

Hands-on: Create local repo, commit, push/pull, clone

Prerequisites: [🔗](#)

- Git installed locally
 - Access to your company's Bitbucket Enterprise Server URL (e.g., `https://bitbucket.yourcompany.com`)
 - Personal Access Token (PAT) generated from Bitbucket Server user settings
 - Basic command line knowledge
-

Step 1: Create a Local Git Repository [🔗](#)

Open your terminal and run:

```
1 mkdir my-project
2 cd my-project
3 git init
4
```

This initializes a new Git repository locally.

Step 2: Add Files and Commit Locally [🔗](#)

Create a file and commit your changes:

```
1 echo "# My Project" > README.md
2 git add README.md
3 git commit -m "Initial commit"
4
```

Step 3: Create Repository on Bitbucket Enterprise Server [🔗](#)

Follow these steps in your browser to create a remote repository:

Navigation in Bitbucket Enterprise Server: [🔗](#)

1. Login Page

Open your Bitbucket Server URL:

`https://bitbucket.yourcompany.com`

Log in using your credentials or SSO.

2. Dashboard

View your projects and repositories overview.

3. Create Repository

- Click **Projects** on the top menu.
- Select an existing **Project** or create a new one.
- Inside the project page, click **Create repository**.
- Enter repository name, description, and set permissions.
- Click **Create**.

4. Repository Overview

After creation, you'll land on the repo's page showing:

- **Source** tab (browse code)
- **Branches, Commits, Pull Requests**
- **Settings**

5. Clone Repository URL

- Click the **Clone** button.
- Copy the **HTTPS** URL, e.g., `https://bitbucket.yourcompany.com/scm/projectkey/my-project.git`.

6. Personal Access Token Setup

- Click your avatar (top-right), select **Manage account** or **Personal settings**.
- Navigate to **Personal Access Tokens**.
- Generate a new token with appropriate scopes for Git operations.

Step 4: Link Local Repo to Bitbucket Remote [🔗](#)

In your terminal, add the remote URL copied in Step 3:

```
1 git remote add origin https://bitbucket.yourcompany.com/scm/projectkey/my-project.git
2
```

Step 5: Push Local Commits to Bitbucket Using PAT Authentication [🔗](#)

Push your commits to the remote repo:

```
1 git push -u origin master
2
```

- When prompted for username, enter your Bitbucket username.
- When prompted for password, enter your **Personal Access Token (PAT)** (NOT your password).

Step 6: Pull Updates from Bitbucket Using PAT [🔗](#)

To fetch and merge remote changes:

```
1 git pull origin master
2
```

Authenticate with username and **PAT** when prompted.

Step 7: Clone Repository Using PAT [🔗](#)

To clone an existing repository:

```
1 git clone https://bitbucket.yourcompany.com/scm/projectkey/my-project.git
2 cd my-project
3
```

Provide your username and **PAT** when prompted.

Optional: Store Credentials to Avoid Repeated Prompts [🔗](#)

Cache credentials temporarily (default 15 min): [🔗](#)

```
1 git config --global credential.helper cache
2
```

Store credentials permanently (less secure): [🔗](#)

```
1 git config --global credential.helper store
```