Cloudify 6.1.0 Release Notes

August 8th, 2021

Cloudify 6.1.0 release contains new features and fixes on top of Cloudify's v6.0.
Version 6.1.0 can be deployed as a new installation, as an in-place update over a 5.2.x/6.x.x Cloudify manager and as an upgrade version for any supported previous Cloudify release.
See the upgrade section below for more details.

New functionality and improvements

Version 6.1 contains functionality improvements and extensions to features introduced in version 6.0, the improvements were performed in the following areas:

1. Filters
   Filters now can be updated and defined dynamically on the environments and service view pages
2. Batch Executions
   Improvements of batch executions: backend and Interface
   Performance improvements of executions
3. Deployment display name
   Extended support for UI widgets to display the deployments display name
4. Authentication improvements
   Documentation, improved error messages, and roles improvements for LDAP
5. Environment Discovery
   Discovered Kubernetes environments now support token refresh
6. General
   IPV6 Support - adjustment of internal service for IPV6 environments

Other Corrections & Fixes

1. High Availability and Load Balancing Clustering
   Fixed: cluster teardown fails with SSL
   Improved logging for cluster manager
   Fixed: Patroni permissions on the data directory
   Remove cluster manager RPM on clean up
   Fixed installing cluster without SSL
   Fixed log download issue in 3 node cluster configuration
2. Manager UI
   Improvements to deployment display, topology and map view
   Topology zooming improvements
3. Plugins Related
   Terraform plugins directory structure support
   Fixed: rendering issues for Terraform topology
4. Manager Backup Snapshots
   Fixed: snapshot issue resulting in an error with high node count

Deploying Cloudify 6.1.0

v6.1.0 can be deployed as a [new installation](#), as an [in-place update over a 5.2.x / 6.0.x Cloudify manager](#), or as an [upgrade version for any supported previous Cloudify release](#).

Upgrading from 5.1.x / 5.2.x / 6.0.x

NOTE!
Upgrading from 5.1.0 is supported only via snapshots, if you want to avoid the upgrade via the snapshot process, please upgrade first to any of the following 5.1.1, 5.1.2, 5.1.3, 5.1.4, and then continue the upgrade to 6.1.0.

Before the Upgrade

As a best practice, we recommend taking a snapshot of the system before the update. Read [this page](#) for more details.

NOTE!
If the Cloudify cluster you are upgrading from was deployed using the *Cloudify Cluster Manager* (which is the recommended approach), you can simplify the update process to 6.1.x by running it through the Cluster Manager.
Below, you can find the procedures for either using the Cluster Manager, or a manual flow.

Tip: the upgrade steps require yum installation of the 6.1.0 RPM. This can be done either by downloading the rpm package to the local Cloudify nodes and directing the command to the rpm path or by referencing the URL of the package. The second option requires a live connection to the package path. Here are usage examples for both:

```
# Downloading the RPM to the current directory
curl -O
https://repository.cloudifysource.org/cloudify/6.1.0/ga-release/cloudify-manager-ins
tall-6.1.0-ga.el7.x86_64.rpm
# Installing the downloaded RPM
sudo yum install -y cloudify-manager-install-6.1.0-ga.el7.x86_64.rpm
```

```
# Installing the RPM directly
sudo yum install -y
https://repository.cloudifysource.org/cloudify/6.1.0/ga-release/cloudify-manager-ins
```

```
tall-6.1.0-ga.el7.x86_64.rpm
```

Upgrading Cloudify All-In-One

Update steps:

1. Install the new 6.1.0 cloudify-manager-install RPM, by using the command:
   ```
   sudo yum install -y <6.1.0 RPM>
   ```

2. To start the upgrade, run the command
   ```
   cfy_manager upgrade
   ```

3. If Cloudify agents are used in your deployments, run
   ```
   cfy agents install
   ```

4. When opening the Cloudify Management Console after the upgrade, you might see "This page is empty", this happens because of cached data. To solve this, press CTRL + Shift + R.

Upgrading a Cloudify Compact Cluster (3 nodes)

If the initial cluster installation was done using the Cloudify Cluster Manager, follow this simplified process.

Updating a Cloudify compact cluster leveraging the Cloudify Cluster Manager

You can use the Cloudify Cluster Manager tool to upgrade a compact cluster:

Upgrade your Cloudify Cluster Manager by running
```
sudo yum install -y
https://repository.cloudifysource.org/cloudify/cloudify-cluster-manager/1
.0.11/ga-release/cloudify-cluster-manager-1.0.11-ga.el7.x86_64.rpm
```

On the host that has Cloudify Cluster Manager installed, run `cfy_cluster_manager upgrade`.
Optional Arguments:

> **--config-path** The completed cluster configuration file path. Default:
> `./cfy_cluster_config.yaml`

> **--upgrade-rpm** Path to a v6.1.0 cloudify-manager-install RPM. This can be either a local or remote path.
> Default:
> `http://repository.cloudifysource.org/cloudify/6.1.0/ga-release/cloudify-manager-install-6.1.0-ga.el7.x86_64.rpm`

-v, --verbose Show verbose output

Running this command will automatically run the upgrade procedure on the cluster.

If the Cluster was manually deployed, please follow this procedure instead:

Manually updating a Cloudify compact cluster

1. Install the new 6.1.0 cloudify-manager-install RPM on all 3 nodes of the cluster, by using the command:
   `sudo yum install -y <6.1.0 RPM>`
   Repeat this step on all 3 nodes.

2. On each of the cluster nodes, run `cfy_manager upgrade -c <path to DB config>`.
   Do it one after the other, not in parallel.

   Tip: If you used the cloudify-cluster-manager tool to generate the Cloudify cluster, the path to the DB config file is `/etc/cloudify/postgresql-<node number>_config.yaml`. *If the cluster was manually installed, please direct the command to the path of the file you generated.*

3. On each of the cluster nodes, run `cfy_manager upgrade -c <path to rabbitmq config>`.
   Do it one after the other, not in parallel.

   Tip: If you used the cloudify-cluster-manager tool to generate the Cloudify cluster, the path to the RabbitMQ config file is `/etc/cloudify/rabbitmq-<node number>_config.yaml`. *If the cluster was manually installed, please direct the command to the path of the file you generated.*

4. On each one of the cluster nodes, run `cfy_manager upgrade -c <path to manager config>`
   Do it one after the other, not in parallel.

   Tip: If you used the cloudify-cluster-manager tool to generate the Cloudify cluster, the path to the manager config file is `/etc/cloudify/manager-<node number>_config.yaml`. *If the cluster was manually installed, please direct the command to the path of the file you generated.*

5. If Cloudify agents are used in your deployments, run the following command from **just one** of the cluster nodes:
   `cfy agents install`

6. When opening the Cloudify Management Console after the upgrade, you might see "This page is empty", this happens because of cached data. To solve this, press CTRL + Shift + R.

Upgrading a Cloudify Fully Distributed Cluster (9+ nodes)

If the initial cluster installation was done using the Cloudify Cluster Manager, follow this simplified process.

Updating a Cloudify Fully Distributed Cluster leveraging the Cloudify Cluster Manager

You can use the Cloudify Cluster Manager tool to upgrade a fully distributed cluster:

Upgrade your Cloudify Cluster Manager by running
```
sudo yum install -y
https://repository.cloudifysource.org/cloudify/cloudify-cluster-manager/1
.0.11/ga-release/cloudify-cluster-manager-1.0.11-ga.el7.x86_64.rpm
```
On the host that has Cloudify Cluster Manager installed, run `cfy_cluster_manager upgrade`.
Optional Arguments:

> **--config-path** The completed cluster configuration file path. Default:
> `./cfy_cluster_config.yaml`
>
> **--upgrade-rpm** Path to a v6.1.0 cloudify-manager-install RPM. This can be either a local
> or remote path.
> Default:
> `http://repository.cloudifysource.org/cloudify/6.1.0/ga-release/cloudify`
> `-manager-install-6.1.0-ga.el7.x86_64.rpm`
>
> **-v, --verbose** Show verbose output

Running this command will automatically run the upgrade procedure on the cluster.

If the cluster was manually deployed, please follow this procedure instead:

Manually updating a Fully Distributed Cluster

Update steps:

1. Install the new 6.1.0 cloudify-manager-install RPM on all the cluster nodes, by using the
   command:
   `sudo yum install -y <6.1.0 RPM>`
   Repeat this step on all 9 nodes.

2. On all three database nodes run `cfy_manager upgrade`
   Do it one after the other, not in parallel.

3. On all three RabbitMQ nodes run `cfy_manager upgrade`
   Do it one after the other, not in parallel.

4. On all manager nodes, run `cfy_manager upgrade`
   Do it one after the other, not in parallel.

5. If Cloudify agents are used in your deployments, run the following command from **just one** of the
   manager nodes:

```
cfy agents install
```

7. When opening the Cloudify Management Console after the upgrade, you might see "This page is empty", this happens because of cached data. To solve this, press CTRL + Shift + R.

Upgrading from Previous Versions (4.x - 5.0.5) to 6.x.x

The upgrade flow from versions 4x - 5.0.5 to versions 5.1 and above requires additional steps. This is due to the Python 3 migration introduced in 5.1. This migration requires updating plugin code.
Please review the [5.1 upgrade procedure](#) carefully and consult with the Cloudify support team to assure a smooth and successful upgrade.

New installation

- To deploy a single - All-In-One manager, please follow the [AIO manager installation guide](#).
- To deploy a highly available Compact Cluster - a distributed cluster of 3 nodes - please refer to the [3 nodes cluster installation guide.](#)
- To deploy a highly available Fully Distributed Cluster - a distributed cluster of 9 nodes - please refer to the [9 nodes cluster installation guide](#).
  NOTE! You can simplify the cluster deployment and automate the provisioning by leveraging the [Cloudify Cluster Manager Package](#).
- **NOTE! When using your own signed certificates you must include the** *external_ca_cert_path* **as it will be used for all other certificates.**

Download Cloudify 6.1.0

Manager install:

- RPM - cloudify-manager-install-6.1.0ga.rpm
- OpenStack image - cloudify-manager-6.1.0.qcow2
- Docker containers
    - All-in-one manager - Cloudify manager aio
    - Manager - Cloudify manager worker
    - Database - Cloudify postgresql
    - Messaging queue - Cloudify rabbitmq

Premium CLI packages:

- RPM (CentOS/RHEL) - Cloudify cli centos (.rpm)
- Debian - Cloudify cli debian (.dep)
- Windows - Cloudify cli Windows (.exe)

Support

Support Discontinuance

With the official end of life for CentOS 6.x on November 30th, 2020, starting Cloudify 5.1.1 CentOS 6 agent will no longer be supported (nor provided in the package).

Supported Versions

Listed below are the support discontinuance dates for the recent Cloudify versions. As of these dates, the respective versions will no longer be supported under the standard Cloudify support agreement.

Version	Support Discontinuance Date
Cloudify Premium & Community Editions v4.6.x	Apr 17th, 2021
Cloudify Premium & Community Editions v5.0.5	Feb 3rd, 2022
Cloudify Premium & Community Editions v5.1.0	Oct 19, 2022
Cloudify Premium & Community Editions v5.2.0	Apr 5, 2023
Cloudify Premium & Community Editions v6.0.0	May 26, 2023