

Pushing Changes to the Upstream (Git Push)

The Git integration in IntelliJ IDEA supports uploading changes from the [current branch](#) to its [tracked branch](#) or to any other remote branch. If the upload ([push](#)) is rejected due to lack of synchronization between your local repository and the remote storage, you can either interactively choose the strategy to update the local branch or have IntelliJ IDEA update it silently.



Before uploading changes from your local Git repository to a remote repository make sure that:

- You have a Git hosting account.
- The target remote Git repository is accessible for your account.
- You have a pair of `ssh` keys to access the remote repository.

In this section:

- [Pushing changes](#)
- [Updating a local branch interactively if push is rejected](#)
- [Configuring automatic update if push is rejected](#)

To push changes

1. On the main menu, choose **VCS | Git | Push**. The [Git Push](#) dialog box opens.
2. The left-hand pane shows all the commits made in the current branch since the last push. To get the list up-to-date, click the **Refresh commit list** button .
3. Select the commit to push. The right-hand pane **Commit Details** shows the changes included in the selected commit. Use the [toolbar buttons](#) to examine the commit details.
4. Appoint the changes to be uploaded by selecting the relevant files in the tree or list. To have all the files selected, click the **Select All** toolbar button  or press `Ctrl+A`.
5. Specify the target remote branch to push the changes to.
 - To have the current branch uploaded to its tracked branch, clear the **Push current branch to alternative branch** check box.
 - To have the current branch uploaded to another existing remote branch, select the **Push current branch to alternative branch** check box and choose the required branch from the **Target Branch** drop-down list.

If your project uses several Git repositories, the list shows only the branches that are common for all repositories. For example, if your project uses `repo_one` and `repo_two`, where `repo_one` has two branches `origin` and `github` while `repo_two` has only `origin`, then only `origin` will be available from the drop-down list, so there is no way to push to `github` from IntelliJ IDEA.

- To publish a local branch, that is, to push it to a new branch, select the **Push current branch to alternative branch** check box and type the name of the new branch in the text box. IntelliJ IDEA will automatically set up tracking (`git push -u origin newbranch`).
6. Click the **Push** button, when ready. IntelliJ IDEA starts the upload.
7. If push is rejected due to lack of synchronization, update the local branch in one of the following ways:
 - [Choose the update strategy manually](#) in the [Push Rejected](#) dialog box.
 - Have the local [branch updated automatically](#).

To update a local branch interactively if push is rejected

When push is rejected due to lack of synchronization between the current local branch and its tracked remote branch, IntelliJ IDEA displays the [Push Rejected](#) dialog box, provided that the **Auto-update if push ... rejected** check box in the [Git](#) page of the **Settings** dialog box is cleared.

1. If your project uses several local Git repositories, specify the ones to be updated:
 - To have all the local repositories updated, no matter whether push has been rejected for all of them or not, select the **Update non rejected repositories as well** check box.
 - To have only affected repositories updated, clear the **Update non rejected repositories as well** check box.
2. In the **Push Rejected** dialog box, specify the way to update local repositories in the future:
 - To have this dialog box displayed upon every reject of push, clear the **Remember the update method choice and silently update in future** check box.
 - To have IntelliJ IDEA apply the update procedure invoked from this dialog box silently, select the **Remember the update method choice and silently update in future** check box.

After you leave the dialog box, the **Auto-update if push ... rejected** check box in the [Git](#) page of the **Settings** dialog box is selected and the applied update method becomes default. To change this setting, clear the **Auto-update if push ... rejected** check box.

3. Invoke the update procedure [rebase](#) or [merge](#) by clicking the buttons **Rebase** or **Merge** respectively.

To have IntelliJ IDEA update a local branch automatically if push is rejected, do one of the following

- [Open the project settings](#), click **Git** under the **Version Control** node, and in the in the [Git](#) page, that opens, select the **Auto-update if push ... rejected** check box.

If you have not invoked any update operation from the [Push Rejected](#) dialog box before and you are enabling the check box initially, IntelliJ IDEA will synchronize the local branch silently by means of the [merge](#) operation.

If you have previously invoked an update operation [rebase](#) or [merge](#) from the **Push Rejected** dialog box and selected the **Remember the update method choice...** check box, IntelliJ IDEA will apply your last choice.

Accordingly, to change the "remembered" setting, clear the check box, access the **Push Rejected** dialog box, select the **Auto-update if push ... rejected** check box, whereupon invoke another update strategy.

- During an [interactive update](#) in the **Push Rejected** dialog box, select the **Remember the update method choice and silently update in future** check box, whereupon invoke the required update method [rebase](#) or [merge](#) by pressing the corresponding button. IntelliJ IDEA saves your choice and will apply it to update the conflicting local branch silently until you [change the remembered setting](#).

See Also

Concepts:

- [Version Control with IntelliJ IDEA](#)

Procedures:

- [Committing Changes to a Local Git Repository](#)
- [Rebasing Branches](#)
- [Merging, Deleting, and Comparing Branches](#)
- [Version Control with IntelliJ IDEA](#)

Reference:

- [Version Control Reference](#)
- [Git Push Dialog](#)
- [Push Rejected Dialog \(Git\)](#)

External Links:

- <http://schacon.github.com/git/git-push.html>
- <http://gitref.org/remotes/#push>
- <http://schacon.github.com/git/git-merge.html>
- <http://gitref.org/branching/#merge>
- <http://schacon.github.com/git/git-rebase.html>
- <http://schacon.github.com/git/git-clean.html>

Web Resources:

- [Developer Community](#)