



Cisco Virtualized Infrastructure Manager Baremetal Manager API Guide, Release 3.4.2

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Cisco VIM Baremetal Manager API Guide

Abstract

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1 Overview

The Cisco VIM Baremetal Manager provides a Representational State Transfer (REST) API that is used to deploy, expand, and manage RIMN.

An API conforms to the RESTful conventions and is defined by using resource and methods. A resource is a collection of information that is identified by a Uniform Resource Identifier (URI). Methods are HTTP methods that are exposed for a resource. The commonly used HTTP methods are POST, GET, PUT, and DELETE.

2 Usecases of REST API

The REST API provides a logical grouping of management nodes in form of site, cluster and nodes for better management of nodes globally.

```
site
  |-- clusters
      |-- cluster_0
          |-- servers
              |-- node_0.0
              |.
              |.
              |-- node_0.n
          |.
          |.
          |-- cluster_n
              |-- servers
                  |-- node_n.0
                  |.
                  |.
                  |-- node_n.n
```

The following list summarizes the various actions that can be performed using REST API:

- Import ISO files for booting Management node.
- Deploy a Cisco VIM Baremetal Manager site, cluster, and node.
- Add cluster to a deployed site.
- Delete cluster from a deployed site.
- Add node to a deployed cluster.
- Delete node from a deployed cluster.
- Jobs to track deployment of site, cluster, and node.

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3 Handling Security

The Cisco VIM Baremetal Manager REST API security is provided by the Secure Sockets Layer (SSL) included on the Apache Web Server. The Flask-Restplus based web application runs the Rest API server.

The Flask REST API server requires a username and password to authorize the REST API server requests. Apache handles the authorization process, which authorizes the request to access the Flask web application.

4 Accessing Cisco VIM Baremetal Manager API

You can access API server on the br_api interface on port 8141. Authentication is enabled by default in the webservice.

You can access the API end points of a version (v1 now) using the following URL format: https://<management_node_api_ip>:8141/v1

Where, <management_node_api_ip> is the virtual IP address that you provided during the installation of Cisco VIM management node.

By default, the basic authentication is enabled for the API endpoints in the management node.

In the management node, you can find the authentication credentials in the client_config.json file available at the location:

```
opt/cisco/argus/rest_api/client_config.json
```

The following code shows a sample content of the client_config.json file:

```
{
  "REST_API_URL": "http://10.22.191.134:8141",
  "REST_API_USERNAME": "admin",
  "REST_API_PASSWORD": "8675d63674ff686e8688",
  "PODTYPE": "rmi"
}
```

5 API Resources

Cisco VIM Baremetal manager REST API is a Flask-Restplus based web application which comes with Swagger integration. Swagger is built around OpenAPI specification that helps to design, build, document, and consume REST APIs.

The REST API resources along with their expected payloads and responses have been documented by Swagger.

6 Cisco VIM Baremetal Manager API Reference

Here is the view of Cisco VIM Baremetal Manager REST API:

Argus ^{v1}

[Base URL: /v1]

Argus: Cisco's Baremetal Installer

site Argus site operations

PUT `/site/{site_name}` Alter a site given its name and action

Try it out

Name	Description
action * required string <i>(query)</i>	The argus site action identifier
site_name * required string <i>(path)</i>	The argus site identifier

Responses Response content type application/json

Code	Description
202	<i>Site requested operation accepted</i> Example Value Model <pre> Job Action Response { status* string resource_name* string job_uuid* string } </pre>
404	<i>Site not found</i>
409	<i>Conflict in performing request</i>

POST `/site/{site_name}` Create a site given its name and payload

Try it out

Name	Description
payload * required (body)	Example Value Model <pre> Site { info* } </pre>

Name

Description

```
string
minLength: 1
maxLength: 50
Site info
clusters*
  [Cluster info* {
    string
    minLength: 1
    maxLength: 50
    Cluster info
    name*
    string
    minLength: 1
    maxLength: 32
    Cluster name
    servers*
    [Node {
      name*
      string
      minLength: 1
      maxLength: 32
      Node name
      oob_ip*
      string
      OOB/CIMC IP
      oob_username*
      string
      OOB/CIMC username
      domain_name_servers [string]
      oob_password*
      string
      OOB/CIMC password
      flavor*
      string
      Flavor name
      boot_network
      string
      Boot Network interface
      ip_address*
      Node Interface {
        api_[1-9]+_v6 string
        API IPv6 CIDR
        api_[1-9]
        +_v4* string
        API IPv4 CIDR
        management_
        [1-9]+_v6 string
        Management IPv6 CIDR
        management_
        [1-9]+_v4* string
        Management IPv4 CIDR
      }
      password_hash
      string
      Password Hash
    }
  }
}
networking*
Networking {
  ntp_servers*
  [string]
  description: NTP IP
  domain_name_servers*
  [string]
  description: DNS IP
  domain_name*
  string
  Domain Name
  networks*
  Networks {
    api_[1-9]+_v6
    Network Interface {
      subnet*
      string
      Subnet CIDR
      gateway
      string
      Gateway IP
      vlan_id
      integer
      VLAN ID
    }
    api_[1-9]
    +_v4*
    Network Interface {
      subnet*
      string
      Subnet CIDR
      gateway
      string
      Gateway IP
      vlan_id
      integer
      VLAN ID
    }
    management_
    [1-9]+_v6
    Network Interface {
      subnet*
      string
      Subnet CIDR
      gateway
      string
      Gateway IP
      vlan_id
      integer
      VLAN ID
    }
    management_
    [1-9]+_v4*
    Network Interface {
      subnet*
      string
      Subnet CIDR
      gateway
      string
      Gateway IP
      vlan_id
      integer
      VLAN ID
    }
  }
}
```

Name	Description
<pre> name* string minLength: 1 maxLength: 32 Site name metadata* Metadata { ssh_key* string password_hash* string Password Hash } </pre>	
<p>site_name * required The argus site identifier</p> <p>string (path)</p>	
Responses	Response content type <input type="text" value="application/json"/>
Code	Description
201	Site created successfully
400	Bad request
409	Conflict in performing request

GET /site/{site_name} Fetch a site given its name

[Try it out](#)

Name	Description
<p>site_name * required</p> <p>string (path)</p>	The argus site identifier
Responses	Response content type <input type="text" value="application/json"/>
Code	Description
200	Success
Example Value	Model
<pre> Site Response { info* string minLength: 1 maxLength: 50 Site info status* string networking* Networking Response { ntp_servers* [string] description: NTP IP domain_name_servers* </pre>	

Code Description

```
[string]
description: DNS IP
domain_name* string
Domain Name

networks* Networks Response {
  api_[1-9]+_v6 Network configs Response {
    subnet* string
    Subnet CIDR

    gateway string
    Gateway IP

    vlan_id integer
    VLAN ID
  }

  api_[1-9]+_v4* Network configs Response {
    subnet* string
    Subnet CIDR

    gateway string
    Gateway IP

    vlan_id integer
    VLAN ID
  }

  management_[1-9]+_v6 Network configs Response {
    subnet* string
    Subnet CIDR

    gateway string
    Gateway IP

    vlan_id integer
    VLAN ID
  }

  management_[1-9]+_v4* Network configs Response {
    subnet* string
    Subnet CIDR

    gateway string
    Gateway IP

    vlan_id integer
    VLAN ID
  }
}

name* string
minLength: 1
maxLength: 32
Site name

clusters* Clusters Response {
  <cluster_name>* Cluster Config Response {
    info* string
    minLength: 1
    maxLength: 50
    Cluster info

    status* string

    servers* Nodes Response {
      <node_name>* Node Response {
        status* string

        oob_ip* string
        OOB/CIMC IP

        oob_username* string
        OOB/CIMC username

        domain_name_servers [string]

        oob_password* string
        OOB/CIMC password

        flavor* string
        Flavor name

        boot_network string
        Boot Network interface

        ip_address* Node Interface Response
          {
            api_[1-9]+_v6 string
            API IPv6 CIDR

            api_[1-9]+_v4* string
            API IPv4 CIDR

            string
          }
      }
    }
  }
}
```


No parameters

Responses

Response content type

application/json

Code

Description

200

Success

Example Value Model

```
Site List Response {
  <site_name>* Site Info Response {
    info* string
              minLength: 1
              maxLength: 50
              Site info
    status* string
  }
}
```

cluster Argus cluster operations

GET /cluster/{site_name} List all clusters in the site

Parameters

Try it out

Name

Description

site_name * required

The argus site identifier

string
(path)

Responses

Response content type

application/json

Code

Description

200

Success

Example Value Model

```
Cluster List Response {
  <cluster_name>* Cluster Info Response {
    info* string
           minLength: 1
           maxLength: 50
           Cluster info
    status* string
  }
}
```

PUT /cluster/{site_name}/{cluster_name} Alter a cluster given its name and action

Parameters

Try it out

Name	Description
action * required string (query)	The argus cluster action identifier
cluster_name * required string (path)	The argus cluster identifier
site_name * required string (path)	The argus site identifier

Responses	Response content type
	application/json

Code	Description
202	<i>Cluster requested operation accepted</i>
404	<i>Cluster not found</i>
409	<i>Conflict in performing request</i>

POST /cluster/{site_name}/{cluster_name} Create a cluster given its name, site and payload

Parameters Try it out

Name	Description
payload * required (body)	<p>Example Value Model</p> <pre> Site { info* string minLength: 1 maxLength: 50 clusters* [Cluster { info* string minLength: 1 maxLength: 50 name* string minLength: 1 maxLength: 32 servers* [Node { name* string minLength: 1 maxLength: 32 oob_ip* string OOB/CIMC IP oob_username* string OOB/CIMC username }] } </pre>

Name Description

```
domain_name_servers [string]
oob_password* string OOB/CIMC password
flavor* string Flavor name
boot_network string Boot Network interface
ip_address* Node Interface {
  api_[1-9]+_v6 string API IPv6 CIDR
  api_[1-9]+_v4* string API IPv4 CIDR
  management_[1-9]+_v6 string Management IPv6 CIDR
  management_[1-9]+_v4* string Management IPv4 CIDR
}
password_hash string Password Hash
}}
networking* Networking {
  ntp_servers* [string] description: NTP IP
  domain_name_servers* [string] description: DNS IP
  domain_name* string Domain Name
  networks* Networks {
    api_[1-9]+_v6 Network Interface {
      subnet* string Subnet CIDR
      gateway string Gateway IP
      vlan_id integer VLAN ID
    }
    api_[1-9]+_v4* Network Interface {
      subnet* string Subnet CIDR
      gateway string Gateway IP
      vlan_id integer VLAN ID
    }
    management_[1-9]+_v6 Network Interface {
      subnet* string Subnet CIDR
      gateway string Gateway IP
      vlan_id integer VLAN ID
    }
    management_[1-9]+_v4* Network Interface {
      subnet* string Subnet CIDR
      gateway string Gateway IP
      vlan_id integer VLAN ID
    }
  }
}
name* string minLength: 1 maxLength: 32 Site name
metadata* Metadata {
  ssh_key* string
  password_hash* string Password Hash
}
}
```

cluster_name * required The argus cluster identifier
string
(path)

site_name * required The argus site identifier
string
(path)

Responses

Response content type

application/json

Code

Description

201	<i>Cluster created successfully</i>
400	<i>Bad request</i>
403	<i>Request not allowed</i>
409	<i>Conflict in performing request</i>

GET /cluster/{site_name}/{cluster_name} Fetch a cluster given its name and site

Parameters

Try it out

Name

Description

cluster_name * required string (path)	The argus cluster identifier
site_name * required string (path)	The argus site identifier

Responses

Response content type

application/json

Code

Description

200	<i>Success</i>
-----	----------------

Example Value Model

```
Clusters Response {
  <cluster_name>* Cluster Config Response {
    info* string
      minLength: 1
      maxLength: 50
      Cluster info
    status* string
    servers* Nodes Response {
      <node_name>* Node Response {
        status* string
        oob_ip* string
          OOB/CIMC IP
        oob_username* string
          OOB/CIMC username
        domain_name_servers [string]
        oob_password* string
          OOB/CIMC password
        flavor* string
          Flavor name
      }
    }
  }
}
```

Code	Description
	<pre> boot_network string Boot Network interface ip_address* Node Interface Response { api_[1-9]+_v6 string API IPv6 CIDR api_[1-9] +_v4* string API IPv4 CIDR management_ [1-9]+_v6 string Management IPv6 CIDR management_ [1-9]+_v4* string Management IPv4 CIDR } password_hash string Password Hash } } } } } </pre>
404	Cluster not found

DELETE /cluster/{site_name}/{cluster_name} Delete a cluster given its name and site	
<div style="text-align: right;">Try it out</div>	
Parameters	
Name	Description
cluster_name * required string (path)	The argus cluster identifier
site_name * required string (path)	The argus site identifier
Responses	Response content type application/json
Code	Description
202	Cluster deleted operation accepted
	<p>Example Value Model</p> <pre> Job Action Response { status* string resource_name* string job_uuid* string } </pre>
204	Cluster deleted successfully
404	Cluster not found
409	Conflict in performing request

node Argus node operations

PUT `/node/{site_name}/{cluster_name}/{node_name}` Alter a node given its name, cluster, site and action

Parameters Try it out

Name	Description
action * required string (query)	The argus node action identifier
cluster_name * required string (path)	The argus cluster identifier
site_name * required string (path)	The argus site identifier
node_name * required string (path)	The argus node identifier

Responses Response content type: application/json

Code	Description
202	<i>Node requested operation accepted</i>
404	<i>Node not found</i>
409	<i>Conflict in performing request</i>

Example Value **Model**

```
Job Action Response {
  status*      string
  resource_name* string
  job_uuid*    string
}
```

POST `/node/{site_name}/{cluster_name}/{node_name}` Create a node given its name, cluster, site and payload

Parameters Try it out

Name	Description
payload * required string (body)	Example Value Model

```
Site {
  info*      string
             minLength: 1
             maxLength: 50
  Site info
  clusters*  [Cluster {
             info*
```

Name	Description
	<pre> string minLength: 1 maxLength: 50 Cluster info name* string minLength: 1 maxLength: 32 Cluster name servers* [Node { name* string minLength: 1 maxLength: 32 Node name oob_ip* string OOB/CIMC IP oob_username* string OOB/CIMC username domain_name_servers [string] oob_password* string OOB/CIMC password flavor* string Flavor name boot_network string Boot Network interface ip_address* Node Interface { api_[1-9]+_v6 string API IPv6 CIDR api_[1-9] +_v4* string API IPv4 CIDR management_ [1-9]+_v6 string Management IPv6 CIDR management_ [1-9]+_v4* string Management IPv4 CIDR } password_hash string Password Hash } }] } networking* Networking { ntp_servers* [string] description: NTP IP domain_name_servers* [string] description: DNS IP domain_name* string Domain Name networks* Networks { api_[1-9]+_v6 Network Interface { subnet* string Subnet CIDR gateway string Gateway IP vlan_id integer VLAN ID } api_[1-9] +_v4* Network Interface { subnet* string Subnet CIDR gateway string Gateway IP vlan_id integer VLAN ID } management_ [1-9]+_v6 Network Interface { subnet* string Subnet CIDR gateway string Gateway IP vlan_id integer VLAN ID } management_ [1-9]+_v4* Network Interface { subnet* string Subnet CIDR gateway string Gateway IP vlan_id integer VLAN ID } } } } name* string minLength: 1 maxLength: 32 Site name metadata* </pre>

Name	Description
	<pre> Metadata { ssh_key* string password_hash* string Password Hash } </pre>
cluster_name * required	The argus cluster identifier
string (path)	
site_name * required	The argus site identifier
string (path)	
node_name * required	The argus node identifier
string (path)	
Responses	Response content type <input type="text" value="application/json"/>
Code	Description
201	<i>Node created successfully</i>
400	<i>Bad request</i>
403	<i>Request not allowed</i>
409	<i>Conflict in performing request</i>

GET	/node/{site_name}/{cluster_name}/{node_name}	Fetch a node given its name, cluster and site
Parameters	<input type="button" value="Try it out"/>	
Name	Description	
cluster_name * required	The argus cluster identifier	
string (path)		
site_name * required	The argus site identifier	
string (path)		
node_name * required	The argus node identifier	
string (path)		
Responses	Response content type	<input type="text" value="application/json"/>
Code	Description	

Code	Description
200	<i>Success</i>
	<p>Example Value Model</p> <pre> Nodes Response { <node_name>* Node Response { status* string oob_ip* string OOB/CIMC IP oob_username* string OOB/CIMC username domain_name_servers [string] oob_password* string OOB/CIMC password flavor* string Flavor name boot_network string Boot Network interface ip_address* Node Interface Response { api_[1-9]+_v6 string API IPv6 CIDR api_[1-9] +_v4* string API IPv4 CIDR management_ [1-9]+_v6 string Management IPv6 CIDR management_ [1-9]+_v4* string Management IPv4 CIDR } password_hash string Password Hash } } </pre>
404	<i>Resource not found</i>

DELETE `/node/{site_name}/{cluster_name}/{node_name}` Delete a node given its name, cluster and site

Parameters Try it out

Name	Description
cluster_name * required string (path)	The argus cluster identifier
site_name * required string (path)	The argus site identifier
node_name * required string (path)	The argus node identifier

Responses Response content type application/json

Code	Description
202	<i>Node delete operation accepted</i>

Code	Description
	<p>Example Value Model</p> <pre> Job Action Response { status* string resource_name* string job_uuid* string } </pre>
204	<i>Node deleted successfully</i>
404	<i>Node not found</i>
409	<i>Conflict in performing request</i>

GET `/node/{site_name}/{cluster_name}` List all nodes in the cluster of a site

Parameters Try it out

Name	Description
cluster_name * required string <i>(path)</i>	The argus cluster identifier
site_name * required string <i>(path)</i>	The argus site identifier

Responses Response content type application/json

Code	Description
200	<i>Success</i>
	<p>Example Value Model</p> <pre> Node List Response { <node_name>* Node Info Response { status* string } } </pre>

job Argus job operations

GET `/job/jobs_info` Fetch all ToRun/Running/Aborting jobs

Parameters Try it out

No parameters

Responses Response content type

application/json

Code	Description
200	<i>Success</i>

Example Value **Model**

```
Running Jobs Response {
  <job_uuid>* Job Show Response {
    tasks* [Task Response {
      status* string
      updated_at* string($date-time)
      server* string
      command* string
      error* string
      started_at* string($date-time)
      stage* string
    }]
    description* string
    created_at* string($date-time)
    updated_at* string($date-time)
    aborted_at* string($date-time)
    version* string
    command* string
    log* string
    error* string
    started_at* string($date-time)
    stage* string
  }
}
```

PUT `/job/{uuid}` Alter a job given its uuid and action

Parameters Try it out

Name	Description
action * required string <i>(query)</i>	The argus job action identifier
uuid * required string <i>(path)</i>	The argus job identifier

Responses Response content type: application/json

Code	Description
202	<i>Job requested operation accepted</i>
404	<i>Job not found</i>
409	<i>Conflict in performing request</i>

GET `/job/{uuid}` Fetch a job given its uuid

Parameters

Try it out

Name	Description
uuid * required string (path)	The argus job identifier

Responses Response content type

Code	Description
200	<p><i>Success</i></p> <p>Example Value Model</p> <pre>Job Show Response { tasks* [Task Response { status* string updated_at* string(\$date-time) server* string command* string error* string started_at* string(\$date-time) stage* string }] description* string created_at* string(\$date-time) updated_at* string(\$date-time) aborted_at* string(\$date-time) version* string command* string log* string error* string started_at* string(\$date-time) stage* string }</pre>
404	<p><i>Job not found</i></p>

DELETE /job/{uuid} Delete a job forcefully

Try it out

Name	Description
uuid * required string (path)	The argus job identifier

Responses Response content type

Code	Description
204	<p><i>Job deleted successfully</i></p>
404	<p><i>Job not found</i></p>

Code	Description
------	-------------

GET `/job/` List all Jobs Try it out

Parameters

No parameters

Responses Response content type `application/json`

Code	Description
200	<i>Success</i>

Example Value **Model**

```

Job List Response {
  <job_uuid>* Job Info Response {
    status* string
    stage* string
    description* string
    updated_at* string($date-time)
  }
}

```

flavor Argus flavor operations

GET `/flavor/{flavor_name}` Fetch a flavor given its name Try it out

Parameters

Name	Description
flavor_name * required string (path)	The argus flavor identifier

Responses Response content type `application/json`

Code	Description
200	<i>Success</i>

Example Value **Model**

```

Flavor Show Response {
  name* string
  workflow* string
  boot* Boot Response {
    mode* string
  }
  os_policies* [string]
  disk_policies* [string]
  network_policies*
}

```

Code	Description
404	<pre> } Flavor not found </pre>

GET `/flavor/` List all flavors

Parameters Try it out

No parameters

Responses Response content type `application/json`

Code	Description
200	<p><i>Success</i></p> <p>Example Value Model</p> <pre> Flavor List Response { flavors* [string] } </pre>

iso Argus ISO operations

POST `/iso/{iso_name}` Import a ISO given its name

Parameters Try it out

Name	Description
<p>payload * required</p> <p>(body)</p>	<p>Example Value Model</p> <pre> ISO Validation { file_name* string ISO File Name } </pre>
<p>iso_name * required</p> <p>string</p> <p>(path)</p>	<p>The argus iso identifier</p>

Responses Response content type `application/json`

Code	Description
201	<p><i>ISO imported successfully</i></p>

Code	Description
	<p>Example Value Model</p> <pre> ISO Create Response { flavor* string } </pre>
400	<i>Bad request</i>
409	<i>Conflict in performing request</i>

GET `/iso/{iso_name}` Fetch a ISO given its name

Parameters Try it out

Name	Description
iso_name * required string (path)	The argus iso identifier

Responses Response content type application/json

Code	Description
200	<p><i>Success</i></p> <p>Example Value Model</p> <pre> ISO Show Response { file_name* string flavor* string } </pre>
404	<i>ISO not found</i>

DELETE `/iso/{iso_name}` Delete a ISO forcefully

Parameters Try it out

Name	Description
iso_name * required string (path)	The argus iso identifier

Responses Response content type application/json

Code	Description
------	-------------

Code	Description
204	<i>ISO deleted successfully</i>
404	<i>ISO not found</i>

GET `/iso/` List all ISOs

Parameters Try it out

No parameters

Responses Response content type `application/json`

Code	Description
200	<i>Success</i>

Example Value **Model**

```

ISO List Response {
  isos* [string]
}

```

setupdata Baremetal Site to Site Translator

POST `/setupdata/{site_name}` Translate a site config to Argus standards

Parameters Try it out

Name	Description
payload * required <i>(body)</i>	<p>Example Value Model</p> <pre> Baremetal Site Payload { info* string minLength: 1 maxLength: 50 Site info clusters* [Baremetal Cluster Payload { info* string minLength: 1 maxLength: 50 Cluster info name* string minLength: 1 maxLength: 32 Cluster name servers* [Baremetal Node Payload { name* string minLength: 1 maxLength: 32 Node name oob_ip* string OOB/CIMC IP oob_username string OOB/CIMC username domain_name_servers [string] oob_password string OOB/CIMC password } } } </pre>

Name	Description
flavor	string Flavor name
boot_network	string Boot Network interface
ip_address*	Baremetal Node Interface Payload { api_[1-9] integer +_vlan_id API VLAN ID api_[1-9] string +_gateway_v4* API IPv4 Gateway api_[1-9]+_v6 string API IPv6 CIDR api_[1-9] string +_v4* API IPv4 CIDR api_[1-9] string +_gateway_v6 API IPv6 Gateway management_ [1-9]+_v6 Management IPv6 management_ [1-9] Management IPv4 Gateway +_gateway_v4 management_ [1-9]+_v4* Management IPv4 management_ [1-9] Management IPv6 Gateway +_gateway_v6 } string Password Hash
password_hash	string Password Hash
name*	string minLength: 1 maxLength: 32 Site name
common_info*	Baremetal Common Info Payload { ntp_servers [string] description: NTP IP(s) oob_username* string OOB/CIMC username domain_name_servers* [string] description: DNS IP(s) ssh_key* string domain_name* string Domain Name oob_password* string OOB/CIMC password flavor* string Flavor name password_hash* string Password Hash }
cluster_name	The argus cluster identifier string (query)
site_name * required	The argus site identifier string (path)
node_name	The argus node identifier string (query)

Responses

Response content type

Code	Description
201	Translated successfully
Example Value	Model
Site	{

Code

Description

```

info*      string
           minLength: 1
           maxLength: 50
           Site info

clusters*  [Cluster {
           info*      string
                   minLength: 1
                   maxLength: 50
                   Cluster info

           name*      string
                   minLength: 1
                   maxLength: 32
                   Cluster name

           servers*   [Node {
                   name*      string
                           minLength: 1
                           maxLength: 32
                           Node name

                   oob_ip*    string
                           OOB/CIMC IP

                   oob_username* string
                           OOB/CIMC username

                   domain_name_servers [string]
                   oob_password*      string
                           OOB/CIMC password

                   flavor*      string
                           Flavor name

                   boot_network string
                           Boot Network interface

                   ip_address*   Node Interface {
                           api_[1-9]+_v6 string
                                   API IPv6 CIDR

                           api_[1-9]
                           +_v4*      string
                                   API IPv4 CIDR

                           management_
                           [1-9]+_v6  string
                                   Management IPv6 CIDR

                           management_
                           [1-9]+_v4* string
                                   Management IPv4 CIDR

                           }

                   password_hash string
                           Password Hash

                   }
           ]
}}

networking* Networking {
           ntp_servers* [string]
                   description: NTP IP

           domain_name_servers* [string]
                   description: DNS IP

           domain_name* string
                   Domain Name

           networks* Networks {
                   api_[1-9]+_v6 Network Interface {
                           subnet* string
                                   Subnet CIDR

                           gateway string
                                   Gateway IP

                           vlan_id integer
                                   VLAN ID

                           }

                   api_[1-9]
                   +_v4* Network Interface {
                           subnet* string
                                   Subnet CIDR

                           gateway string
                                   Gateway IP

                           vlan_id integer
                                   VLAN ID

                           }

                   management_
                   [1-9]+_v6 Network Interface {
                           subnet* string
                                   Subnet CIDR

                           gateway string
                                   Gateway IP

                           vlan_id integer
                                   VLAN ID

```

Code	Description
	<pre> management_ [1-9]+_v4* } Network Interface { subnet* string Subnet CIDR gateway string Gateway IP vlan_id integer VLAN ID } } } name* string minLength: 1 maxLength: 32 Site name metadata* Metadata { ssh_key* string password_hash* string Password Hash } } } </pre>
400	<i>Bad request</i>
409	<i>Conflict in performing request</i>

Models

```

Boot Response {
  mode* string
}

Cluster Config Response {
  info* string
  minLength: 1
  maxLength: 50
  Cluster info

  status* string
  servers* Nodes Response {
    <node_name>* Node Response {
      status* string
      oob_ip* string
      OOB/CIMC IP

      oob_username* string
      OOB/CIMC username

      domain_name_servers [string]
      oob_password* string
      OOB/CIMC password

      flavor* string
      Flavor name

      boot_network string
      Boot Network interface

      ip_address* Node Interface Response {
        api_[1-9]+_v6 string
        API IPv6 CIDR

        api_[1-9]
+_v4* string
API IPv4 CIDR

        management_
[1-9]+_v6 string
Management IPv6 CIDR

        management_
[1-9]+_v4* string
Management IPv4 CIDR
      }

      password_hash string
      Password Hash
    }
  }
}

```

```

    }
}

Networking {
  ntp_servers* [string]
  description: NTP IP

  domain_name_servers* [string]
  description: DNS IP

  domain_name* string
  Domain Name

  networks* Networks {
    api_[1-9]+_v6 Network Interface {
      subnet* string
      Subnet CIDR

      gateway string
      Gateway IP

      vlan_id integer
      VLAN ID
    }

    api_[1-9]+_v4* Network Interface {
      subnet* string
      Subnet CIDR

      gateway string
      Gateway IP

      vlan_id integer
      VLAN ID
    }

    management_[1-9]+_v6 Network Interface {
      subnet* string
      Subnet CIDR

      gateway string
      Gateway IP

      vlan_id integer
      VLAN ID
    }

    management_[1-9]+_v4* Network Interface {
      subnet* string
      Subnet CIDR

      gateway string
      Gateway IP

      vlan_id integer
      VLAN ID
    }
  }
}

```

```

ISO List Response {
  isos* [string]
}

```

```

Node Response {
  status* string

  oob_ip* string
  OOB/CIMC IP

  oob_username* string
  OOB/CIMC username

  domain_name_servers [string]

  oob_password* string
  OOB/CIMC password

  flavor* string
  Flavor name

  boot_network string
  Boot Network interface

  ip_address* Node Interface Response {
    api_[1-9]+_v6 string
    API IPv6 CIDR

    api_[1-9]+_v4* string
    API IPv4 CIDR

    management_[1-9]+_v6 string
    Management IPv6 CIDR

    management_[1-9]+_v4* string
    Management IPv4 CIDR
  }
}

```

```

    password_hash      }
                      string
                      Password Hash
}

Node Interface Response {
  api_[1-9]+_v6 string
                  API IPv6 CIDR

  api_[1-9]
+_v4* string
      API IPv4 CIDR

  management_
[1-9]+_v6 string
         Management IPv6 CIDR

  management_
[1-9]+_v4* string
         Management IPv4 CIDR
}

Node Info Response {
  status* string
}

Job List Response {
  <job_uuid>* Job Info Response {
    status* string
    stage* string
    description* string
    updated_at* string($date-time)
  }
}

Networking Response {
  ntp_servers* [string]
               description: NTP IP

  domain_name_servers* [string]
                       description: DNS IP

  domain_name* string
              Domain Name

  networks* Networks Response {
    api_[1-9]+_v6 Network configs Response {
      subnet* string
              Subnet CIDR

      gateway string
              Gateway IP

      vlan_id integer
              VLAN ID
    }

    api_[1-9]
+_v4* Network configs Response {
      subnet* string
              Subnet CIDR

      gateway string
              Gateway IP

      vlan_id integer
              VLAN ID
    }

    management_
[1-9]+_v6 Network configs Response {
      subnet* string
              Subnet CIDR

      gateway string
              Gateway IP

      vlan_id integer
              VLAN ID
    }

    management_
[1-9]+_v4* Network configs Response {
      subnet* string
              Subnet CIDR

      gateway string
              Gateway IP

      vlan_id integer
              VLAN ID
    }
  }
}

```

```

Site Info Response {
  info*      string
             minLength: 1
             maxLength: 50
             Site info

  status*    string
}

```

```

Metadata {
  ssh_key*   string
  password_hash* string
             Password Hash
}

```

```

Node {
  name*      string
             minLength: 1
             maxLength: 32
             Node name

  oob_ip*    string
             OOB/CIMC IP

  oob_username* string
             OOB/CIMC username

  domain_name_servers [string]
  oob_password*      string
             OOB/CIMC password

  flavor*    string
             Flavor name

  boot_network string
             Boot Network interface

  ip_address* Node Interface {
                 api_[1-9]+_v6 string
                 API IPv6 CIDR

                 api_[1-9]
                 +_v4* string
                 API IPv4 CIDR

                 management_
                 [1-9]+_v6 string
                 Management IPv6 CIDR

                 management_
                 [1-9]+_v4* string
                 Management IPv4 CIDR
             }

  password_hash string
             Password Hash
}

```

```

Cluster Info Response {
  info*      string
             minLength: 1
             maxLength: 50
             Cluster info

  status*    string
}

```

```

Baremetal Common Info Payload {
  ntp_servers [string]
             description: NTP IP(s)

  oob_username* string
             OOB/CIMC username

  domain_name_servers* [string]
             description: DNS IP(s)

  ssh_key*      string
  domain_name* string
             Domain Name

  oob_password* string
             OOB/CIMC password

  flavor*      string
             Flavor name

  password_hash* string
             Password Hash
}

```

```

Network configs Response {

```

```

subnet*      string
             Subnet CIDR

gateway      string
             Gateway IP

vlan_id      integer
             VLAN ID

}

Clusters Response {
  <cluster_name>* Cluster Config Response {
    info*      string
               minLength: 1
               maxLength: 50
               Cluster info

    status*    string

    servers*   Nodes Response {
      <node_name>* Node Response {
        status*      string
        oob_ip*      string
                     OOB/CIMC IP

        oob_username* string
                     OOB/CIMC username

        domain_name_servers [string]
        oob_password*       string
                     OOB/CIMC password

        flavor*      string
                     Flavor name

        boot_network string
                     Boot Network interface

        ip_address*  Node Interface Response {
          api_[1-9]+_v6 string
                       API IPv6 CIDR

          api_[1-9]
          +_v4*       string
                       API IPv4 CIDR

          management_ string
            [1-9]+_v6  Management IPv6 CIDR

          management_ string
            [1-9]+_v4* Management IPv4 CIDR
        }

        password_hash string
                       Password Hash
      }
    }
  }
}

Task Response {
  status*      string
  updated_at*  string($date-time)
  server*      string
  command*     string
  error*       string
  started_at*  string($date-time)
  stage*       string
}

Job Action Response {
  status*      string
  resource_name* string
  job_uuid*    string
}

Job Info Response {
  status*      string
  stage*       string
  description* string
  updated_at*  string($date-time)
}

ISO Create Response {
  flavor*      string
}

```



```

Flavor List Response {
  flavors* [string]
}

ISO Validation {
  file_name* string
             ISO File Name
}

Baremetal Node Payload {
  name* string
        minLength: 1
        maxLength: 32
        Node name

  oob_ip* string
          OOB/CIMC IP

  oob_username string
              OOB/CIMC username

  domain_name_servers [string]
  oob_password string
                OOB/CIMC password

  flavor string
         Flavor name

  boot_network string
              Boot Network interface

  ip_address* Baremetal Node Interface Payload {
    api_[1-9] integer
    +_vlan_id API VLAN ID

    api_[1-9] string
    +_gateway_v4* API IPv4 Gateway

    api_[1-9]+_v6 string
                  API IPv6 CIDR

    api_[1-9] string
    +_v4* API IPv4 CIDR

    api_[1-9] string
    +_gateway_v6 API IPv6 Gateway

    management_[1-9]+_v6 string
                 Management IPv6

    management_[1-9] string
    +_gateway_v4 Management IPv4 Gateway

    management_[1-9]+_v4* string
                       Management IPv4

    management_[1-9] string
    +_gateway_v6 Management IPv6 Gateway
  }

  password_hash string
                Password Hash
}

Flavor Show Response {
  name* string
  workflow* string
  boot* Boot Response {
    mode* string
  }

  os_policies* [string]
  disk_policies* [string]
  network_policies* [string]
}

Network Interface {
  subnet* string
          Subnet CIDR

  gateway string
          Gateway IP

  vlan_id integer
          VLAN ID
}

```

```

Metadata Response {
  ssh_key* string
  password_hash* string
  Password Hash
}

```

```

Baremetal Node Interface Payload {
  api_[1-9] integer
  +_vlan_id API VLAN ID

  api_[1-9] string
  +_gateway_v4* API IPv4 Gateway

  api_[1-9]+_v6 string
  API IPv6 CIDR

  api_[1-9] string
  +_v4* API IPv4 CIDR

  api_[1-9] string
  +_gateway_v6 API IPv6 Gateway

  management_ string
  [1-9]+_v6 Management IPv6

  management_ string
  [1-9] Management IPv4 Gateway
  +_gateway_v4

  management_ string
  [1-9]+_v4* Management IPv4

  management_ string
  [1-9] Management IPv6 Gateway
  +_gateway_v6
}

```

```

Nodes Response {
  <node_name>* Node Response {
    status* string
    oob_ip* string
    OOB/CIMC IP

    oob_username* string
    OOB/CIMC username

    domain_name_servers [string]
    oob_password* string
    OOB/CIMC password

    flavor* string
    Flavor name

    boot_network string
    Boot Network interface

    ip_address* Node Interface Response {
      api_[1-9]+_v6 string
      API IPv6 CIDR

      api_[1-9] string
      +_v4* API IPv4 CIDR

      management_ string
      [1-9]+_v6 Management IPv6 CIDR

      management_ string
      [1-9]+_v4* Management IPv4 CIDR
    }

    password_hash string
    Password Hash
  }
}

```

```

ISO Show Response {
  file_name* string
  flavor* string
}

```

```

Networks Response {
  api_[1-9]+_v6 Network configs Response {
    subnet* string
    Subnet CIDR

    gateway string
    Gateway IP

    vlan_id integer
    VLAN ID
  }
}

```

```

    api_[1-9]
    +_v4* Network configs Response {
        subnet* string
            Subnet CIDR

        gateway string
            Gateway IP

        vlan_id integer
            VLAN ID
    }

    management_
    [1-9]+_v6 Network configs Response {
        subnet* string
            Subnet CIDR

        gateway string
            Gateway IP

        vlan_id integer
            VLAN ID
    }

    management_
    [1-9]+_v4* Network configs Response {
        subnet* string
            Subnet CIDR

        gateway string
            Gateway IP

        vlan_id integer
            VLAN ID
    }
}

Job Show Response {
    tasks* [Task Response {
        status* string
        updated_at* string($date-time)
        server* string
        command* string
        error* string
        started_at* string($date-time)
        stage* string
    }]

    description* string
    created_at* string($date-time)
    updated_at* string($date-time)
    aborted_at* string($date-time)
    version* string
    command* string
    log* string
    error* string
    started_at* string($date-time)
    stage* string
}

Cluster List Response {
    <cluster_name>* Cluster Info Response {
        info* string
            minLength: 1
            maxLength: 50
            Cluster info

        status* string
    }
}

Node List Response {
    <node_name>* Node Info Response {
        status* string
    }
}

Node Interface {
    api_[1-9]+_v6 string
        API IPv6 CIDR

    api_[1-9]
    +_v4* string
        API IPv4 CIDR

    management_
    [1-9]+_v6 string
        Management IPv6 CIDR

    management_
    [1-9]+_v4* string
        Management IPv4 CIDR
}

```

```

Baremetal Cluster Payload  {
  info*      string
             minLength: 1
             maxLength: 50
             Cluster info

  name*      string
             minLength: 1
             maxLength: 32
             Cluster name

  servers*   [Baremetal Node Payload  {
    name*     string
             minLength: 1
             maxLength: 32
             Node name

    oob_ip*   string
             OOB/CIMC IP

    oob_username  string
             OOB/CIMC username

    domain_name_servers  [string]
    oob_password  string
             OOB/CIMC password

    flavor    string
             Flavor name

    boot_network  string
             Boot Network interface

    ip_address*  Baremetal Node Interface Payload  {
      api_[1-9]  integer
      +_vlan_id  API VLAN ID

      api_[1-9]  string
      +_gateway_v4*  API IPv4 Gateway

      api_[1-9]+_v6  string
                     API IPv6 CIDR

      api_[1-9]  string
      +_v4*      API IPv4 CIDR

      api_[1-9]  string
      +_gateway_v6  API IPv6 Gateway

      management_[1-9]+_v6  string
                           Management IPv6

      management_[1-9]  string
      +_gateway_v4      string
      management_[1-9]+_v4*  string
                           Management IPv4

      management_[1-9]  string
      +_gateway_v6      string
                           Management IPv6 Gateway
    }

    password_hash  string
                   Password Hash
  }
}
}

```

```

Site  {
  info*      string
             minLength: 1
             maxLength: 50
             Site info

  clusters*  [Cluster  {
    info*     string
             minLength: 1
             maxLength: 50
             Cluster info

    name*     string
             minLength: 1
             maxLength: 32
             Cluster name

    servers*  [Node  {
      name*   string
             minLength: 1
             maxLength: 32
             Node name

      oob_ip*   string
             OOB/CIMC IP

      oob_username*  string
             OOB/CIMC username

      domain_name_servers  [string]
      oob_password*      string
    }
  }
}

```

```

                                OOB/CIMC password
                                flavor*      string
                                                Flavor name
                                boot_network  string
                                                Boot Network interface
                                ip_address*   Node Interface {
                                                api_[1-9]+_v6 string
                                                API IPv6 CIDR
                                                api_[1-9]
+_v4*      string
                                                API IPv4 CIDR
                                                management_
[1-9]+_v6  string
                                                Management IPv6 CIDR
                                                management_
[1-9]+_v4* string
                                                Management IPv4 CIDR
                                                }
                                password_hash string
                                                Password Hash
                                }
                                }
networking* Networking {
  ntp_servers* [string]
                description: NTP IP
  domain_name_servers* [string]
                description: DNS IP
  domain_name* string
                Domain Name
  networks* Networks {
                api_[1-9]+_v6 Network Interface {
                subnet* string
                Subnet CIDR
                gateway string
                Gateway IP
                vlan_id integer
                VLAN ID
                }
                api_[1-9]
+_v4*      Network Interface {
                subnet* string
                Subnet CIDR
                gateway string
                Gateway IP
                vlan_id integer
                VLAN ID
                }
                management_
[1-9]+_v6  Network Interface {
                subnet* string
                Subnet CIDR
                gateway string
                Gateway IP
                vlan_id integer
                VLAN ID
                }
                management_
[1-9]+_v4* Network Interface {
                subnet* string
                Subnet CIDR
                gateway string
                Gateway IP
                vlan_id integer
                VLAN ID
                }
                }
  }
  name* string
        minLength: 1
        maxLength: 32
        Site name
  metadata* Metadata {
                ssh_key* string
                password_hash* string
                Password Hash
                }
}

Site List Response {
  <site_name*> Site Info Response {

```

```

        info*      string
                   minLength: 1
                   maxLength: 50
                   Site info
      status*     string
    }
  }

Cluster {
  info*      string
             minLength: 1
             maxLength: 50
             Cluster info

  name*      string
             minLength: 1
             maxLength: 32
             Cluster name

  servers*   [Node {
    name*     string
             minLength: 1
             maxLength: 32
             Node name

    oob_ip*   string
             OOB/CIMC IP

    oob_username* string
             OOB/CIMC username

    domain_name_servers [string]
    oob_password*      string
                     OOB/CIMC password

    flavor*    string
             Flavor name

    boot_network string
             Boot Network interface

    ip_address* Node Interface {
      api_[1-9]+_v6 string
                   API IPv6 CIDR

      api_[1-9]
      +_v4*      string
                   API IPv4 CIDR

      management_
      [1-9]+_v6 string
                   Management IPv6 CIDR

      management_
      [1-9]+_v4* string
                   Management IPv4 CIDR
    }

    password_hash string
                 Password Hash
  }]
}

Site Response {
  info*      string
             minLength: 1
             maxLength: 50
             Site info

  status*    string

  networking* Networking Response {
    ntp_servers* [string]
                 description: NTP IP

    domain_name_servers* [string]
                        description: DNS IP

    domain_name* string
                 Domain Name

    networks* Networks Response {
      api_[1-9]+_v6 Network configs Response {
        subnet* string
                 Subnet CIDR

        gateway string
                 Gateway IP

        vlan_id integer
                 VLAN ID
      }

      api_[1-9]
      +_v4* Network configs Response {
        subnet* string
                 Subnet CIDR

        gateway string
                 Gateway IP
      }
    }
  }
}

```

```

        vlan_id      integer
                    VLAN ID
    }
    management_    Network configs Response {
[1-9]+_v6        subnet*    string
                    Subnet CIDR
                    gateway    string
                    Gateway IP
                    vlan_id    integer
                    VLAN ID
    }
    management_    Network configs Response {
[1-9]+_v4*      subnet*    string
                    Subnet CIDR
                    gateway    string
                    Gateway IP
                    vlan_id    integer
                    VLAN ID
    }
    }
}
name*            string
                minLength: 1
                maxLength: 32
                Site name
clusters*        Clusters Response {
    <cluster_name>* Cluster Config Response {
        info*      string
                    minLength: 1
                    maxLength: 50
                    Cluster info
        status*    string
        servers*   Nodes Response {
            <node_name>* Node Response {
                status*    string
                oob_ip*    string
                            OOB/CIMC IP
                oob_username* string
                            OOB/CIMC username
                domain_name_servers [string]
                oob_password* string
                            OOB/CIMC password
                flavor*     string
                            Flavor name
                boot_network string
                            Boot Network interface
                ip_address*  Node Interface Response {
                    api_[1-9]+_v6 string
                                API IPv6 CIDR
                    api_[1-9]
                    +_v4*    string
                                API IPv4 CIDR
                    management_
                    [1-9]+_v6 string
                                Management IPv6
                                CIDR
                    management_
                    [1-9]+_v4* string
                                Management IPv4
                                CIDR
                }
                password_hash string
                            Password Hash
            }
        }
    }
}
metadata*        Metadata Response {
    ssh_key*     string
    password_hash* string
                    Password Hash
}
}

Running Jobs Response {
    <job_uuid>*  Job Show Response {
        tasks*   [Task Response {
            status*    string
            updated_at* string($date-time)
        }
    }
}

```

```

        server*      string
        command*    string
        error*      string
        started_at* string($date-time)
        stage*      string
    }]
    description*   string
    created_at*    string($date-time)
    updated_at*    string($date-time)
    aborted_at*    string($date-time)
    version*       string
    command*       string
    log*           string
    error*         string
    started_at*    string($date-time)
    stage*         string
}
}

```

Baremetal Site Payload {

```

info*      string
minLength: 1
maxLength: 50
Site info

```

clusters* [Baremetal Cluster Payload {

```

info*      string
minLength: 1
maxLength: 50
Cluster info

```

```

name*      string
minLength: 1
maxLength: 32
Cluster name

```

servers* [Baremetal Node Payload {

```

name*      string
minLength: 1
maxLength: 32
Node name

```

```

oob_ip*    string
OOB/CIMC IP

```

```

oob_username string
OOB/CIMC username

```

```

domain_name_servers [string]

```

```

oob_password string
OOB/CIMC password

```

```

flavor     string
Flavor name

```

```

boot_network string
Boot Network interface

```

ip_address* Baremetal Node Interface Payload {

```

api_[1-9]      integer
+_vlan_id     API VLAN ID

```

```

api_[1-9]      string
+_gateway_v4*  API IPv4 Gateway

```

```

api_[1-9]+v6   string
API IPv6 CIDR

```

```

api_[1-9]      string
+_v4*          API IPv4 CIDR

```

```

api_[1-9]      string
+_gateway_v6   API IPv6 Gateway

```

```

management_    string
[1-9]+v6       Management IPv6

```

```

management_    string
[1-9]          Management IPv4 Gateway
+_gateway_v4

```

```

management_    string
[1-9]+v4*      Management IPv4

```

```

management_    string
[1-9]          Management IPv6 Gateway
+_gateway_v6

```

```

password_hash string
Password Hash

```

```

}}]

```

```

name*      string
minLength: 1
maxLength: 32
Site name

```

common_info* Baremetal Common Info Payload {

```

ntp_servers [string]
description: NTP IP(s)

```



```

        oob_username*      string
                           OOB/CIMC username

        domain_name_servers* [string]
                           description: DNS IP(s)

        ssh_key*           string
        domain_name*       string
                           Domain Name

        oob_password*      string
                           OOB/CIMC password

        flavor*            string
                           Flavor name

        password_hash*     string
                           Password Hash
    }

Networks {
    api_[1-9]+_v6 Network Interface {
        subnet*      string
                    Subnet CIDR

        gateway      string
                    Gateway IP

        vlan_id      integer
                    VLAN ID
    }

    api_[1-9]
+_v4* Network Interface {
        subnet*      string
                    Subnet CIDR

        gateway      string
                    Gateway IP

        vlan_id      integer
                    VLAN ID
    }

    management_
[1-9]+_v6 Network Interface {
        subnet*      string
                    Subnet CIDR

        gateway      string
                    Gateway IP

        vlan_id      integer
                    VLAN ID
    }

    management_
[1-9]+_v4* Network Interface {
        subnet*      string
                    Subnet CIDR

        gateway      string
                    Gateway IP

        vlan_id      integer
                    VLAN ID
    }
}

```