



# **Python client library**

## ONTAP automation

NetApp  
February 02, 2026

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# Python client library

## Learn about the ONTAP Python client library

The NetApp ONTAP Python client library is a package you can install and use to quickly write scripts that access the ONTAP REST API. You'll need to prepare the local runtime environment before using it. You can use the *pip* utility to install the package from the Python Package Index (PyPI) site.

### Related information

- [Learn more about the ONTAP REST API.](#)

### Features and benefits

You can use the Python client library to quickly develop robust code to automate the administration of your ONTAP deployments. It provides several underlying services, including:

- Connection management
- Asynchronous processing
- Exception handling
- Uniform error messages

### Packages and documentation

The name of the Python client library package is *netapp-ontap*. The version associated with the package is a combination of the ONTAP major and minor version numbers the library was generated from, along with a minor version for the client library within the ONTAP release. For example, valid version numbers include 9.6.1, 9.6.2, and 9.7.1.

Each ONTAP release beginning with 9.6 has a PyPI package with associated documentation. Installation requirements are included with each package and specify versions of the supporting libraries such as *python*, *requests*, *requests-toolbelt*, and *marshmallow*.

## List of packages and documentation

### **ONTAP 9.18.1**

- [PyPI: NetApp ONTAP 9.18.1](#)
- [NetApp PCL documentation for 9.18.1](#)

### **ONTAP 9.17.1**

- [PyPI: NetApp ONTAP 9.17.1](#)
- [NetApp PCL documentation for 9.17.1](#)

### **ONTAP 9.16.1**

- [PyPI: NetApp ONTAP 9.16.1](#)
- [NetApp PCL documentation for 9.16.1](#)

### **ONTAP 9.15.1**

- [PyPI: NetApp ONTAP 9.15.1](#)
- [NetApp PCL documentation for 9.15.1](#)

### **ONTAP 9.14.1**

- [PyPI: NetApp ONTAP 9.14.1](#)
- [NetApp PCL documentation for 9.14.1](#)

### **ONTAP 9.13.1**

- [PyPI: NetApp ONTAP 9.13.1](#)
- [NetApp PCL documentation for 9.13.1](#)

### **ONTAP 9.12.1**

- [PyPI: NetApp ONTAP 9.12.1](#)
- [NetApp PCL documentation for 9.12.1](#)

### **ONTAP 9.11.1**

- [PyPI: NetApp ONTAP 9.11.1](#)
- [NetApp PCL documentation for 9.11.1](#)

### **ONTAP 9.10.1**

- [PyPI: NetApp ONTAP 9.10.1](#)
- [NetApp PCL documentation for 9.10.1](#)

### **ONTAP 9.9.1**

- [PyPI: NetApp ONTAP 9.9.1](#)
- [NetApp PCL documentation for 9.9.1](#)

### **ONTAP 9.8**

- [PyPI: NetApp ONTAP 9.8](#)
- [NetApp PCL documentation for 9.8](#)

### **ONTAP 9.7**

- [PyPI: NetApp ONTAP 9.7](#)
- [NetApp PCL documentation for 9.7](#)

## ONTAP 9.6

- [PyPI: NetApp ONTAP 9.6](#)
- [NetApp PCL documentation for 9.6](#)

## Code samples

NetApp maintains a GitHub repository with code samples and other helpful information. You can navigate to the `examples` folder to access samples using the Python client library. Refer to the following locations at GitHub for details:

- [ONTAP REST Python GitHub repository](#)
- [ONTAP REST Python Client Library Examples](#)

## Script to retrieve the cluster configuration using the Python client library

The following script provides a simple example of how to use the Python client library. You can run the script using Python 3 at the CLI to retrieve the ONTAP cluster configuration.

```
1 #####-----#
2 #
3 # Description: Python script to retrieve the cluster configuration.
4 #
5 # Usage example:
6 #
7 # python3 get_cluster.py
8 #
9 #
10 # (C) Copyright 2025 NetApp, Inc.
11 #
12 # This sample code is provided AS IS, with no support or warranties of
13 # any kind, including but not limited for warranties of merchantability
14 # or fitness of any kind, expressed or implied. Permission to use,
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19 # provided that the above copyright notice appears in all copies and
# that the software application product is distributed pursuant to
# terms
20 # no less restrictive than those set forth herein.
```

```
21 #
22 #-----
23 # For reading the password from the commandline
24 from getpass import getpass
25 # Global configuration for the library
26 from netapp_ontap import config
27 # Support for the connection to ONTAP
28 from netapp_ontap import HostConnection
29 # Specific API needed for this script
30 from netapp_ontap.resources import Cluster
31 # Create connection to the ONTAP management LIF
32 # (add verify=False if the certificate your cluster is serving is not
33 # trusted)
33 conn = HostConnection(
34     "<mgmt_ip>", username="admin", password=getpass("ONTAP admin
35     password: "),
35 )
36 # Set connection as the default for all API calls
37 config.CONNECTION = conn
38 # Create new cluster object
39 clus = Cluster()
40 # Issue REST API call
41 clus.get()
42 # Display the cluster configuration
43 print(clus)
```

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