# **Git Configuration - Complete Notes**

# 1. Git Configuration Overview

'git config` is used to set or retrieve Git configuration values. These settings control Git's behavior and can be applied at different levels.

Level	Scope	File Location	
system	System-wide (all users)	/etc/gitconfig (Linux) C:\ProgramData\Git\config (Windows)	1
global	Current user (all repos)	~/.gitconfig (Linux) C:\Users\ <username>\.gitconfig (Window</username>	ws
local	Per repository only	.git/config (inside each project)	

# 2. Setting User Information

#### Examples:

\$ git config --system user.name "Ladram Verma"

\$ git config user.name "Nubeera Imran"

\$ git config --global user.name "Huma Dil de chuke sanam 2103"

## Priority Order:

- 1. --local
- 2. --global
- 3. --system

## Syntax:

\$ git config [<level>] <key> <value>

- key = what to configure (e.g., user.name)
- value = value to assign (e.g., your name)

# 3. Setting Default Editor

\$ git config core.editor "nano"

- Opens merge commit messages in nano.

\$ git config core.editor "code --wait"

- Opens in VS Code and waits until the editor is closed.

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### 4. Aliases for Commands

- \$ git config --global alias.co checkout
- \$ git config --global alias.br branch
- \$ git config --global alias.st status

#### Usage:

- `git co` = `git checkout`
- `git br` = `git branch`
- `git st` = `git status`

# 5. Credential Management

Git requires authentication (username/password or token) for remote operations.

Temporarily Store in Memory:

- \$ git config --global credential.helper cache
- Stores in memory for 15 mins

Store on Disk (Not recommended):

- \$ git config --global credential.helper store
- Stored unencrypted in ~/.git-credentials

### Example:

https://<username>:<token>@github.com

Recommended (Windows/Mac only):

- \$ git config --global credential.helper manager-core
- Uses Windows Credential Manager or macOS Keychain