B2B Cloud Onboarding Guide

1. What is B2B Cloud?
   1. Product demo
      1. [webMethods.io B2B](https://onboarding.dev-int-aws-us.webmethods.io/b2b/#/welcome)
   2. B2B Doc [Understanding webMethods io B2B - webMethods.io B2B (ad.sag)](http://vmbandoc.eur.ad.sag/b2b/webmethods_io_b2b_online_help/chapter1/#gsc.tab=0)
   3. Hands-on [B2B on Cloud - Getting started - RnD Cloud Technologies - iWiki (ad.sag)](https://iwiki.eur.ad.sag/display/RNDWCLOUD/B2B+on+Cloud+-+Getting+started)
   4. Overview of the Architecture
      1. [B2B on Cloud - Architecture - RnD Cloud Technologies - iWiki (ad.sag)](https://iwiki.eur.ad.sag/display/RNDWCLOUD/B2B+on+Cloud+-+Architecture)
      2. [BOC: K8s Cluster Block Diagram - RnD Cloud Technologies - iWiki (ad.sag)](https://iwiki.eur.ad.sag/display/RNDWCLOUD/BOC%3A+K8s+Cluster+Block+Diagram)
   5. Products and technologies
      1. TN/IS, MySQL, Angular, Spring, CTP, MongoDB, Docker, Kubernetes, LB/NGINX, AWS, Azure etc.
   6. Home page [B2B on Cloud - RnD Cloud Technologies - iWiki (ad.sag)](https://iwiki.eur.ad.sag/display/RNDWCLOUD/B2B+on+Cloud)
2. Development Details
   1. CI/CD process local->BVT/QA, Cloud: dev->int->stage->pre-prod->prod)
   2. Codebases
      1. TN <http://svnva.ame.ad.sag:1818/svn/sag/tn/trunk>
      2. B2B Cloud <https://irepo.eur.ad.sag/projects/BOC/repos/wmb2b>
      3. B2B Channel <https://irepo.eur.ad.sag/projects/BOC/repos/channel>
      4. All B2B Cloud projects [B2B on Cloud project overview - iRepo (ad.sag)](https://irepo.eur.ad.sag/projects/BOC)
   3. Build URL
      1. TN Continuos [TN\_trunk\_BAS\_continuous [Jenkins] (ad.sag)](http://us-builds.eur.ad.sag/job/TN_trunk_BAS_continuous/)
      2. B2B Continuos [WmB2B\_develop\_BAS\_continuous [Jenkins] (ad.sag)](http://daebuilds.eur.ad.sag:9090/job/WmB2B_develop_BAS_continuous/)
      3. Channel Continuous [WmChannels\_develop\_BAS\_continuous [Jenkins] (ad.sag)](http://daebuilds.eur.ad.sag:9090/view/B2B%20Cloud/job/WmChannels_develop_BAS_continuous/)
      4. All B2B Cloud builds [B2B Cloud [Jenkins] (ad.sag)](http://daebuilds.eur.ad.sag:9090/view/B2B%20Cloud/)
   4. BAS Repo
      1. B2B Server artifacts [bas.eur.ad.sag](http://bas.eur.ad.sag:8081/artifactory/webapp/#/artifacts/browse/tree/General/lib-snapshot-local/com/softwareag/b2b/tn)
      2. B2B UI artifacts [bas.eur.ad.sag](http://bas.eur.ad.sag:8081/artifactory/webapp/#/artifacts/browse/tree/General/lib-snapshot/com/softwareag/cbi/b2b-ui/b2b-ui)
   5. Docker registry [Docker Trusted Registry (ad.sag)](https://dtr.eur.ad.sag:4443/repositories/kub-prd/webmethods-b2b/info)
   6. Codebase Setup
      1. Get access to above mentioned codebases by creating iBit tickets in iTrac
      2. For TN, install TortoiseSVN and checkout code using the codebase URL
      3. For Git projects like wmB2B, install Git, TortoiseGit and clone the codebase
      4. For cloning Git project, go to the respective project repo in irepo, and click on clone icon in left hand corner to get the HTTP URL. Go to your file directory and use git clone command either by using Git Bash or TortoiseGit.
      5. For Git project, the cloned repo will be always the master branch. So, you need to switch to a feature or develop branch by using git checkout command by using Git Bash or tortoiseGit and giving the right branch name.
      6. Now build all the checked-out projects by executing command “gradlew clean build” in root folder of the codebase.
      7. Install IntelliJ (IJ) IDE and create a new project by navigating File->New->Project. Select Gradle, then Java as additional library, give project name and source code location. Build the project in IJ. Follow this step for all the projects you want to work on.
   7. Common Git Commands
      1. git branch: First of all, we need to create a branch in git repo before we start development. One way to do that is going to the git repo on iRepo and create branch by clicking “Create branch” icon on left side upper corner. Other way is to create through command line using following commands,

git branch <branch-name>

git push -u <remote> <branch-name>

Alternatively, you use tortoiseGit client to create a branch.

But I would suggest using first approach as creating a branch happens occasionally, say, per feature.

* + 1. **git pull**: This command will update the codebase from the repo server. Do this before committing your changes.

git pull <remote>

Alternatively, use tortoiseGit Pull action.

* + 1. **git add:** To add a file to remote server.

To add a single file

git add <file>

To add all

git add -A

Alternatively, use tortoiseGit “Add” action.

* + 1. **git commit:** To save your changes to the branch locally.

git commit -m "commit message"

Alternatively, use tortoiseGit “Git Commit”.

* + 1. **git push:** To push your changes to remote server. Remember “commit” will save locally. You need to “Push”, after every commit to reflect your changes in server.

git push <remote> <branch-name>

Alternatively, use tortoiseGit “Push”.

* 1. Code Rollout Process
     1. Create a branch for your feature/bug/enhancement in git iRepo
     2. Checkout code from the new branch
     3. Develop new code changes in the branch
     4. Add supportive unit tests along with source
     5. Do functional testing as much as possible
     6. Git pull
     7. Make sure local build passes
     8. Git commit
     9. Git push
     10. Go to respective project on iRepo
     11. Create a pull request by clicking “Create pull request” on left upper corner
     12. Give source branch as your branch and destination branch as develop
     13. Add code reviewers by selecting team members
     14. Once at least two reviewers approve the code, merge the code to develop
     15. Wait for continuous build to pass
     16. Create a pull request from develop to master branch and merge immediately
  2. Code walkthrough
     1. WmB2B
     2. Channel
  3. Local product setup for testing
     1. Install MySql
     2. Install on-premise TN latest version (only TN server, database configurator, designer (service development))
     3. Run cloud DB scripts
     4. Install cloud packages to IS
     5. This setup will help you to verify core server level functionalities easily
     6. You can install almost complete B2B cloud on docker environment, which will help you to verify UI and rest APIs on your laptop. For this, you need to install WSL, Docker on windows laptop. Follow the instructions given in “Docker installation” guide. Note, some instructions may be obsolete. Then follow the ReadMe under “b2b\_env\_setup\_107” folder to install the B2B Cloud on docker.