
NodeConductor Azure Documentation

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OpenNode

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NodeConductor plugin for managing MS Azure resources.

1.1 Installation

- Install NodeConductor
- Clone NodeConductor Azure repository

```
git clone https://github.com/opennode/nodeconductor-azure.git
```

- Install NodeConductor Azure into NodeConductor virtual environment

```
cd /path/to/nodeconductor-azure/  
python setup.py install
```


CHAPTER 2

API

Azure API documentation goes here!

3.1 Waldur Azure

Waldur Azure

3.1.1 `/api/azure/`

Supported actions and methods:

`/api/azure/`

Methods: GET, POST

Supported fields for creation:

- **project** – link to `/api/projects/<uuid>/`
- **customer** – link to `/api/customers/<uuid>/`
- **settings** – link to `/api/service-settings/<uuid>/`
- **username** – string (In the format of GUID)
- **certificate** – file (X509 certificate in .PEM format)
- **available_for_all** – boolean (Service will be automatically added to all customers projects if it is available for all)
- **scope** – link to any: `/api/azure-virtualmachines/<uuid>/` (VM that contains service)
- **cloud_service_name** – string (Cloud service group to assign all connected SPLs to)
- **location** – choice('Central US', 'East Asia', 'East US 2', 'Japan West', 'North Europe', 'South Central US', 'Southeast Asia') (Azure region where to provision resources (default: “Central US”))

- `images_regex` – string (Regular expression to limit images list)

To list all services without regard to its type, run **GET** against `/api/services/` as an authenticated user.

To list services of specific type issue **GET** to specific endpoint from a list above as a customer owner. Individual endpoint used for every service type.

To create a service, issue a **POST** to specific endpoint from a list above as a customer owner. Individual endpoint used for every service type.

You can create service based on shared service settings. Example:

```
POST /api/digitalocean/ HTTP/1.1
Content-Type: application/json
Accept: application/json
Authorization: Token c84d653b9ec92c6cbac41c706593e66f567a7fa4
Host: example.com

{
  "name": "Common DigitalOcean",
  "customer": "http://example.com/api/customers/1040561ca9e046d2b74268600c7e1105/
  ↪",
  "settings": "http://example.com/api/service-settings/
  ↪93ba615d6111466ebe3f792669059cb4/"
}
```

Or provide your own credentials. Example:

```
POST /api/oracle/ HTTP/1.1
Content-Type: application/json
Accept: application/json
Authorization: Token c84d653b9ec92c6cbac41c706593e66f567a7fa4
Host: example.com

{
  "name": "My Oracle",
  "customer": "http://example.com/api/customers/1040561ca9e046d2b74268600c7e1105/
  ↪",
  "backend_url": "https://oracle.example.com:7802/em",
  "username": "admin",
  "password": "secret"
}
```

`/api/azure/<uuid>/`

Methods: GET, PUT, PATCH, DELETE

Supported fields for update:

- `available_for_all` – boolean (Service will be automatically added to all customers projects if it is available for all)

`/api/azure/<uuid>/link/`

Methods: GET, POST

To get a list of resources available for import, run **GET** against `/<service_endpoint>/link/` as an authenticated user.

Optionally `project_uuid` parameter can be supplied for services requiring it like OpenStack.

To import (link with Waldur) resource issue **POST** against the same endpoint with resource id.

```
POST /api/openstack/08039f01c9794efc912f1689f4530cf0/link/ HTTP/1.1
Content-Type: application/json
Accept: application/json
Authorization: Token c84d653b9ec92c6cbac41c706593e66f567a7fa4
Host: example.com

{
  "backend_id": "bd5ec24d-9164-440b-a9f2-1b3c807c5df3",
  "project": "http://example.com/api/projects/e5f973af2eb14d2d8c38d62bcbaccb33/"
}
```

/api/azure/<uuid>/managed_resources/

Methods: GET

/api/azure/<uuid>/unlink/

Methods: POST

Unlink all related resources, service project link and service itself.

3.1.2 /api/azure-virtualmachines/

Supported actions and methods:

/api/azure-virtualmachines/

Methods: GET, POST

Supported fields for creation:

- **name** – string
- **description** – string
- **tags** – TagListSerializerField
- **service_project_link** – link to /api/azure-service-project-link/<pk>/
- **image** – link to /api/azure-images/<uuid>/
- **size** – link to /api/azure-sizes/<uuid>/
- **user_username** – string
- **user_password** – string
- **user_data** – string (Additional data that will be added to instance on provisioning)

```
/api/azure-virtualmachines/<uuid>/
```

Methods: GET, PUT, PATCH, DELETE

Supported fields for update:

- **name** – string
- **description** – string
- **tags** – TagListSerializerField

```
/api/azure-virtualmachines/<uuid>/pull/
```

Methods: POST

```
/api/azure-virtualmachines/<uuid>/rdp/
```

Methods: GET

```
/api/azure-virtualmachines/<uuid>/restart/
```

Methods: POST

```
/api/azure-virtualmachines/<uuid>/start/
```

Methods: POST

```
/api/azure-virtualmachines/<uuid>/stop/
```

Methods: POST

3.1.3 /api/azure-sizes/

Supported actions and methods:

```
/api/azure-sizes/
```

Methods: GET

```
/api/azure-sizes/<uuid>/
```

Methods: GET

3.1.4 /api/azure-service-project-link/

Supported actions and methods:

/api/azure-service-project-link/

Methods: GET, POST

Supported fields for creation:

- **project** – link to /api/projects/<uuid>/
- **service** – link to /api/azure/<uuid>/

To get a list of connections between a project and an service, run **GET** against service_project_link_url as authenticated user. Note that a user can only see connections of a project where a user has a role.

If service has *available_for_all* flag, project-service connections are created automatically. Otherwise, in order to be able to provision resources, service must first be linked to a project. To do that, **POST** a connection between project and a service to service_project_link_url as stuff user or customer owner.

/api/azure-service-project-link/<pk>/

Methods: GET, PUT, PATCH, DELETE

Supported fields for update:

- **project** – link to /api/projects/<uuid>/
- **service** – link to /api/azure/<uuid>/

To remove a link, issue **DELETE** to URL of the corresponding connection as stuff user or customer owner.

3.1.5 /api/azure-images/

Supported actions and methods:

/api/azure-images/

Methods: GET

/api/azure-images/<uuid>/

Methods: GET

CHAPTER 4

License

NodeConductor Azure plugin is open-source under MIT license.

CHAPTER 5

Indices and tables

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- `search`