



# **Automation technologies**

## **Cloud Manager Automation**

NetApp

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# Automation technologies

## Overview of Cloud Manager platform automation options

DevOps teams use a variety of tools to automate the setup and administration of their data center runtime environments. NetApp supports many of these technologies for Cloud Manager and Cloud Volumes ONTAP automation. The tools are commonly based on an Infrastructure as Code (IaC) design.

### Terraform

Terraform is an open-source orchestration tool which uses declarative configuration files. NetApp has created a Terraform provider you can use with Cloud Manager to automate and integrate Cloud Volumes ONTAP based on IaC. See [Terraform provider: netapp-cloudmanager](#) for more information.

### Ansible

Ansible is an open-source configuration management tool based on the use of procedural configuration files.

### Related information

- [Infrastructure as Code](#)
- [Terraform](#)
- [Ansible](#)

## Blogs about Cloud Manager platform automation

There are several blog articles available to help you better understand the technologies and approaches available for Cloud Manager automation.

### Using Cloud Manager REST APIs with Federated Access

<https://cloud.netapp.com/blog/using-cloud-manager-rest-apis-with-federated-access>

### Cloud Automation with Cloud Volumes ONTAP and REST

<https://cloud.netapp.com/blog/cloud-automation-with-cloud-volumes-ontap-rest>

### Automated Data Cloning for Cloud-Based Testing of Software Applications

<https://cloud.netapp.com/blog/automated-data-cloning-for-cloud-based-testing>

### Roles for Ansible ONTAP use

<https://netapp.io/2019/03/25/simplicity-at-its-finest-roles-for-ansible-ontap-use>

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