

# Application Interface

- API
- CLI

# API

## API Version Numbers

Current	Minimum
40	11

### Current

The current version number.

### Minimum

Minimum supported version.

This means you must use at least the API version indicated to access the endpoint, unless otherwise noted. Some features or functionality for the endpoint may only be supported in later versions.

The API Version Number is required to be included in all API calls within the URL.

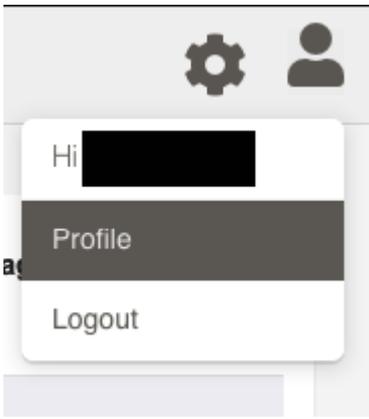
If the version number is not included or if the requested version number is unsupported, then the API call will fail. The error response will include the code "api-version-unsupported" and have HTTP status code of `400 Bad Request`

## Authentication

Authentication can be done in two different ways, either with Token based authentication, or with a username and password.

Token Authentication consists of including a string known as an "API Token" with every request to the Rundeck API.

To obtain an API Token, you must first log in to the Rundeck GUI using a user account. Click on your username in the header of the page, and you will be shown your User Profile page. From this page you can [manage your API Tokens](#).



## User API Tokens ⊕

Showing tokens 1 to 50 of 382 total.

### Generate New Token ×

**Name**

A name to describe this token

**User**

Username associated with the token

**Roles**

Comma separated roles/groups. Leave blank for: all current user roles.

**Expiration in**

Set to zero for maximum allowed duration. (none)

[+ Generate New Token](#)

## XML and JSON

The API supports both XML and JSON. Some import/export features support YAML or `text/plain` formatted documents, but XML and JSON are used for all API-level information.

## Popular API Commands

Jobs

Executions

Projects

# CLI

## RD-CLI

<https://docs.rundeck.com/docs/learning/howto/learn-rd-cli.html>

Rundeck CLI (RD-CLI) is a Java client to access and interact with a Rundeck Instance from the command line. In a few words, Rundeck CLI is a Rundeck API abstraction tool. With Rundeck CLI is possible to view system information, list executions, list and manage jobs, manage keys, list and manage node source, projects, and jobs in the command line.

## Installing

In OurCompose, the CLI can be installed by including the instructions given in the Rundeck documentation into the `compositional_rundeck_additional_setup` variable. At the moment, that is curling the install script down and running it to set up the repos, then using `apt` to install it.

## Configuration

You need at least three environment variables to run the CLI tool against the server:

1. `RD_URL`
2. `RD_USER`
3. `RD_PASSWORD`

You can either export these env vars into the shell itself, or set up an `rd.conf` file. However, you would have to tell the CLI where that file was by pointing to it with the `RD_CONF` environment var.

Keep in mind that you can also use an API token instead of a user/password combination.

## Available Commands

<https://rundeck.github.io/rundeck-cli/commands/>

adhoc - Dispatch adhoc COMMAND to matching nodes  
executions - List running executions, attach and follow their output, or kill them  
jobs - List and manage Jobs  
keys - Manage Keys via the Key Storage Facility.  
nodes - List and manage node resources  
projects - List and manage projects  
run - Run a Job  
scheduler - View scheduler information  
system - View system information  
tokens - Create, and manage tokens  
users - Manage user information