Git Commands Cheat Sheet - DevOps Focus

Setup & Config

git config --global user.name "Max" git config --global user.email "max@example.com"

Repository Basics

git init # Initialize a new repo git clone URL # Clone remote repo

Staging & Committing

git status # Show changed files git add file # Add specific file git add . # Add all changes git commit -m "Message" # Commit changes

Branches

git branch # List branches git branch new-feature # Create branch git checkout new-feature # Switch branch git checkout -b hotfix # Create & switch git merge new-feature # Merge into current branch

Remote Repositories

git remote -v # List remotes git push origin main # Push branch git pull origin main # Pull latest changes git fetch origin # Fetch but don't merge

Undoing Changes

git reset file # Unstage a file git checkout -- file # Discard changes git revert commit_id # Undo commit safely git reset --hard commit_id # Hard reset (careful!)

Logs & History

git log # Commit history git log --oneline # Compact view git diff # Show changes git blame file # Who changed each line

Tagging

git tag v1.0 # Create tag git push origin v1.0 # Push tag to remote

Stash (Temporary Save)

git stash # Save uncommitted changes git stash apply # Reapply stashed changes

Collaboration & Rebase

git pull --rebase origin main # Rebase with main git rebase -i HEAD~3 # Interactive rebase (clean history)