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# Python Foreman Documentation

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## Client module documentation

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## Tutorial

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### 2.1 Definitions files

The Python Foreman can get the methods and it's definitions from two places the `definitions` directory or the foreman instance.

This `definitions` directory contains some `apipie` json definitions retrieved from different foreman versions and api versions, by default it will try to match the foreman version with the fittest of those files.

It can also get it's definitions from the live Foreman instance, to do that, you have to make sure that the urls:

- `FOREMAN_URL/apidoc/v2.json`
- `FOREMAN_URL/apidoc/v1.json`

are available, usually that means that you'll have to set the `config.use_cache` parameter for the `apipie` gem to `false` (normally found under `FOREMAN_HOME/config/initializers/apipie.rb`)

### 2.2 Basic Tutorial

#### 2.2.1 Connect

To connect to a foreman server just instantiate a `foreman.client.Foreman` object with the server's url and authentication aparameters, like this:

```
>>> from getpass import getpass
>>> from foreman.client import Foreman
>>> f = Foreman('http://myforeman.server:3000', ('myuser', getpass()))
```

The available methods are separated in two ways, by resource (`apiv2`) and by method (`$type_$resource_$method`).

Take into account that all those methods are autogenerated and they might vary for different versions of Foreman.

#### 2.2.2 index

Those are the main methods to get info for groups of objects, for example, to get a summary of all the hosts you could do:

```
>>> f.index_hosts()
>>> f.hosts.index()
```

Take into account that it accepts some parameters to handle the paging and the ammount of elements to get.

### 2.2.3 show

This methods give you all the information for a specific object, for example:

```
>>> f.show_hosts(id=1)
>>> f.hosts.show(id='myuber.host.com')
```

Will show all the info for the host with id 1.

### 2.2.4 create

This methods create a new object into foreman. An example:

```
>>> f.create_hosts(host={'name': 'mynewhost', 'ip': '192.168.1.1', 'mac': '00:00:00:
↪00:00:00'})
>>> f.hosts.create(host={'name': 'mynewhost', 'ip': '192.168.1.1', 'mac': '00:00:00:
↪00:00:00'})
```

To see the exact parameters look at the **‘foreman API docs<<http://theforeman.org/api.html>>‘**.

### 2.2.5 update

This methods update the info for the given object, usually called with an id and a hash representating the object.

### 2.2.6 destroy

This methods give you a way to destroy any object.

## 2.3 Advanced Tutorial

TODO



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**Changelog**

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Here you can find the full changelog for this version



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## Indices and tables

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- `genindex`
- `modindex`
- `search`