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ORACLE Analytics

Oracle Analytics Cloud
Rest API

Prerequisites

- ✓ BI Service Administrator role in Oracle Analytics Cloud to manage snapshots using REST APIs.
- ✓ OCI User
- ✓ Object Storage Bucket for Storing Snapshot
- ✓ OCI IAM policy that enables your Oracle Analytics Cloud instance to access the storage bucket
 - E.g. Allow any-user TO manage objects IN compartment myOAC-compartment where request.principal.id='ocid1.analyticsinstancedev.oc1.iad.test.aaaaaaaabbbbbbbbbccccccccdda dddddeeeeeeeefffffffaaaaaaaaahhhh'





Authentication

- ✓ Create Confidential Application
 - > Refer Here
- ✓ Get a Bearer Token



- curl --request POST \
 --url 'https://<IDCS-instance>.identity.oraclecloud.com/oauth2/v1/token' \
 --header 'authorization: Basic encoded clientID:ClientSecret>' \
 --header 'content-type: applicatio <base64 n/x-www-form-urlencoded:charset=UTF-8' \ -d
- 'grant_type=password&username=<username>&password=<password>&scope=<scope copied from resource section in IDCS confidential application>'

Instructions:

Base 64 conversion Command :- echo -n ClinetID:ClientSecret | base64 For IDCS Instance :- OCI OAC Home Page →Additional Details →Domain URL

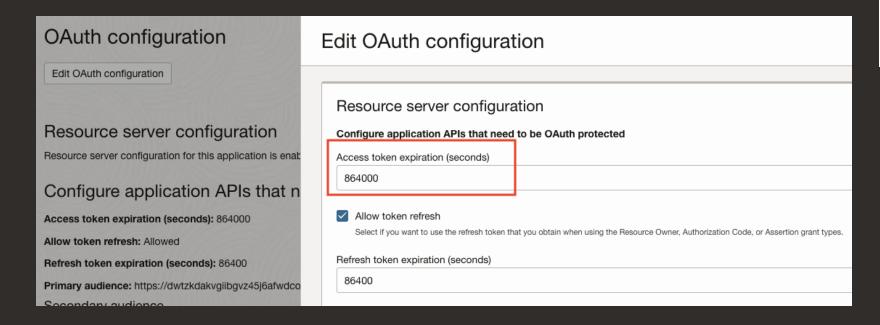
- ✓ Increase Bearer Token Expiry Time
- ✓ Generate an API Signing Key



Authentication - Increase Bearer Token Expiry Time

Increase Access token expiration in OCI Domain – Oracle cloud service of Analytics Instance

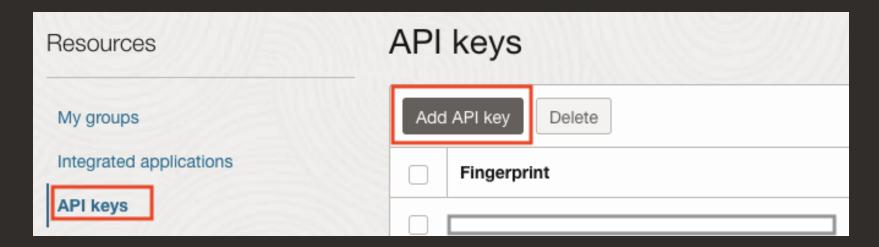
Identity → Domains → <Your Domain> → Oracle Cloud Services





Authentication -Generate an API Signing Key

Identity → My Profile → API Keys





- > Encode the downloaded private key in wrap in Base64 format
 - > cat myprivate-key.pem | base64 -w 0 > mywrapped-private-key.pem

Migration Process

- ✓ Create Snapshot
- ✓ Register Snapshot
- ✓ Restore Snapshot



Migration Process — Create Snapshot

✓ Create Snapshot Json File

```
"type": "CREATE",
"name": "<myfirstsnapshot>",
"storage": {
  "type": "OCI NATIVE",
  "bucket": "<mysnapshot-bucket>",
  "auth": {
    "type": "OSS_AUTH_OCI_USER_ID",
    "ociRegion": "<us-ashburn-1>",
    "ociTenancyId": "",
    "ociUserId": "<your tenancy OCID>",
    "ociKeyFingerprint": "<your fingerprint key>",
    "ociPrivateKeyWrapped": "<your wrapped private key>"
"bar": {
  "uri": "file:///myfolder/myfirstsnapshot.bar",
  "password": "snapshotPassword123"
```



Migration Process — Create Snapshot

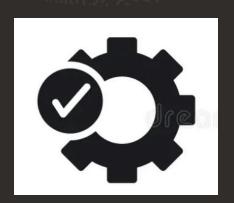
✓ Create Snapshot

curl -i --header "Authorization: Bearer <**token**>" --header "Content-Type: application/json" --request POST https://<**hostname**>/api/20210901/snapshots -d @<**snapshot.json**>

(Note the work Request ID)



curl -i --header "Authorization: Bearer <**token**>" --request GET https://<**hostname**>/api/20210901/workRequests/<**work Request ID**>



Migration Process — Register Snapshot

✓ Create Snapshot Json File

```
"type": "REGISTER",
"name": "<myfirstsnapshot>",
"storage": {
  "type": "OCI NATIVE",
  "bucket": "<mysnapshot-bucket>",
  "auth": {
    "type": "OSS AUTH OCI USER ID",
    "ociRegion": "<us-ashburn-1>",
    "ociTenancyId": "",
    "ociUserId": "<your tenancy OCID>",
    "ociKeyFingerprint": "<your fingerprint key>",
    "ociPrivateKeyWrapped": "<your wrapped private key>"
"bar": {
  "uri": "file:///myfolder/myfirstsnapshot.bar",
  "password": "snapshotPassword123"
```



Migration Process – Register Snapshot

✓ Register Snapshot

curl -i --header "Authorization: Bearer <**token**>" --header "Content-Type: application/json" --request POST https://<**hostname**>/api/20210901/snapshots -d @<**snapshot.json**>

(Note the work Request ID)



✓ Check work Request Status

curl -i --header "Authorization: Bearer <**token**>" --request GET https://<**hostname**>/api/20210901/workRequests/<**work Request ID**>

(Note Snapshot Id)

Migration Process — Restore Snapshot

✓ Create Snapshot Json File



✓ Restore Snapshot

```
curl -i --header "Authorization: Bearer <token>" \
--header "Content-Type: application/json" --request POST https://<hostname>/api/20210901/system/actions/restoreSnapshot -d
@<snapshot.json>
```

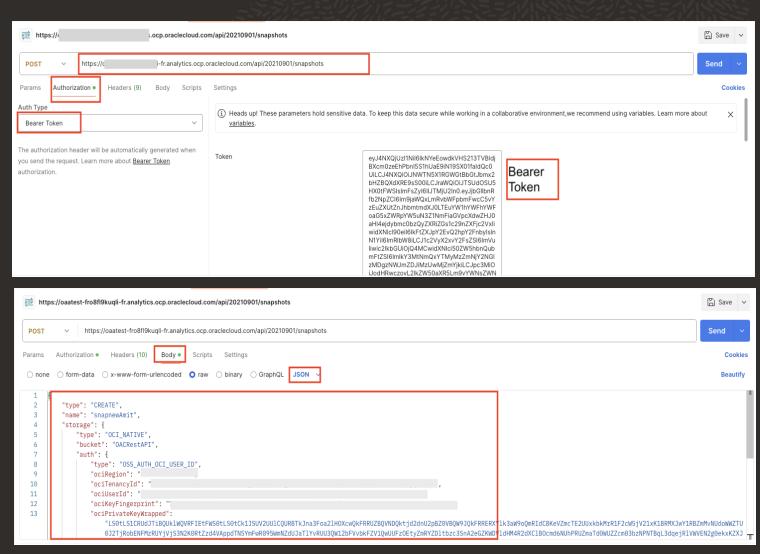
✓ Check work Request Status

curl -i --header "Authorization: Bearer <token>" --request GET https://<hostname>/api/20210901/workRequests/<work Request ID>



Rest API Execution using Postman

- Authorization Bearer Token
- ➤ Body JSON File



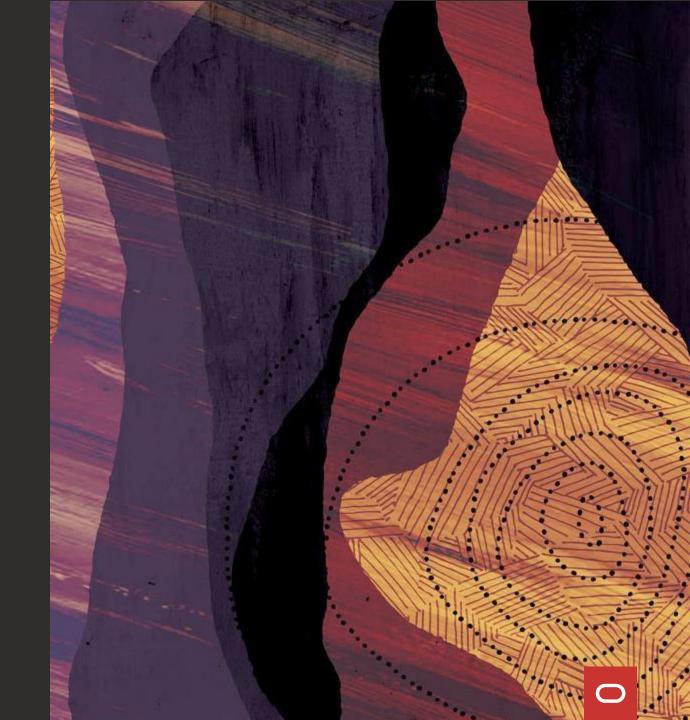


Documentation

- ✓ Oracle Analytics Cloud Rest API Documentation
- ✓ Oracle Analytics Cloud Rest API Blog



Q&A



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