

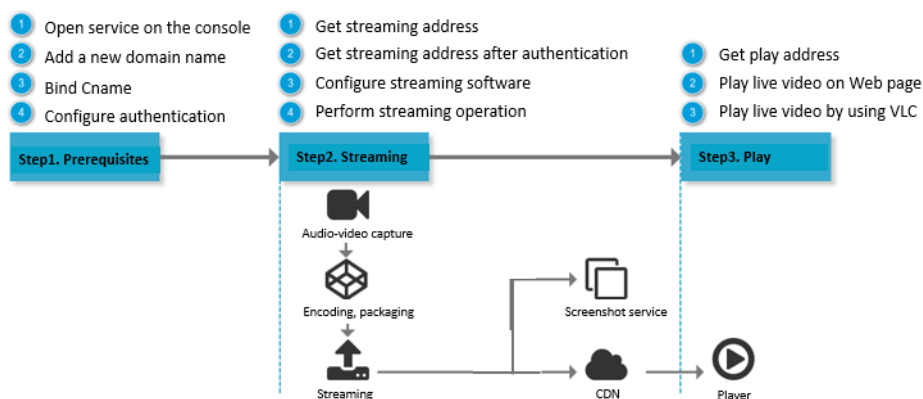
ApsaraVideo Live

Quick Start

Quick Start

Getting started

Live activity procedure



Step 1. Preparations

Prerequisites

Your domain name has completed the website record-filing.

Alibaba Cloud provides live service.

Note: If you select the **Singapore** region, the website record-filing operation is unnecessary.

Streaming and playing tools

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.

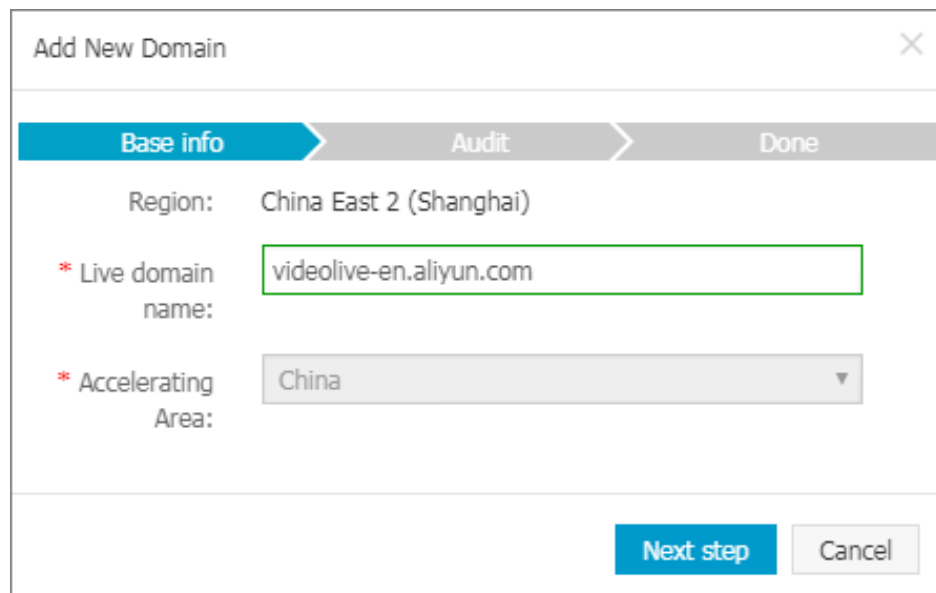
The console checks the activation status of services on which the product is dependent. Follow the instructions on the page for operations.

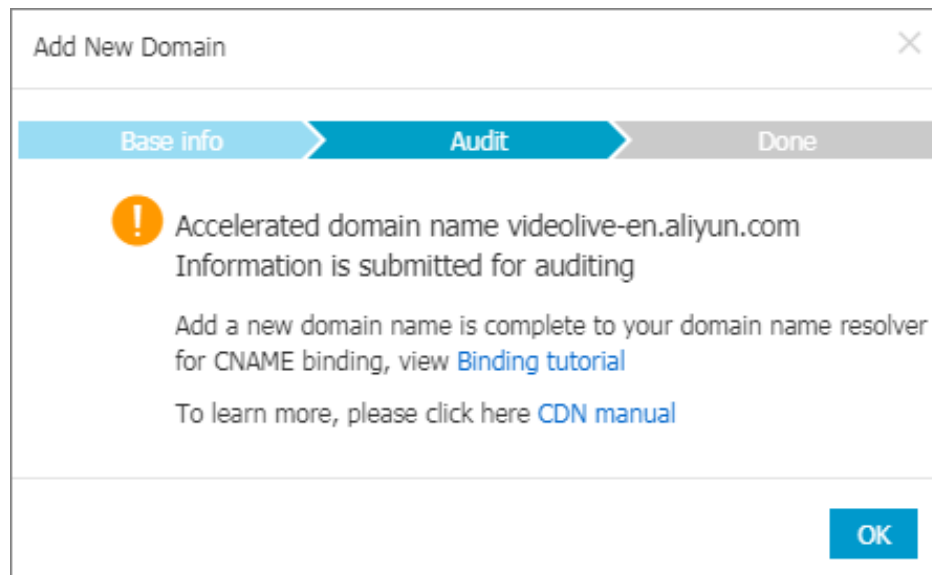
Add a live video domain name.

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



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

A screenshot of the 'Add New Domain' dialog box. The dialog has a title bar 'Add New Domain' with a close button. Below the title bar, there's a progress bar with three steps: 'Base info' (active), 'Audit', and 'Done'. The 'Base info' section contains three fields: 'Region' with the value 'China East 2 (Shanghai)', '* Live domain name' with the value 'videolive-en.aliyun.com', and '* Accelerating Area' with a dropdown menu showing 'China'. At the bottom right, there are two buttons: 'Next step' and 'Cancel'.



The domain name for live video need to complete ICP record filing before it is ready for use. For more information, see [website record-filing](#).

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

Bind CNAME.

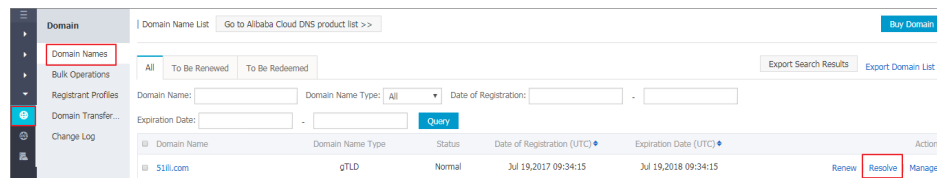
Modify the DNS and CNAME record of the added live video domain name to the CNAME address displayed on the live video **Domains** page. Then, bind the streaming address provided by Alibaba Cloud with the live video domain name, so that the stream is pushed to the live video center when pushed to the live video domain name. Follow these steps for CNAME binding.

- Live video domain name applied for at www.net.cn

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

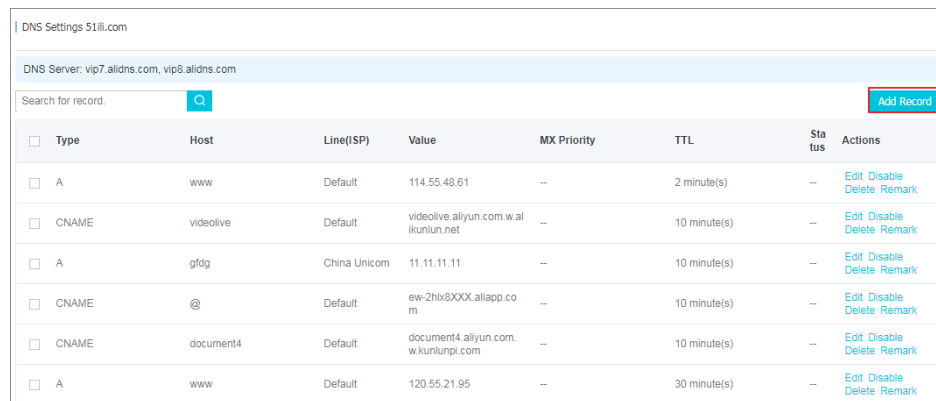
Current Billing Type: Bandwidth				
Domains Singapore China North 2 (Beijing) China East 2 (Shanghai) Refresh Add New Domain				
Domain Name	CNAME	Creation Time	Status	Actions
document4.aliyun.com	document4.aliyun.com.w.kunlunpl.com	2017-09-14 09:54:46	Normal	Detail Disable Delete
cc.aliyun.com	cc.aliyun.com.w.aliyun.net	2017-10-28 15:39:09	Normal	Detail Disable Delete
videolive.aliyun.com	videolive.aliyun.com.w.aliyun.net	2017-11-09 11:20:40	Normal	Detail Disable Delete
videolive-en.aliyun.com	videolive-en.aliyun.com.w.aliyun.net	2017-11-13 17:52:07	Normal	Detail Disable Delete

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

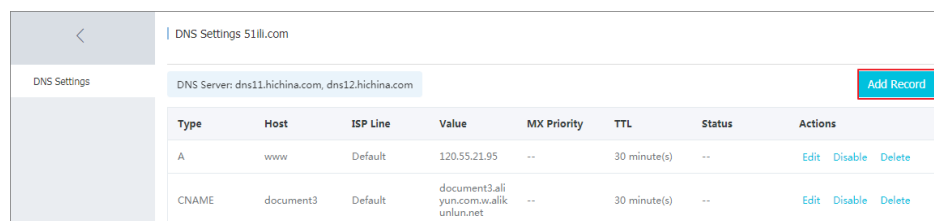


If your live video domain name is not applied for at www.net.cn, you can first transfer your domain name to www.net.cn and then perform the CNAME binding following steps.

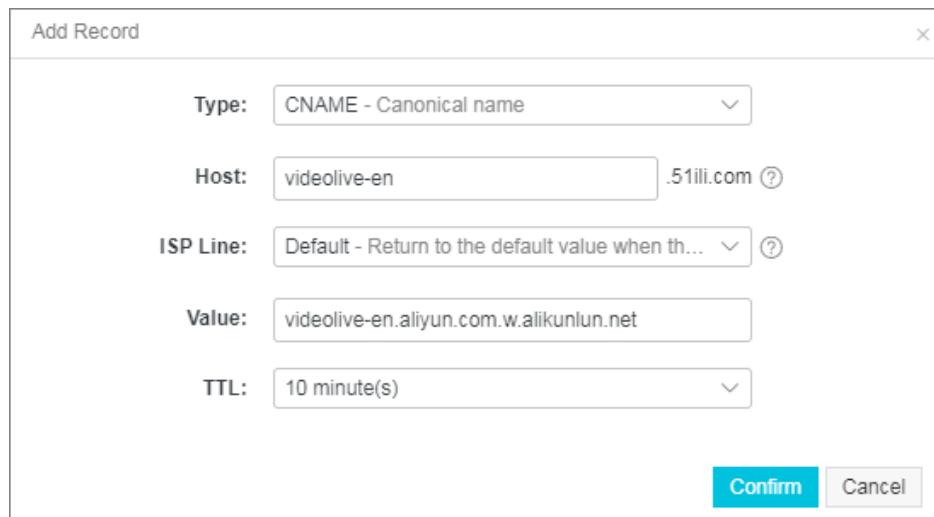
Click **Add Record**.



Click **Add Record**.



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



The screenshot shows a dialog box titled "Add Record" with a close button (X) in the top right corner. It contains the following fields:

- Type:** A dropdown menu with "CNAME - Canonical name" selected.
- Host:** A text input field containing "videolive-en", followed by ".51ili.com" and a help icon (?).
- ISP Line:** A dropdown menu with "Default - Return to the default value when th..." selected, followed by a help icon (?).
- Value:** A text input field containing "videolive-en.aliyun.com.w.alikunlun.net".
- TTL:** A dropdown menu with "10 minute(s)" selected.

At the bottom right, there are two buttons: "Confirm" (in blue) and "Cancel" (in gray).

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

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

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

After the resolution parameters are set, CNAME domain name resolution takes effect quickly.

If it is a newly created domain name, the resolution does not involve DNS refreshing.

Different data is cached on different DNSs, and if the CNAME is changed, it may take up to 48 hours to complete the updates.

Live video domain name applied for in other ways

If the domain name is applied for in other ways, 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.

Note: The authentication function is enabled by default for the newly created domain name

since January 1, 2018. You can adopt the authentication by default, or customize it on the ApsaraVideo Live console.

Authentication by default.

The authentication function is in the **Opened** state by default. The **Main KEY** is abcd1234 , and the **Expire time** is 1800s. The authentication expires if the time exceeds 1800s.

Log on to the ApsaraVideo Live console.

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

Select the region.

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

Domain Name	CNAME	Creation Time	Status	Actions
video-live-en.aliyun.com	video-live-en.aliyun.com.walikun.net	2017-11-13 17:52:07	Normal	Detail Disable Delete
video-live.aliyun.com	video-live.aliyun.com.walikun.net	2017-11-09 11:20:40	Normal	Detail Disable Delete
cc.aliyun.com	cc.aliyun.com.walikun.net	2017-10-28 15:39:09	Normal	Detail Disable Delete

In **Base Information** > **Center streaming information**, click **Go to generate authentication URL** at the right side of **Authentication settings**.

Base Information	Transcoding settings	Recording settings	Snapshot settings
<p>Domain Information</p> <p>Media Center: China East 2 (Shanghai) Play Area: China</p> <p>Creation Time: 2017-11-13 17:52:07 Status: Normal</p> <p>Center streaming information</p> <p>Center streaming URL: http://video-center.aliyuncdn.com/AppName/StreamName?host=video-live-en.aliyun.com How to set streaming URL</p> <p>Center streaming notify URL: + -</p> <p>Authentication settings: Opened (KEY abcd1234, Expire time 1800 S) Go to generate authentication URL</p>			

In the **Generate authentication URL** page, click **Start to generate**.

Click to copy the generated **URL authentication address**.

Generate authentication URL

Original URL:

[How to set streaming URL](#)

Auth type: Type A

Auth KEY: abcd1234

Expire time: 1800 S Expire time need to be modified in authentication settings

Start to generate Click to copy

URL authentication address:

OK Cancel

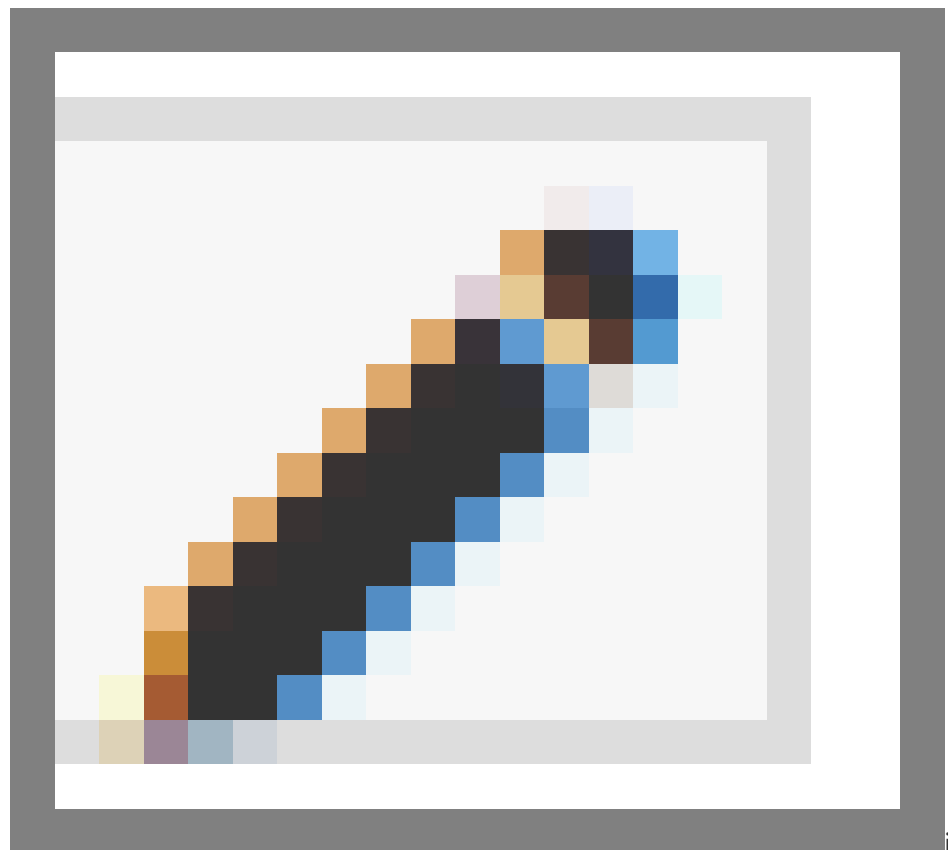
Click **OK**.

The generated **Authentication URL** `rtmp://video-center.alivecdn.com/AppName/StreamName?vhost=videolive-en.aliyun.com&auth_key=*****` can be used for streaming and playback.

Customize authentication

If you don't adopt the configuration by default, you can also customize **Main KEY**, **Standby KEY**, **Expire time**, **AppName** and **StreamName**, and then generate **Authentication URL** for streaming and playback.

In **Base Information** > **Center streaming information**, click the



icon at the

In the **Authentication settings** page, customize the **Main KEY**, **Standby KEY**, and **Expire time** and click OK.

Authentication settings

- Address of Center push-flow and broadcasting share a set of Live authentication keys.
- After opening Live authentication, you need to use the URL pushing or playing.

Authentication ☒

State:

Auth type: Type A

*Main KEY:
6~32 characters, supporting upper case, lower case and numbers

Standby KEY:
6~32 characters, supporting upper case, lower case and numbers

Expire time: S

OK Cancel

Note:

- Main KEY** is a key for calculating encrypted string. If the **Main KEY** is changed, all addresses using the **Main KEY** instantly becomes invalid. If the **Standby KEY** is changed to the **Main KEY**, the streaming or playback address using the **Main KEY** does not become invalid instantly, but uses the **Standby KEY** as a mechanism for performing the switch.

Click **Go to generate authentication URL** at the right side of **Authentication settings** to set the **AppName** and **StreamName** on the **Generate authentication URL** page.

Original URL : `rtmp://video-center.alivecdn.com/AppName/StreamName?vhost=videolive-en.aliyun.com`, wherein,

The `video-center.alivecdn.com` is a server of the live video center and can be customized. For example, if your domain name

isvideolive-en.aliyun.com(Note: This domain name cannot be the same with your CDN domain name), you can set the DNS and point your domain name CNAME to video-center.alivecdn.com.

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

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

Thevhostparameter specifies a domain name for eventual playback on an edge node, namely your live video CDN domain name.

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**.

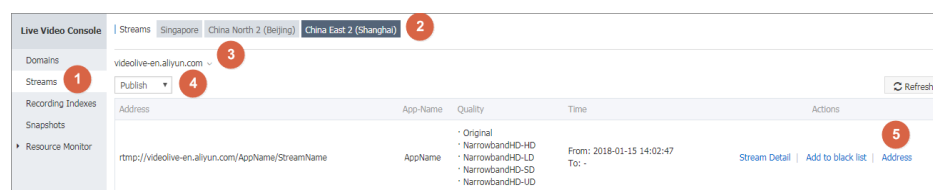
Select the region.

Select the domain name.

Select the stream status.

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

You can then check playback address and preview play.



trigger-by-activity creation. On the basis of the activity creation rules, you can create multiple live interactive activities without APIs.

Structure of live video address

The live video service address has 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 and customized. Different values are used to generate various types of 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 both live video playback addresses and stream pushing addresses are similar. 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
```

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 is playback 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`

You can create multiple stream pushing addresses according to the rules and the live activities can be performed simultaneously. When performing multiple live broadcast activities, note that each domain processes a limited number of concurrent streams. A maximum of 20 concurrent streams and 10 transcoding streams are allowed for each domain. Therefore, before performing multiple live broadcast activities, 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.