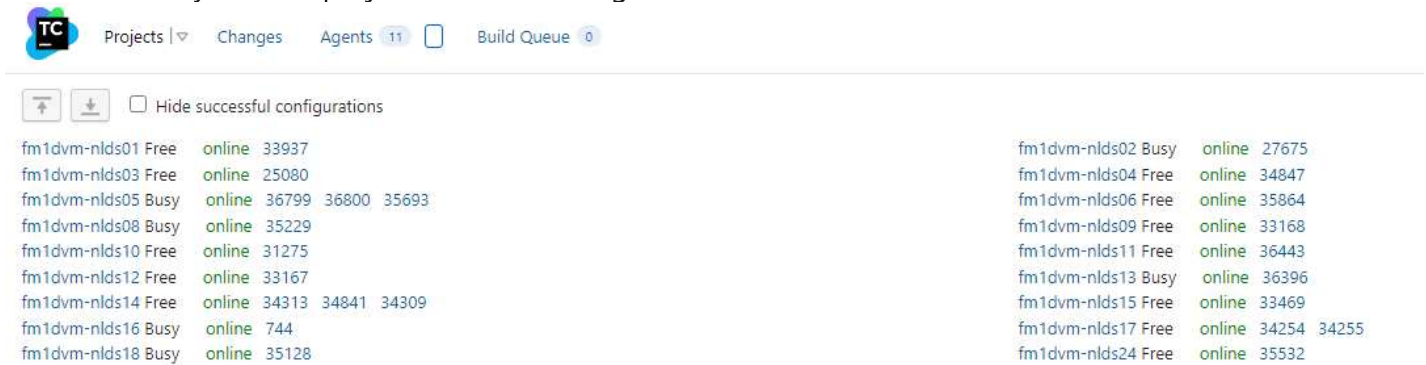# FT and Integration environments deployment

Last updated by | Ilya Maleev | Mar 4, 2022 at 5:28 PM GMT+3

FT environments

We have a set of environments dedicated to Functional Testing. They are from fm1dvm-nlds01 to fm1dvm-nlds18 plus fm1dvm-nlds24

When some User Story comes to FT (changing its status from Development to Functional Testing) it should be deployed to any free environment for testing.

1. Go to TeamCity VSTS ⧉ project. There is a widget with FT environments status

2. Select any free FT environment project.

3. Reset APvX database – run "APvX DB reset" task. Wait until the task is finished.

4. Go to the project settings ("Edit Project Settings" link) and update them:
   - In the Parameters tab update env.BranchName with a name of the branch where the User Story is developed.
   - In the General Settings tab update the project Description with an Id of the User Story that the branch belongs to. There may be several user stories if their code changes are in the same branch. Specify them all separated by comma. It is important for the environment free/busy status check.

5. Return to the project home ("Project Home" link). There is a list of build and deployment tasks.

6. Run "Redeploy all" task. It will start all deployment tasks for the environment. Wait until the task is finished.
7. Go to [VSTS](#) and update the User Story work item – add a tag with a name of the used environment, e.g., 'nlds13'.
8. Add the environment name to FT child task and assign it to Raul Barrios.

As soon as the branch name is changed and all deployment tasks are completed, TeamCity tracks all changes in the branch and automatically runs corresponding build/deployment tasks.

Integration environments

We have two integration environments:

- main - fm1dvm-nlis01. This environment is always deployed from the next major release branch (e.g., Integration_2022.2 branch is for iteration 2022.2.0)
- hotfix - fm1dvm-nlis02. This environment is deployed from the previous major release branch (e.g., Integration_2022.1 branch is for iteration 2022.1.1, 2022.1.2 etc.)
  The integration environments are deployed almost in the same way as FTs but they are not dedicated to some specific user stories.

Code changes flow

All User Stories are developed in their own branches. When some user story passes functional testing, gets an iteration and is requested for release (comes to Release Request status) its developer merges the code to the corresponding integration branch (usually the main integration branch). If some work item is planned for

release as a hotfix, it is merged to the hotfix integration branch.
After release the code is merged to master branch.