

# Cloudify 4.3

## Release Notes

<b>Cloudify 4.3</b>	<b>1</b>
Cloudify 4.3 - What's New	2
Features and Improvements	2
Features	2
Improvements	3
Resolved Issues	5
Known Issues	6

## Cloudify 4.3 - What's New

- New RPM Installation with all dependencies pre-packed to provide a quick, simple stable and offline installation.
- Plugins upload process now links the plugin.yaml file to the plugin's wagon, simplifying referencing the plugin from the blueprint, and eliminating the need of specifying a version and distribution of the plugin in the blueprint.
- Full support of 3 levels of visibility for resources (Blueprints, Plugins, Secrets) - The resources can be created in each of the levels, and can later be set to a higher level of visibility.
- Plugins-bundle can be uploaded to the manager in one-click and includes all OOTB plugins that fit the OS distribution.

## Features and Improvements

Here is the detailed list of the Cloudify 4.3 features and improvement, with their associated tasks:

### Features

- **New Cloudify Installation and Configuration**
  - [CFY-7725](#) - Allow to change admin password after install
  - [CFY-7671](#) - Allow to enable SSL on the manager after install
  - [CFY-7684](#) - The full cfy\_manager configuration is dumped back to file after each install/configure. This keeps generated password and security config, and allows to run install/configure with the same config again
  - [CFY-7670](#) - Add a --clean-db flag to install/configure commands. If passed, the DB will be recreated. If not, the same password/security config will be used, and the DB will remain intact
- **New Plugins Upload**
  - [CFY-7697](#) - Update plugin upload api, to support also plugin yaml
  - [CFY-7699](#) - Plugins list should include the yaml path
  - [CFY-7758](#) - Allow linking a blueprint to the latest plugin version installed on the manager.
- **Resource Visibility**
  - [STAGE-629](#) - Support set-availability in the UI
  - [STAGE-640](#) - Allow to create a private secret
  - [CFY-7556](#) - Add the ability to create resource as global
  - [CFY-7554](#) - Add api for setting the availability of a resource
- **TOSCA support via ARIA plugin**
  - [CFY-7628](#) - Aria plugin to work with the new ARIA 0.2.0 API
  - [CFY-7627](#) - Openstack plugin.yaml to work with ARIA 0.2.0

- **Plugins**
  - Amazon AWS:
    - [AWSSDK 1.2.0](#) - Add Support for VPC Peering, ECS
  - Google Cloud Platform:
    - [GCP Plugin 1.1.0](#) - Support metadata in additional settings, expose public IP property on instances, init\_script agent installation, startup script as string, add missing zones, fetch zones from API
    - [GCP Plugin 1.2.0](#) - GKE Support, VPC Peering Support
    - [GCP Plugin 1.3.0](#) - SSL Proxy and TCP Proxy type
    - [GCP Plugin 1.4.0](#) - Support Pub/Sub, Projects Management, Update Client, Internal Load Balancing Example
  - Kubernetes:
    - [Kubernetes Plugin 1.4.0](#) - Update Operation for all resource types
    - [Kubernetes Plugin 2.0.0](#) - Upgrade client to kubernetes python 4.0.0, support propagate resource-deletion, Support Kubernetes RBAC node type, improve resource state verification in start operation
  - Azure:
    - [Azure 1.5.0](#) - Add Support for ARM Template Type
    - [Azure 1.5.1](#) - Add Support for init\_script agent installation method
  - Openstack:
    - [Openstack Plugin 2.5.0](#) - Support Server Groups
    - [Openstack Plugin 2.5.1](#) - Allow passing openstack version
    - [Openstack Plugin 2.5.2](#) - Support passing CA cert for connecting to Openstack
    - [Openstack Plugin 2.6.0](#) - Configure logs handling. Data Type Validation for Openstack Config
  - Utilities:
    - [Utilities Plugin 1.5.0](#) - Add Rest Type Plugin

## Improvements

- **WebUI**
  - [STAGE-576](#) - Allow to create secret from file
  - [STAGE-611](#) - Support providing input files from the UI in the deploy operation
  - [STAGE-634](#) - Integrate NodeFilter component and Filter by Blueprint/Deployment/Execution widget
- **Plugins**
  - Amazon AWS
    - [AWSSDK 1.2.0.2](#) - Bug Fix for External Resource
  - Google Cloud Platform
    - [GCP Plugin 1.3.0.1](#) - Fix issue with attaching disks
  - Kubernetes

- [Kubernetes Plugin 1.3.1.1](#) - Set dependencies for building this plugin
- Utilities
  - [Utilities Plugin 1.4.1.1](#) - Fix bug in multiple IP handling in Terminal Plugin
  - [Utilities Plugin 1.4.2](#) - Multiple fixes in Configuration Plugin
  - [Utilities Plugin 1.4.2.1](#) - Handle Parameters correctly in Configuration Plugin update operation
  - [Utilities Plugin 1.4.3](#) - Support infinite timeout with Deployment Proxy
  - [Utilities Plugin 1.4.4](#) - Add debug logging to Deployment Proxy
  - [Utilities Plugin 1.4.5](#) - Add support for retry on socket timeout in Terminal Plugin
- Composer
  - [COMPOSER-436](#) - Support multiple BPs Operations
  - [COMPOSER-755](#) , [COMPOSER-914](#) - Re-design "Imports" tab to show plugins uploaded to the manager
  - [COMPOSER-789](#) - Allow duplicating a BP
  - [COMPOSER-800](#) - Upon login, get all the plugins from the tenants the user can access
  - [COMPOSER-902](#) - Pre-pack composer with IaaS templates (AWS, Azure, GCP, OS)
  - [COMPOSER-905](#) - Add "Help" menu to Composer
  - [COMPOSER-910](#) - Autocomplete secrets the user is exposed to in get\_secret function
  - [COMPOSER-392](#) - Open on "rename" mode when adding a new folder
  - [COMPOSER-573](#) - Support long blueprint names
- Additional Improvements
  - [STAGE-642](#) - Snapshots are created private by default
  - [CFY-7720](#) - Set system-wide role to user-groups in stage
  - [CFY-7759](#) - Allow configuring broker AMQP heartbeat
  - [CFY-7723](#) - Change the name of the feature from availability to visibility
  - [CFY-7681](#) - Fix messages when not passing IPs to install
  - [CFY-7686](#) - the get\_data parameter in tenants list should only be available for admins
  - [CFY-7615](#) - improve cli output regarding roles from groups
  - [CFY-6732](#) - Exposing ldap/no ldap status in API

## Resolved Issues

Here is the detailed list of issues from previous releases that are resolved in Cloudify 4.3:

- WebUI
  - [STAGE-431](#) - Fix 404 message showing after deleting the first page
  - [STAGE-440](#) - Handle getting an 401
  - [STAGE-593](#) - Remain on the same page when switching between tenants.

- [STAGE-544](#) - Cloudify topology does not display if the blueprint name contains a '+'
- [STAGE-203](#) - unable to move widget on edit mode below the bottom of the screen (doesn't scroll down)
- [STAGE-444](#) - Make Deployment ID in the deployments list clickable
- [STAGE-435](#) - Change appearance of inputs values and tooltip on Deployment Creation
- [STAGE-413](#), [STAGE-553](#), [STAGE-653](#) - Fix dropdown appearance bugs.
- [CFY-7734](#) - Template Management: Changing the title of a widget in one of the pages isn't being saved in the template
- [CFY-7784](#) - Adding users to a tenant fails if they are inherited from a group (Premium feature)
- [CFY-7796](#) - User with sys\_admin role via groups doesn't have admin permission on the UI (Premium feature)
- Composer (Premium feature)
  - [COMPOSER-502](#) - Allow expand/collapse interfaces in node instance pane
  - [COMPOSER-588](#) - Close "Are you sure" delete-node message when switching nodes
  - [COMPOSER-621](#) - Change message in operations tree when there are no plugins
  - [COMPOSER-871](#) - Fixing issue with changing a relationship's type
  - [COMPOSER-875](#) - All double newlines removed in Source tab.
  - [COMPOSER-912](#) - When renaming a node instance that other nodes are referencing its properties from a non-string fields, the node isn't being renamed.
- Additional Resolved Issues
  - [CFY-7753](#) - Installation fails with global blueprint resource
  - [CFY-7735](#) - Community manager version shows as premium
  - [CFY-7711](#) - A install->remove->install workflow would fail
  - [CFY-7683](#) - It wasn't possible to install again after teardown
  - [CFY-7682](#) - The DB would get wiped out after each install/configure
  - [CFY-7481](#) - Add system-wide roles to user-groups
  - [CFY-7593](#) - listing all tenants should not require tenant for authorization
  - [CFY-7571](#) - Bootstrap fails during in-place upgrade process after manager teardown in HA cluster
  - [CFY-7798](#) - Install deployment fails with global plugin (Premium feature)
  - [CFY-7811](#) - Unclear message after create deployment fails over plugin not found
  - [CFY-7791](#) - Tasks are stuck after agent loses connection
  - [CFY-7722](#) - Can't enable ssl with two managers cluster
  - [CFY-7566](#) - After remove cluster you've been disconnected from the active manager
  - [CFY-7559](#) - Inconsistency in responses from Cloudify REST API on invalid endpoints

- [CFY-7692](#) - Cluster set-active: race condition between responding and shutting down restservice
- [CFY-7806](#) - Large size of Blueprint consume high CPU and Memory from its node till failure
- [CFY-7848](#) - "cfy executions list" fails if more than 1000 executions exist
- [CFY-7880](#) - "cfy secrets create" returns 0 if secret already exists
- [CFY-7875](#) - CLI needs internal\_ca\_cert in to connect, not external\_cert
- [CFY-7709](#) - Connection failed to active manager after second manager failed to join
- [CFY-7550](#) - Diamond is not being installed from Wagon
- [CFY-7863](#) - Error creating certificate during installation if provided ca created with password
- [CFY-7837](#) - Impossible to access node properties via Fabric
- [CFY-7867](#) - Incorrect error message while join cluster with --cluster-host-ip
- [CFY-7764](#) - Install blueprint fails after restore snapshot on second manager
- [CFY-7868](#) - Installation fails if the root user requires a TTY to invoke sudo commands
- [CFY-7904](#) - Long operations on a clustered manager (that take more than 5 seconds) fail
- [CFY-7656](#) - Riemann workflow execution failure with signed certificate in bootstrap
- [CFY-7903](#) - When using LDAP, the `ldap\_is\_active\_directory` flag is a string, not a bool
- [CFY-7910](#) - Running custom workflow fails with global plugin
- [CFY-7897](#) - The total resources number is missing in the cli resources list command
- [CFY-7879](#) - In the UI, Blueprint has been upload after getting an error message
- [CFY-7874](#) - Can't join profile in ssl cluster - certificate problem
- [CFY-7937](#) - The install workflow can fail sometimes (from the CLI)

## Known Issues

These issues are found in this release:

- [CFY-7855](#) - Composer does not support blueprints with nested imports
- [CFY-7773](#) - If an error occurs when you install Cloudify CLI on Windows, you can safely ignore the error
- [CFY-7893](#) - When uploading private blueprint and tenant deployment the operation can't be executed
- [CFY-7839](#) - Converting SSH keys to secrets in snapshot create/restore breaks on Openstack