type in the search box the name of the policy you just created, and select the policy.

Click **Next** and then click **Create user**.

1.1.3 Click the name of the user you created.



1.1.4 Click **Security credentials** > **Access keys** > **Create access key**.

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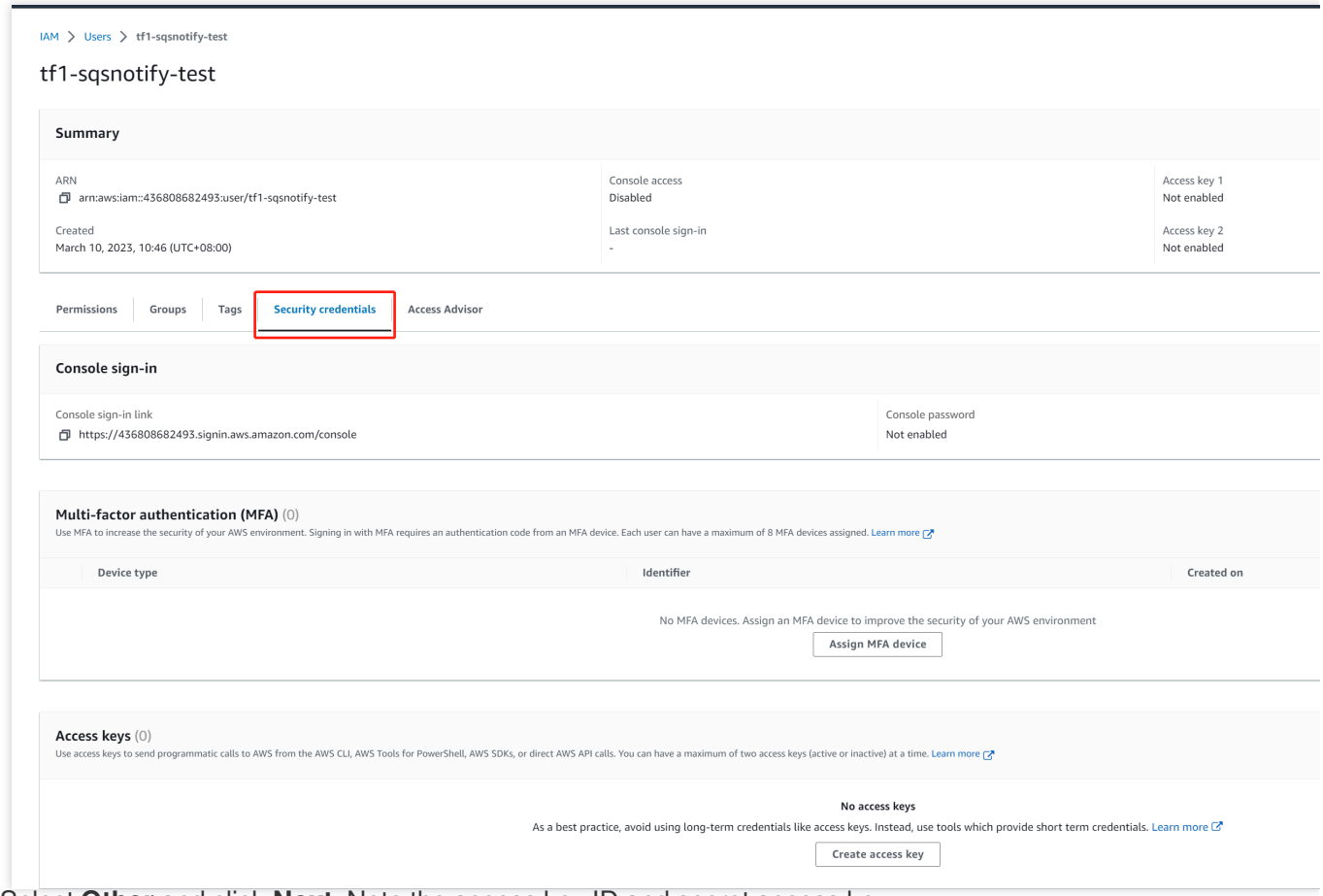

1.1.5 Select **Other** and click **Next**. Note the access key ID and secret access key.

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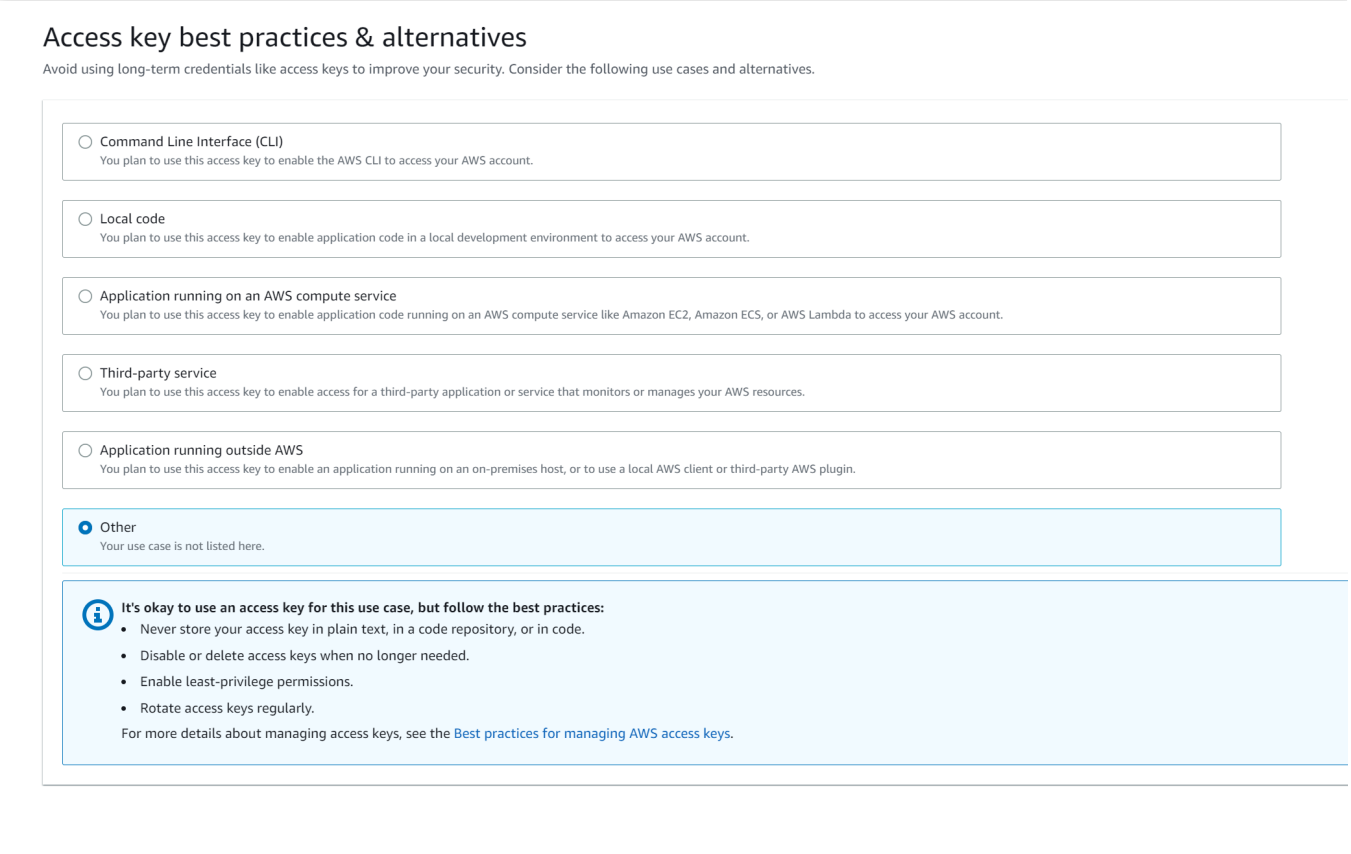
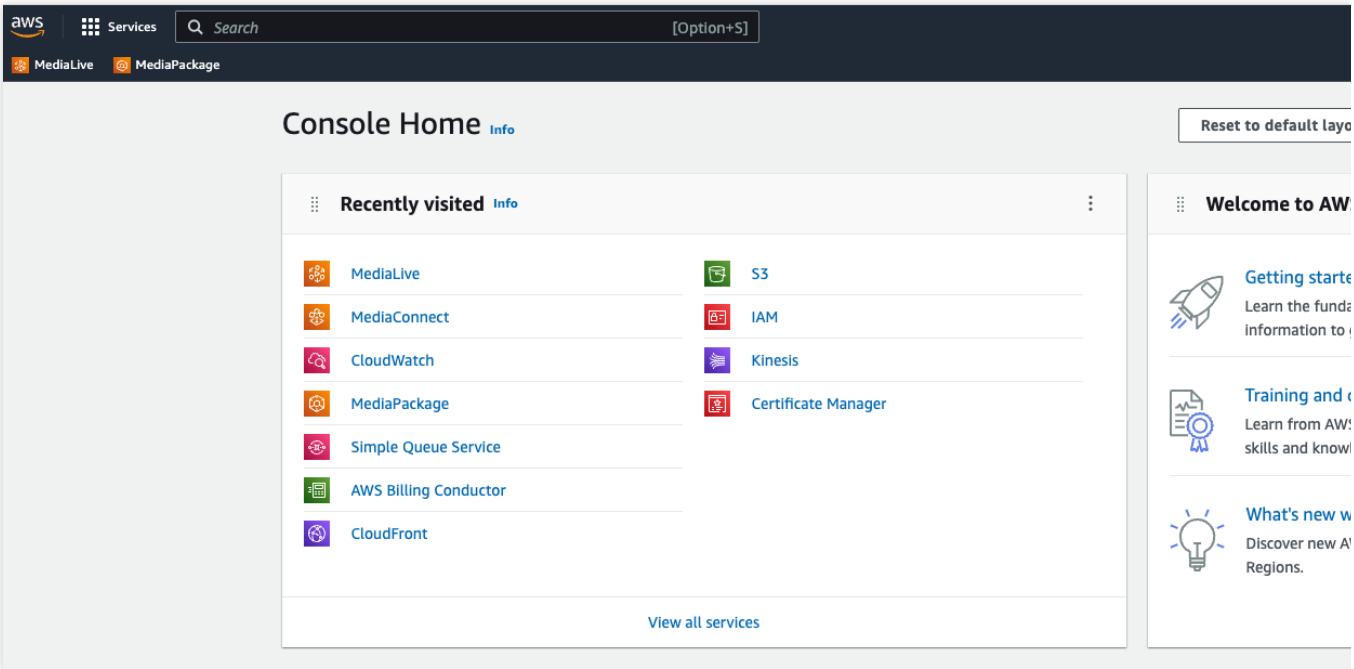


Appendix

You can view your account ID by clicking your user name in the top right corner of the console home page.



To view the ARN of an S3 bucket, go to the **Buckets** page and click **Properties**.

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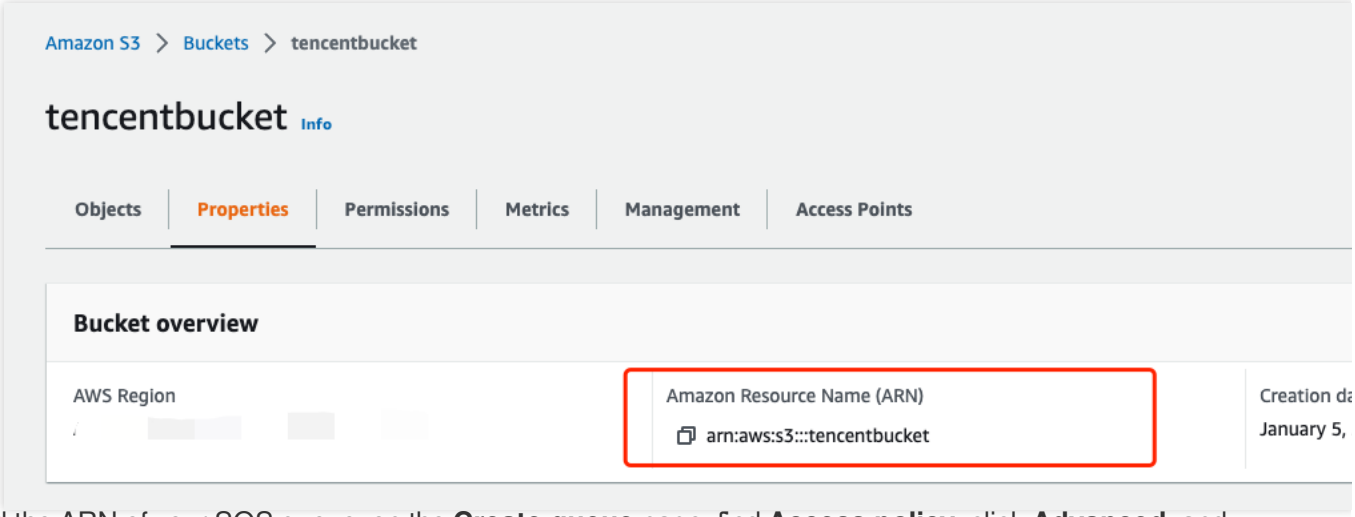
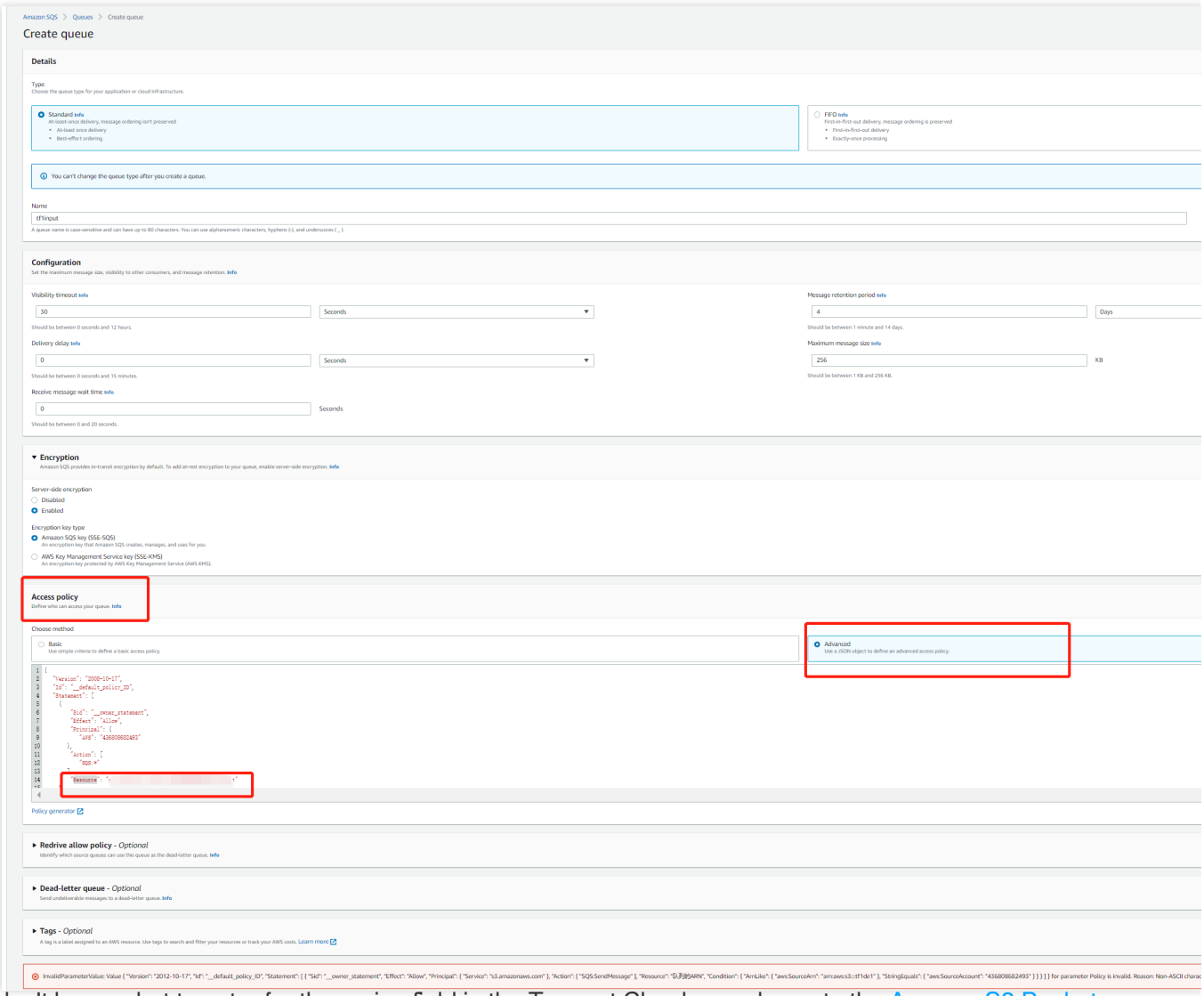


To find the ARN of your SQS queue, on the **Create queue** page, find **Access policy**, click **Advanced**, and `Resource` indicates your queue ARN.



If you don't know what to enter for the region field in the Tencent Cloud console, go to the Amazon S3 Buckets page, find your bucket, the latter half of **AWS Region** (remove the spaces) is what you should provide to Tencent Cloud.

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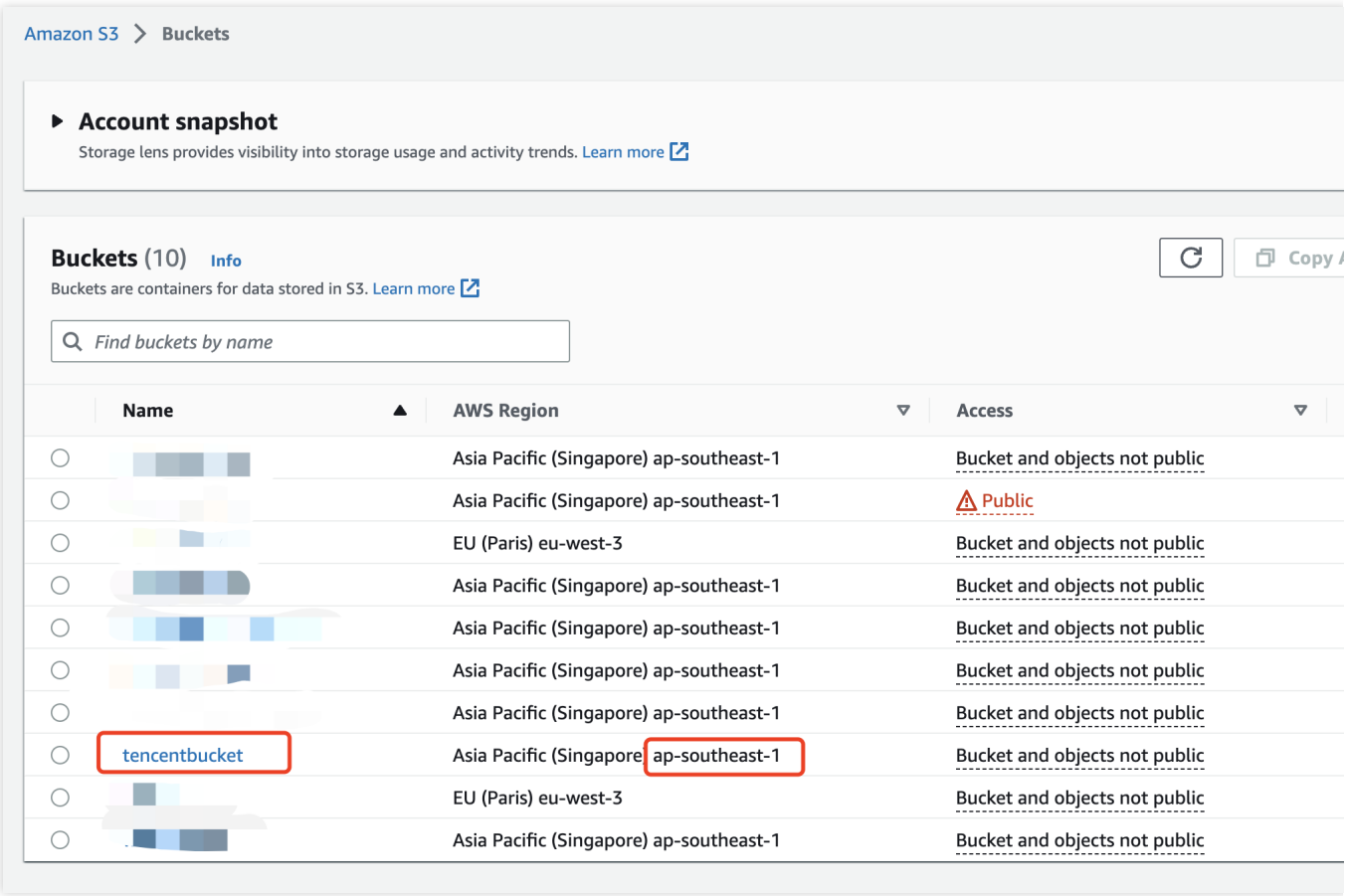
According to the screenshot below, the region you should enter for the `tencentbucket` bucket is `ap-southeast-1`.



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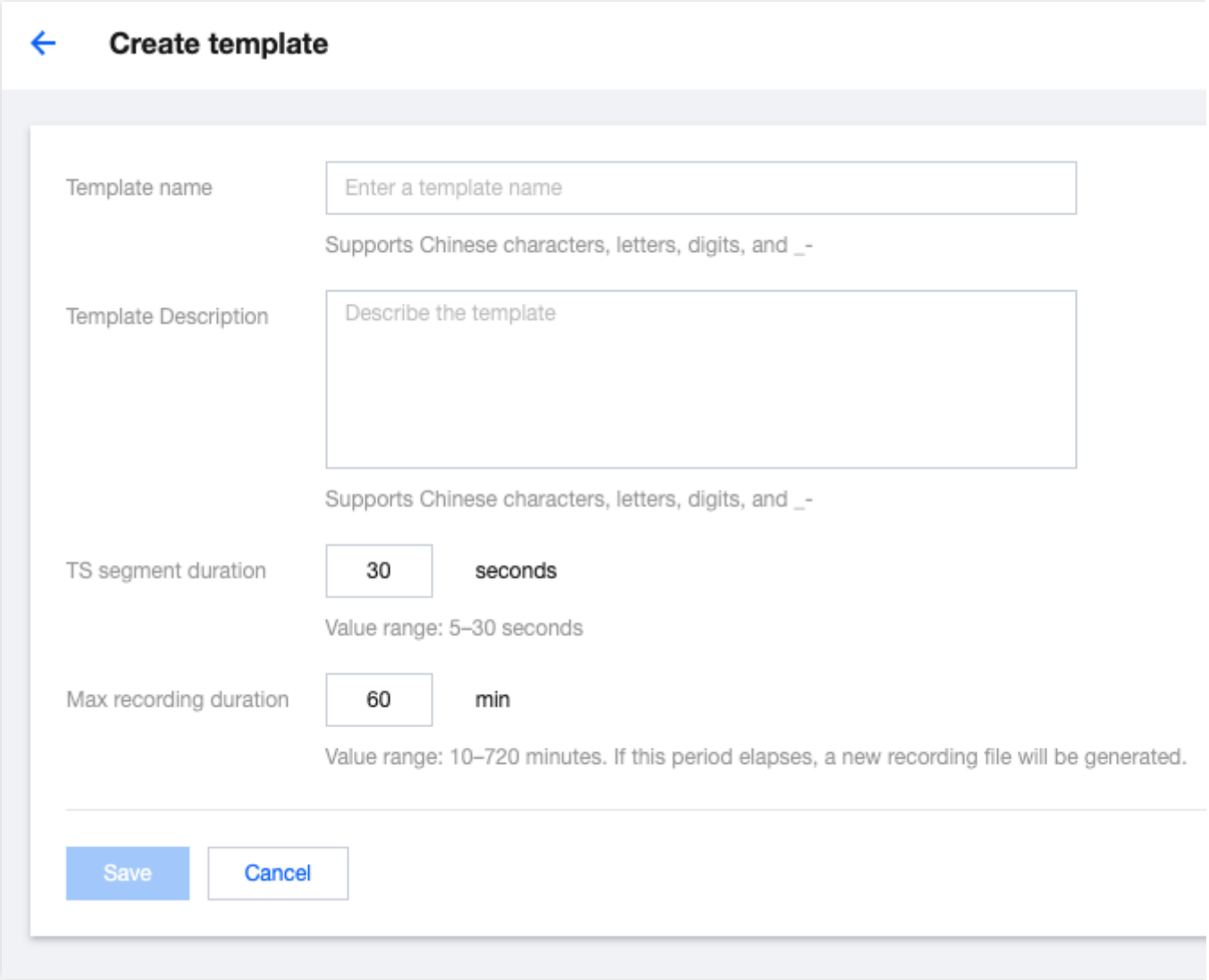
MPS live stream recording

Last updated：2023-10-09 12:45:56

With Media Processing Service (MPS), you can record live streaming content by URL.

Directions

1. On the Live Recording Templates page, create a new live recording template. The console provides a default recording template.



2. On the Live Schemes page, create a new scheme. On this page, you need to select a COS bucket and specify a directory for the output. In actions diagram below, click and add a "Live Recording" step.

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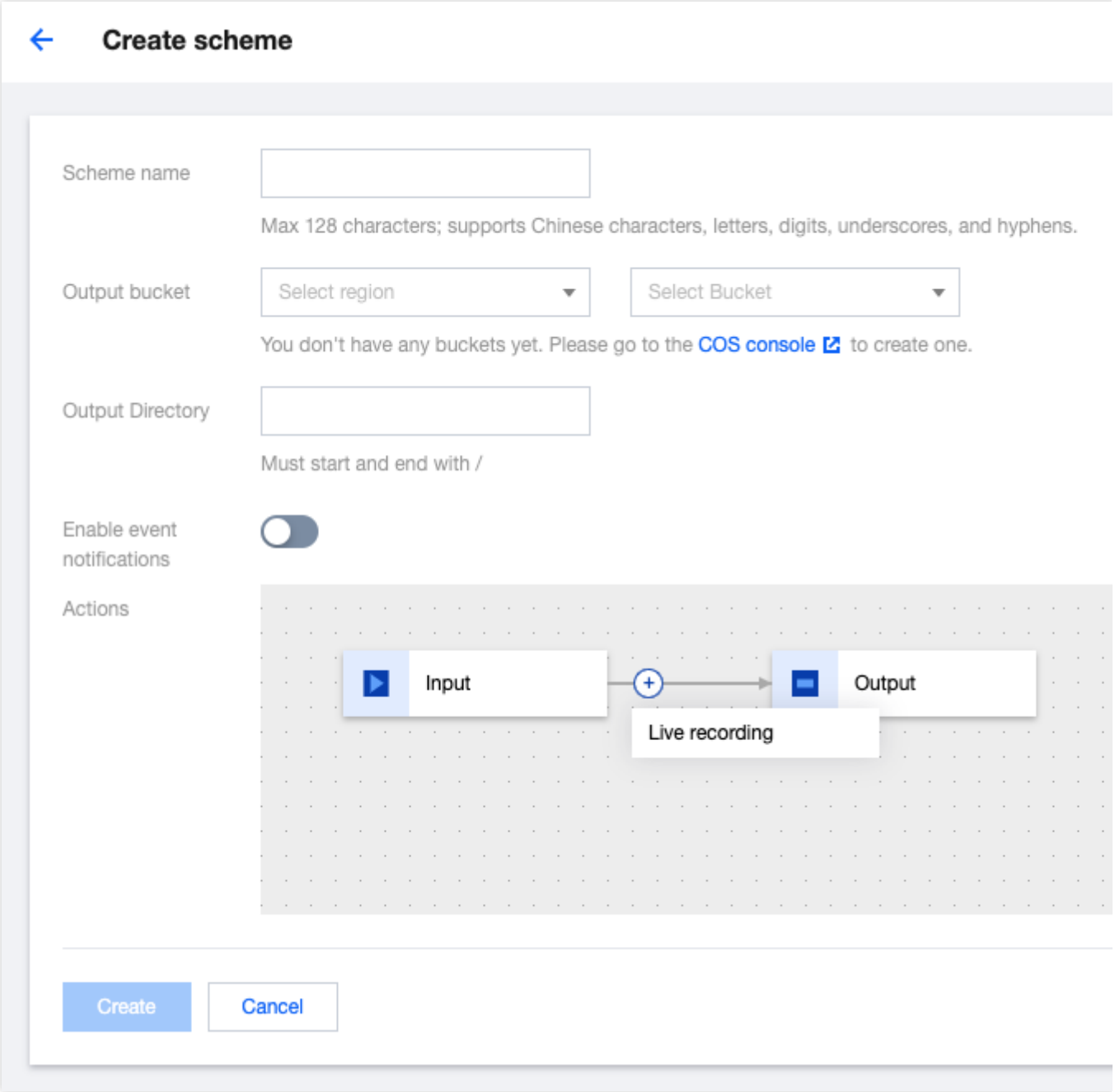

3. Click the edit button on the right side of the Live Recording step to perform detailed configuration.

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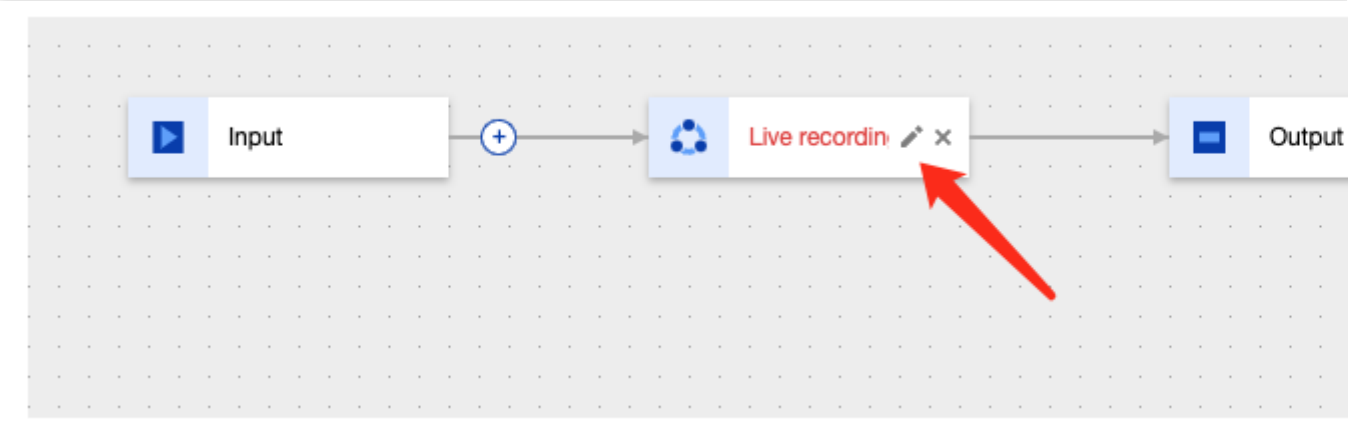
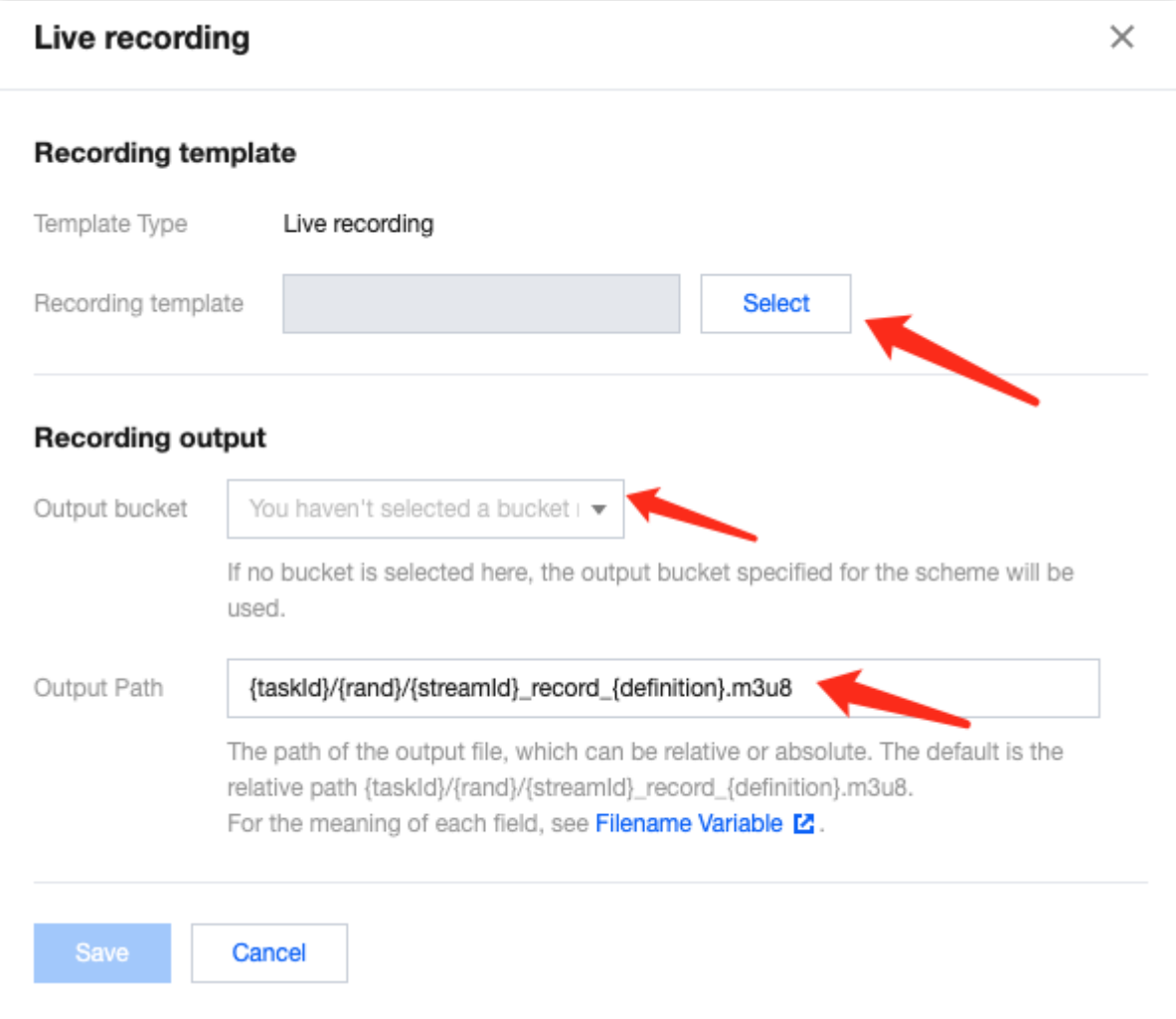


4. In the detailed configuration:

1）Select the recording template;

2）Select the output bucket;

3）Edit the output path. The path of the output file, which can be relative or absolute.



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Note：

Please note that removing the random field {rand} from the path may cause a file to be overwritten by a different file with identical field values.

5. After completing the above information, click "Create" to establish a live scheme.

6. Go to Live tasks management page and create a new task. Enter the live streaming address that needs to be recorded and select the scheme. Click "Create Task".

Note：

Please make sure that the live streaming address is filled correctly. If the live streaming fails to be pulled, it will be retried 3 times. If the live streaming still cannot be obtained, the recording task will fail

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Integration of Watermark Removal Capability

Last updated：2024-01-05 15:15:55

FAQs

What types of watermarks are supported?

This service uses AI technology to identify watermarks and and removes them. Currently, recognition and erasion of over a dozen types of watermarks are supported. For watermarks not included in our coverage, we offer personalized training services at an additional model training cost.

Does it charge for watermark-free videos?

It will also charge in this situation. This is due to the fact that even if the video is not watermarked, normal computational analysis is performed, consumping the computational resources.

Is live streaming supported?

Currently, only VOD files are supported by the external interface. For live streaming processing needs, please get in touch with the developer.

Creating template

1. Enter the MPS console, choose **Templates** > **Content Discovery** > **Content Analysis Template** > **Create template**.
2. On the **Create template** page, fill out the **Template name**, enable **Intelligent labeling** configuration, and click **Create.**

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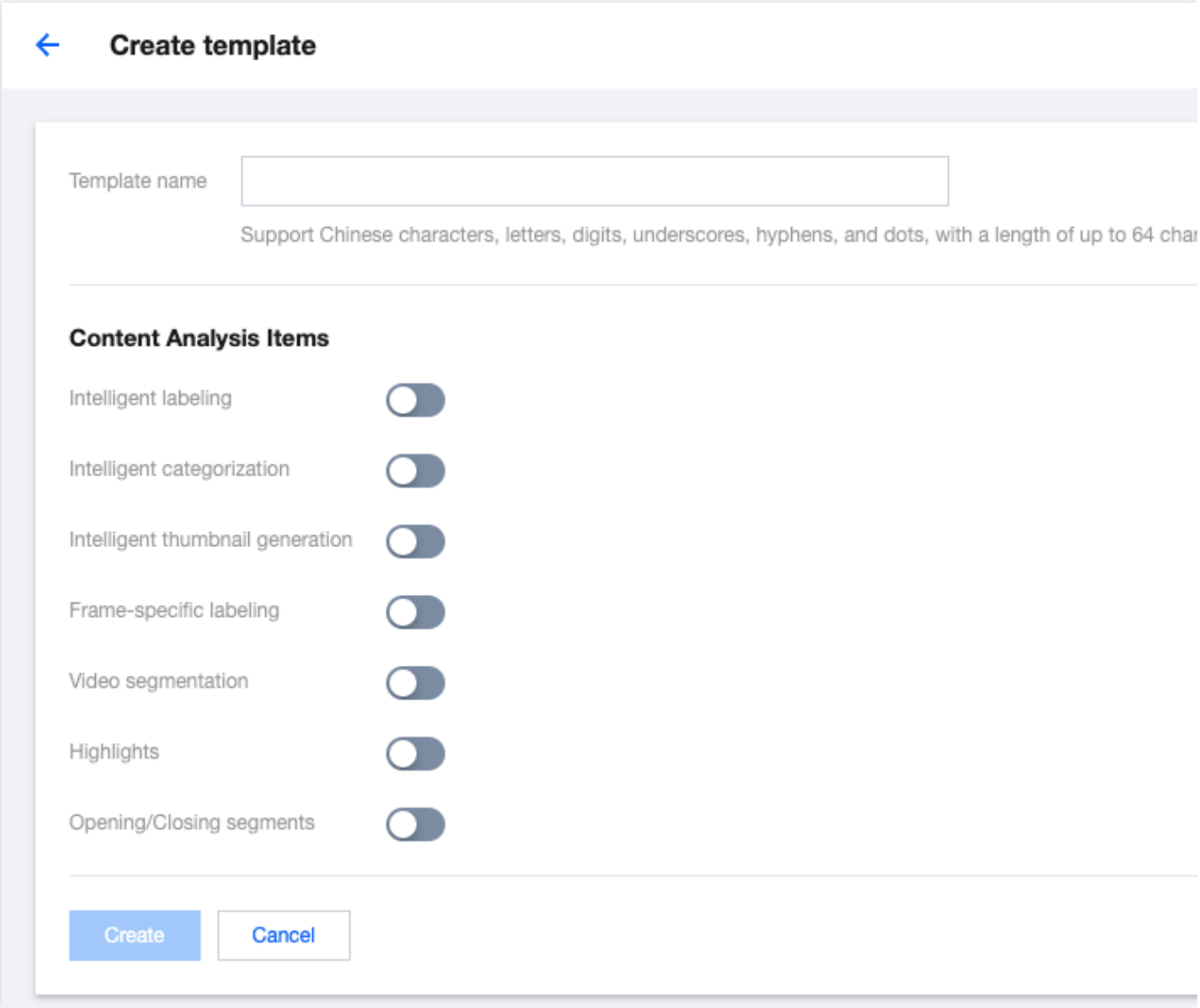

3. Synchronize the **Template ID** with Tencent Cloud Media Processing Service's developers, they will configure and enable the watermark removal feature.

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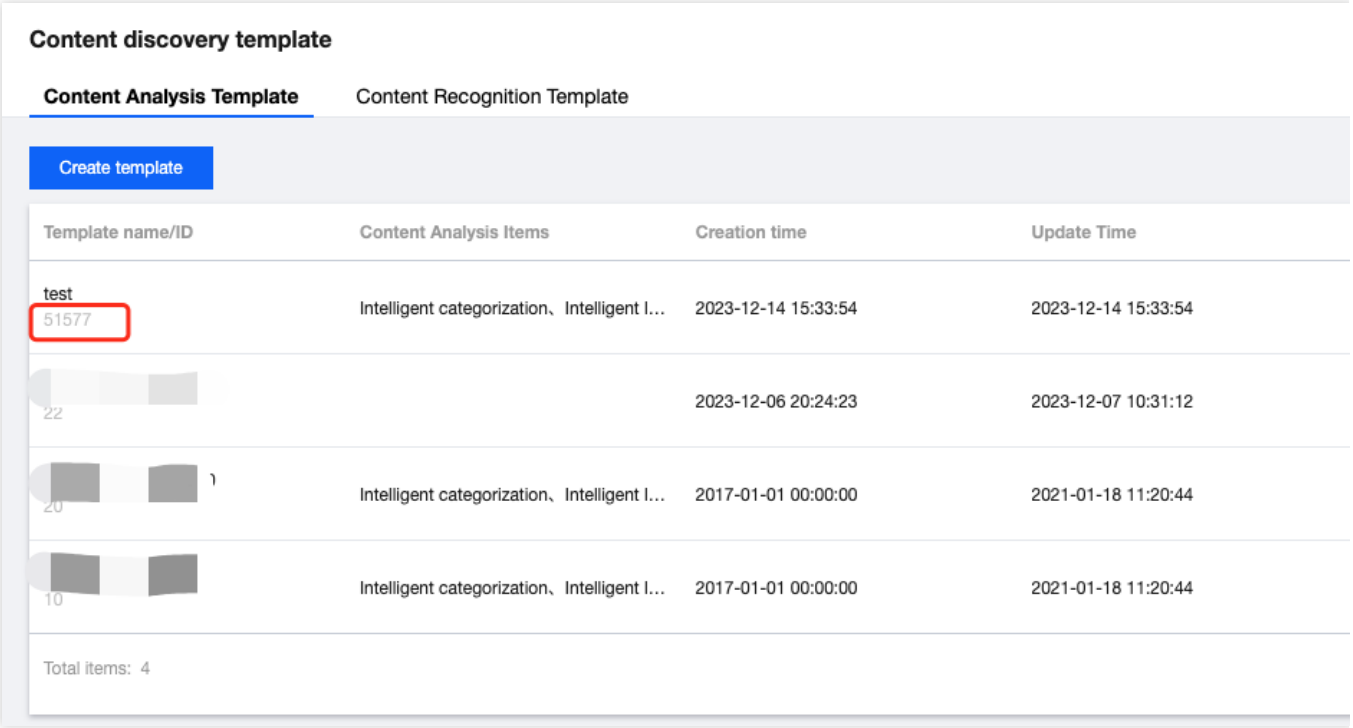

Task Processing

Method 1: Orchestration Access (Zero Code)

1. Creating Orchestration

1.1 Enter the console's VOD Schemes, click **Create VOD scheme**. Configure trigger area and output area, then select add **Content discovery** node in **Actions**.

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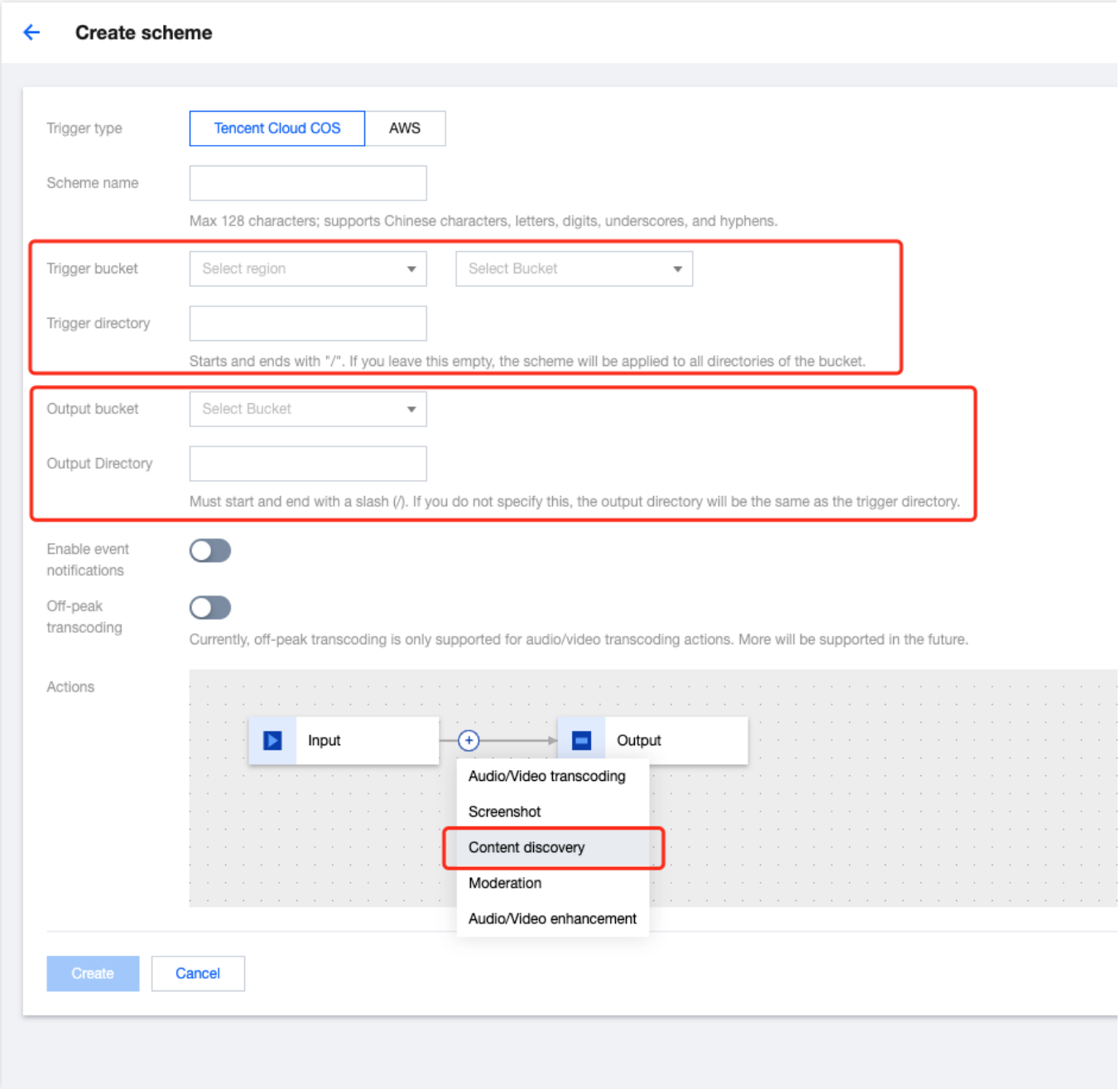

1.2 Edit the **Content discovery** node.

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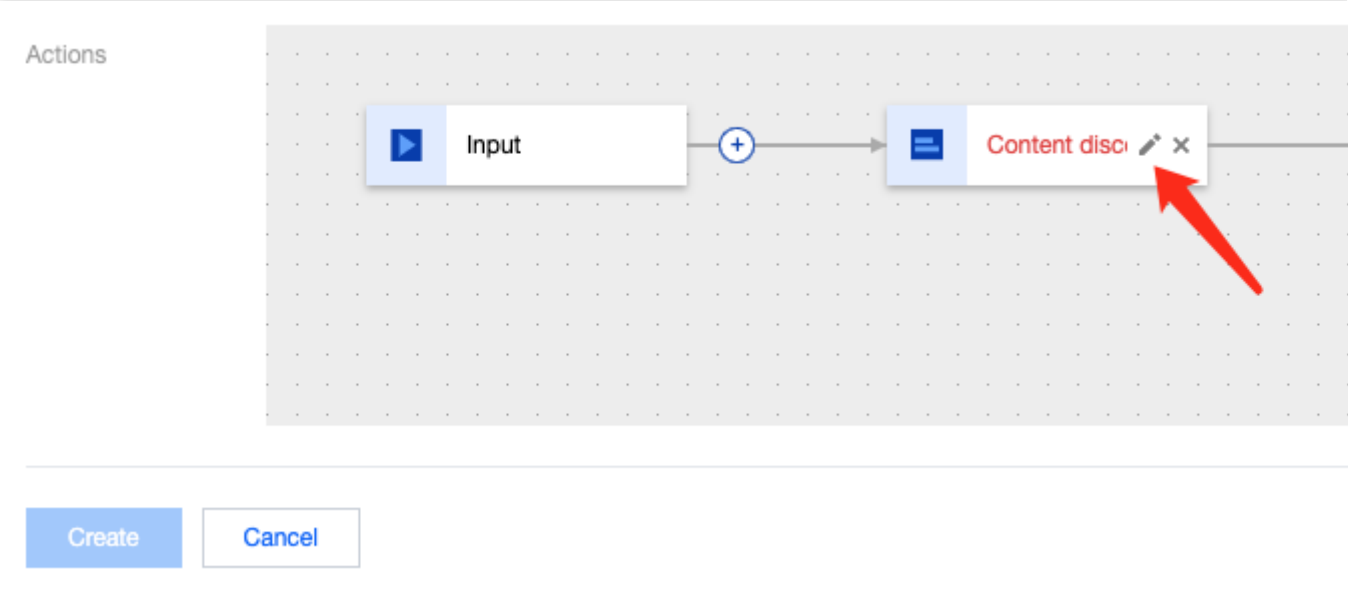

1.3 Choose **Content Analysis** for the **Template Type.** At the **Content Comprehension Template** section, click on **Select.** From the pop-up template box, select the **Content Analysis Template** name that was used during Template Creation, click **Confirm**, and finally click **Save** to complete the configuration.

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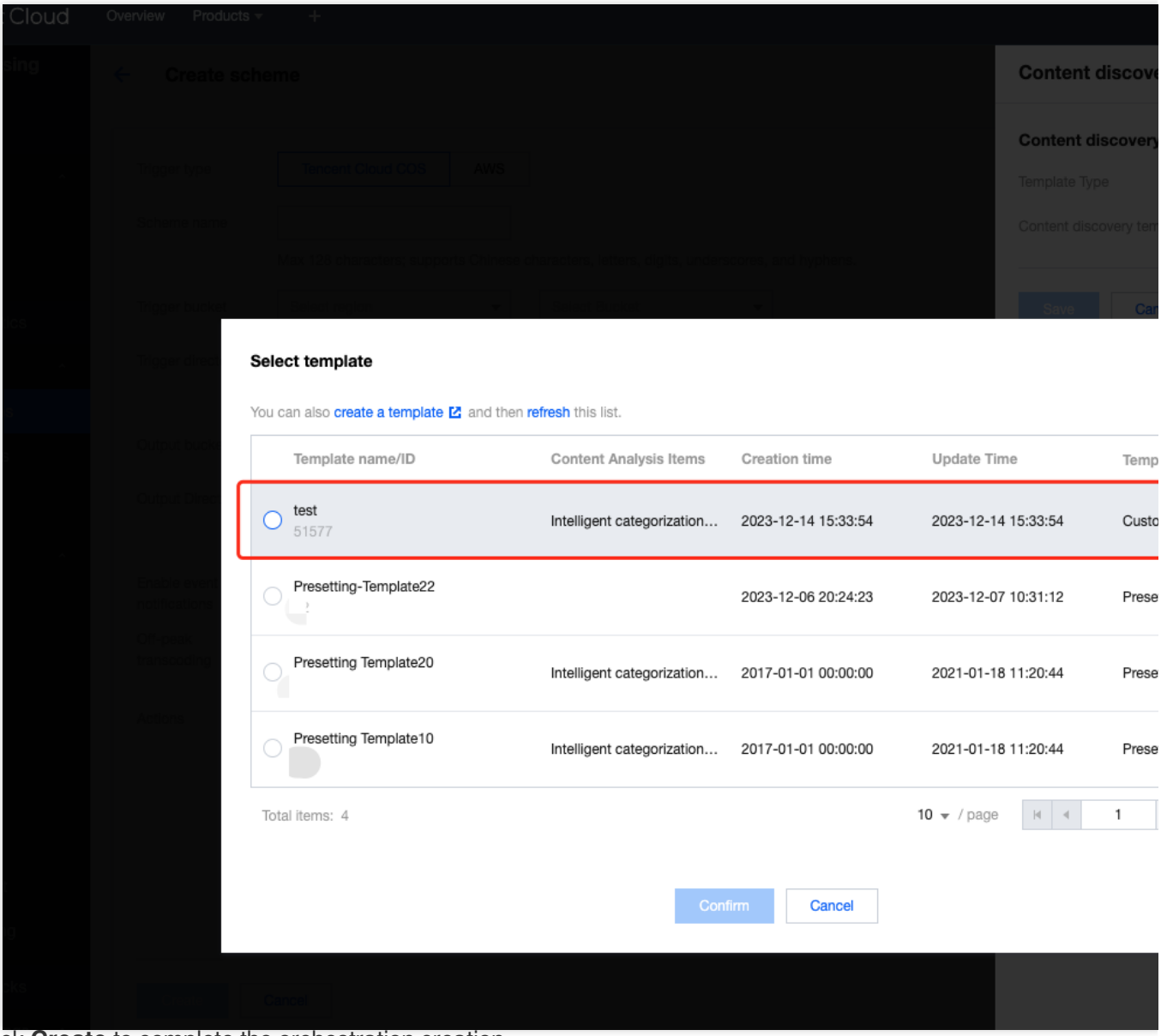

1.4 Click **Create** to complete the orchestration creation.

2. Enable Orchestration

In the VOD Service Orchestration Management list, select the orchestration that you have just created and click **Enable**.

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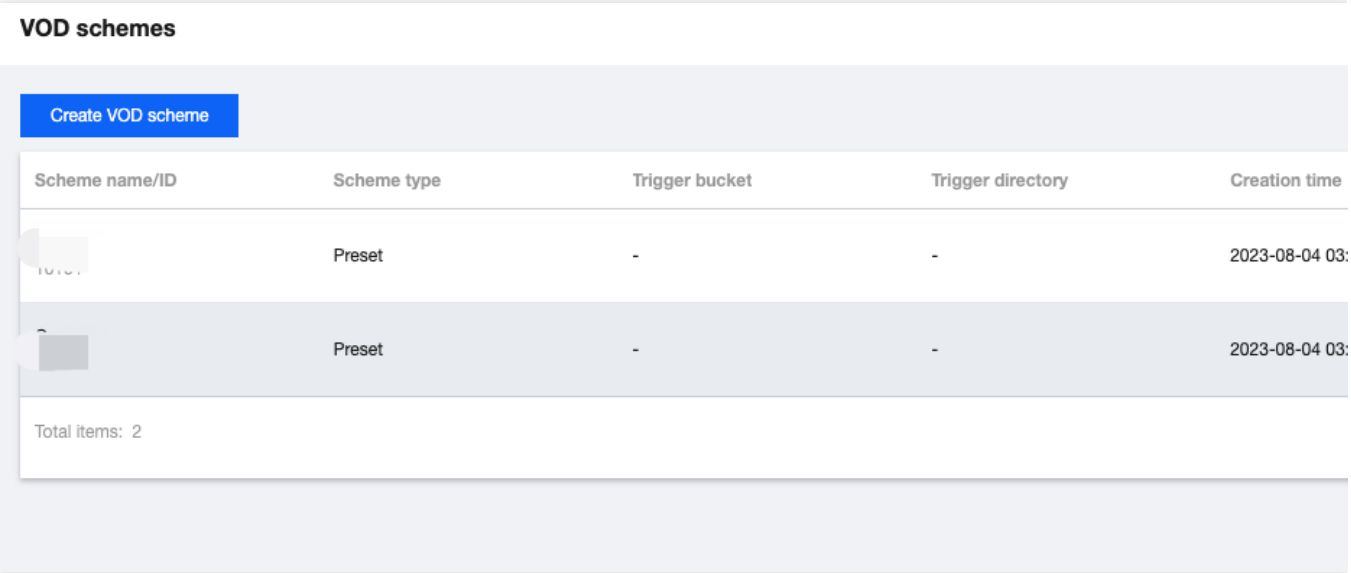

Note:

After the service orchestration is successfully enabled, it will take effect in 3~5 minutes.

3. Trigger Task

After successfully starting the orchestration, please wait for 5 minutes. Then, upload the source video that needs the watermark removed to the corresponding directory of the **Trigger directory** you just set up, and the system will automatically initiate the watermark removal task.

4. Task Query

Return to VOD tasks in the console, and the task list will display the recent tasks. If there are too many tasks, you can filter them by selecting **Content discovery** in **Task type**.

5. Result Videos

Upon successful completion of Step 4, the result video without watermark will be stored in the output area configured during the creation of Step 1. You can directly view the result video in the corresponding area in COS.

Method Two: API Integration

1. Task Initiation

After configuring the template, call the Media Processing Service interface, select the **AiAnalysisTask** task, set its **Definition** to this **template ID**, and then initiate the task.

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AiAnalysisTaskInput

AI video intelligent analysis input parameter types

Used by actions: CreateSchedule, CreateWorkflow, DescribeTaskDetail, DescribeWorkflows, ModifySchedule, Parsel
ProcessMedia, ResetWorkflow.

Name	Type	Required	Description
Definition	Integer	Yes	Video content analysis template ID.
ExtendedParameter	String	No	An extended parameter, whose value is a stringfied JSON. Note: This parameter is for customers with special requiremen offline. Note: This field may return null, indicating that no valid values

2. Task Query

Use the **TaskId** returned from the previous step to call the Query Task Detail interface to query the task processing results.

3. Task Callback

If the callback information can be set through the **TaskNotifyConfig** parameter in the task initiation interface, upon completion of the task, the callback information will relay the task results.

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