

Bitbucket Cheat Sheet

A quick reference guide to Bitbucket, covering essential Git commands and Bitbucket-specific features for effective version control and collaboration.



Basic Git Commands

Configuration

git config global user.name "Your Name"	Sets the name you want attached to your commit transactions.
git config global user.email "your_email@exam ple.com"	Sets the email you want attached to your commit transactions.
<pre>git config list</pre>	Lists all git configurations.

Starting a New Repository

git init	Initializes a new Git repository in the current directory.
<pre>git clone <repository_u rl=""></repository_u></pre>	Clones an existing repository from a URL (e.g., Bitbucket).

Basic Workflow

git add <file></file>	Adds a file to the staging area.
git add .	Adds all modified files to the staging area.
git commit -m "Commit message"	Commits staged changes with a descriptive message.
git push origin 	Pushes local commits to a remote repository (e.g., Bitbucket).
git pull origin dranch_name>	Pulls changes from a remote repository to your local branch.
git status	Shows the status of the working directory and staging area.

Branching and Merging

Branch Management

git branch	Lists all local branches. The current branch is highlighted.
git branch <new_branch_nam e></new_branch_nam 	Creates a new branch.
git checkout <branch_name></branch_name>	Switches to the specified branch.
git checkout - b_ <new_branch_nam e></new_branch_nam 	Creates a new branch and switches to it.
git branch -d <branch_name></branch_name>	Deletes a branch (if it's already merged).
git branch -D dranch_name>	Force deletes a branch (even if it's not merged).

Merging Branches

git merge 	Merges the specified branch into the current branch.
git mergetool	Launches a merge tool to resolve conflicts during a merge.
git commit	After resolving conflicts, commit the merged changes.

Remote Branches

git push origin delete chranch_name	Deletes a branch on the remote repository.
git fetch	Fetches the latest changes from the remote repository without merging.
git remote -	Lists all remote connections.
git branch -	Lists remote branches

Bitbucket Specific Features

Pull Requests

Pull requests are a core feature for code review and collaboration in Bitbucket.

- 1. Create a new branch for your changes.
- 2. Commit your changes to the branch.
- 3. Push the branch to Bitbucket.
- 4. Create a pull request from your branch to the target branch (e.g., $\mbox{\tt main}$).
- 5. Assign reviewers to the pull request.
- 6. Address feedback and make further commits if necessary.
- 7. Once approved, merge the pull request.

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Bitbucket Pipelines

Bitbucket Pipelines allows you to automate your build, test, and deployment workflows directly within Bitbucket.

- Configuration is done via a bitbucketpipelines.yml file in the repository root.
- Define steps, services, and variables in the YAML file.
- Pipelines are triggered automatically on commits, pull requests, or manually.

Example bitbucket-pipelines.yml :

Bitbucket Cloud

Private Repositories	Bitbucket offers free private repositories for small teams.
Integrations	Integrates with Jira, Trello, and other Atlassian products.
REST API	Provides a REST API for automating tasks and integrating with other systems.

Advanced Git Techniques

Stashing

git stash	Temporarily saves changes that you don't want to commit immediately.
git stash	Applies the most recent stashed changes and removes it from the stash.
git stash list	Lists all stashed changes.
git stash apply stash@{n}	Applies a specific stashed change without removing it from the stash.
git stash drop stash@{n}	Removes a specific stashed change.

Rebasing

Rebasing is an alternative to merging that integrates changes from one branch into another by rewriting the commit history.

git rebase

rebase

commits from the current branch onto the specified branch. Use with caution, especially on shared branches, as it modifies the commit history.

Ignoring Files

gnore repository root to specify intentionally untracked files that Git should ignore.

Example:

*.log

/temp/
config.ini

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