cloudify-rest-client Documentation

Release 3.4a3

Gigaspaces

March 08, 2016

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CHAPTER 1

What is it?

This rest client provides access to the REST API exposed by a Cloudify manager.

CHAPTER 2

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.

main_file_name

Returns Blueprint main file name.

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

Returns The content of the blueprint.

description
Gets the description of the blueprint

Returns The description of the blueprint.

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

list(*_include=None*, ***kwargs*)
Returns a list of currently stored blueprints.

Parameters

- **_include** – List of fields to include in response.
- **kwargs** – Optional filter fields. For a list of available fields see the REST service's models.BlueprintState.fields

Returns Blueprints list.

publish_archive(*archive_location*, *blueprint_id*, *blueprint_filename=None*)
Publishes a blueprint archive to the Cloudify manager.

Parameters

- **archive_location** – Path or Url to the archive file.
- **blueprint_id** – Id of the uploaded blueprint.
- **blueprint_filename** – The archive's main blueprint yaml filename.

Returns Created blueprint.

Archive file should contain a single directory in which there is a blueprint file named *blueprint_filename* (if *blueprint_filename* is None, this value will be passed to the REST service where a default value should be used). Blueprint ID parameter is available for specifying the blueprint's unique Id.

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.**StreamedResponse**(*response*)
Bases: object

headers

bytes_stream(*chunk_size=8192*)

lines_stream()

close()

class cloudify_rest_client.client.**CloudifyClient**(*host='localhost'*, *port=None*, *protocol='http'*, *api_version='v2'*, *headers=None*, *query_params=None*, *cert=None*, *trust_all=False*)
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.**DeploymentsClient**(*api*)
Bases: object

list(*_include=None*, ***kwargs*)
Returns a list of all deployments.

Parameters

- **_include** – List of fields to include in response.
- **kwargs** – Optional filter fields. for a list of available fields see the REST service's models.Deployment.fields

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 Deployment Modfications API

class cloudify_rest_client.deployment_modifications.**DeploymentModificationNodeInstances**(*node_i*
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

before_modification
List of node instances with their state as it existed before the deployment modification started

before_rollback
If deployment modification was rolledback, this will be a list of node instances with their state as it existed before the deployment modification was rolledback

class cloudify_rest_client.deployment_modifications.**DeploymentModification**(*modification*)
Bases: dict

STARTED = 'started'

FINISHED = 'finished'

ROLLEDBACK = 'rolledback'

id
Deployment modification id

status
Deployment modification status

deployment_id
Deployment Id the outputs belong to.

node_instances
Dict containing added_and_related and remove_and_related node instances list

modified_nodes
Dict containing original modified nodes that started this modification

created_at
Deployment modification creation date

ended_at
Deployment modification end date

context
Dict containing context that has been attached to modification.

This context has no predefined schema. Its structure can be whatever has been attached to the modification when it was started.

class cloudify_rest_client.deployment_modifications.**DeploymentModificationsClient**(*api*)
Bases: object

list (*deployment_id=None*, *_include=None*, ***kwargs*)
List deployment modifications

Parameters

- **deployment_id** – The deployment id (optional)
- **kwargs** – Optional filter fields. for a list of available fields see the REST service's models.DeploymentModification.fields

start (*deployment_id*, *nodes*, *context=None*)
Start deployment modification.

Parameters

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

Returns DeploymentModification dict

Return type *DeploymentModification*

get (*modification_id*, *_include=None*)
Get deployment modification

Parameters **modification_id** – The modification id

finish (*modification_id*)
Finish deployment modification

Parameters **modification_id** – The modification id

rollback (*modification_id*)
Rollback deployment modification

Parameters **modification_id** – The modification id

2.5 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).

list (*include_logs=False*, *message=None*, *from_datetime=None*, *to_datetime=None*, *_include=None*, ***kwargs*)
List events

Parameters

- **include_logs** – Whether to also get logs.

- **message** – an expression used for wildcard search events by their message text
- **from_datetime** – search for events later or equal to datetime
- **to_datetime** – search for events earlier or equal to datetime
- **_include** – return only an exclusive list of fields

Returns dict with 'metadata' and 'items' fields

2.6 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_tr* *status_co* *1*, *er-* *ror_code*

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.**DeploymentEnvironmentCreationPendingError**(*message*, *server_traceb* *status_code=* *1*, *er-* *ror_code=No*

Bases: *cloudify_rest_client.exceptions.CloudifyClientError*

Raised when there's attempt to execute a deployment workflow and deployment environment creation workflow execution is pending. 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_pending_error'

exception cloudify_rest_client.exceptions.**IllegalExecutionParametersError**(*message*, *server_traceback=None*, *status_code=-* *1*, *er-* *ror_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'

exception cloudify_rest_client.exceptions.**ExistingStartedDeploymentModificationError**(*message*, *server_trace*, *status_code*, *1*, *error_code=N*

Bases: *cloudify_rest_client.exceptions.CloudifyClientError*

Raised when a deployment modification start is attempted while another deployment modification is currently started

ERROR_CODE = 'existing_started_deployment_modification_error'

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

Bases: *cloudify_rest_client.exceptions.CloudifyClientError*

Raised when a deployment modification finish/rollback is attempted on a deployment modification that has already been finished/rolledback

ERROR_CODE = 'deployment_modification_already_ended_error'

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

Bases: *cloudify_rest_client.exceptions.CloudifyClientError*

Raised when a call has been made to a secured resource with an unauthorized user (no credentials / bad credentials)

ERROR_CODE = 'unauthorized_error'

cloudify_rest_client.exceptions.**error**

alias of *UserUnauthorizedError*

2.7 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

is_system_workflow

Returns True if the workflow executed is a system workflow, otherwise False

created_at

Returns The execution creation time.

class cloudify_rest_client.executions.**ExecutionsClient**(*api*)
Bases: object

list(*deployment_id=None*, *include_system_workflows=False*, *_include=None*, ***kwargs*)
Returns a list of executions.

Parameters

- **deployment_id** – Optional deployment id to get executions for.
- **_include_system_workflows** – Include executions of system workflows
- **_include** – List of fields to include in response.
- **kwargs** – Optional filter fields. For a list of available fields see the REST service's models.Execution.fields

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.

2.8 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.

update_context(*name*, *context*)
Updates context in Cloudify's management machine. The context is imperative for the manager to function properly, only use this method if you know exactly what you are doing. Note that if the provider context does not exist, this call will result with an error.

Parameters

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

2.9 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*, *node_id=None*, *_include=None*, ***kwargs*)
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 name to only fetch node instances with this name. The node_name positional argument will be deprecated as of the next rest-client version. Use node_id instead.
- **node_id** – Equivalent to node_name.
- **_include** – List of fields to include in response.
- **kwargs** – Optional filter fields. for a list of available fields see the REST service's models.DeploymentNodeInstance.fields

Returns Node instances.

Return type *list*

2.10 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

planned_number_of_instances

Returns The planned 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*, ***kwargs*)
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. This parameter is deprecated, use 'id' instead.
- **_include** – List of fields to include in response.
- **kwargs** – Optional filter fields. for a list of available fields see the REST service's models.DeploymentNode.fields

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*

2.11 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.

2.12 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*

2.13 Tokens API

class cloudify_rest_client.tokens.**Token**(*token*)
Bases: dict

value

Returns The value of the token.

class cloudify_rest_client.tokens.**TokensClient**(*api*)
Bases: object

get()
Get an authentication token.

Return type *Token*

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