



# Understanding the Python scripts

## ONTAP Select

NetApp

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# Understanding the Python scripts

The sample Python scripts allow you to perform several different tasks. You should understand the scripts before using them at a live Deploy instance.

## Common design characteristics

The scripts have been designed with the following common characteristics:

- Execute from command line interface at a client machine  
You can run the Python scripts from any properly configured client machine. See *Before you begin* for more information.
- Accept CLI input parameters  
Each script is controlled at the CLI through input parameters.
- Read input file  
Each script reads an input file based on its purpose. When creating or deleting a cluster, you must provide a JSON configuration file. When adding a node license, you must provide a valid license file.
- Use a common support module  
The common support module *deploy\_requests.py* contains a single class. It is imported and used by each of the scripts.

## Creating a cluster

You can create an ONTAP Select cluster using the script *cluster.py*. Based on the CLI parameters and contents of the JSON input file, you can modify the script to your deployment environment as follows:

- Hypervisor  
You can deploy to ESXi or KVM. When deploying to ESXi, the hypervisor can be managed by vCenter or can be a standalone host.
- Cluster size  
You can deploy a single-node or multiple-node cluster.
- Evaluation or production license  
You can deploy a cluster with an evaluation or purchased license for production.

The CLI input parameters for the script include:

- Host name or IP address of the Deploy server
- Password for the admin user account
- Name of the JSON configuration file
- Verbose flag for message output

## Adding a node license

If you choose to deploy a production cluster, you must add a license for each node using the script *add\_license.py*. You can add the license before or after you deploy the cluster.

The CLI input parameters for the script include:

- Host name or IP address of the Deploy server
- Password for the admin user account
- Name of the license file
- ONTAP user name with privileges to add the license
- Password for the ONTAP user

## Deleting a cluster

You can delete an existing ONTAP Select cluster using the script *delete\_cluster.py*.

The CLI input parameters for the script include:

- Host name or IP address of the Deploy server
- Password for the admin user account
- Name of the JSON configuration file

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