

GitHub SSH Setup & Push Guide (Kali Linux)

Step 1: Install Git

Check if Git is installed:

```
git --version
```

If not installed, run:

```
sudo apt update
```

```
sudo apt install git -y
```

Step 2: Configure Git (one-time)

```
git config --global user.name "Your Name"
```

```
git config --global user.email "your_email@example.com"
```

Step 3: Generate SSH Key (one-time)

```
ssh-keygen -t ed25519 -C "your_email@example.com"
```

- Press Enter for file location

- Press Enter for passphrase (or set one)

Step 4: Add Key to SSH Agent

```
eval "$(ssh-agent -s)"
```

```
ssh-add ~/.ssh/id_ed25519
```

Step 5: Add SSH Key to GitHub

Show your key:

```
cat ~/.ssh/id_ed25519.pub
```

Copy it → GitHub → Settings → SSH and GPG keys → New SSH key → Paste → Save

Step 6: Test SSH Connection

```
ssh -T git@github.com
```

- Type 'yes' when asked

- Success message: 'Hi username! You've successfully authenticated'

Step 7: Create Empty Repo on GitHub

On GitHub → New Repository → Name it → Keep empty (no README) → Copy SSH URL
(git@github.com:username/repo.git)

Step 8: Push Local Project

Go to project folder:

```
cd /path/to/project
```

If new project (not a repo yet):

```
git init
```

```
git add .
```

```
git commit -m "Initial commit"
```

```
git branch -M main
```

```
git remote add origin git@github.com:USERNAME/REPO_NAME.git
```

```
git push -u origin main
```

If already a repo:

```
git branch -M main
```

```
git remote add origin git@github.com:USERNAME/REPO_NAME.git
```

```
git push -u origin main
```

Step 9: Daily Workflow

After making changes:

```
git add .
```

```
git commit -m "your message"
```

```
git push
```