ApsaraVideo Live

Quick Start

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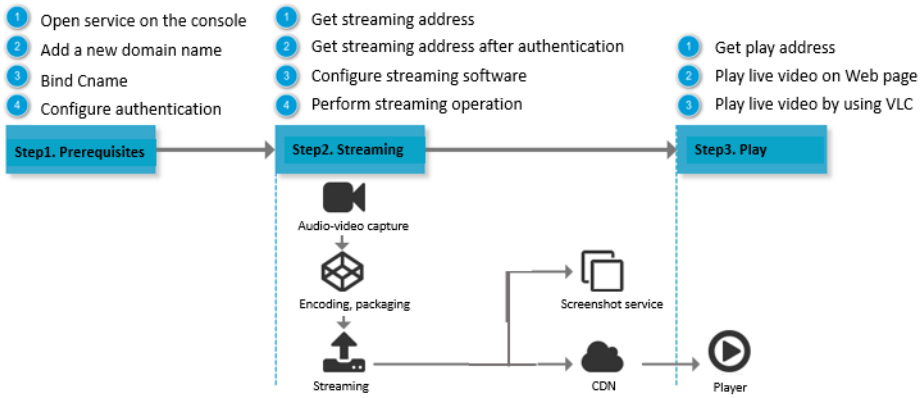
Quick Start

Live activity procedure



Both streaming and playing operations are performed at the PC end. For streaming opeartion at the mobile end, refer to Android streaming and iOS streaming. For playing at the mobile end, refer to Android playing and iOS playing.

Step 1: Preparation

Prerequisites

Your domain name has completed the website record-filing.

To begin a live activity, you need streaming tools to upload the live video, and playing tools to pull the live video.

Procedure

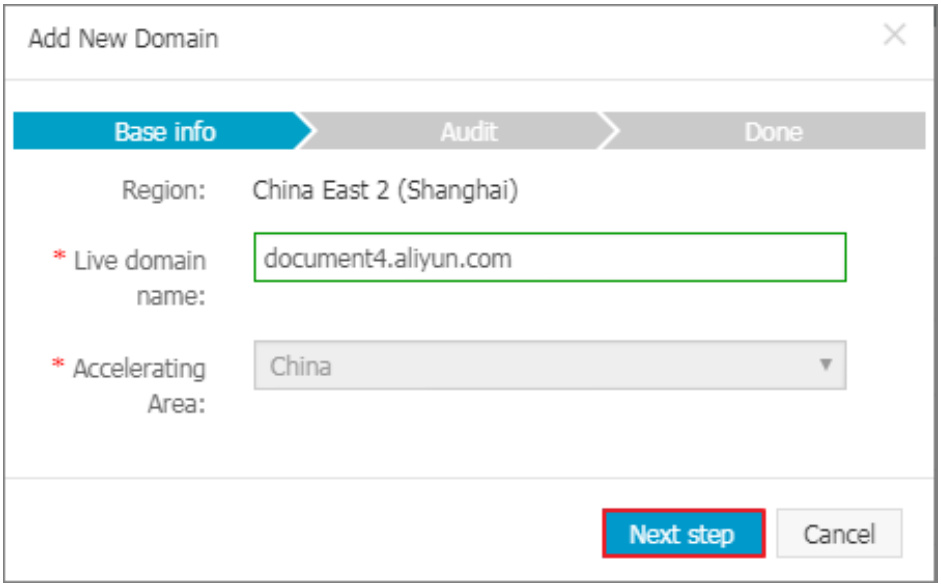
Log on to the ApsaraVideo Live console.

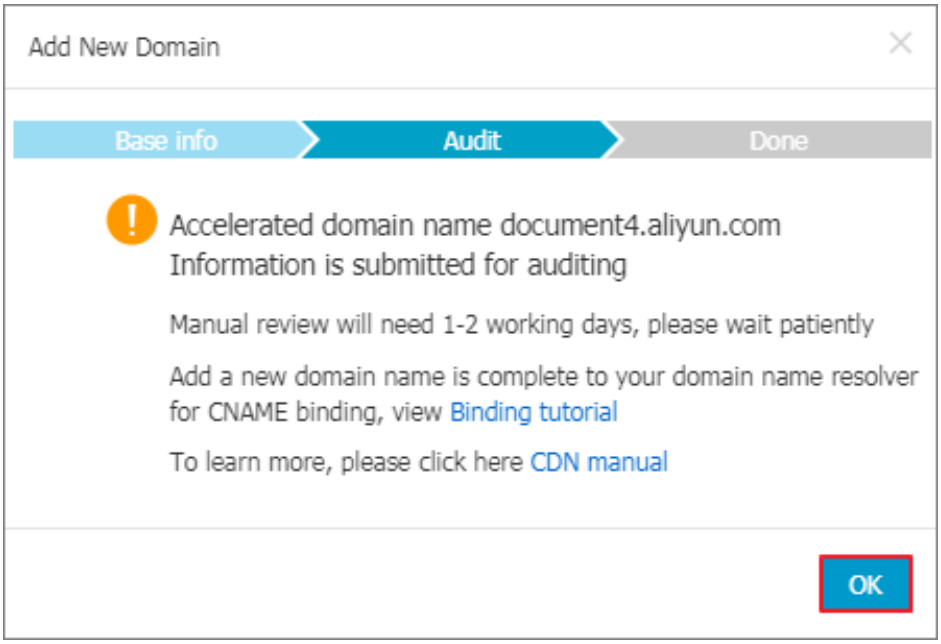
The console checks the activation status of services on which the product is dependent. Follow the instructions on the page for operations.

Add a live video domain name.

Select a region, and click **Add New Domain**.

Enter the **Live domain name**, and click **Next step**.





We recommend the domain name for live video completes ICP record filing before it is readied for use. See Record filing process for details.

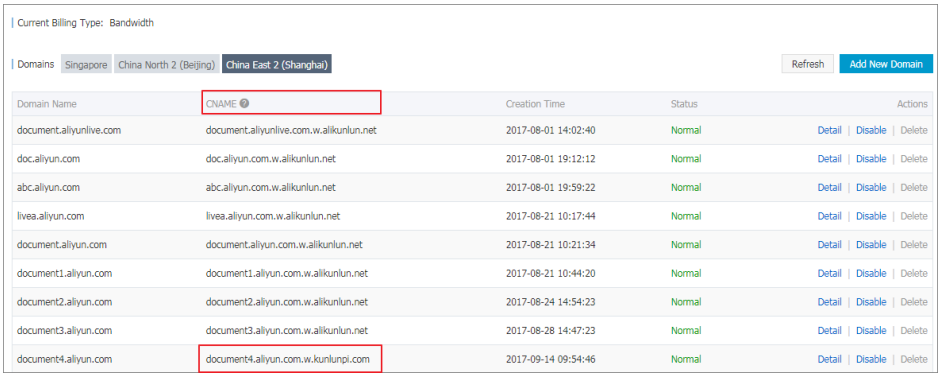
When configured successfully, the domain name automatically completes the configuration of CDN live acceleration. The live acceleration is available after the domain name complete the CNAME binding.

Bind CNAME.

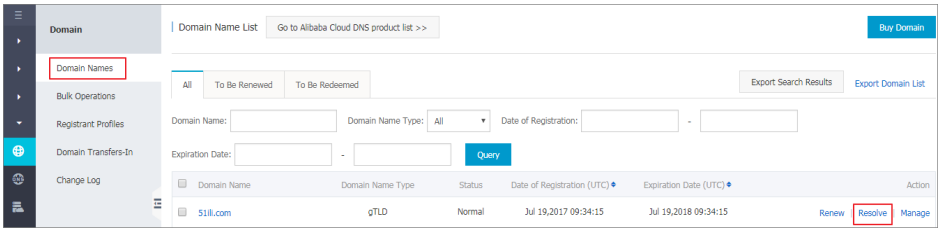
Modify the DNS and CNAME record of the live video domain name you added to the CNAME address displayed on the live video domain name management details page. Then, bind the streaming address that Alibaba Cloud provides with the live video domain name, so that the stream is pushed to the live video center at the same time it is pushed to the live video domain name. To bind the CNAME address of the domain name, follow these steps.

Get the live video domain name applied for at www.net.cn

Get the CNAME corresponding to the live video domain name of the Live Video console.

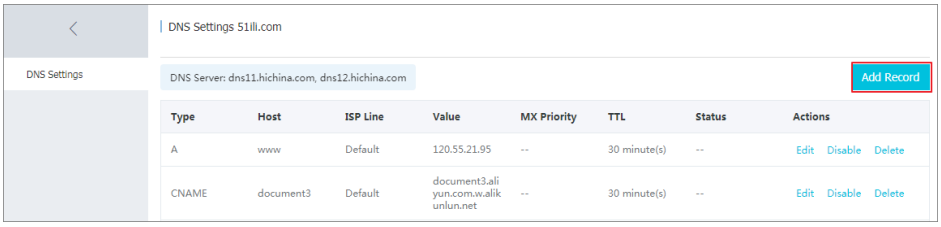


Log on to the Domain console and, on the **Domain Name List** page, select the domain name, and click **Resolve**.

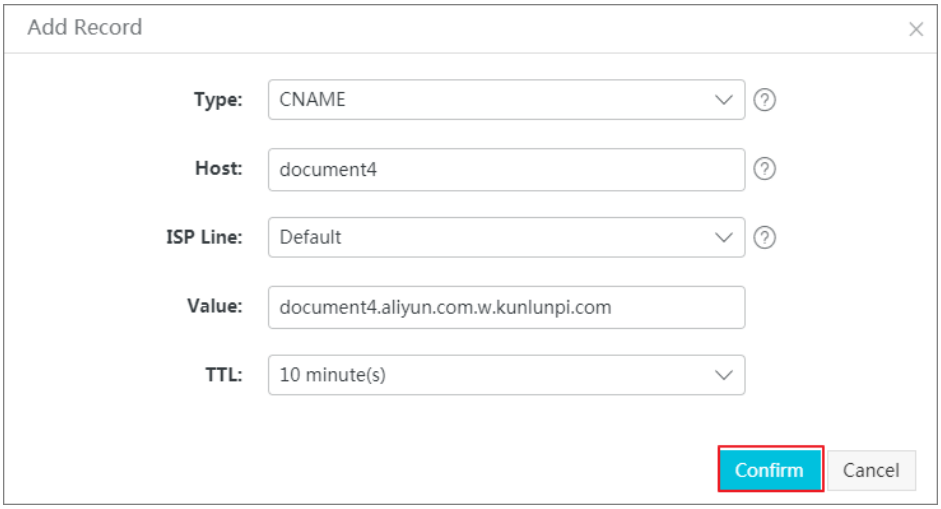


Click **Configure**.

Click **Add Record**.



Enter the resolution parameters and click **Confirm**.



Select **CNAME** in **Type**.

Enter the secondary domain name of the streaming address in **Host**. For example, if the streaming address is document4.aliyun.com, then the secondary domain name is document4.

Enter the CNAME content into **Value** in the domain name list.

- If it is a newly created domain name, the resolution will not involve DNS refreshing.
- If the CNAME is changed, different data is cached on different DNSs. If this occurs, it may take up to 48 hours to complete the updates.

Alternative domain name application method

If the domain name is applied for using another method, you must perform CNAME binding at the website at which the domain name is added.

Perform a domain name transfer on the Alibaba Cloud console.

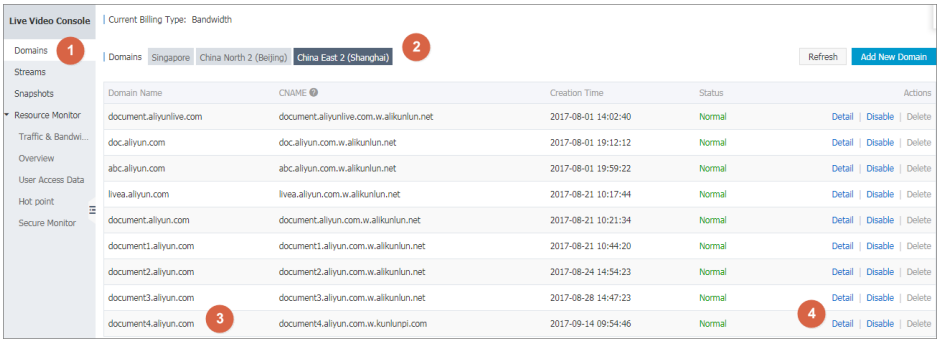
Configure authentication.

Log on to the ApsaraVideo Live console.

Click **Domains** in the left-side navigation pane,

Select a region.

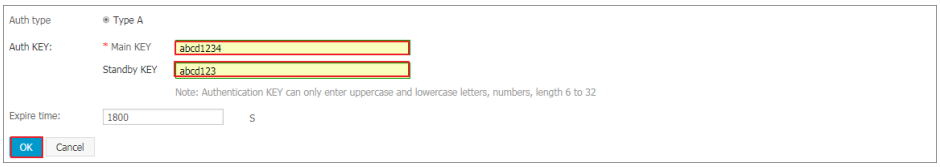
Select the domain name, and click **Detail** on the right side.



Click **Authenticate**.

Enable **Auth function**.

Enter the **Main KEY** and **Standby KEY** and click **OK**.



Note:

i. **Main KEY** is a key for calculating encrypted string. It is a mandatory item.

ii. If the **main KEY** is changed, all addresses using the **main KEY** will instantly become invalid. If the **standby KEY** is switched to become the **main KEY**, the streaming or playback address using the **main KEY** will not become invalid instantly, but will instead use the **standby KEY** as a mechanism for performing the switch.

Enter the stream URL in **Authentication URL Calculator**.

You can get the stream URL in the **Base Information** tab.

rtmp://video-center.alivecdn.com/AppName/StreamName?vhost=document4.aliyun.com

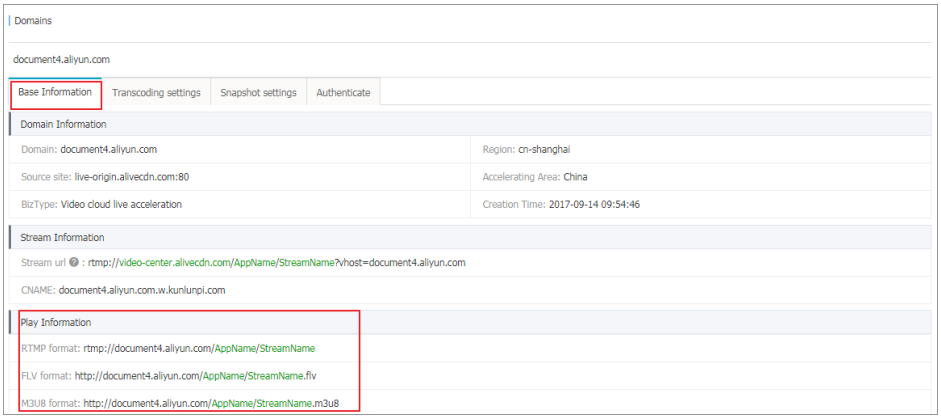
i. The video-center.alivecdn.com is a server of the live video center and can be customized. For example, if your domain name is document4.aliyun.com, you can set the DNS and point your domain name CNAME to “video-center.alivecdn.com”.

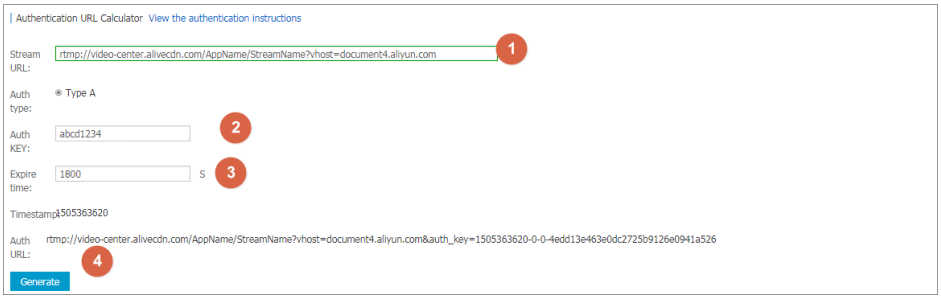
ii. AppName is the app name. This parameter can be customized.

iii. StreamName is the stream name. This parameter can be customized.

iv. The “vhost” parameter specifies a domain name for eventual playback on an edge node, namely your live video CDN domain name.

Note: If you want to use a customized AppName and StreamName, you must change the AppNameand StreamName in the streaming address into the app name and stream name you defined before generating the authenticated URL.





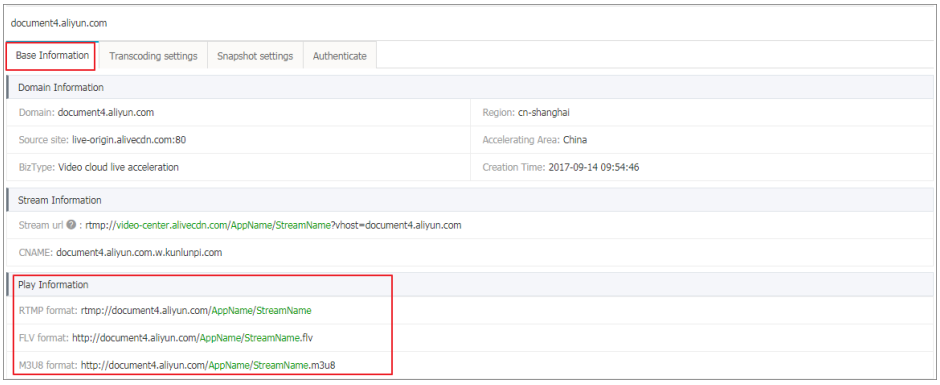
Enter the main KEY and standby KEY required in authentication.

Enter the expiry time of the stream URL.

Authentication will be invalid if it exceeds the expire time.

Click **Generate**.

Click **Base Information** to get the play information.



Step 2: Streaming

The live video streaming operation can use third-party streaming software.

Preview directly at the backstage of the Web page

Use OBS for streaming by using the authenticated URL, and then log on to the ApsaraVideo Live console > **Streams**.

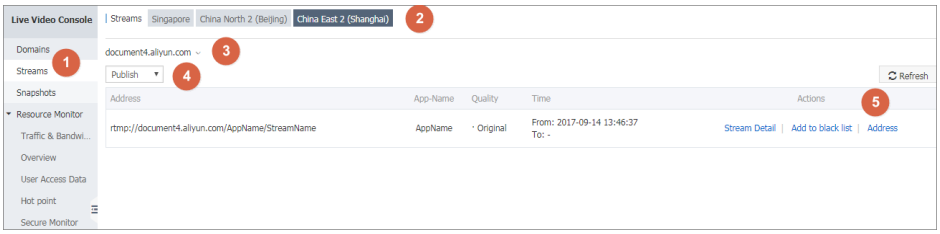
Select the region.

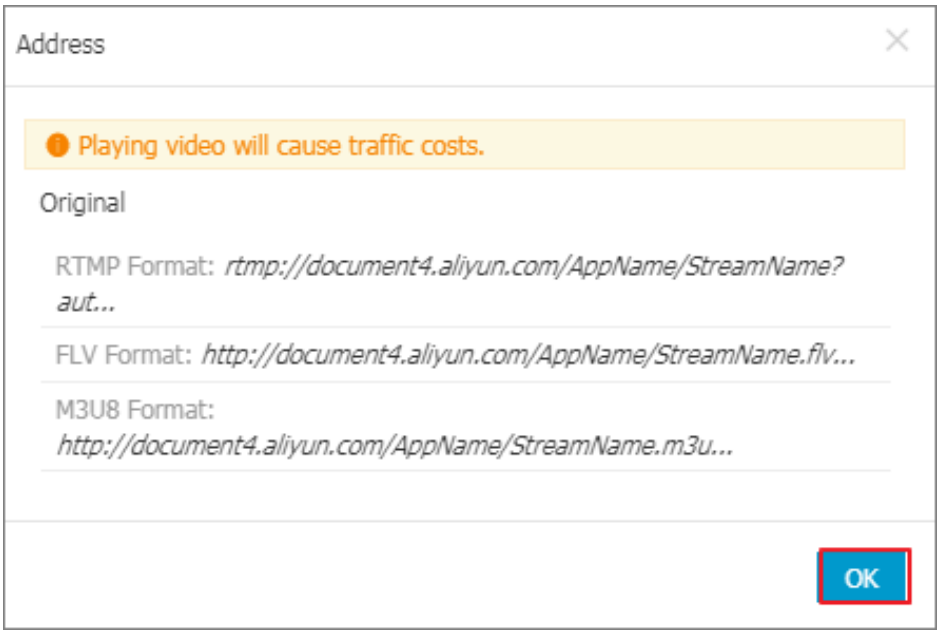
Select the domain name.

Select the stream status.

Select the address, and click **Address** at the right side.

You can then check playback address and verify play.





Preview with VLC

Download VLC. Only a default installation is required, no additional configuration is required. Click **Media** > **Open Network Stream**, enter the playback address, and click **Play**.

A live video activity requires a live streaming address. Alibaba Cloud ApsaraVideo Live supports trigger-by-activity creation. Based on activity creation rules, live interactive activities can be created in batches without the need for APIs.

Structure of live video address

A live video service address consists of three levels of live video management units, namely the domain name (Domain), an application (APPName) and a live stream (StreamName). You can create multiple applications (APPName) under each domain name (Domain), and multiple live streams

(StreamName) under each application.

AppName and StreamName can be edited for customization. Different values can be used to generate different streaming and playback addresses.

For example, if an application is named “live”, you can create multiple live streams under “live”. The stream pushing address is:

```
rtmp://video-center.alivecdn.com/{live}/{3}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live}/{1}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live}/{2}?vhost={live video domain name}
```

You can also create multiple live streams for the application.

```
rtmp://video-center.alivecdn.com/{live1}/{Stream}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live2}/{Stream}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live3}/{Stream}?vhost={live video domain name}
```

Structure of a playback address

The rules for live video playback addresses are the same as those for stream pushing addresses. AppName and Streamname of the playback addresses correspond to the AppName and StreamName the stream pushing addresses.

Examples

The stream pushing address is:

```
rtmp://video-center.alivecdn.com/{live}/{3}?vhost={live video domain name}
```

The corresponding playback addresses are:

```
http:// play.aliyunlive.com/{live}/{3}
http:// play.aliyunlive.com/{live}/{3}.flv
http:// play.aliyunlive.com/{live}/{3}.m3u8
```

The rules for live video playback addresses are the same as those for stream pushing addresses. AppName and Streamname of the playback addresses correspond to the AppName and StreamName of stream pushing addresses.

How to obtain an address after transcoding

The live playback address is spliced into different parameters. The playback address after transcoding is formed by the original stream address and template IDs. The address format isplayback domain

name+AppName+StreamName+_ “+transcoding template name.

Template name	LD	SD	HD	UHD
Standard quality	LLD	LSD	LHD	LUD
High quality (narrowband HD transcoding template)	LD	SD	HD	UD

Examples

The SD transcoding template name is **sd** and the splicing rules of the live playback address are as follows:

RTMP format: rtmp:// live.aliyun.com/{AppName}/{StreamName} _sd

FLV format: http:// live.aliyun.com/{AppName}/{StreamName} _sd.flv

Stream pushing addresses can be created in batches according to the rules, and live activities can be performed simultaneously. When batching live broadcast activities, note that each domain can process a limited number of concurrent streams. A maximum of 20 concurrent streams, and 10 transcoding streams, are allowed for each domain. Therefore, before performing live broadcast activities in batches, you must check whether the current stream limitation meets your requirements. If it does not meet your requirements, you can Open a ticket and contact Alibaba Cloud technical support.