Monitoring Operations Using the REST API



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Oracle Cloud Infrastructure REST API





Monitor

Take Action



Connecting to the API



Information needed

- Tenancy OCID
- User OCID
- Compartment OCID
- Key fingerprint
- Private key path

HTTPS and TLS 1.2 required

Requests must be signed



Signing a Request

Form the HTTPS request

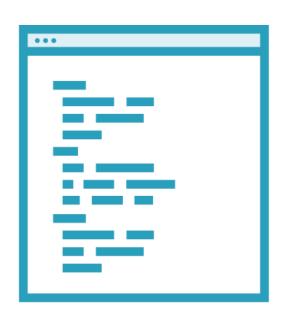
Create signing string based on parts of the request

Create signature from signing string using private key and RSA-SHA256 algorithm

Add signature and other required information to Authorization header



Signing Functions from Oracle



- Bash
- PowerShell
- C#
- Java
- NodeJS
- Perl
- PHP
- Python
- Ruby
- Go



https://containerengine.us-phoenix-1.oraclecloud.com/20180222/workRequests

https://<API>.<region>.oraclecloud.com/<API-version>/
<endpoint>/<path-parameter>?<query-parameter>

Container Engine for Kubernetes API

API, region, and API-version constant for examples

Some parameters are in the path and some are query parameters



/workRequests?compartmentId=ocid1.tenancy.oc1..aaaaaaaax62oee4x4cfvdg4dk7b4nw3fdrnph3qsfzualcg5vdnityvb3p7a

GET /workRequests?<compartmentId>

ListWorkRequests

compartmentId - required query parameter

Returns a list of all work requests in the compartment



/workRequests/ocid1.clustersworkrequest.oc1.phx.aaaaaaaaaeywenbvgaytgmztguzwczbymy2ggmrwga3gendbgw4dinzymzsg/logs?compartmentId=ocid1.tenancy.oc1..aaaaaaaax62oee4x4cfvdg4dk7b4nw3fdrnph3qsfzualcg5vdnityvb3p7a

GET /workRequests/<workRequestId>/logs?<compartmentId>

ListWorkRequestLogs

workRequestId - required path parameter

compartmentId - required query parameter

Returns a list of logs for the work request



/workRequests/ocid1.clustersworkrequest.oc1.phx.aaaaaaaaaaaaaaaa3wmnzymq3dmzleguzgmojvgiywkntggy3gcmzzmw4gezrumi2t/errors?compartmentId=ocid1.tenancy.oc1.aaaaaaaax62oee4x4cfvdg4dk7b4nw3fdrnph3qsfzualcg5vdnityvb3p7a

GET /workRequests/<workRequestId>/errors?<compartmentId>

ListWorkRequestErrors

workRequestId - required path parameter

compartmentId - required query parameter

Returns a list of errors for the work request



/workRequests/ocid1.clustersworkrequest.oc1.phx.aaaaaaaaaeywenbvgaytgmztguzwczbymy2ggmrwga3gendbgw4dinzymzsg

GET /workRequests/<workRequestId>

GetWorkRequest

workRequestId - required path parameter

Returns the details of a work request



/workRequests/ocid1.clustersworkrequest.oc1.phx.aaaaaaaaaaaaaswmnzymq3dmzleguzgmojvgiywkntggy3gcmzzmw4gezrumi2t

DELETE /workRequests/<workRequestId>

DeleteWorkRequest

workRequestId - required path parameter

Cancel a work request that has not started



Demo



Gather information to sign request

Signing function options

Call the Oracle Cloud Infrastructure REST API

- ListWorkRequests
- ListWorkRequestLogs
- ListWorkRequestErrors
- GetWorkRequest
- DeleteWorkRequest



Summary



Connect to the Oracle Cloud Infrastructure REST API

Monitor container operations

