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# **nifi-deploy Documentation**

*Release 0.1.9*

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### 1.1 Requirements

- Python 3
- PIP

### 1.2 Dependencies

For version details, please see [requirements.txt](#)

- [nipyapi](#)

### 1.3 Install from PyPI (recommended)

```
$ pip3 install nifi-deploy
```

### 1.4 Install from Source

```
$ git clone https://github.com/ragerin/nifi-deploy
$ pip3 install -e ./nifi-deploy
```

## 1.5 Run from source, without installing

**Note:** Ensure all dependencies are met, refer to the [requirements.txt](#)

```
$ git clone https://github.com/ragerin/nifi-deploy
$ python -m nifi-deploy/nifi_deploy
```

```
nifi-deploy [-v] {export, import} [opts]
```

## 2.1 Show help

```
$ nifi-deploy --help
$ nifi-deploy export --help # Export specific help
$ nifi-deploy import --help # Import specific help
```

## 2.2 General parameters

Parameter	Alias	Description
<code>--version</code>	<code>-v</code>	Outputs nifi-deploy version and exits without any other action

## 2.3 Export parameters

```
$ nifi-deploy export <uuid> <name> [-n <hostname>] [-u <username>] [-p <password>] [-  
→d <description>] [-f <filename>] [-q] [-k]
```

Parameter	Alias	Description
uuid	n/a	Required The UUID of a process group located on NIFI_HOST
name	n/a	Required The name of the exported template (as presented within the Nifi template repository)
--nifi_host		Hostname of the Nifi server, where the <i>/nifi-api/</i> endpoint is hosted. If not supplied, nifi-deploy will look for the NIFI_HOST environment variable
--username	u	Username to authenticate as for the API request. If not supplied, nifi-deploy will look for the NIFI_USERNAME environment variable
--password	p	Password for the user. If not supplied, nifi-deploy will first look for the NIFI_PASSWORD environment variable. If not set, nifi-deploy will prompt for the password through the terminal (this requires direct user action)
--description	d	A description of the template to show within the Nifi template repository
--filename	f	Filename to write the template XML to
--quiet	-q	Do not output anything, even if --filename is not supplied. Useful for automated tests
--keep_template	k	Retain the template in the Nifi template repository, after exporting

## 2.4 Import parameters

```
$ nifi-deploy import <filename> [-n <hostname>] [-u <username>] [-p <password>]
```

Parameter	Alias	Description
filename	n/a	Template XML file to upload as a template to the Nifi template repository
--nifi_host		Hostname of the Nifi server, where the <i>/nifi-api/</i> endpoint is hosted. If not supplied, nifi-deploy will look for the NIFI_HOST environment variable
--username	u	Username to authenticate as for the API request. If not supplied, nifi-deploy will look for the NIFI_USERNAME environment variable
--password	p	Password for the user. If not supplied, nifi-deploy will first look for the NIFI_PASSWORD environment variable. If not set, nifi-deploy will prompt for the password through the terminal (this requires direct user action)

## 2.5 Environment variables

For improved usability and even some security concerns, it may be beneficial to set the following environment variables, instead of providing them at use-time:

Variable	Description
NIFI_HOST	Hostname of the Nifi-server, ending with the port-number and optionally <i>/nifi-api/</i>
NIFI_USERNAME	Username of the user authenticating with the API
NIFI_PASSWORD	If not set and not supplied as an argument parameter, will prompt as non-echoing input



## 2.6 Exporting

Export a process group and output the XML to *stdout*:

```
$ nifi-deploy export -n https://nifihost:9090 -u john -p badpractice 0a7361fd-015f-  
↪1000-ffff-ffffd2cbc7a7 my_great_template -d template description -f c:\\temp\\my_  
↪great_template_export.xml --keep_template
```



## 3.1 nifi\_deploy package

### 3.1.1 nifi\_deploy.nifi module

Provides a NifiInstance class facilitating easy to use methods utilizing the NiPyApi (<https://github.com/Chaffelson/nipyapi>) wrapper library.

**class** `nifi_deploy.nifi.NifiInstance` (*url=None, username=None, password=None, verify\_ssl=False*)

The NifiInstance class facilitating easy to use methods utilizing the NiPyApi (<https://github.com/Chaffelson/nipyapi>) wrapper library.

#### Parameters

- **url** (*str*) – Nifi host url, defaults to environment variable `NIFI_HOST`.
- **username** (*str*) – Nifi username, defaults to environment variable `NIFI_USERNAME`.
- **password** (*str*) – Nifi password, defaults to environment variable `NIFI_PASSWORD`.
- **verify\_ssl** (*bool*) – Whether to verify SSL connection - UNUSED as of now.

**create\_template** (*pg\_id, name, desc=""*)

Create a template from process group id.

#### Parameters

- **pg\_id** (*str*) – Process group ID to create the template from.
- **name** (*str*) – Name of the template to create.
- **desc** (*str*) – Optional, description of the template to create.

**Returns** `nipyapi.nifi.TemplateEntity`

**delete\_template** (*template\_id*)

Delete a template from Nifi template registry.

**Parameters** `template_id` (*str*) – ID of the template to delete.

**Returns** None

**export\_template** (*template\_id*, *file\_path=None*)

Export a template as XML, and optionally write it to a file or stdout.

**Parameters**

- **template\_id** (*str*) – ID of the template to export.
- **file\_path** (*str*) – Optional, path of file to write the XML to.

**Returns** String (template xml)

**import\_template** (*file\_path*)

Imports a template XML into Nifi's template store.

**Parameters** **file\_path** (*str*) – Path of the XML file to import into Nifi as a template.

**Returns** None

### 3.1.2 nifi\_deploy.nifi\_deploy module

This file is used for the CLI tool. By default setup.py links *nifi-deploy* as an executable to this file.

`nifi_deploy.nifi_deploy.cli()`

`nifi_deploy.nifi_deploy.export_function(args)`

`nifi_deploy.nifi_deploy.import_function(args)`

### MIT License

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