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1. Introduction

Enomalism REST API 2.1b3

Enomaly Inc.

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Welcome to the Enomalism REST API. This document is intended to outline in much detail, the exposed Enomalism REST API. What exactly is a REST API? A good outline of REST principles can be found at http://en.wikipedia.org/wiki/Representational_State_Transfer.

Each Enomalism REST API call will return the result in JSON format. JSON is a lightweight format that virually every programming language can easily parse.

Most of the URIs that comprise the Enomalism REST API have variable paths. A path takes the following form:

```
/segment/segment/segment/
```

Each segment in a given path has the ability to be dynamically interchangeable. That is, in a given URI, one segment is typically a variable that is processed by the REST controller while the remaining segments are static. This is only the typical case. There could potentially be any number of variable segments in a given URI.

REST controllers can also accept HTTP parameters. These look like typical GET parameters or they could also be submitted via an HTML form. This depends on which HTTP methods the controller supports. For eaxample, the end result of submitting an HTML form is issuing an HTTP POST request. If the contoller we are submitting to supports POST methods, great. If not, we will not get the desired result.

This API reference will explain the different variables and methods are supported by each REST controller.

2. Machine Control

2.1 trigger_status_updates

Trigger status updates for the specified machine.

2.1.1 URL Format

`/rest/machine/<UUID>/trigger_status_updates/`

2.1.2 Path Variables

- `UUID` – The ID of the machine to trigger status updates for.

2.1.3 Supported Methods

- `GET`
- `POST`

2.2 machines

List all machines in Enomalism.

2.2.1 URL Format

`/rest/machines/`

2.2.2 Supported Methods

- `GET`
- `POST`

2.2.3 Return Format

```
{machines: <M>}
```

- `M` – A list of machine ids.

2.3 machine

Identical to *machines*.

2.3.1 URL Format

```
/rest/machine/
```

2.3.2 Supported Methods

- `GET`
- `POST`

2.4 machine/<UUID>

Perform some update on the specified machine or retrieve the machine itself.

2.4.1 URL Format

```
/rest/machine/<UUID>/
```

2.4.2 Path Variables

- `UUID` – The ID of the target machine.

2.4.3 HTTP Variables

- `action` – The action to perform on the machine.
- `name` – The name of the machine. This is only valid when the action is *rename*.
- `xmldesc` – The XML description of the machine. This is only valid when the action is *xmldesc*.
- `puuid` – The ID of the hypervisor of this machine. This is only valid when the action is *set_parent*.

2.4.4 Supported Methods

- `GET`
- `POST`

2.4.5 Return Format

```
{machine: <MID>, errno: <ERR>, message: <MSG>, info=<INFO>,
machine_obj: <MOBJ>, hypervisors: <HVM>}
```

- `MID` – The machine ID.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.
- `INFO` – The machine information.
- `MOBJ` – The machine object.
- `HVM` – The list of hypervisors running on this machine.

2.5 hypervisor/<uuid>

Perform some action on the specified hypervisor.

2.5.1 URL Format

```
/rest/hypervisor/<UUID>/
```

2.5.2 Path Variables

- `UUID` – The ID of the target hypervisor.

2.5.3 Supported Methods

- `GET` – Retrieve the hypervisor itself.
- `DELETE` – Delete the target hypervisor.

2.5.4 Return Format

```
{uuid: <HID>, hypervisor: <HOBJ>, errno: <ERR>, message: <MSG>}
```

- `HID` – The ID of the hypervisor.
- `HOBJ` – The hypervisor object.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.6 machine/<UUID>/hypervisors

Retrieve a list of hypervisors the target machine belongs to or add a hypervisor.

2.6.1 URL Format

```
/rest/machine/<UUID>/hypervisors/
```

2.6.2 Path Variables

- `UUID` – The ID of the target machine.

2.6.3 HTTP Variables

- `virt_class` – The virtualization class of the hypervisor to add.
- `virt_url` – The URL of the hypervisor to add.

2.6.4 Supported Methods

- `GET`
- `POST`

2.6.5 Return Format

```
 {hypervisors: <HVM>, candidates: <CHVM>, errno: <ERR>, message:
<MSG>}
```

- `HVM` – A list of hypervisors.
- `CHVM` – A list of candidate hypervisors.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.7 machine/<UUID>/clusters

Retrieve a list of clusters the target machine belongs to or add a hypervisor.

2.7.1 URL Format

```
/rest/machine/<UUID>/clusters/
```

2.7.2 Path Variables

- `UUID` – The ID of the target machine.

2.7.3 HTTP Variables

- `clusters` – The ID of the cluster that is to be added to the target machine.

2.7.4 Supported Methods

- `GET`
- `POST`

2.7.5 Return Format

```
{clusters: <C>, errno: <ERR>, message: <MSG>}
```

- `C` – The list of clusters.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.8 machine/<UUID>/actions

Retrieve a list of actions available to the target machine.

2.8.1 URL Format

```
/rest/machine/<UUID>/actions/
```

2.8.2 Path variables

- `UUID` – The ID of the target machine.

2.8.3 Supported Methods

- `GET`
- `POST`

2.8.4 Return Format

```
{result: <A>, errno: <ERR>, message: <MSG>}
```

- `A` – The list of actions.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.9 Unlock

Unlock the target machine.

2.9.1 URL Format

```
/rest/machine/<UUID>/actions/unlock/
```

2.9.2 Path Variables

- `UUID` – The ID of the target machine.

2.9.3 Supported Methods

- `POST`

2.9.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.10 Suspend

Suspend the target machine.

2.10.1 URL Format

```
/rest/machine/<UUID>/actions/suspend/
```

2.10.2 Path Variables

- `UUID` – The ID of the target machine.

2.10.3 Supported Methods

- `POST`

2.10.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.11 Resume

Resume the target machine.

2.11.1 URL Format

```
/rest/machine/<UUID>/actions/resume/
```

2.11.2 Path Variables

- `UUID` – The ID of the target machine.

2.11.3 Supported Methods

- `POST`

2.11.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.12 Shutdown

Shutdown the target machine.

2.12.1 URL Format

```
/rest/machine/<UUID>/actions/shutdown/
```

2.12.2 Path Variables

- `UUID` – The ID of the target machine.

2.12.3 Supported Methods

- POST

2.12.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- ERR – The error number. 0 is success.
- MSG – A message regarding the result of the operation.

2.13 Poweroff

Poweroff the target machine.

2.13.1 URL Format

```
/rest/machine/<UUID>/actions/poweroff/
```

2.13.2 Path Variables

- UUID – The ID of the target machine.

2.13.3 Supported Methods

- POST

2.13.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- ERR – The error number. 0 is success.
- MSG – A message regarding the result of the operation.

2.14 Reboot

Reboot the target machine.

2.14.1 URL Format

```
/rest/machine/<UUID>/actions/reboot/
```

2.14.2 Path Variables

- UUID – The ID of the target machine.

2.14.3 Supported Methods

- POST

2.14.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- ERR – The error number. 0 is success.
- MSG – A message regarding the result of the operation.

2.15 Create

Create the traget machine.

2.15.1 URL Format

```
/rest/machine/<UUID>/actions/create/
```

2.15.2 Path Variables

- UUID – The ID of the target machine.

2.15.3 Supported Methods

- POST

2.15.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- ERR – The error number. 0 is success.
- MSG – A message regarding the result of the operation.

2.16 Store XML

Stroe the XML machine definition of the target machine.

2.16.1 URL Format

```
/rest/machine/<UUID>/actions/store_xml/
```

2.16.2 Path Variables

- UUID – The ID of the target machine.

2.16.3 Supported Methods

- POST

2.16.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- ERR – The error number. 0 is success.
- MSG – A message regarding the result of the operation.

2.17 Manage

Make the target machine manageable.

2.17.1 URL Format

```
/rest/machine/<UUID>/actions/manage/
```

2.17.2 Path Variables

- `UUID` – The ID of the target machine.

2.17.3 Supported Methods

- `POST`

2.18.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.18 Total Delete

Completely delete the target machine.

2.18.1 URL Format

```
/rest/machine/<UUID>/actions/totaldelete/
```

2.18.2 Path Variables

- `UUID` – The ID of the target machine.

2.18.3 Supported Methods

- `POST`

2.18.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is sucess.
- `MSG` – A message regarding the result of the operation.

2.19 Package

Package the target machine.

2.19.1 URL Format

```
/rest/machine/<UUID>/actions/package/
```

2.19.2 Path Variables

- `UUID` – The ID of the target machine.

2.19.3 Supported Methods

- `POST`

2.19.4 Return Format

```
{txid: <TXID>, errno: <ERR>, message: <MSG>}
```

- `TXID` – The packaging transaction ID.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.20 Provision

Provision the target machine.

2.20.1 URL Format

```
/rest/machine/<UUID>/actions/provision/
```

2.20.2 Path Variables

- `UUID` – The ID of the target machine.

2.20.3 HTTP Variables

- `pkguuid` – The ID of the package that is to be provisioned.
- `hvmuuid` – The ID of the hypervisor that is to carry out the provisioning job.
- `name` – The name of the new machine.

2.20.4 Supported Methods

- `POST`
- `PUT`

2.20.5 Return Format

```
{newuuid: <MID>, txid: <TXID>, errno: <ERR>, message: <MSG>}
```

- `MID` – The new machine ID.
- `TXID` – The provisioning transaction ID.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.21 cluster

Return a list of all Enomalism clusters or create a new cluster.

2.21.1 URL Format

```
/rest/cluster/
```

2.21.2 HTTP Variables

- `cluster_name` – The name of the new cluster.

2.21.3 Supported Methods

- `GET`
- `PUT`

2.21.4 Return Format

```
{cluster: <C>, errno: <ERR>, message: <MSG>}
```

- `C` – The cluster object or a list of cluster UUID objects depending on the HTTP method used.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

2.22 cluster/list

2.22.1 URL Format

```
/rest/cluster/list/
```

2.22.2 Supported Methods

- `GET`
- `POST`

2.22.3 Return Format

```
{clusters: <C>, errno: <ERR>, message: <MSG>}
```

2.23 cluster/<UUID>

Perform some action on the target cluster.

2.23.1 URL Format

```
/rest/cluster/<UUID>
```

2.23.2 Path Variables

- `UUID` – The ID of the target cluster.

2.23.3 HTTP Variables

- `action` – The action to perform of the target cluster.

- `cluster_name` – The name of the cluster. This is only valid if action is *rename*.

2.23.4 Supported Methods

- `GET`
- `POST`
- `DELETE`

2.23.5 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

3. Users & Groups

3.1 users

Return a list of all Enomalism users.

3.1.1 URL Format

```
/rest/users/
```

3.1.2 Supported Methods

- `GET`
- `POST`

3.1.3 Return Format

```
{users: <USERLIST>}
```

- `USERLIST` – A list of users. Each user is another list in the form of *username*, *id*.

3.2 List Users

Does the exact same thing as *users*.

3.2.1 URL Format

```
/rest/users/list/
```

3.2.2 Supported Methods

- `GET`
- `POST`

3.2.3 Return Format

`{users: <USERLIST>}`

- `USERLIST` – A list of users. Each user is another list in the form of *username*, *id*.

3.3 List Groups

Return a list of all Enomalism groups.

3.3.1 URL Format

`/rest/group/list/`

3.3.2 Supported Methods

- `GET`
- `POST`

3.3.3 Return Format

`{groups: <GROUPLIST>}`

- `GROUPLIST` – A list of all groups. Each group is another list in the form of *groupname*, *id*.

3.4 user/<UUID>

Retrieve a specific user or update a specific user.

3.4.1 URL Format

`/rest/user/<UUID>/`

3.4.2 Path Variables

- `UUID` – The ID of the target user.

3.4.3 HTTP Variables

- `action` – The action to perform on the target user.

3.4.4 Supported Methods

- `GET`
- `POST`
- `DELETE`

3.4.5 Return Format

`{user: <USER>, errno: <ERR>, message: <MSG>}`

- `USER` – The user object.
- `ERR` – The error number. 0 is success.

- `MSG` – A message regarding the result of the operation.

3.5 Create User

Create a new user.

3.5.1 URL Format

```
/rest/user/create/
```

3.5.2 Supported Methods

- `POST`

3.5.3 Return Format

`{}` - *This will change in a future release*.

3.6 Delete User

Delete the target user.

3.6.1 URL Format

```
/rest/user/<UUID>/delete/
```

3.6.2 Path Variables

- `UUID` – The ID of the target user.

3.6.3 Supported Methods

- `GET`
- `POST`

3.6.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – The message associated with the result of the operation.

3.7 Create Group

Create a new group.

3.7.1 URL Format

```
/rest/group/create
```

3.7.2 HTTP Variables

- `group_name` – The name of the new group.

3.7.3 Supported Methods

- `PUT`

3.7.4 Return Format

```
{group: <GROUP>, errno: <ERR>, message: <MSG>}
```

- `GROUP` – The group object.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

3.8 Delete Group

Delete the target group.

3.8.1 URL Format

```
/rest/group/<UUID>/delete/
```

3.8.2 Path Variables

- `UUID` – The ID of the target group.

3.8.3 Supported Methods

- `GET`
- `POST`

3.8.4 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number.
- `MSG` – The message associated with the result of the operation.

3.9 group/<UUID>

Retrieve the specified group or update the specified group.

3.9.1 URL Format

```
/rest/group/<UUID>
```

3.9.2 Path Variables

- `UUID` – The ID of the target group.

3.9.3 HTTP Variables

- `action` – The action to perform on the target group.

3.9.4 Supported Methods

- `GET`
- `POST`
- `DELETE`

3.9.5 Return Format

```
{group: <GROUP>, errno: <ERR>, message: <MSG>}
```

- `GROUP` – The group object.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

4. Permissions

4.1 permissions/<UUID>

Alter the permissions of the target object.

4.1.1 URL Format

```
/rest/permissions/<UUID>/
```

4.1.2 Path Variables

- `UUID` – The target object in which we are altering permissions.

4.1.3 HTTP Variables

- `action` – The permission action to perform.
- `permission` – The permission that is being being acted upon.

4.1.4 Supported Methods

- `GET`
- `POST`
- `PUT`
- `DELETE`

4.1.5 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.

- `MSG` – The message associated with the result of the operation.

5. Transactions

5.1 transaction/<uuid>

Perform some action on the target transaction.

5.1.1 URL Format

```
/rest/transaction/<UUID>/
```

5.1.2 Path Variables

- `UUID` – The ID of the target transaction.

5.1.3 Supported Methods

- `GET`
- `POST`
- `DELETE`

5.1.4 Return Format

```
{data: <DATA>, completion: <COMP>, errno: <ERR>, message: <MSG>}
```

- `DATA` – The transaction data.
- `COMP` – The completion percentage of the transaction.
- `ERR` – The error number. 0 is success.
- `MSG` – The message associated with the result of the operation.

6. Repositories

6.1 vmfeed

Add a new VM feed repository to Enomalism.

6.1.1 URL Format

```
/rest/vmfeed/
```

6.1.2 HTTP Variables

- `url` – The location of the new repository.

6.1.3 Supported Methods

- `GET`

- PUT

6.1.4 Return Format

```
{uuid: <UUID>, packages: <PKG>, errno: <ERR>, message: <MSG>}
```

- UUID – The uuid of the newly created package. Currently, this only returned when a new repository is created.
- PKG – A list of Enomalism packages.
- ERR – The error number. 0 is success.
- MSG – The message associated with the result of the operation.

6.2 download

Download the target package.

6.2.1 URL Format

```
/rest/vmfeed/<UUID>/download/
```

6.2.2 Path Variables

- UUID – The ID of the target package.

6.2.3 Supported Methods

- GET

6.2.4 Return Format

The return format is the actual binary package file.

6.3 vmfeed/<UUID>

Perform some action on the target package.

6.3.1 URL Format

```
/rest/vmfeed/<UUID>/
```

6.3.2 Path Variables

- UUID – The ID of the target package.

6.3.3 HTTP Variables

- name – The name of the package.
- description – The description of the package.

6.3.4 Supported Methods

- GET
- POST
- DELETE

6.3.5 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- ERR – The error number. 0 is success.
- MSG – The message associated with the result of the operation.

6.4 package/<UUID>

Queue the target package for retrieval.

6.4.1 URL Format

```
/rest/vmfeed/repo/package/<UUID>/
```

6.4.2 Path Variables

- UUID – The ID of the target package.

6.4.3 Supported Methods

- GET
- POST
- DELETE

6.4.4 Return Format

```
{tx: <TX>, errno: <ERR>, message: <MSG>}
```

- TX – The uuid of the transaction responsible for retrieving the package.
- ERR – The error number. 0 is success.
- MSG – The message associated with the result of the operation.

6.5 repo/<UUID>

Perform some action on the target package.

6.5.1 URL Format

```
/rest/vmfeed/repo/<UUID>/
```

6.5.2 Path Variables

- UUID – The ID of the target package.

6.5.3 HTTP Variables

- `action` – The action to perform.

6.5.4 Supported Methods

- `GET`
- `POST`
- `DELETE`

6.5.5 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – The message associated with the result of the operation.

7. Static Networks

7.1 networks

Create a new network or return a list of existing networks.

7.1.1 URL Format

```
/rest/networks/
```

7.1.2 HTTP Variables

- `name` – The name of the static network.
- `description` – The description of the network.
- `bridge` – The network bridge.
- `cluster` – The cluster this network is assigned to.
- `ip` – The ip address of the network.
- `netmask` – The netmask of the network.
- `gateway` – The getway of the network.

7.1.3 Supported Methods

- `GET`
- `PUT`

7.1.4 Return Format

```
{networks: <NETWORKS>, errno: <ERR>, message: <MSG>}
```

- `NETWORKS` – A list of network objects.

- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

7.2 networks/<UUID>

Perform some action on the target network.

7.2.1 URL Format

```
/rest/networks/<UUID>
```

7.2.2 Path Variables

- `UUID` – The ID of the target network.

7.2.3 HTTP Variables

- `name` – The name of the network.
- `description` – The description of the network.
- `bridge` – The network bridge
- `cluster` – The cluster the network is assigned to.

7.2.4 Supported Methods

- `GET`
- `POST`
- `DELETE`

7.2.5 Return Format

```
{errno: <ERR>, message: <MSG>}
```

- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

7.3 IP range

Perform some action on an IP range of the target static network.

7.3.1 URL Format

```
/rest/networks/<UUID>/iprange/
```

7.3.2 Path Variables

- `UUID` – The ID of the target satic network.

7.3.3 HTTP Variables

- `start_ip` – The start IP of the range.
- `end_ip` – The end IP of the range.

7.3.4 Supported Methods

- `GET`
- `POST`

7.3.5 Return Format

```
{network: <NETWORK>, ranges: <RANGES>, errno: <ERR>, message: <MSG>}
```

- `NETWORK` – The network object.
- `RANGES` – The list of IP ranges that belong to the target static network.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

7.4 iprange/<UUID>

Perform some action on an IP range of the target static network.

7.4.1 URL Format

```
/rest/networks/<UUID>/iprange/<RUUID>/
```

7.4.2 Path Variables

- `UUID` – The ID of the target static network.
- `RUUID` – The ID of the target IP range.

7.4.3 Supported Methods

- `GET`
- `PUT`

7.4.4 Return Format

```
{iprange: <RANGE>, errno: <ERR>, message: <MSG>}
```

- `RANGE` – The IP range object.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.

7.5 cluster

Retrieve the cluster associated with the target static network.

7.5.1 URL Format

```
/rest/networks/<UUID>/cluster/
```

7.5.2 Path Variables

- `UUID` – The ID of the target cluster.

7.5.3 Supported Methods

- `GET`
- `PUT`

7.5.4 Return Format

```
{cluster: <CLUSTER>, errno: <ERR>, message: <MSG>}
```

- `CLUSTER` – The cluster object.
- `ERR` – The error number. 0 is success.
- `MSG` – A message regarding the result of the operation.