

EZDRM Configuration for Google VOD Transcoding Packager



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Prerequisites

rage.admin

Download Google CLI – <u>https://cloud.google.com/sdk/docs/install</u>

For more information visit: <u>https://cloud.google.com/transcoder/docs/how-to/encrypt-content</u>

Create Transcoder and Storage Roles

Within your project, you will need to create two access roles using the following CLI commands. For this example, our project is *transcode-001*. Specify your **member user login** and create the roles for **transcoder.admin** and **storage.admin**.

gcloud projects add-iam-policy-binding transcode-001 --member="user:youruser@company.com" --role=roles/tra
nscoder.admin
gcloud projects add-iam-policy-binding transcode-001 --member="user:youruser@company.com" --role=roles/sto



Google Packager Encryption

Generating Keys

Below are the steps to create the DRM Keys for CENC-PlayReady or CENC-Widevine encryption for Google Packager, as well as Apple FairPlay DRM.

EZDRM Apple FairPlay DRM is a hosted Apple FairPlay Streaming (DRM). This enables a content owner to encrypt the media with Apple FPS DRM keys and deliver content Apple devices with native support MAC Safari browser via HTML 5 player or iOS via native App or Safari.

To request the DRM keys from EZDRM to package the media, there are two options, you can call the EZDRM web service in a browser, or you can script this process with curl or other web service calls.

For more details on CPIX, please visit our website: <u>https://hs.ezdrm.com/hubfs/Documentation/EZDRM%20CPIX%202.x%20Keys%20G</u> <u>uide%20V1.pdf?hsLang=en</u>

Option 1: Request DRM keys using EZDRM CPIX Web Service

 Call the EZDRM web service in a browser: <u>https://cpix.ezdrm.com/keygenerator/cpix.aspx?k=kid&u=username&p=pas</u> <u>sword&c=resourcename</u>

The parameters are as follows:

Parameter	Description
k	kid or Key ID value (client generated) in GUID
	format*
u	EZDRM username
р	EZDRM password
С	Content ID – generic resource name/identifier
	(client generated) – passed into id field



* To generate a GUID for the k value, you can use a GUID generator like the one found here: <u>https://www.guidgenerator.com/</u>.

2. The response from EZDRM will look like this:

This XML file does not appear to have any style information associated with it. The document tree is shown below.	
<pre>v<cpix:cpix contentid="" version="2.3" xmlns:cpix="unr:dashif:org:cpix" xmlns:pskc="unr:letf:params:xml:ns:keyprov:pskc"> w<cpix:cpix contentid="" version="2.3" xmlns:cpix="unr:dashif:org:cpix" xmlns:pskc="unr:letf:params:xml:ns:keyprov:pskc"></cpix:cpix></cpix:cpix></pre>	
<pre>*<cplit.contentkey 22238c8<="" explicitiv="III4; :Px5A==" kid="222238c8</td><td></td></tr><tr><td>▼<cpix:Data>
▼<opsk:Secret></td><td></td></tr><tr><td><pre><pskc:PlaivAlue>DTNy JkNjQ==</pskc:PlainValue></pre></td><td></td></tr><tr><td></pre></td><td></td></tr><tr><td></cpix:ContentKey> </cpix:ContentKey1ist</td><td></td></tr><tr><td><pre></pre></td><td></td></tr><tr><td><pre>v<cpix:DRHSystem kid=" td=""><td></td></cplit.contentkey></pre>	
<pre><cpix:contentprotectiondata>PHBzc2ggeGisbnM9InVybjptcGVnOmNlbmM6HjAxHyI+QUFBQVA2QnpjMmdBQUFBQTd1K8xxW65XU3H2an1D2mMxUj <cpix:uesian03iaedttb< pre=""></cpix:uesian03iaedttb<></cpix:contentprotectiondata></pre>	<pre>PUGNsWnNHPC9wc3NoPg==</pre>
<pre><cpre>ccpre>tagetaimstg statisticaimstget</cpre></pre>	xWG5XU3M2anlDZmMxUjBoN1FBQUFC0FNFQ0lpT01nUkVVej
<cri>ccpix:HLSSignalingbeta playlist="master">iOWYCIYLVNFUINJT04t50VZOK1PVEhPRD1TQUIQTEUtQAYTLUNUixYUkk9ImRhdGE6d0Y4dC </cri>	VVejNyOEFjaVNIajhlUkFCVIY2WkhKdFNPUGNsWnNHIixLR\

- o **id** c value returned, generic resource name/identifier (client generated)
- kid Key ID in GUID format (client generated)*
- pskc:Secret key– the Secret Content Encryption Key in Base 64 generated by EZDRM and returned as a plain value.
- **explicitIV** the Apple FairPlay explicit IV value
- **PSSH** The modular specific protection system specific header (PSSH) data for the encryption process; Base 64 encoded.

* To generate a GUID for the k value, you can use a GUID generator like the one found here: <u>https://www.guidgenerator.com/</u>.

Here Is the example XML return:

```
<cpix:CPIX xmlns:cpix="urn:dashif:org:cpix" xmlns:pskc="urn:ietf:params:xml:ns:keyprov:pskc" contentId="
" version="2.3">
<cpix:ContentKeyList>
<cpix:ContentKey explicitIV="III4xXXXxxXwByJIePx5A==" kid="222238c8-XXXX-4cf7-XXXX-1c8921e3f1e4" commonEn
cryptionScheme="cenc">
<cpix:Data>
<cpix:Data>
<cpix:Data>
<cpskc:Secret>
<cpskc:PlainValue>DTNvniU5XXXXxxXvUkNjQ==</pskc:PlainValue>
</pskc:Secret>
```





Option 2: Request DRM keys with curl

The second option to request DRM keys from EZDRM is to script the process with curl or another web service call.

Using EZDRM's web service, the curl script below retrieves the DRM values from the web service.

curl -v "<u>https://cpix.ezdrm.com/keygenerator/cpix.aspx?k=kid&u=username&p=password&c=drm-001</u>"

Encryption Keys file - Secret Manager

Once you have the DRM values to encrypt the content, you can add them to the Google packager for CENC-PlayReady, CENC-Widevine, and Apple FairPlay.

The sample JSON file for key encryption for all types outlined in this section. This file will be uploaded into Secrets.



1. Create the keys JSON file as outlined in the following section.

all_k	eys_samp	ejson 🖬	
1	🕀 (
2	白	"encryp	tionKeys": [
3	Ę	{	
4			"keyId": "222238c8XXXX4cf7XXXX1c892le3fle4",
5			"key": "0d33XxXx25395d15538f8712bd49XxXx",
6			"iv": "222238c8XXXX4cf7XXXX1c8921e3f1e4",
7			"keyUri": "skd://222238c8-XXXX-4cf7-XXXX-1c8921e3f1e4:222238c8XXXX4cf7XXXX1c8921e3f1e4",
8	白		"matchers": [
9	戶		ť
10	F		"muxStreams": [
11			"ts_fairplay"
12	-		1
13	-		}
14	-		1
15	-	},	
16	户	{	
17			<pre>"keyId": "222238c8XXXX4cf7XXXX1c8921e3f1e4",</pre>
18			"key": "0d33XxXx25395d15538f8712bd49XxXx",
19			<pre>"keyUri": "skd://222238c8XXXX4cf7XXXX1c8921e3f1e4",</pre>
20			"iv": "222238c8XXXX4cf7XXXX1c8921e3f1e4",
21	白		"matchers": [
22			f f
23	E C		"muxStreams": [
24			"fmp4_widevine_cenc_video",
25			"fmp4_widevine_cenc_audio",
26			"fmp4_widevine_cbcs_video",
27			"fmp4_widevine_cbcs_audio"
28	L		1 1

2. Navigate to Secret Manager in Google Cloud.

	Google Cloud	* 1	anscode-001 💌	Secr	ets & configmaps	×	Q Search	
- 53	Cloud overview		DASHBOARD ACTIVITY	٩	secrets & configmaps			
	Products & solutions	;	Project info	PROD	UUCTS & PAGES Secrets & ConfigMaps Kubaratas Engina			Goog
PINN	ED PRODUCTS		Project name transcode-001	0	Secret Manager Security			All servi
API	APIs & Services	#	Project number 85964912188	DOCL	INENTATION & TUTOPIALS			Go to C
	Billing	#	Project ID transcode-001	B	Secret Manager			
Θ	IAM & Admin	#			Securely store API keys, passwords, certificates, and other			i Billing

3. Create New Secret (click + Create Secret).

\equiv	Google Cloud	<pre>\$• transcode-001 ▼</pre> Secret X	Q Search +
0	Security	Secret Manager + CREATE SECRET	G
Securi	ty Command Center 🔨 🔨	SECRETS LOGS	Choose a secret
58	Risk Overview		PERMISSIONS
0	Threats	Secret Manager lets you store, manage, and secure access to your application secrets. Learn more [2]	
Ŀ	Vulnerabilities		Please select at
ii6	Compliance	□ Name ↑ Location Encryption Labels Created	



4. Enter a Name for the Secret, and upload your file or paste the contents of the keys file in Secret value.

all_keys_sa	nple	
The name sh	ould be identifiable and unique within this project.	
Secret value		
nput your see	cret value or import it directly from a file.	
Upload file		BROWSE
Maximum si:	ze: 64 KiB 😧	
Secret value		
	"keyId": "222238c8XXXX4cf7XXXX1c8921e3f1e4",	
	"key": "0d33XxXx25395d15538f8712bd49XxXx",	
	"iv": "222238c8XXXX4cf7XXXX1c8921e3f1e4".	
	akoum: 0v52564616	

By default, Google automatically manages where this secret is stored. If you need to manually manage this, you can customize the locations by checking the box below. All secrets are globally accessible regardless of how they are replicated and stored. The replication policy cannot be changed after a secret is created. Learn more [2]

Manually manage locations for this secret

5. Click Create Secret. The secrets file will now show under Secrets:

V	Security	Secret	Manager	+ CREATE SECRET			
curi	ty Command Center	SEC	RETS L	OGS			
i!	Risk Overview						
0	Threats	Secret M	lanager lets you ore 🖄	u store, manage, and secure ac	cess to your applicatio	n secrets.	
L	Vulnerabilities	Ŧ	ilter Enter pro	perty name or value			0 1
ili i	Compliance		Name 个	Location	Encryption	Labels	Created
8	Assets		keys-001	Automatically replicated	Google-managed	None	2/26/24, 6:23 AN
	Findingo		widevine	Automatically replicated	Google-managed	None	2/26/24, 7:58 AN
Se { "e	cret value encryptionKeys": [{ // Key for FairPlay configuration.						
	"loould": "d	81	df13".				
	keyid : d		,		10		
⊘ :	Secret integrity verified			~			
•	Secret integrity verified			~			



Enable the key for the transcoding service by running this CLI command:

gcloud projects add-iam-policy-binding transcode-001 service-85964912188@gcp-sa-transcoder.iam.gserviceacc ount.com --role=roles/secretmanager.secretAccessor

Create Keys File

Note – the command requires an iv value, even when running for only Widevine or PlayReady.

CENC-Widevine

- "keyId" the EZDRM kid value (no dashes)
- "key" use the pskc:Secret key value and decode the Plain Value tag from Base 64 to HEX format in lowercase (no dashes). An example decoder can be found at: <u>https://tomeko.net/online_tools/base64.php?lang=en</u>

pskc:Secret key (Base 64) = DTNvniU5XXXXXxXVUkNjQ==



<u>(keyID - HEX) = 0d33XxXx25395d15538f8712bd49XxXx</u>

- keyURI specify the license URL for encryption. Build by appending the kid value to base URL as shown in this example:
 skd://222238c8-XXXX-4cf7-XXXX-1c8921e3f1e4
- "iv" decode the explicitIV Plain Value Base 64 to HEX format. An example decoder can be found at:

https://tomeko.net/online_tools/base64.php?lang=en

explicitIV (Base 64) = lil4xXXXXxxXwByJlePx5A==





CENC-PlayReady

- "keyId" the EZDRM kid value (no dashes)
- "key" use the pskc:Secret key value and decode the Plain Value tag from Base 64 to HEX format in lowercase (no dashes). An example decoder can be found at: <u>https://tomeko.net/online_tools/base64.php?lang=en</u>

pskc:Secret key (Base 64) = DTNvniU5XXXXXXXVUkNjQ==



<u>(keyID - HEX) = 0d33XxXx25395d15538f8712bd49XxXx</u>

- keyURI specify the license URL for encryption. Build by appending the kid value to base URL as shown in this example: skd://222238c8-XXXX-4cf7-XXXX-1c8921e3f1e4
- "iv" decode the explicitIV Plain Value Base 64 to HEX format. An example decoder can be found at: <u>https://tomeko.net/online_tools/base64.php?lang=en</u>



explicitIV (Base 64) = lil4xXXXXxxXwByJlePx5A==



iv (HEX no dashes) = 222238c8XXXX4cf7XXXX1c8921e3f1e4



Apple Fairplay

- "keyId" the EZDRM kid value (no dashes)
- "key" use the pskc:Secret key value and decode the Plain Value tag from Base 64 to HEX format in lowercase (no dashes). An example decoder can be found at: <u>https://tomeko.net/online_tools/base64.php?lang=en</u>

pskc:Secret key (Base 64) = DTNvniU5XXXXXXXVUkNjQ==





 "iv" - decode the explicitIV Plain Value Base 64 to HEX format. An example decoder can be found at: <u>https://tomeko.net/online_tools/base64.php?lang=en</u>

explicitIV (Base 64) = IiI4xXXXXxXwByJlePx5A==



iv (HEX no dashes) = 222238c8XXXX4cf7XXXX1c8921e3f1e4

• **keyURI** - specify the license URL for encryption. Build by appending the **kid** value to base URL and the **iv** value seperated by a colon as shown in this example:

<u>skd://222238c8-XXXX-4cf7-XXXX-</u>

1c8921e3f1e4:222238c8XXXX4cf7XXXX1c8921e3f1e4

	{								
		"keyId": "222238c8XXXX4cf7XXXX1c8921e3f1e4",							
		"key": "0d33XxXx25395d15538f8712bd49XxXx",							
		"iv": "222238c8XXXX4cf7XXXX1c8921e3f1e4",							
		"keyUri": "skd://222238c8-XXXX-4cf7-XXXX-1c8921e3f1e4:222238c8XXXX4cf7XXXX1							
c8921e3f1e4",									
		"matchers": [
		{							
		"muxStreams": [
		"ts_fairplay"							
]							
		}							
]							
	},								



Create Bucket (Public) and Set Permissions

Navigate to Cloud Storage, and click Create.

≡	Google Cloud	transcode-001 💌		Search (/) for resources, docs, products,
- •	Cloud Storage	Buckets	+ CREATE	CREFRESH
	Buckets	Beginning	on April 29th, 2024	4 at-scale policy analysis and advanced IAM recom
ណ៍	Monitoring			
۵	Settings	Soft Delet	e is now ava	ailable
		sale an analytical		

Under settings enter your bucket name, region, class and access control – turn off enforce public access prevention.



Next, set permissions for the bucket.

≡	Google Cloud	live-pro-	001 👻		Search	(/) for resource	ces, docs, products, and more		Q Search	
Navi	^{gation menu} torage	×	1 bucket selec	ted 👕 delete 💄	PERMISSIONS	TAGS	LABELS			
	Buckets		Тп	nsfer New				×	Security	
*	Monitoring		Pov	ver near real-time an	alytics and re	eplication	with event-driven transfe	ers 🖕	View security	recommendation
۵	Settings	Ŧ	You c transi AWS CREJ	an now capture changes faster iers, enabling you to act on your SQS-based event stream config SQS-based event stream config ILEARN	at your Google Clou data in near real tin ured to send event r	Id Storage and A ne. To get starte Notifications whe	mazon 83 sources via event-driven d, create a transfer job with a Pub/Sul n objects are created or updated.	b or	Improve security by a table describes which	pplying security recommen buckets have excess perm
			Name 🛧	Created	Location type	Location	Default storage class 🕜	Last modified	Public access	Access control
			live-storage-001	Mar 7, 2024, 12:40:10 PM	Multi-region	us	Standard	Mar 7, 2024, 4:28:57 PM	A Public to internet	Uniform
			sample-live-001	Mar 8, 2024, 12:12:13 PM	Multi-region	us	Standard	Mar 8, 2024, 12:12:13 PM	Not public	Uniform



Add allUsers to principals.

Permissions for sample-live-001	×	S LEARN	Grant access to "sample-live-001"
Public access Not public	~		Grant principals access to this resource and add roles to specify what actions the principals can take. Optionally, add conditions to grant access to principals only when a specific criteria is met. Learn more about IAM conditions to Resource
PREVENT PUBLIC ACCESS			Add principals Principals are users, groups, domains, or service accounts. Learn more about principals in IAMC
Access control Uniform: No object-level ACLs enabled	~		New principals * allUsers Assign roles Roles are composed of sets of permissions and determine what the principal can do
SWITCH TO FINE-GRAINED			Role* IAM condition (optional) Storage Object Viewer + ADD IAM CONDITION
Edit or delete permissions below, or select "Add Principal" to grant new access.	ADD PF	RINCIPAL	Grants access to view objects and their metadata, excluding ACLs. Can also list the objects in a bucket.
Show inherited permissions			+ ADD ANOTHER ROLE
Filter Enter property name or value		Ø	SAVE

Confirm public access:

Are you sure you want to make this resource public? Adding allUsers or all Authenticated Users to this resource will make it publicly accessible to anyone on the internet. If this resource contains data that should not be made public to everyone, cancel this action to prevent public access. Learn more [2]

CANCEL ALLOW PUBLIC ACCESS

The CLI to complete these tasks are as follows:

gcloud storage buckets add-iam-policy-binding gs://vod-transcoder-walkthrough --member=allUsers --role=rol
es/storage.objectViewer

gcloud storage objects update gs://vod-transcoder-walkthrough/objectname --add-acl-grant=entity=AllUsers,r ole=READER



Transcoder – Create Jobs

Create the Transcoder jobs with the input, location, and output for the transcoded file:

gcloud transcoder jobs create \
input-uri="gs://storage-for-transcode-001/fragmented-bunny.mp4" \
location=us-east1 \
output-uri="gs://storage-for-transcode-001/output-001/"
gcloud transcoder jobs createinput-uri="gs://storage-for-transcode-001/fragmented-bunny.mp4"locati
on=us-east1output-uri="gs://storage-for-transcode-001/output-001/"

≡	Google Cloud	🕻 transcode-001 👻	Search (/) for resources, docs, products, and more				Q Search	h 🔶	Þ Ó Ø	: 🔍
	Cloud Storage	← Bucket details						GO TO PATH	C REFRESH	tearn 🤝
٠	Buckets	storage-for-transcode	001							
ଲ *	Monitoring Public to internet: This bucket is publicly accessible because allUsers or allAuthenticatedUsers have one or more permissions. Remove these principals to stop public access.									
		Location us (multiple regions in United State	Storage class Public accers) Standard A Public to	ss Protection						
OBJECTS CONFIGURATION PERMISSIONS PROTECTION LIFECYCLE OBSERVABILITY INVENTORY REPORTS OPERATION								OPERATIONS		
		Folder browser	I< Buckets	s > storage-for-transco	ode-001 🗗					
		 storage-for-transcode-001 output-001/ 		AD FILES UPLOAD F	OLDER CREATE	E FOLDER TR/	ANSFER DATA 👻	MANAGE HOLDS EDIT	RETENTION DO	WNLOAD
		output-002/	Filter by	name prefix only 👻	= Filter output-0	001		× Sho	Live objects only	
		output-all-001/	: · · · ·	lame	-	Size Type	Created ? Sto	orage class Last modifie	d Public access	2 Vers
		• output-clearkey-001/	: 🗆 י	output-001/		– Folder		-	-	- 1
		• output-fp-002/	:							

Buck	<pre>xets > storage-for-transcode-001 > out; .OAD FILES UPLOAD FOLDER CRE</pre>	ut-001 🗖	TRANSFER DATA - MAN	AGE HOLDS EDIT RETEN	ITION DOWNLOAD
DEL	ETE				
Filter	by name prefix only 👻 🚍 Filter Filte	r objects and f	olders	Show Live	objects only 🔻 📗
	Name	Size	Туре	Created	Storage class
	audio-only000000000.m4s	1 MB	audio/mp4	Feb 26, 2024, 6:00:18 AM	Standard 🛨
	■ hd.mp4	37.1 MB	video/mp4	Feb 26, 2024, 6:00:18 AM	Standard 🛓
	manifest.m3u8	319 B	application/vnd.apple.mpegurl	Feb 26, 2024, 6:00:19 AM	Standard 🛨
	manifest.mpd	4.5 KB	application/dash+xml	Feb 26, 2024, 6:00:18 AM	Standard 🛓
	media-hd.m3u8	1.5 KB	application/vnd.apple.mpegurl	Feb 26, 2024, 6:00:18 AM	Standard 🛓
	media-hd000000000.ts	39.1 MB	video/mp2t	Feb 26, 2024, 6:00:18 AM	Standard 🛓
	media-sd.m3u8	1.5 KB	application/vnd.apple.mpegurl	Feb 26, 2024, 6:00:19 AM	Standard 🛓
	E media-sd000000000.ts	10.5 MB	video/mp2t	Feb 26, 2024, 6:00:18 AM	Standard 🛓
	sd.mp4	9 MB	video/mp4	Feb 26, 2024, 6:00:18 AM	Standard 🛨
	video-only-hd000000000.m4s	36.1 MB	video/mp4	Feb 26, 2024, 6:00:18 AM	Standard 🛓
	video-only-sd000000000.m4s	8 MB	video/mp4	Feb 26, 2024, 6:00:18 AM	Standard 🛓



Create Templates

Here is an example of the CLI to create templates. This makes the processing of many jobs easier.

Reference the Project number from the Project Dashboard:



Create a Job Definitions JSON file to reference the secretVersion within the project and the job settings, using the template provided by Google. The encoder will then use the proper secret key version.

```
"config": {
           "elementaryStreams": [
                     {
                     "key": "es_video",
                     "videoStream": {
                                "h264": {
                                           "profile": "main",
                                           "heightPixels": 600,
                                           "widthPixels": 800,
                                           "bitrateBps": 1000000,
                                           "frameRate": 60
                                }
                     }
          },
           {
                     "key": "es_audio",
                     "audioStream": {
                                "codec": "aac",
                                "channelCount": 2,
                                "bitrateBps": 160000
```



Note: setting segmentDuration to "3s" or more is recommended when using the Google template.

"muxStreams": [{ "key": "ts_fairplay", "container": "ts", "elementaryStreams": ["es_video", "es audio"], "segmentSettings": { "segmentDuration": "3s" },

Create the template with the template ID name and indicate the location:

gcloud transcoder templates create walk-001 --file="drm.json" --location=us-east1



Identify the input, output and template ID:

```
gcloud transcoder jobs create --input-uri="gs://storage-for-transcode-001/fragmented-bunny.mp4" --location
=us-east1 --output-uri="gs://storage-for-transcode-001/output-all-002/" --template-id="walk-001"
```

To see the progress of a job, utilize the jobs ID provided in the JSON response:



gcloud transcoder jobs describe 1b9e68ae-ebaa-4d45-82bf-9c861356affa --location=us-east1

Authorization

For reference, here is an example of the authorization through CLI:

https://accounts.google.com/o/oauth2/auth/oauthchooseaccount?response_type=code&client_id=32555940559.apps .googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A8085%2F&scope=openid%20https%3A%2F%2Fwww.goog leapis.com%2Fauth%2Fuserinfo.email%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform%20https%3A%2 F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.log in%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.log s.reauth&state=Zs5oL7b2TUWV9C1QhIoV6XaaTjxcnF&access_type=offline&code_challenge=qw-I3EHvXh90BArxC6pKNVpJd sR3lQ oatB1gxVModA&code_challenge_method=S256&service=lso&o2v=1&theme=glif&flowName=GeneralOAuthFlow

Here is an example of the connection to secrets manager:

https://console.cloud.google.com/security/secret-manager?referrer=search&project=transcode-001



Testing Playback

For details on Testing playback, please visit our website ezdrm.com/documentation > EZDRM Testing Playback: https://hs.ezdrm.com/hubfs/Documentation/EZDRM-Testing-Playbackv2.2.pdf?hsLang=en

Additional Information

For additional questions and comments please contact: simplify@ezdrm.com