

How to Deploy Applications with Octopus Deploy

On how to deploy applications with Octopus Deploy.

Introduction

Octopus Deploy is used for deploying application NuGet packages to various environments such as test, UAT, client test, partner test and production. TeamCity is used for compiling and building applications into NuGet packages. Once the NuGet packages are built in TeamCity, they become available for deployment in Octopus Deploy.

Dashboard Page

Login to Octopus Deploy using the Active Directory username and password. Initially the 'Dashboard' page will be displayed. There will be lists of deployment projects on this page organised by project groups such as 'xxx', 'xxx', 'xxx', 'xxx', etc. Below each of the project groups, there will be deployment projects related to it.

Projects Page

Click on the 'Projects' link on the top of the page to go to the 'Projects' page. This page will again show the projects groups and deployment projects as earlier, but will organise them in a tiles view.

The "Project group" filter at the top left of the page can be used to filter and show just the deployment projects for just one project group. For example, selecting 'xxx' will show just the deployment projects specific to that project group.

The visible build projects can be further refined by using the search text box to the right of the 'Project group' filter, with the text 'Project name or description'. Part of the deployment projects name can be entered to further filter the visible deployment projects, e.g. entering "xxx" will just show the deployment projects with that text in their name.

Once the correct deployment is filtered for and located, it can be clicked onto to go to its deployment details page.

Deployment Details Page

In the deployment details page, the deployment project's title will be displayed on the left, e.g. 'xxx' in large text. There are multiple sections on this page such as 'Overview', 'Process', 'Variables', etc. below the deployment project's title. The 'Overview' page will be the first selected, visible page.

The right side of the page will list the NuGet packages for this deployment project, with their build versions from TeamCity, below the title 'Release'. For example, release 1.0.**398**.0 refers to build number 398 in TeamCity. The most recent releases will be towards the top of this list.

To the right of this, there will be a horizontal list of environment names that the releases can and / or have been deployed to, e.g. 'xxx', 'xxx', 'xxx', etc. Below these environment names, if there a green tick with a date, then that means that particular release on the left was deployed to

that environment on that date. Faded green ticks refer to past deployments and unfaded green ticks refers to current deployments in those environments.

If a particular release has not yet been deployed to a particular environment, the link 'DEPLOY' will appear there instead of a green tick. Clicking on the 'DEPLOY' will navigate to the deployment page where that release can be deployed to that particular environment.

Deployment Page

Clicking on the green 'DEPLOY' button on the top right will prepare the release to be deployed and change to a confirmation view, requesting manual intervention. Click on the dark blue 'ASSIGN TO ME' button and then click on the 'PROCEED' button to start the deployment of the release to that environment.

It will then start the deployment and display a list of tasks that are progressing to deploy the release as a summary. Clicking on the 'TASK LOG' title on the right, will display a more detailed progress of the progressing deployment. Clicking on the 'TASK SUMMARY' shows the previously visible summary progress of the deployment.

Once this summary progress finishes and has green ticks at every step, it will show a big green tick on the top left, next to the 'Deploy...' title. This indicates that the release was deployed successfully to the particular environment.

The 'Overview' page will now show that the 'DEPLOY' link has been replaced with an unfaded green tick with the release number that was just deployed, along with the current date as the date of deployment below it.

Deployment History

From the 'Overview' page, the deployment history for a release can be viewed by clicking on the release version number on the left. It can be viewed in the section 'Deployment history' in the release information page. This page will also display information about the NuGet package in the 'Packages' section, in addition to other information about that release.

The deployment history for a release in a particular environment can be viewed by clicking on any of the green ticks on the 'Overview' page. The 'TASK SUMMARY' will show the summary of the deployment and clicking on the 'TASK LOG' title will display the deployment details.

Rolling Back

To roll back to a previous release, from the 'Overview' page click on the faded green tick of the previous release in the particular environment that the application needs to be rolled back to. On navigation to the deployment page, the release can be re-deployed as shown earlier by clicking on the green 'DEPLOY TO ...' button on the top right.

Once this past release is re-deployed, it will become the current release in that environment and will be shown in the 'Overview' page with an unfaded green tick with the date that it was re-deployed.

Meeting Recording

There was a meeting held on the 03rd of June 2022 and this document refers to that meeting. The recording of this meeting is available at this network location:

xxx

It is in the folder named "2022-06-03 CCB NZ B2B Web Service Build, Deployment to Test and Debugging" at the above network location.