**Transcoder REST API documentation**

### Service endpoint

To get service endpoint ssh to the staging server and run

**kubectl -n transcode svc**

EXTERNAL-IP of api-server is the service endpoint

**Authentication**

All https requests must use basic authentication

User: "RestApiUser"

Password: "Tr@nsc0de!"

**REST Reference**

**Get a List of Projects**  
GET https://<transcoder-api-endpoint>/v1/projects  
Request body: must be empty  
Response body: if successful it contains data with the following structure

{

"data": [

{

"id": 5,

"input\_bucket": "p5\_input\_images",

"name": "project10",

"output\_bucket": "p5\_output\_images",

"state": "active"

},

{

"id": 6,

"input\_bucket": "p6\_input\_images",

"name": "project11",

"output\_bucket": "p6\_output\_images",

"state": "active"

},

]

}

**Get Project Details**  
GET https://<transcoder-api-endpoint>/v1/projects/<project\_id>  
Request body must be empty  
Response body: if successful it contains JSON data with the following structure  
GET https://<transcoder-api-endpoint>/v1/projects/5

{

"data": {

"id": 5,

"input\_bucket": "p10\_input\_images",

"name": "project10",

"output\_bucket": "p10\_output\_images",

"state": "active"

}

}

**Get Project Configuration**GET https://<transcoder-api-endpoint>/v1/projects/<project\_id>/configuration  
Request body must be empty  
Response body: if successful it contains JSON data with the following structure  
GET https://<transcoder-api-endpoint>/v1/projects/5/configuration  
  
{  
 "data": {

"TC\_DB\_HOST": "10.0.2.241",

"TC\_DB\_NAME": "tc",

"TC\_DB\_USER": "tc",

"TC\_DST\_BUCKET": "p5\_output\_images",

"TC\_FFMPEG\_CONFIG": " -map v:0 -s:0 1920x1080 -b:v:0 5M -maxrate 5M -minrate 5M -bufsize 10M -map v:0 -s:1 1280x720 -b:v:1 3M -maxrate 3M -minrate 3M -bufsize 3M -map v:0 -s:2 640x360 -b:v:2 1M -maxrate 1M -minrate 1M -bufsize 1M -map a:0 -map a:0 -map a:0 -c:a aac -b:a 128k -ac 1 -ar 44100 -g 48 -sc\_threshold 0 -c:v libx264 -f hls -hls\_time 5 -hls\_playlist\_type vod -hls\_segment\_filename stream\_%v\_%03d.ts -master\_pl\_name master.m3u8 ",

"TC\_FFMPEG\_HLS\_BASE\_URL": "",

"TC\_FFMPEG\_STREAM\_MAP": "v:0,a:0 v:1,a:1 v:2,a:2",

"TC\_IMAGE\_LABEL": "1.0",

"TC\_IMAGE\_LABTC\_CPU\_REQUEST\_PER\_JOB": "1.5",

"TC\_OCIR\_REPO": "iad.ocir.io/ocisateam/mikep",

"TC\_OKE\_NODEPOOL": "tc-nodepool",

"TC\_OS\_NAMESPACE": "ocisateam",

"TC\_PROJECT\_NAME": "project5",

"TC\_SRC\_BUCKET": "p10\_input\_images",

"TC\_STREAM\_ENDPOINT": "https://cell-1.streaming.us-ashburn-1.oci.oraclecloud.com",

"TC\_STREAM\_OCID": "ocid1.stream.oc1.iad.amaaaaaaxkh5s6iazz3pmitf3lx2lqumthz2a4xk3xyr7kbcyumeiz53ia3a"

}

**Update Project Configuration**  
PUT https://<transcoder-api-endpoint>/v1/projects/<project\_id>/configuration  
See below examples of request body JSON data.

Example1**:** update input and outputbucket names:

{

"TC\_SRC\_BUCKET": "new\_input\_images",’

"TC\_DST\_BUCKET": "new\_output\_images",

}

Example2: update FFMPEG transcoding parameters:

{

"TC\_FFMPEG\_CONFIG":" -map v:0 -s:0 1920x1080 -b:v:0 5M -maxrate 5M -minrate 5M -bufsize 10M -map v:0 -s:1 1280x720 -b:v:1 3M -maxrate 3M -minrate 3M -bufsize 3M -map v:0 -s:2 640x360 -b:v:2 2M -maxrate 2M -minrate 2M -bufsize 1M -map a:0 -map a:0 -map a:0 -c:a aac -b:a 128k -ac 1 -ar 44100 -g 48 -sc\_threshold 0 -c:v libx264 -f hls -hls\_time 5 -hls\_playlist\_type vod -hls\_segment\_filename stream\_%v\_%03d.ts -master\_pl\_name master.m3u8 ",

"TC\_FFMPEG\_STREAM\_MAP":"v:0,a:0 v:1,a:1 v:2,a:2"

}

If successful, the response body is empty

**Create Project**  
POST https://<transcoder-api-endpoint>/v1/projects  
See below examples of request body JSON data  
  
Example1:

{

"TC\_PROJECT\_NAME":"project20",

"TC\_SRC\_BUCKET":"p20\_input\_images",

"TC\_DST\_BUCKET":"p20\_output\_images",

}

Example2:

{

"TC\_PROJECT\_NAME":"project20",

"TC\_SRC\_BUCKET":"p20\_input\_images",

"TC\_DST\_BUCKET":"p20\_output\_images",

"TC\_FFMPEG\_CONFIG":" -map v:0 -s:0 1920x1080 -b:v:0 5M -maxrate 5M -minrate 5M -bufsize 10M -map v:0 -s:1 1280x720 -b:v:1 3M -maxrate 3M -minrate 3M -bufsize 3M -map v:0 -s:2 640x360 -b:v:2 2M -maxrate 2M -minrate 2M -bufsize 1M -map a:0 -map a:0 -map a:0 -c:a aac -b:a 128k -ac 1 -ar 44100 -g 48 -sc\_threshold 0 -c:v libx264 -f hls -hls\_time 5 -hls\_playlist\_type vod -hls\_segment\_filename stream\_%v\_%03d.ts -master\_pl\_name master.m3u8 ",

"TC\_FFMPEG\_STREAM\_MAP":"v:0,a:0 v:1,a:1 v:2,a:2"

}

Variables that are not set in the request body will be set to the default values.

Response body: if successful it contains JSON data of the created project in the following format:

{

"data": {

"id": 18,

"input\_bucket": "p21\_input\_images",

"name": "project21",

"output\_bucket": "p21\_output\_images",

"state": "active"

}

}

**Update Project State**  
PUT https://<transcoder-api-endpoint>/v1/projects/<project\_id>

Request body must contain JSON with project state value.  
  
To deactivate a project:  
{

"state":"inactive"

}

To activate a project:  
{

"state":"active"

}

If successful, the response body is empty  
  
  
**Get Project Jobs**  
GET https://<transcoder-api-endpoint>/v1/projects/<project\_id>/jobs  
Request body: must be empty.  
Response body: if successful it contains data with the following structure  
https://<transcoder-api-endpoint>/v1/projects/5/jobs  
{

"data": [

{

"end\_time": "Mon, 18 Oct 2021 22:52:31 GMT",

"id": 3,

"input\_bucket": "p10\_input\_images",

"input\_file": "video1.mov",

"output\_bucket": "p10\_output\_images",

"project\_id": 5,

"start\_time": "Mon, 18 Oct 2021 22:28:53 GMT",

"status": "COMPLETED",

"transcoded\_path": "video1.mov/master.m3u8"

}

]

}

**Get Job Details**  
GET https://<transcoder-api-endpoint>/v1/jobs/<job\_id>  
Request body: must be empty  
Request response: if successful it contains data with the following structure  
https://<transcoder-api-endpoint>/v1/jobs/3  
{

"data": [

{

"end\_time": "Mon, 18 Oct 2021 22:52:31 GMT",

"id": 3,

"input\_bucket": "p10\_input\_images",

"input\_file": "video1.mov",

"output\_bucket": "p10\_output\_images",

"project\_id": 5,

"start\_time": "Mon, 18 Oct 2021 22:28:53 GMT",

"status": "COMPLETED",

"transcoded\_path": "video1.mov/master.m3u8"

}

]

}

Get Job Details call accepts <job\_id> set to the wild card:  
https://<transcoder-api-endpoint>/v1/jobs/\*

If set it returns all jobs from all projects.  
  
**Get Project Transcoded Files**

https://<transcoder-api-endpoint>/v1/project/<project\_id>/objects

Request body: must be empty

Request response: if successful it contains data with the following structure  
https://<transcoder-api-endpoint>/v1/project/7/objects

{

"data": [

{

"bucket": "output\_images",

"create\_time": "Tue, 19 Oct 2021 15:03:46 GMT",

"id": 7,

"job\_id": 16,

"name": "video2.mov",

"object": "video2.mov/master.m3u8",

"thumbnail": "thumbnails/video2.mov\_thumb.png",

"url": ""

},

{

"bucket": "output\_images",

"create\_time": "Wed, 20 Oct 2021 16:04:40 GMT",

"id": 9,

"job\_id": 17,

"name": "video1.mov",

"object": "video1.mov/master.m3u8",

"thumbnail": "thumbnails/video1.mov\_thumb.png",

"url": ""

}

]

}

Get Project Transcoded Files call accepts <project\_id> set to the wild card:  
https://<transcoder-api-endpoint>/v1/jobs/\*

If set it returns all transcoded files from all projects.