

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.

| Tencent Cloud | Overview Products - + | |
|------------------------------|--|--------|
| Serverless Cloud Function | Functions Guangzhou(0) v Namespace: default v | φ |
| Overview | Create 0 functions selected. Up to 10 functions can be deleted at the same | Selec |
| Function Service | time. | |
| ⊗ Layer | Function Name ‡ Function T Moni Function T Runtime T I Status torin Type Environment g | Descri |
| | Total items: 0 | |

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.

• Fuzzy search: search CLSSCFCOS.

| | Template Use demo template to c or application | reate a function | Custom Create a cus HelloWolrd d | stom function using demo | I | | |
|-----------|--|--|--|-----------------------------|-----------------------------|--------------------------|------|
| zy search | mps Separate multipl | e tags with carriage | e returns | | | Q | |
| | MPS_SCF_COS | Lea | arn More | MPSWebho | ookD | Learn | More |
| | Category Function | on | | Category | Function | | |
| | Description The SCF message | will write each to txt by each line | · | Description | Use cloud fu MPS informa | nctions to push tion. | |
| | Tag Pythor | 2.7 MPS CC | DS | Tag | Nodejs8.9 | MPS | |
| | Author 🔗 Tend | ent Cloud | | | Webhook | | |
| | Deploy 7,880次 | | | Author | 🔗 Tencent (| Cloud | |
| | | | | Deploy | 7,966次 | | |

Note:

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

4. Click Next.

| Create | | |
|------------------|---|--|
| | | |
| Basic Configu | rations | |
| Juoio Comigui | | |
| -unction name * | MPS_SCF_COS | |
| | It supports 2 to 60 characters, including letters, numbers, underscores and hyphens. It must start with a letter and end with a number or letter. | |
| Region * | 🔇 Guangzhou 🔻 | |
| Description * | The SCF will write each message to txt by each line. Then SCF | |
| | will name this file by time and upload this txt to COS bucket. | |
| | | |
| | | |
| | Up to 1000 letters, digits, spaces, commas, and periods. | |
| | | |
| Function Code | S Runtime: Python2.7 Execution Method: index.main_handler | |
| | | |
| Advanced Con | | |
| | | |
| | | |
| Trigger Config | urations | |
| Create a Trigger | O Custom | |
| | | |
| | | |

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.
- 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.

- 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.

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).





>? >- 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.

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.

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.

| Tencent Cloud | Overview Products | · + | |
|--|-------------------------------|--|--|
| Media Processing Service | ← Create sch | neme | |
| Overview | | | |
| Tasks | Trigger type | Tencent Cloud COS AWS | |
| Usage Statistics | Scheme name | subtitle | |
| 😪 Workflows ^ | | Max 128 characters; supports Chinese characters, letters, digits, underscores, and hyphens. | |
| Schemes | Trigger bucket | Select region Select Bucket | |
| • Buckets | Trigger directory | | |
| Templates ^ | | Starts and ends with "/". If you leave this empty, the scheme will be applied to all directories of the bucket. | |
| Audio/Video Transcoding | Output bucket | Select Bucket | |
| • Watermark | Output Directory | | |
| Screenshot | | Must start and end with a slash (/). If you do not specify this, the output directory will be the same as the trigger directory. | |
| Content Discovery | Enable event notifications | | |
| Moderation | Actions | | |
| Moderation | | Input → ■ Content disc: * × ■ Output | |
| Audio/Video Enhancement | | | |
| Resource Packs | | | |
| General Settings ^ | | | |
| Authorization | | | |
| | Create | Cancel | |
| | | | |



| Content discovery | | | | |
|----------------------------|--------------------------------|----------|--|--|
| Content discovery temp | late | | | |
| Template Type | Content Analysis O Content rec | ognition | | |
| Content discovery template | 10103-ChineseTo Chinese-Englis | Select | | |
| Save Cancel | | | | |

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.



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



Chinese subtitle sample:

```
1
   WEBVTT
 2
 3
   00:01.740 --> 00:02.700
 4
   MO.
 5
   00:12.890 --> 00:17.329
 6
 7
   One day in eighteen nineteen three thousand miles off the coast of
8
   00:17.329 --> 00:20.180
 9
10
    in one of the most remote regions of the Pacific ocean,
11
12
   00:20.180 --> 00:24.350
13
   twenty American sailors watched their ship flood with seawater.
14
15
   00:24.920 --> 00:26.360
16
   They've been struck by a sperm whale,
17
   00:26.360 --> 00:28.790
18
19
   which had brought a catastrophic hole in the ship's hull.
20
   00:29.809 --> 00:31.849
21
22
   As their ship began to sink beneath the swells,
23
24
   00:31.849 --> 00:35.599
25
   the men huddled together in three small whale boats.
26
27
   00:36.180 --> 00:36.779
28
   These men were 10,
29
30
   00:36.779 --> 00:38.310
31
   000 miles from home,
32
33
   00:38.310 --> 00:41.250
34
   more than a thousand miles from the nearest graph of land.
35
   00:42.360 --> 00:43.170
36
37
   In their small boats,
38
39
   00:43.170 --> 00:48.120
40
    they carried only rudimentary navigational equipment and limited :
```

Chinese and English subtitle sample:

1 WEBVTT 3 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 4 The presidium of Communist Party of China's 19th National Congress held its third and fourth me 5 6 7 00:25.110 --> 00:27.165 习近平同志主持会议。 8 Q Comrade Xi Jinping presided over the meeting. 10 11 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 13 The meeting adopted the draft list of candidates for members of the 19th CPC Central Committee, 1415 00:45.630 --> 01:04.694 16 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 17 It is understood that since October 21, delegations have seriously deliberated the preliminary 19 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、各条战约 21 The deputies believe that this list has gone through strict organizational procedures, fully de-22 23 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 24 25 On the afternoon of 22 October and the morning of 23 October, the Congress held plenary meeting. 26 27 02:02.360 --> 02:23.455 28 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 29 Carry on the pre-selection, the result is legal and valid. In accordance with the provisions of 02:24.339 --> 02:28.360 32 24号上午,大会将举行正式选举。 33 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:





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

🕗 Tencent Cloud

```
"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:



```
"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": "OxFFFFFF",
                    "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"
```

```
},
"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:





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

```
},
"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_eng2eng.flv

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

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".

| aws Servic | es Q Search | [Option+\$] | |
|--------------------------|--------------|---|-----------|
| Amazon S3 | × | Amazon S3 > Buckets | |
| Buckets Access Points | coore Dejete | Account snapshot Storage lens provides visibility into storage usage and activity trends. Learn more | |
| Multi-Region Acc | ess Points | Products (7) | |
| Batch Operations | t namo an | BUCKETS (7) Info Buckets are containers for data stored in S3. Learn more 7 | С Сору АК |

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.

| Bucket name | | | | |
|--------------------|-----------------------|--------------------------|------------------------------|------------------------|
| tencentbucket | | | | |
| Bucket name must b | e globally unique and | l must not contain space | es or uppercase letters. See | e rules for bucket nan |
| AWS Region | | | | |
| 5 | | | | |

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.

| Amazon S3 > Buckets > 1 | |
|---|--|
| del info | |
| Objects Properties Permissions Metrics Management Access Points | |
| | |
| Objects (3) Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory 12 to get a list of all objects in the component of the comp | n your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more Z Actions Create folder |
| □ Name ▲ | Type v Last modified |
| Input/ | Folder - |
| output/ | Folder - |
| scheduleoutput/ | Folder - |

2. Creating an SQS queue for bucket notifications

1.1 Select the queue region.

Select Singapore (ap-southeast-1).

| aws | Services Q Search [Option+S] |
|-----|---|
| = | Amazon SQS > Queues |
| | Queues (0) C Edit Delete Send and r |
| | Q Search queues by prefix |
| | Name Type Type Created Messages available Messages in flight Encryption |
| | No queues No queues available. |
| | Create queue |
| | |
| | |
| | |

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.

| Details | |
|--|---|
| Type Choose the queue type for your application or cloud infrastructure | |
| | |
| You can't change the queue type after you create a queue. | |
| | |
| | |
| | |
| Standard Info | ○ FIFO Info |
| • Standard Info At-least-once delivery, message ordering isn't preserved | FIFO Info First-in-first-out delivery, message ord |
| Standard Info At-least-once delivery, message ordering isn't preserved At-least once delivery | FIFO Info First-in-first-out delivery, message or First-in-first-out delivery |
| 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 or First-in-first-out delivery Exactly-once processing |
| 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 ord First-in-first-out delivery Exactly-once processing |
| 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 or First-in-first-out delivery Exactly-once processing |
| 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 or First-in-first-out delivery Exactly-once processing |
| Standard info At-least-once delivery, message ordering isn't preserved At-least once delivery Best-effort ordering Name | FIFO Info First-in-first-out delivery, message o First-in-first-out delivery Exactly-once processing |

| Encryption Amazon SQS provides in-transit encr | yption by default. To add at-rest encryption to your queue, enable server-side encryption. Info |
|---|---|
| Server-side encryption Disabled Enabled | |

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.





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



```
},
            "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.

| Queues (0) | | | | | CEdit | Delete |
|-----------------------------|--------|-----------|--------|----------------|----------------------|--------|
| Q Search queues by p | refix | | | | | |
| Name | ▲ Туре | ▽ Created | ⊽ Mess | ages available | ▽ Messages in flight | ⊽ Encr |
| | | | | No c | queues | |
| | | | | No queue | es available. | |
| | | | | Creat | e queue | |
| | | | | | | |

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

1.2 Enter a queue name.

| Details | | |
|--|---|---|
| Type Choose the queue type for your application or cloud infra | istructure. | |
| Standard Info At-least-once delivery, message ordering isn't pres At-least once delivery Best-effort ordering | served | FIFO Info First-in-first-out delivery, message ordering is preserved First-in-first-out delivery Exactly-once processing |
| | | |
| Name tencent_callback_sqs X queue name is case-sensitive and can have up to 80 chi | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). | |
| Name tencent_callback_sqs A queue name is case-sensitive and carrhave up to 80 chr Configuration Set the maximum message size, visibility to other consun | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). | |
| Name tencent_callback_sqs tqueue name is case-sensitive and car have up to 80 chi Configuration Set the maximum message size, visibility to other consun Visibility timeout info | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). | Message retention period Info |
| Name tencent_callback_sqs A queue name is case-sensitive and carrhave up to 80 chr Configuration Set the maximum message size, visibility to other consun Visibility timeout info 30 | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). ners, and message retention. Info Seconds | Message retention period Info |
| Name tencent_callback_sqs A queue name is case-sensitive and can have up to 80 che Configuration Set the maximum message size, visibility to other consun Visibility timeout info 30 Should be between 0 seconds and 12 hours. | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). ners, and message retention. Info Seconds | Message retention period info 4 Day Should be between 1 minute and 14 days. |
| Name tencent_callback_sqs Aqueue name is case-sensitive and can have up to 80 chi Configuration Set the maximum message size, visibility to other consun Visibility timeout info 30 Should be between 0 seconds and 12 hours. Delivery delay info | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). hers, and message retention. Info Seconds | Message retention period info 4 Day Should be between 1 minute and 14 days. Maximum message size info |
| Tencent_callback_sqs Equeve name is case-sensitive and carriave up to 80 che Configuration Set the maximum message size, visibility to other consun Visibility timeout Info 30 Should be between 0 seconds and 12 hours. Delivery delay Info 0 | arracters. You can use alphanumeric characters, hyphens (-), and underscores (_). hers, and message retention. Info Seconds Seconds Seconds | Message retention period Info 4 Day Should be between 1 minute and 14 days. Maximum message size Info 256 KB |
| Name tencent_callback_sqs A queue name is case-sensitive and can have up to 80 cha Configuration Set the maximum message size, visibility to other consun Visibility timeout info 30 Should be between 0 seconds and 12 hours. Delivery delay info 0 Should be between 0 seconds and 15 minutes. | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). ners, and message retention. Info Seconds Seconds Seconds | Message retention period Info 4 Da Should be between 1 minute and 14 days. Maximum message size Info 256 KB Should be between 1 KB and 256 KB. |
| Name tencent_callback_sqs Aqueue name is case-sensitive and can have up to 80 chi Configuration Set the maximum message size, visibility to other consun Visibility timeout Info 30 Should be between 0 seconds and 12 hours. Delivery delay Info 0 Should be between 0 seconds and 15 minutes. Receive message wait time Info | aracters. You can use alphanumeric characters, hyphens (-), and underscores (_). ners, and message retention. Info Seconds Seconds Seconds | Message retention period info 4 Day Should be between 1 minute and 14 days. Maximum message size info 256 KB Should be between 1 KB and 256 KB. |

| Encryption | |
|------------------------------|--|
| Amazon SQS provides in-trans | it encryption by default. To add at-rest encryption to your queue, enable server-side encryption. Info |
| | |
| Server-side encryption | |
| | |
| Disabled | |

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.

| Amazon S3 × | Amazon S3 > Buckets | | |
|---|--|--|-------------------------------|
| Buckets Access Points | Account snapshot Storage lens provides visibility | r into storage usage and activity trends. Learn more 🔀 | |
| Object Lambda Access Points Multi-Region Access Points Batch Operations Access analyzer for S3 | Buckets (8) Info Buckets are containers for data sto Q. Find buckets by name | ored in S3. Learn more 🔀 | C |
| Block Public Access settings for | Name | AWS Region | ▼ Access |
| | 0 | Asia Pacific (Singapore) ap-southeast-1 | |
| Storage Lens | 0 | Asia Pacific (Singapore) ap-southeast-1 | Bucket and objects not public |
| Dashboards | 0 | Asia Pacific (Singapore) ap-southeast-1 | Bucket and objects not public |
| AWS Organizations settings | 0 | Asia Pacific (Singapore) ap-southeast-1 | Bucket and objects not public |
| | 0 | Asia Pacific (Singapore) ap-southeast-1 | Bucket and objects not public |
| Feature spotlight 3 | 0 | Asia Pacific (Singapore) ap-southeast-1 | Bucket and objects not public |
| | O tencentbucket | Asia Pacific (Singapore) ap-southeast-1 | Bucket and objects not public |
| AWS Marketplace for S3 | 0 | Asia Pacific (Singapore) ap-southeast-1 | Bucket and objects not public |
| | | | |

- 1.2 Bind the bucket with the SQS queue.
- 1.2.1 Select Properties.

| encentbucket Info | | |
|--|--|---|
| Objects Properties Permissions Me | trics Management Access Points | |
| Bucket overview | | |
| AWS Region | Amazon Resource Name (ARN) | Creation date |
| | | |
| Asia Pacific (Singapore) ap-southeast-1 | arn:aws:s3:::tencentbucket | January 5, 2023, 14 |
| Asia Pacific (Singapore) ap-southeast-1 Bucket Versioning Versioning is a means of keeping multiple variants of an object both unintended user actions and application failures. Learn mo Edit | □ arn:aws:s3:::tencentbucket in the same bucket. You can use versioning to preserve, retrieve, and restore every version ore | January 5, 2023, 14: |
| Asia Pacific (Singapore) ap-southeast-1 Bucket Versioning Versioning is a means of keeping multiple variants of an object both unintended user actions and application failures. Learn mo Edit Bucket Versioning Displaced | □ arn:aws:s3:::tencentbucket in the same bucket. You can use versioning to preserve, retrieve, and restore every versioner | January 5, 2023, 14 |
| Asia Pacific (Singapore) ap-southeast-1 Bucket Versioning Versioning is a means of keeping multiple variants of an object both unintended user actions and application failures. Learn mo Edit Bucket Versioning Disabled | □ arn:aws:s3:::tencentbucket | January 5, 2023, 14: |
| Asia Pacific (Singapore) ap-southeast-1 Bucket Versioning Versioning is a means of keeping multiple variants of an object both unintended user actions and application failures. Learn mo Edit Bucket Versioning Disabled Multi-factor authentication (MFA) delete An additional layer of security that requires multi-factor authentication | □ arn:aws:s3:::tencentbucket | January 5, 2023, 14: rsion of every object stored in your Amazon sions. To modify MFA delete settings, use th |

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

| Event notifications (0) Send a notification when specific events occur in your bucket. Learn more 🔀 | | | | | |
|--|--|---|----------------|--|--|
| Name | Event types | Filters | Destination ty | | |
| | Choose | No event notifications Create event notification to be notified when a specific event occur Create event notification | S. | | |
| Amazon EventBrid | ge se Amazon EventBridge to build event-driven applications at | scale using S3 event notifications. Learn more 🔀 or see EventBridge pricing 🖸 | 2 | | |
| Send notifications to Am | azon EventBridge for all events in this bucket | | | | |

1.2.3 Enter an event name.

| General configuration | | |
|---|--|--|
| | | |
| Event name | | |
| tencent_event | | |
| vent name can contain up to 255 characters | | |
| Event name can contain up to 255 characters. Prefix - <i>optional</i> | | |
| Event name can contain up to 255 characters. Prefix - <i>optional</i> Limit the notifications to objects with key starting with specified characters. | | |
| Event name can contain up to 255 characters. Prefix - <i>optional</i> .imit the notifications to objects with key starting with specified characters. <i>images/</i> | | |
| Event name can contain up to 255 characters. Prefix - optional imit the notifications to objects with key starting with specified characters. images/ Suffix - optional | | |
| Event name can contain up to 255 characters. Prefix - optional Limit the notifications to objects with key starting with specified characters. images/ Suffix - optional Limit the notifications to objects with key ending with specified characters. | | |
| Event name can contain up to 255 characters. Prefix - optional .imit the notifications to objects with key starting with specified characters. images/ Suffix - optional .imit the notifications to objects with key ending with specified charactersipg | | |

1.2.4 Select All object create events in Event types.

| Event types Specify at least one event for which you want to can choose one or more individual events. | to receive notifications. For each group, you can choose an event type for all events, or you |
|---|---|
| Object creation | |
| All object create events s3:ObjectCreated:* | Put s3:ObjectCreated:Put |
| | Post s3:ObjectCreated:Post |
| | Copy s3:ObjectCreated:Copy |
| | Multipart upload completed s3:ObjectCreated:CompleteMultipartUpload |
| Object removal | |
| All object removal events s3:ObjectRemoved:* | Permanently deleted s3:ObjectRemoved:Delete |
| | Delete marker created s3:ObjectRemoved:DeleteMarkerCreated |
| Object restore | |
| All restore object events s3:ObjectRestore:* | Restore initiated s3:ObjectRestore:Post |
| | Restore completed s3:ObjectRestore:Completed |
| | Restored object expired s3:ObjectRestore:Delete |
| Object ACL | |
| Object ACL events s3:ObjectAcl:Put | |

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

Save changes.

| Destination |
|---|
| Before Amazon S3 can publish messages to a destination, you must grant the Amazon S3 principal the necessary permissions to call the relevant API to publish messages to an SNS topic, an SQS queue, or a Lambda function. Learn more |
| Destination Choose a destination to publish the event. Learn more △ Lambda function Run a Lambda function script based on S3 events. |
| SNS topic Fanout messages to systems for parallel processing or directly to people. |
| SQS queue Send notifications to an SQS queue to be read by a server. |
| Specify SQS queue |
| Choose from your SQS queues |
| Enter SQS queue ARN |
| SQS queue |
| tencent_queue |
| _ Q |
| tencent_queue Cancel Save cha |

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

| Que | eues (1) | | | | | | C | Edit Delete | | Send and rec |
|-----|-------------------------|----------|----------|---------------------------|---|--------------------|---|--------------------|----------|--------------|
| Q | Search queues by prefix | | | | | | | | | |
| | Name 🔺 | Туре | ∇ | Created | ▽ | Messages available | ▽ | Messages in flight | ∇ | Encryptio |
| 0 | tencent_queue | Standard | | 2023年1月05日 GMT+8 14:54:31 | | 1 | | 0 | | Disabled |

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.

| | Poli A pol | cies (" icy is an | 033) Info object in AWS that defines permissions. | | | |
|---------------------------------|---------------|-----------------------------|--|------------------|--------------------|-----------|
| Q Search IAM | Q | Filter po | licies by property or policy name and press enter. | | | < |
| Dashboard | | | | | | |
| Access management | | Poli | cy name 🗢 | Туре 🗢 | Used as 🛛 🗢 | Descript |
| User groups | | \oplus | AWSLambdaBasicExecutionRole-97aac158-b88c-4833-8c93-f49b2c0a1951 | Customer managed | None | |
| Users | | ŧ | AWSLambdaBasicExecutionRole-f3d617e0-6617-4395-b4ab-1842a6136b | Customer managed | None | |
| Roles | | Ŧ | AWSLambdaEdgeExecutionRole-fc574814-f9db-4f79-aabc-2b7c3a57dd7e | Customer managed | Permissions policy | |
| Identity providers | | Ŧ | CloudFrontRealtimeLogConfigRole-stream1_aryzap | Customer managed | Permissions policy | |
| Account settings | | Ŧ | CloudFrontRealtimeLogConfigRole-stream_aryzap | Customer managed | Permissions policy | |
| Access reports | | Ŧ | KinesisFirehoseServicePolicy-KDS-S3-swQOW-ap-southeast-1 | Customer managed | Permissions policy | |
| Access analyzer | | \oplus | KinesisFirehoseServicePolicy-KDS-S3-Yg9JB-ap-southeast-1 | Customer managed | Permissions policy | |
| Analyzers | | \oplus | tencent_policy | Customer managed | None | |
| Settings | | \oplus | AWSDirectConnectReadOnlyAccess | AWS managed | None | Provides |
| Credential report | | \oplus | AmazonGlacierReadOnlyAccess | AWS managed | None | Provides |
| Service control policies (SCPs) | | \oplus | AWSMarketplaceFullAccess | AWS managed | None | Provides |
| | | \oplus | ClientVPNServiceRolePolicy | AWS managed | None | Policy to |
| Related consoles | | \oplus | AWSSSODirectoryAdministrator | AWS managed | None | Administr |
| IAM Identity Center 🗹 New | | \oplus | AWSIoT1ClickReadOnlyAccess | AWS managed | None | Provides |
| | | Ŧ | AutoScalingConsoleReadOnlyAccess | AWS managed | None | Provides |

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









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



```
"sqs:GetQueueUrl",
                "sqs:ReceiveMessage",
                "s3:GetObjectAttributes",
                "sqs:GetQueueAttributes",
                "sqs:ListQueueTags"
            ],
            "Resource": [
                "The ARN of the SQS queue for bucket notifications",
                "The input bucket ARN + /*"
            1
        },
        {
            "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 + /*"
            ]
       }
   ]
}
```











```
"sqs:GetQueueUrl",
                "sqs:ReceiveMessage",
                "s3:GetObjectAttributes",
                "sqs:GetQueueAttributes",
                "sqs:ListQueueTags"
            ],
            "Resource": [
                "The ARN of the SQS queue for bucket notifications",
                "The input bucket ARN + /*"
            1
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
                "s3:PutObject"
            ],
            "Resource": [
                "The output bucket ARN + /*"
            1
        }
    ]
}
```

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**.



| Name* | tencent_policy | | | |
|-------------|--------------------------------|--------------------------------------|--|------|
| | Use alphanumeric and '+=,.@' o | characters. Maximum 128 characters. | | |
| Description | | | | |
| | Maximum 1000 characters. Use a | alphanumeric and '+=,.@' characters. | | |
| Summary | Q Filter | | | |
| | Service - | Access level | Resource | Requ |
| | Allow (2 of 357 services) | Show remaining 355 | | |
| | S3 | Limited: Read | BucketName string like tencentbucket, ObjectPath string like All | None |
| | SQS | Limited: Read | QueueName string like tencent_queue | None |
| Tags | | | | |
| | Кеу | | Value | |
| | | No 1 | ags associated with the resource. | |

5.2 Create an IAM user.

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

| Identity and Access Management (IAM) | × | Introducing the new Users list experience We've redesigned the Users list experience | ce e to make it easier to use. <u>Let us kno</u> | <u>w what you think</u> . | | |
|---|---|--|--|---------------------------|-------|---------|
| | | IAM > Users | | | | |
| Q Search IAM | | | | | | |
| Dashboard | | Users (2) Info An IAM user is an identity with long-ter | m credentials that is used to interact | with AWS in an account. | | |
| Access management | | Q Find users by username or access | s key | | | |
| User groups | | | | | | |
| Users | | User name | | | ∽ MFA | ▽ Passv |
| Roles | | | | | None | None |
| Policies | | | | | None | None |
| Identity providers | | | | | None | None |
| Account settings | | | | | | |

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



| Jser details | | |
|--|--|--|
| Jser name | | |
| tencent_test_use1 | | |
| he user name can have up to 64 c | haracters. Valid characters: A-2, a-z, 0-9, and + = , . () (hyphen) | |
| Provide user access to the If you're providing console acc | AWS Management Console - optional ss to a person, it's a best practice 🛃 to manage their access in IAM Identity Center. | |
| If you are creating processing procesing processing processing processing processing processing | rammatic acress through acress keys or service-specific revelentials for AWS Codeformmit or Amazon Keysnares, you can generate them after you create this IAM user. Learn more 🛛 | |

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.

| Management (IAM) | We ve redesigned the Users list experience to make it e | asier to use. <u>Let us know what you think</u> . | | | | | | | | | | | | | |
|---------------------------------|---|---|---------------|-------|--------------|--|--|--|--|--|--|--|--|--|--|
| | User created successfully | | | | | | | | | | | | | | |
| Q, Search IAM | You can view and download the user's password and en | nail instructions for signing in to the AWS Management Console. | | | | | | | | | | | | | |
| Dashboard | IAM > Users | | | | | | | | | | | | | | |
| ▼ Access management | | | | | | | | | | | | | | | |
| User groups | Users (4) Info | that is used to interact with AWS in an account | | | | | | | | | | | | | |
| Users | An international to an internative with long-term createring as | maria daed to interact with Awo in an account. | | | | | | | | | | | | | |
| Roles | Q. Find users by username or access key | | | | | | | | | | | | | | |
| Policies | | | | | | | | | | | | | | | |
| Identity providers | User name | Groups | Last activity | V MFA | Password age | | | | | | | | | | |
| Account settings | | None | 🛇 6 days ago | None | None | | | | | | | | | | |
| Access reports | | None | 8 minutes ago | None | None | | | | | | | | | | |
| Access analyzer | | None | 62 davs ago | None | None | | | | | | | | | | |
| Archive rules | | | | | | | | | | | | | | | |
| Analyzers | snotity-test | None | Never | None | None | | | | | | | | | | |
| Settings | N 1997 | | | | | | | | | | | | | | |
| Credential report | | | | | | | | | | | | | | | |
| Organization activity | N | | | | | | | | | | | | | | |
| Service control policies (SCPs) | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Related consoles | | | | | | | | | | | | | | | |
| IAM Identity Center 🖸 🛛 New | | | | | | | | | | | | | | | |
| AWS Organizations 🖸 | | | | | | | | | | | | | | | |

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



| IAM > Users > tf1-sqsnotify-test tf1-sqsnotify-test | | | | | | | |
|--|--|---|--|--|--|--|--|
| Summary | | | | | | | |
| ARN D am:aws:iam::436808682493:user/tf1-sqsnotify-test Created March 10, 2023, 10:46 (UTC+08:00) | Console access Disabled Last console sign-in - | | Access key 1 Not enabled Access key 2 Not enabled | | | | |
| Permissions Groups Tags Security credentials Access Advisor | | | | | | | |
| Console sign-in | | | | | | | |
| Console sign-in link Console https://436808682493.signin.aws.amazon.com/console | | Console password Not enabled | | | | | |
| Multi-factor authentication (MFA) (0) Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA | device. Each user can have a maximum of 8 MFA devices assigned. I | earn more 🗗 | | | | | |
| Device type | Identifier | | Created on | | | | |
| | No MFA devices. Assign an MFA device to in Assign M | prove the security of your AWS environment | | | | | |
| Access keys (0) Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS AP | PI calls. You can have a maximum of two access keys (active or inacti | ve) at a time. Learn more 🍞 | | | | | |
| As a best pr | No acc ractice, avoid using long-term credentials like access keys. Create a | ess keys Instead, use tools which provide short term credentials. I ccess key | Learn more 🗗 | | | | |

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



| You plan to use this access k | (CLI) y to enable the AWS CLI to access your AWS account. | |
|--|---|--|
| Local code | | |
| You plan to use this access k | y to enable application code in a local development environment to access your AWS account. | |
| Application running on a | n AWS compute service | |
| You plan to use this access k | y to enable application code running on an AWS compute service like Amazon EC2, Amazon ECS, or AWS Lambda to access your AWS account. | |
| O Third-party service | | |
| You plan to use this access k | y to enable access for a third-party application or service that monitors or manages your AWS resources. | |
| Application running out | de AWS | |
| You plan to use this access k | y to enable an application running on an on-premises host, or to use a local AWS client or third-party AWS plugin. | |
| • Other | | |
| Your use case is not listed he | e. | |
| It's okay to use an a | cess key for this use case, but follow the best practices: | |
| Never store your | ccess key in plain text, in a code repository, or in code. | |
| Disable or delete | ccess keys when no longer needed. | |
| Enable least-privi | 2ge permissions. | |
| | | |

Appendix

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

| aws iiii Services Q Search Image: Service servi | | [Option+S] | |
|---|---------------------------------------|--|-----------------------|
| | Console Home Info | | Reset to default layo |
| | ii Recently visited Info | | : Welcome to AW |
| | 8 MediaLive | 5 3 | Getting starte |
| | CloudWatch | IAM Kinesis | information to |
| | MediaPackage Simple Queue Service | Certificate Manager | Learn from AW! |
| | AWS Billing Conductor CloudFront | | What's new w |
| | Vie | w all services | 날 Regions. |

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

| Amazon S3 > Buckets > tencentbucket | |
|---|---------------------------|
| tencentbucket Info | |
| Objects Properties Permissions Metrics Management Access Points | |
| Bucket overview | |
| AWS Region Amazon Resource Name (ARN) | Creation da January 5, |

To find the ARN of your SQS queue, on the Create queue page, find Access policy, click Advanced, and

Resource indicates your queue ARN.

| mazon SQS > Queues > Create queue | | | | |
|--|-----------------------------|---|---|------|
| reate queue | | | | |
| | | | | |
| Details | | | | |
| Type | | | | |
| Choose the queue type for your application or cloud infrastructure. | | | | |
| O Standard Info | | | O RFO Info | |
| At-least-once delivery, message ordering isn't preserved • At-least once delivery | | | First-in-first-out delivery, message ordering is preserved • Tirst-in-first-out delivery | |
| Best-effort ordering | | | Exactly-once processing | |
| | | | | |
| You can't change the queue type after you create a queue. | | | | |
| | | | | |
| łame | | | | |
| tflinput | | | | |
| A queue name is case-sensitive and can have up to BO characters. You can use alphanameric characters, hypheni | (-), and underscores (_). | | | |
| | | | | |
| Configuration | | | | |
| et the maximum message size, visibility to other consumers, and message retention. lefo | | | | |
| fisibility timeout w/o | | | Message retention period w/o | |
| 30 | Seconds | Ŧ | 4 | Days |
| hould be between 0 seconds and 12 hours. | | | Should be between 1 minute and 14 days. | |
| Delivery delay Info | | | Maximum message size Info | |
| 0 | Seconds | v | 256 | КВ |
| hould be between 0 seconds and 15 minutes. | | | Should be between 1 KB and 256 KB. | |
| Invoice measure will time tota | | | | |
| | Aunt | | | |
| 0 | Seconds | | | |
| shoua de derween o ana 20 seconas. | | | | |
| Amazon SQS key (SSE-SQS) An encryption key that Amazon SQS creates, manages, and uses for you. A NMS Key Management Service key (SSE-KMS) An encryption key protected by NWS Key Management Service (XWS KMS). | | | | |
| Access policy | | | | |
| Jefine who can access your queue. Info | | | | |
| Choose method | | | | |
| Basic | | | Advanced | |
| use simple united to verifie a weak alues pointy. | | | Use a Journ ougen to benne an abhanceo access policy. | |
| 1 { 2 [Version]: [2008-10-17], | | | | |
| 3 "Id": "default_policy_ID", 4 "Statement": [| | | | |
| 5 (6 Sidi: Comer statement) | | | | |
| T 'Effect': 'Allow', | | | | |
| 9 (AV8": "436506622493" | | | | |
| 10 "Action": [| | | | |
| 12 928 * 13 1 | | | | |
| 14 Resource's fr th | | | | |
| | | | | |
| Policy generator 🛃 | | | | |
| | | | | |
| Redrive allow policy - Optional | | | | |
| reenvry www.nseurce quebes can use this queue as the dead-retter queue. Into | | | | |
| | | | | |
| Dead-letter queue - Optional Send undeliverable messages to a dead-letter queue. Info | | | | |
| | | | | |
| The Orthogo | | | | |
| Tags - Optional A tag is a label assigned to an AWS resource. Use tags to search and filter your resources or track your AWS or | sus. Learn more 🗹 | | | |
| | | | | |
| | | | | |
| | | | | |

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.



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

| nazon S3 〉 Bucke | ts | | | |
|--|--|----------------------------|-----------------------|----------|
| Account sna Storage lens provi | pshot des visibility into storage usage and activity tre | nds. Learn more 🔀 | | |
| Buckets (10) Buckets are containers | Info for data stored in S3. Learn more 🔀 y name | | | С Сору |
| Name | ▲ AWS Regio | n | | ∇ |
| 0 | Asia Pacific | (Singapore) ap-southeast-1 | Bucket and objects no | t public |
| 0 | Asia Pacific | (Singapore) ap-southeast-1 | A Public | |
| 0 | EU (Paris) e | ı-west-3 | Bucket and objects no | t public |
| 0 | Asia Pacific | (Singapore) ap-southeast-1 | Bucket and objects no | t public |
| 0 | Asia Pacific | (Singapore) ap-southeast-1 | Bucket and objects no | t public |
| 0 | Asia Pacific | (Singapore) ap-southeast-1 | Bucket and objects no | t public |
| 0 | Asia Pacific | (Singapore) ap-southeast-1 | Bucket and objects no | t public |
| tencentbul | cket Asia Pacific | (Singapore ap-southeast-1 | Bucket and objects no | t public |
| 0 | EU (Paris) e | ı-west-3 | Bucket and objects no | t public |
| 0 | Asia Pacific | (Singapore) ap-southeast-1 | Bucket and objects no | t public |

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.

| Template name | Enter a template name |
|------------------------|---|
| | Supports Chinese characters, letters, digits, and |
| Template Description | Describe the template |
| | Supports Chinese characters, letters, digits, and |
| TS segment duration | 30secondsValue range: 5–30 seconds |
| Max recording duration | 60 min Value range: 10–720 minutes. If this period elapses, a new recording file will be gener |

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.

| Scheme name | | | |
|----------------------------|-------------------------------------|---------------------------------------|----------------------|
| | Max 128 characters; supports Chin | ese characters, letters, digits, uno | lerscores, and hyphe |
| Output bucket | Select region | Select Bucket | v |
| | You don't have any buckets yet. Ple | ease go to the COS console 🗹 to | create one. |
| Output Directory | | | |
| | Must start and end with / | | |
| Enable event notifications | | | |
| Actions | | | |
| | | | |
| | Input | | utput |
| | Input | + C | butput |
| | Input | Live recording | Putput |
| | Input | +→ ■ C | utput |
| | Input | + C | utput |
| | Input | ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | utput |

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.

| Live record | ing | \times |
|----------------|---|----------|
| Recording te | emplate | |
| Template Type | Live recording | |
| Recording temp | olate Select | |
| Recording ou | utput | |
| Output bucket | You haven't selected a bucket I - | |
| | If no bucket is selected here, the output bucket specified for the scheme will be used. | |
| Output Path | {taskId}/{rand}/{streamId}_record_{definition}.m3u8 | |
| | The path of the output file, which can be relative or absolute. The default is the relative path {taskId}/{rand}/{streamId}_record_{definition}.m3u8. For the meaning of each field, see Filename Variable Z. | |
| Save | Cancel | |



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

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**.

| Template name Support Chine | ese characters, letters, digits, underscores, hyphens, and dots, with a length of up to |
|----------------------------------|---|
| Content Analysis Items | |
| Intelligent labeling | |
| Intelligent categorization | |
| Intelligent thumbnail generation | |
| Frame-specific labeling | |
| Video segmentation | |
| Highlights | |
| Opening/Closing segments | |

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

| Content discovery template | | | |
|----------------------------|---|---------------------|---------------------|
| Content Analysis Template | Content Recognition Template | | |
| Create template | | | |
| Template name/ID | Content Analysis Items | Creation time | Update Time |
| test 51577 | Intelligent categorization、Intelligent I | 2023-12-14 15:33:54 | 2023-12-14 15:33:54 |
| 22 | | 2023-12-06 20:24:23 | 2023-12-07 10:31:12 |
| 20 | Intelligent categorization、 Intelligent I | 2017-01-01 00:00:00 | 2021-01-18 11:20:44 |
| 10 | Intelligent categorization、Intelligent I | 2017-01-01 00:00:00 | 2021-01-18 11:20:44 |
| Total items: 4 | | | |

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**.

| 🔗 Tencent Cloud |
|-----------------|
|-----------------|

| nggor gpo | Tencent Cloud COS | AWS | | | | |
|---|---|-----------------|--|--------------------------|--------------------------|-------|
| Scheme name | | | | | | |
| | Max 128 characters; support | rts Chinese c | haracters, letters, digits, undersco | res, and hyphens. | | |
| Frigger bucket | Select region | • | Select Bucket | • | | |
| frigger directory | | | | | | |
| | Starts and ends with "/". If y | /ou leave thi: | empty, the scheme will be applied | to all directories of th | e bucket. | |
| Output bucket | Select Bucket | • | | | | |
| Output Directory | | | | | | |
| | | ash (A lf voi | | aton will be the enne | as the trigger directo | |
| | Must start and end with a sl | asiry). Ir you | do not specify this, the output dir | ectory will be the same | as the trigger direction | ory. |
| Enable event notifications | Must start and end with a sl | aan (). It you | do not specify this, the output dir | ectory will be the same | r as the trigger direct | ory. |
| Enable event notifications Off-peak | Must start and end with a sl | asi (j. ii yot | do not specify this, the output dir | ectory will be the same | as the trigger direct | ory. |
| Enable event notifications Off-peak Iranscoding | Must start and end with a sl | ing is only st | do not specify this, the output dir | ng actions. More will b | e supported in the fu | ture. |
| Enable event notifications Off-peak transcoding Actions | Must start and end with a sl | ling is only s | do not specify this, the output dir | ng actions. More will b | e supported in the fu | ture. |
| Enable event notifications Off-peak transcoding Actions | Must start and end with a sl | ling is only su | Ipported for audio/video transcodi | ng actions. More will b | e supported in the fu | ture. |
| Enable event notifications Off-peak transcoding Actions | Must start and end with a si Currently, off-peak transcool | ling is only si | do not specify this, the output dir ipported for audio/video transcodi + Output Audio/Video transcoding | ng actions. More will b | e supported in the fu | ture. |
| Enable event notifications Off-peak transcoding Actions | Must start and end with a sl | ling is only si | to not specify this, the output dir upported for audio/video transcodi + Output Audio/Video transcoding Screenshot | ng actions. More will b | e supported in the fu | ture. |
| Enable event notifications Off-peak transcoding Actions | Must start and end with a sl | ling is only si | to not specify this, the output dir upported for audio/video transcodi + Output Audio/Video transcoding Screenshot Content discovery | ng actions. More will b | e supported in the fu | ture. |
| Enable event notifications Off-peak transcoding Actions | Must start and end with a sl | ling is only s | do not specify this, the output dir pported for audio/video transcodi + Output Audio/Video transcoding Screenshot Content discovery Moderation | ng actions. More will b | e supported in the fu | ture. |

1.2 Edit the **Content discovery** node.

| | | ut | Cor | itent disci / X | |
|--|--|------|---------|-----------------|--|
| | | | | | |
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| | | | | | |
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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.

| Cloud | Overview Products | * + | | | | |
|-------|-------------------------------|--------------------------------------|---|--|--------------------------------------|----------------------------------|
| sing | | | | | Content | discove |
| | | | | | Content Template T Content dis | discovery ype scovery terr |
| ics | Trigger bucket | Select template | resse characters, letters, digits, unders | v konstruktionen van de service d | Save | Car |
| S | | fou can also create a template 🗹 and | d then refresh this list. | | | |
| S | Output bucks | Template name/ID | Content Analysis Items | Creation time | Update Time | Temp |
| | Output Direc | O test 51577 | Intelligent categorization | 2023-12-14 15:33:54 | 2023-12-14 15:33:54 | Custo |
| | Enable event notifications | Presetting-Template22 | | 2023-12-06 20:24:23 | 2023-12-07 10:31:12 | Prese |
| | Un-pages transcoding | Presetting Template20 | Intelligent categorization | 2017-01-01 00:00:00 | 2021-01-18 11:20:44 | Prese |
| | Actions | Presetting Template10 | Intelligent categorization | 2017-01-01 00:00:00 | 2021-01-18 11:20:44 | Prese |
| | | Total items: 4 | | | 10 🔻 / page 🛛 🖼 🔌 | 1 |
| 9 | | | Conf | irm Cancel | | |
| oks | | Cancel | | | | |

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**.

| VOD schemes | | | | |
|-------------------|-------------|----------------|-------------------|----------------|
| Create VOD scheme | | | | |
| Scheme name/ID | Scheme type | Trigger bucket | Trigger directory | Creation time |
| 10101 | Preset | | - | 2023-08-04 03: |
| Î | Preset | | - | 2023-08-04 03: |
| Total items: 2 | | | | |
| | | | | |

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.

AiAnalysisTaskInput

Al video intelligent analysis input parameter types

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

| Name | Туре | 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 requirement 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.