Git Commands

SETUP AND CONFIGURATION

1. git: git is a distributed version control system for code management.

Options: -v, -h, -P, -p Usage: git add [file names] git clone [git repository URL]

2. config: Helps in setting up the repository and global options.

Options: -replace-all, -get, -add

Usage: git config –global user.name [username] git config –list

3. help: Provides help information about Git.

Options: -a, -c, -g Usage: git help -all git status -help

GETTING AND CREATING PROJECTS

1. init: Initialize an empty git repository or reinitialize an existing one.

Options: -q, -bare Usage: git init

2. clone: Get the remote repository into the directory

Options: -1, -s

Usage: git clone [git repository URL]

BASIC SNAPSHOTTING

1. add: To stage changes.

Options: -f, -v

Usage: git add [file name], . [all changes]

2. status: Know the changes between commit, commits, working tree, etc.

Options: -s, -v, -long, -b

Usage: git status

3. diff: Display differences between commits, the working tree, or branches.

Options: -color, -[commit1] [commit2], -cached Usage: git diff, git diff [commit1] [commit2], git diff color

4. commit: Record changes to the repository.

Options: -m, -a, -v

Usage: git commit -m "[commit message]", git commit -am "[commit message]"

5. reset: Reset current HEAD to the specified state.

Options: -soft, -mixed, -hard

Usage: git reset -soft [commit], git reset -hard HEAD^

BRANCHING AND MERGING

- 1. branch
- 2. checkout
- 3. merge
- 4. log
- 5. stash
- 6. worktree

SHARING AND UPDATING

- 1. fetch
- 2. pull
- 3. push
- 4. remote

INSPECTION AND COMPARISON

show: shows one or more things [commits, tags. etc]
Options: -format=[oneline — short — medium — full, -pretty]

Usage: git show -oneline

2. log: provide commit info Options: -source, -full-diff

Usage: git log

PATCHING

- 1. apply
- 2. cherry-pick
- 3. rebase
- 4. revert

DEBUGGING

1. grep: Find matching pattern

Options: -a, -i

Usage: git grep -i [text]

GUIDES

1. gitignore: Intentionally untrack some files

Usage: *.exe [.gitignore]

EMAIL

1. request-pull: Get pending changes summary.

Options: -p

Usage: git request-pull [version number] [URL] [branch

name]

EXTERNAL SYSTEMS

1. svn: Operate between Subversion repository and git.

Options: -s, -no-metadata, -parent

Usage: git svn rebase

ADMINISTRATION

1. clean

2. filter-branch

3. archive

4. bundle

SERVER ADMIN

1. daemon: A git repository server.

Options: -export-all, -base-path

Usage: git daemon -export-all -base-path=.

2. update-server-info: To help dumb server update auxiliary

info file. Options: -f

Usage: git update-server-info

PLUMBING COMMANDS

1. commit-tree

2. show-ref

3. update-index

4. revert