
cloudify-rest-client Documentation

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What is it?

This rest client provides access to the REST API exposed by a [Cloudify manager](#).

Basic Usage

This client's API tries to be as consistent as possible when accessing different resource types. The example below will fetch the blueprints currently uploaded to the manager.

```
from cloudify_rest_client import CloudifyClient

client = CloudifyClient('http://MANAGER_HOST')
blueprints = client.blueprints.list()

for blueprint in blueprints:
    print blueprint.id
```

Contents:

2.1 Blueprints API

class `cloudify_rest_client.blueprints.Blueprint` (*blueprint*)
Bases: dict

id

Returns The identifier of the blueprint.

created_at

Returns Timestamp of blueprint creation.

plan

Gets the plan the blueprint represents: nodes, relationships etc...

Returns The content of the blueprint.

class `cloudify_rest_client.blueprints.BlueprintsClient` (*api*)
Bases: object

list (*_include=None*)

Returns a list of currently stored blueprints.

Parameters *_include* – List of fields to include in response.

Returns Blueprints list.

upload (*blueprint_path, blueprint_id*)

Uploads a blueprint to Cloudify's manager.

Parameters

- **blueprint_path** – Main blueprint yaml file path.
- **blueprint_id** – Id of the uploaded blueprint.

Returns Created blueprint.

Blueprint path should point to the main yaml file of the blueprint to be uploaded. Its containing folder will be packed to an archive and get uploaded to the manager. Blueprint ID parameter is available for specifying the blueprint's unique Id.

get (*blueprint_id*, *_include=None*)
Gets a blueprint by its id.

Parameters

- **blueprint_id** – Blueprint's id to get.
- **_include** – List of fields to include in response.

Returns The blueprint.

delete (*blueprint_id*)
Deletes the blueprint whose id matches the provided blueprint id.

Parameters **blueprint_id** – The id of the blueprint to be deleted.

Returns Deleted blueprint.

download (*blueprint_id*, *output_file=None*)
Downloads a previously uploaded blueprint from Cloudify's manager.

Parameters

- **blueprint_id** – The Id of the blueprint to be downloaded.
- **output_file** – The file path of the downloaded blueprint file (optional)

Returns The file path of the downloaded blueprint.

2.2 Client API

class `cloudify_rest_client.client.CloudifyClient` (*host='localhost', port=80*)
Bases: `object`
Cloudify's management client.

2.3 Deployments API

class `cloudify_rest_client.deployments.Deployment` (*deployment*)
Bases: `dict`
Cloudify deployment.

id

Returns The identifier of the deployment.

blueprint_id

Returns The identifier of the blueprint this deployment belongs to.

workflows

Returns The workflows of this deployment.

inputs

Returns The inputs provided on deployment creation.

outputs

Returns The outputs definition of this deployment.

class `cloudify_rest_client.deployments.Workflow` (*workflow*)

Bases: dict

id

Returns The workflow's id

name

Returns The workflow's name

parameters

Returns The workflow's parameters

class `cloudify_rest_client.deployments.DeploymentOutputs` (*outputs*)

Bases: dict

deployment_id

Deployment Id the outputs belong to.

outputs

Deployment outputs as dict.

class `cloudify_rest_client.deployments.DeploymentOutputsClient` (*api*)

Bases: object

get (*deployment_id*)

Gets the outputs for the provided deployment's Id.

Parameters `deployment_id` – Deployment Id to get outputs for.

Returns Outputs as dict.

class `cloudify_rest_client.deployments.DeploymentModificationNodeInstances` (*node_instances*)

Bases: dict

added_and_related

List of added nodes and nodes that are related to them

removed_and_related

List of removed nodes and nodes that are related to them

class `cloudify_rest_client.deployments.DeploymentModification` (*modification*)

Bases: dict

deployment_id

Deployment Id the outputs belong to.

node_instances

Dict containing `added_and_related` and `remove_and_related` node instances list

modified_nodes

Original request modified nodes dict

class `cloudify_rest_client.deployments.DeploymentModifyClient` (*api*)

Bases: object

start (*deployment_id, nodes*)

Start deployment modification.

Parameters

- **deployment_id** – The deployment id
- **nodes** – the nodes to modify

Returns DeploymentModification dict

Return type DeploymentModification

finish (*deployment_id, modification*)

Finish deployment modification

Parameters

- **deployment_id** – The deployment id
- **modification** – The modification response received on ‘start’

class `cloudify_rest_client.deployments.DeploymentsClient` (*api*)

Bases: `object`

list (*_include=None*)

Returns a list of all deployments.

Parameters **_include** – List of fields to include in response.

Returns Deployments list.

get (*deployment_id, _include=None*)

Returns a deployment by its id.

Parameters

- **deployment_id** – Id of the deployment to get.
- **_include** – List of fields to include in response.

Returns Deployment.

create (*blueprint_id, deployment_id, inputs=None*)

Creates a new deployment for the provided blueprint id and deployment id.

Parameters

- **blueprint_id** – Blueprint id to create a deployment of.
- **deployment_id** – Deployment id of the new created deployment.
- **inputs** – Inputs dict for the deployment.

Returns The created deployment.

delete (*deployment_id, ignore_live_nodes=False*)

Deletes the deployment whose id matches the provided deployment id. By default, deployment with live nodes deletion is not allowed and this behavior can be changed using the `ignore_live_nodes` argument.

Parameters

- **deployment_id** – The deployment’s to be deleted id.
- **ignore_live_nodes** – Determines whether to ignore live nodes.

Returns The deleted deployment.

2.4 Events API

class `cloudify_rest_client.events.EventsClient` (*api*)

Bases: `object`

get (*execution_id, from_event=0, batch_size=100, include_logs=False*)

Returns event for the provided execution id.

Parameters

- **execution_id** – Id of execution to get events for.
- **from_event** – Index of first event to retrieve on pagination.
- **batch_size** – Maximum number of events to retrieve per call.
- **include_logs** – Whether to also get logs.

Returns Events list and total number of currently available events (tuple).

2.5 Exceptions API

exception `cloudify_rest_client.exceptions.CloudifyClientError` (*message, server_traceback=None, status_code=-1, error_code=None*)

Bases: `exceptions.Exception`

exception `cloudify_rest_client.exceptions.DeploymentEnvironmentCreationInProgressError` (*message, server_traceback=None, status_code=-1, error_code=None*)

Bases: `cloudify_rest_client.exceptions.CloudifyClientError`

Raised when there's attempt to execute a deployment workflow and deployment environment creation workflow execution is still running. In such a case, workflow execution should be retried after a reasonable time or after the execution of deployment environment creation workflow has terminated.

ERROR_CODE = 'deployment_environment_creation_in_progress_error'

exception `cloudify_rest_client.exceptions.IllegalExecutionParametersError` (*message, server_traceback=None, status_code=-1, error_code=None*)

Bases: `cloudify_rest_client.exceptions.CloudifyClientError`

Raised when an attempt to execute a workflow with wrong/missing parameters has been made.

ERROR_CODE = 'illegal_execution_parameters_error'

exception `cloudify_rest_client.exceptions.NoSuchIncludeFieldError` (*message, server_traceback=None, status_code=-1, error_code=None*)

Bases: `cloudify_rest_client.exceptions.CloudifyClientError`

Raised when an `_include` query parameter contains a field which does not exist for the queried data model.

ERROR_CODE = 'no_such_include_field_error'

```
exception cloudify_rest_client.exceptions.MissingRequiredDeploymentInputError (message,
                                                                              server_traceback=None,
                                                                              status_code=-1,
                                                                              error_code=None)
```

Bases: `cloudify_rest_client.exceptions.CloudifyClientError`

Raised when a required deployment input was not specified on deployment creation.

ERROR_CODE = 'missing_required_deployment_input_error'

```
exception cloudify_rest_client.exceptions.UnknownDeploymentInputError (message,
                                                                        server_traceback=None,
                                                                        status_code=-1,
                                                                        error_code=None)
```

Bases: `cloudify_rest_client.exceptions.CloudifyClientError`

Raised when an unexpected input was specified on deployment creation.

ERROR_CODE = 'unknown_deployment_input_error'

```
exception cloudify_rest_client.exceptions.FunctionsEvaluationError (message,
                                                                    server_traceback=None,
                                                                    status_code=-1,
                                                                    error_code=None)
```

Bases: `cloudify_rest_client.exceptions.CloudifyClientError`

Raised when function evaluation failed.

ERROR_CODE = 'functions_evaluation_error'

```
exception cloudify_rest_client.exceptions.UnknownModificationStageError (message,
                                                                           server_traceback=None,
                                                                           status_code=-1,
                                                                           error_code=None)
```

Bases: `cloudify_rest_client.exceptions.CloudifyClientError`

Raised when an unknown modification stage was provided.

ERROR_CODE = 'unknown_modification_stage_error'

2.6 Executions API

```
class cloudify_rest_client.executions.Execution (execution)
```

Bases: `dict`

Cloudify workflow execution.

id

Returns The execution's id.

deployment_id

Returns The deployment's id this execution is related to.

status

Returns The execution's status.

error

Returns The execution error in a case of failure, otherwise None.

workflow_id

Returns The id of the workflow this execution represents.

parameters

Returns The execution's parameters

created_at

Returns The execution creation time.

class `cloudify_rest_client.executions.ExecutionClient` (*api*)

Bases: `object`

list (*deployment_id=None, _include=None*)

Returns a list of executions.

Parameters

- **deployment_id** – Optional deployment id to get executions for.
- **_include** – List of fields to include in response.

Returns Executions list.

get (*execution_id, _include=None*)

Get execution by its id.

Parameters

- **execution_id** – Id of the execution to get.
- **_include** – List of fields to include in response.

Returns Execution.

update (*execution_id, status, error=None*)

Update execution with the provided status and optional error.

Parameters

- **execution_id** – Id of the execution to update.
- **status** – Updated execution status.
- **error** – Updated execution error (optional).

Returns Updated execution.

start (*deployment_id, workflow_id, parameters=None, allow_custom_parameters=False, force=False*)

Starts a deployment's workflow execution whose id is provided.

Parameters

- **deployment_id** – The deployment's id to execute a workflow for.
- **workflow_id** – The workflow to be executed id.

- **parameters** – Parameters for the workflow execution.
- **allow_custom_parameters** – Determines whether to allow parameters which weren't defined in the workflow parameters schema in the blueprint.
- **force** – Determines whether to force the execution of the workflow in a case where there's an already running execution for this deployment.

Raises `IllegalExecutionParametersError`

Returns The created execution.

cancel (*execution_id, force=False*)

Cancels the execution which matches the provided execution id.

Parameters

- **execution_id** – Id of the execution to cancel.
- **force** – Boolean describing whether to send a 'cancel' or a 'force-cancel' action # NOQA

Returns Cancelled execution.

2.7 Manager API

class `cloudify_rest_client.manager.ManagerClient` (*api*)

Bases: `object`

get_status ()

Returns Cloudify's management machine status.

get_version ()

Returns Cloudify's management machine version information.

get_context (*_include=None*)

Gets the context which was stored on management machine bootstrap. The context contains Cloudify specific information and Cloud provider specific information.

Parameters **_include** – List of fields to include in response.

Returns Context stored in manager.

create_context (*name, context*)

Creates context in Cloudify's management machine. This method is usually invoked right after management machine bootstrap with relevant Cloudify and cloud provider context information.

Parameters

- **name** – Cloud provider name.
- **context** – Context as dict.

Returns Create context result.

2.8 Node Instances API

class `cloudify_rest_client.node_instances.NodeInstance` (*node_instance*)

Bases: `dict`

Cloudify node instance.

id**Returns** The identifier of the node instance.**node_id****Returns** The identifier of the node whom this is in instance of.**relationships****Returns** The node instance relationships.**host_id****Returns** The node instance host_id.**deployment_id****Returns** The deployment id the node instance belongs to.**runtime_properties****Returns** The runtime properties of the node instance.**state****Returns** The current state of the node instance.**version****Returns** The current version of the node instance (used for optimistic locking on update)**class** `cloudify_rest_client.node_instances.NodeInstancesClient` (*api*)Bases: `object`**get** (*node_instance_id*, *_include=None*)

Returns the node instance for the provided node instance id.

Parameters

- **node_instance_id** – The identifier of the node instance to get.
- **_include** – List of fields to include in response.

Returns The retrieved node instance.**update** (*node_instance_id*, *state=None*, *runtime_properties=None*, *version=0*)

Update node instance with the provided state & runtime_properties.

Parameters

- **node_instance_id** – The identifier of the node instance to update.
- **state** – The updated state.
- **runtime_properties** – The updated runtime properties.
- **version** – Current version value of this node instance in Cloudify's storage (used for optimistic locking).

Returns The updated node instance.**list** (*deployment_id=None*, *node_name=None*, *_include=None*)

Returns a list of node instances which belong to the deployment identified by the provided deployment id.

Parameters

- **deployment_id** – Optional deployment id to list node instances for.
- **node_name** – Optional node id to only fetch node instances with this name

- **_include** – List of fields to include in response.

Returns Node instances.

Return type list

2.9 Nodes API

class `cloudify_rest_client.nodes.Node` (*node_instance*)

Bases: dict

Cloudify node.

id

Returns The identifier of the node.

deployment_id

Returns The deployment id the node belongs to.

properties

Returns The static properties of the node.

operations

Returns The node operations mapped to plugins.

Return type dict

relationships

Returns The node relationships with other nodes.

Return type list

blueprint_id

Returns The id of the blueprint this node belongs to.

Return type str

plugins

Returns The plugins this node has operations mapped to.

Return type dict

number_of_instances

Returns The number of instances this node has.

Return type int

deploy_number_of_instances

Returns The number of instances this set for this node when the deployment was created.

Return type int

host_id

Returns The id of the node instance which hosts this node.

Return type str

type_hierarchy

Returns The type hierarchy of this node.

Return type list

type

Returns The type of this node.

Return type str

class `cloudify_rest_client.nodes.NodesClient` (*api*)

Bases: object

list (*deployment_id=None, node_id=None, _include=None*)

Returns a list of nodes which belong to the deployment identified by the provided deployment id.

Parameters

- **deployment_id** – The deployment’s id to list nodes for.
- **node_id** – If provided, returns only the requested node.
- **_include** – List of fields to include in response.

Returns Nodes.

Return type list

get (*deployment_id, node_id, _include=None*)

Returns the node which belongs to the deployment identified by the provided deployment id .

Parameters

- **deployment_id** – The deployment’s id of the node.
- **node_id** – The node id.
- **_include** – List of fields to include in response.

Returns Nodes.

Return type Node

2.10 Search API

class `cloudify_rest_client.search.SearchClient` (*api*)

Bases: object

run_query (*query*)

Run the provided Elasticsearch query.

Parameters **query** – Elasticsearch query.

Returns Elasticsearch result hits.

2.11 Evaluate API

class `cloudify_rest_client.evaluate.EvaluatedFunctions` (*evaluated_functions*)

Bases: dict

Evaluated functions.

deployment_id

Returns The deployment id this request belongs to.

payload

Returns The evaluation payload.

class `cloudify_rest_client.evaluate.EvaluateClient` (*api*)

Bases: `object`

functions (*deployment_id, context, payload*)

Evaluate intrinsic functions in payload in respect to the provided context.

Parameters

- **deployment_id** – The deployment’s id of the node.
- **context** – The processing context (dict with optional self, source, target).
- **payload** – The payload to process.

Returns The payload with its intrinsic functions references evaluated.

Return type `EvaluatedFunctions`

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