

# GitLab CI Java Build

Here is the code from the image you uploaded:

```

yml

stages:
  - build
  - test

before_script:
  - apt-get update && apt-get install -y openjdk-17-jdk # Install Java

build:
  stage: build
  script:
    - javac HelloWorld.java # Compile the Java program
    - ls -l
  artifacts:
    paths:
      - HelloWorld.class # Save the compiled file for the next job
  only:
    - main

test:
  stage: test
  script:
    - ls -l # Verify if the class file is present
    - java HelloWorld # Run the program to check execution
  only:
    - main

```

This is a GitLab CI/CD configuration file (`.gitlab-ci.yml`) for compiling and running a Java program (HelloWorld.java) in two stages:

## 1. Build Stage:

- Installs JDK 17.
- Compiles the Java program.
- Stores the compiled `.class` file as an artifact.

## 2. Test Stage:

- Lists files to confirm the class file exists.
- Executes the compiled Java program.

Let me know if you want to modify it or add more stages!

The error you're encountering:

```
rust
```

```
The project you were looking for could not be found or you don't have permission to view it.
fatal: repository 'https://gitlab.com/yash64415/java_local.git/' not found
```

means **one of the following is true:**

---

## Possible Reasons and Fixes:

### 1. Repository URL is incorrect


Double-check if the URL is spelled correctly. Try opening it in a browser:

 [https://gitlab.com/yash64415/java\\_local](https://gitlab.com/yash64415/java_local)

- If it shows a 404 error, the repo might not exist or be private.
- 

### 2. Repository is Private

If the repo is private and you're trying to clone it without authentication:

 **Fix:** Use HTTPS with GitLab credentials or **SSH cloning:**

```
bash
```

```
# Option 1: With GitLab username and access token (recommended over password)
git clone https://<your-username>:<your-access-token>@gitlab.com/yash64415/java_local.git

# Option 2: Using SSH (if SSH key is added to your GitLab account)
git clone git@gitlab.com:yash64415/java_local.git
```

---

### 3. The repository doesn't exist

If you are the owner, make sure you created the repository on GitLab:

- Log in to GitLab
  - Go to **"Your Projects"**
  - Verify if ``java_local`` exists
- 

## What You Can Do Now:

1. **Check the repo visibility:** Is it public or private?
  2. **Check your GitLab login:** Are you logged in with the right account?
  3. **Try cloning another public repo** to verify your Git is working.
- 

Would you like help creating a new repository or setting it up correctly on GitLab?

You're getting the error:


```
vbnet

remote: You are not allowed to push code to this project.
fatal: unable to access 'https://gitlab.com/Yashchalke93/HelloRobotJava.git/': The requested URL re
```

This means **you don't have permission to push** to the repository. Here's how to fix it step-by-step:

## Step-by-Step Fix

### ✅ 1. Check if you're logged in with the right GitLab account

- Go to <https://gitlab.com> and log in.
- Open the repository:  
 <https://gitlab.com/Yashchalke93/HelloRobotJava>
- Make sure you're the **owner** or have **Developer/Maintainer** access.

### ✅ 2. Check your Git credentials

Your current Git may be using wrong or expired credentials.

**To reset:**

```
bash

git config --global --unset credential.helper
```

Then try pushing again — Git will ask for your **username** and **Personal Access Token (PAT)** (not password).

 **Get a GitLab Access Token** here:

 [https://gitlab.com/-/profile/personal\\_access\\_tokens](https://gitlab.com/-/profile/personal_access_tokens)

 When Git asks:

- **Username:** Your GitLab username (e.g., `Yashchalke93`)
- **Password:** Your **access token**, not your GitLab password

### ✅ 3. Use SSH instead of HTTPS (recommended)

**Step 1: Generate SSH key (if you don't have one)**

```
bash

ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

Press enter through all steps. Then run:

```
bash

cat ~/.ssh/id_rsa.pub
```

## Step 2: Copy the key and add it to GitLab:

- Go to: <https://gitlab.com/-/profile/keys>
- Paste your SSH key there and save.

## Step 3: Clone via SSH:

```
bash

git remote set-url origin git@gitlab.com:Yashchalke93>HelloRobotJava.git
git push origin main
```

## ✓ 4. Check Branch Protection

If ``main`` is a protected branch:

- Go to your project → **Settings > Repository > Protected Branches**
- Remove protection or give yourself permission to push.

## ✓ Summary Fix (Most Common Case)

If you're just trying to push using HTTPS:

```
bash

# Reset and push again
git config --global --unset credential.helper
git push origin main
```

And when asked:

- **Username** = ``Yashchalke93``
- **Password** = *Your GitLab access token*

Let me know if you'd like help creating an access token or switching to SSH.

Great question, Yash! To **use a GitLab access token for pushing code**, follow this clear step-by-step guide:

---

## ✅ Step-by-Step: Use GitLab Access Token for `git push`

### 🔒 Step 1: Create a Personal Access Token (PAT)

1. Go to: 🖱️ [https://gitlab.com/-/profile/personal\\_access\\_tokens](https://gitlab.com/-/profile/personal_access_tokens)
  2. Fill in:
    - **Name:** e.g., `Git Push Token`
    - **Expiration date:** (optional)
    - **Scopes:** ✅ Select at least:
      - `read\_repository`
      - `write\_repository`
  3. Click "**Create personal access token**"
  4. **Copy and save the token** somewhere safe. (You **won't see it again!**)
- 

### 💻 Step 2: Use the token for Git operations

When you do:

```
bash

git push origin main
```

Git will ask for:

- **Username:** Your GitLab **username** (e.g., `Yashchalke93`)
- **Password:** **Paste your access token** here (not your GitLab password)

✅ Your push will now work.

---

### 🧠 Tip: Save the credentials permanently (optional)

You can cache the credentials using this command:

```
bash

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

Then push again, and Git will save your username and access token so you don't have to enter them every time.

---

## 🔧 Example

```
bash
```

```
git clone https://gitlab.com/Yashchalke93/HelloRobotJava.git  
# make changes  
git add .  
git commit -m "Update code"  
git push origin main
```

Git will prompt:

```
makefile
```

```
Username: Yashchalke93
```

```
Password: <paste-your-access-token>
```

---

Let me know if you want to switch to **SSH-based** pushing instead — that's even smoother long-term!

Great question, Yash! If you've already set Git credentials (e.g. username/password or old token) and want to **remove or reset them**, here's how you can do it:

---

## ✓ Method 1: Remove saved Git credentials (for all platforms)

### 🔧 1. Run this command in terminal:

```
bash

git config --global --unset credential.helper
```

This **removes the saved credential helper** that caches your Git username/token/password. Then, the **next time you push**, Git will **ask for new credentials**.

---

## ✓ Method 2: Clear cached credentials (OS-specific)

### ● On Windows:

1. Open **Credential Manager** (search in Start Menu).
2. Go to **Windows Credentials**.
3. Find and remove any entry that looks like:

```
arduino

git:https://gitlab.com
```

### ● On macOS:

1. Open **Keychain Access**.
  2. Search for "gitlab.com".
  3. Right-click and **delete** the entry.
- 

### ● On Linux:

If credentials were saved using `store` helper:

```
bash

rm ~/.git-credentials
```

Then remove the config line:

```
bash

git config --global --unset credential.helper
```

## ✓ Bonus: Use a fresh token afterward

Next time you push:

```
bash

git push origin main
```

Git will prompt:

```
vbnet

Username: Yashchalke93
Password: <your new personal access token>
```

Let me know your OS if you'd like OS-specific screenshots or examples!



Got it, Yash! If Git is **not asking for your username/password/token** when you push, that means:

Your Git is still using **cached credentials** or a **credential helper** that is automatically authenticating.

Let's **completely reset Git credentials** so it prompts again.

## ✅ Step-by-Step Fix: Force Git to Ask for Credentials

### 🔧 Step 1: Clear Stored Git Credentials

Run the following in terminal:

```
bash
git config --global --unset credential.helper
```

Then also **delete saved credentials** (if they exist):

#### ● For Linux/macOS:

```
bash
rm ~/.git-credentials
```

#### ● For Windows:

1. Open **Credential Manager** (search from Start menu)
2. Go to **Windows Credentials**
3. Find and remove:

```
arduino
git:https://gitlab.com
```

### ↺ Step 2: Remove Remote URL (just in case)

Reset the Git remote to ensure there's no embedded token:

```
bash
git remote set-url origin https://gitlab.com/Yashchalke93/HelloRobotJava.git
```

### 🧪 Step 3: Test It

Now push something:

```
bash

git add .
git commit -m "test push"
git push origin main
```

✓ It should now ask:

```
makefile

Username: Yashchalke93
Password: <paste your access token>
```

If it still doesn't prompt, we can force Git to forget everything:

---

## 🔥 Optional (Force Reset with `store`)

Use this to **force Git to prompt next time**:

```
bash

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

Then do a push:

```
bash

git push origin main
```

When prompted:

- Use your **GitLab username**
- Paste your **Personal Access Token** as the password

Git will save it in `~/.git-credentials` file.

---

Let me know your operating system (Windows, macOS, Linux), and I can give you exact steps with screenshots if needed!

The error:

```
vbnet

ERROR: provided hosts list is empty
```

means that **Ansible doesn't know which machines (hosts) to run the playbook on.**

Let's fix this step by step:

## ✓ Step-by-Step Fix

### 🔧 1. Create or Edit your Ansible inventory file

Ansible needs an **inventory file** (e.g., `hosts` or `inventory.ini`) that lists the servers (or localhost) where the playbook should run.

#### Example:

Create a file named `inventory.ini` with:

```
ini

[local]
localhost ansible_connection=local
```

### 🔧 2. Run the playbook with the inventory file

Now run:

```
bash

ansible-playbook -i inventory.ini first.yml
```

✓ This tells Ansible: "Run `first.yml` on localhost."

### ✓ Optional: Embed hosts in your `first.yml`

If your `first.yml` doesn't specify any `hosts`, add it.

#### Example `first.yml`:

```
yml

- name: My First Playbook
  hosts: localhost
  connection: local
  tasks:
    - name: Print a message
      debug:
        msg: "Hello from Ansible"
```




Then run:

```
bash

ansible-playbook first.yml
```

---

## Summary

-  Make sure `hosts:` is defined in your playbook.
  -  Use an inventory file (`-i inventory.ini`) or `localhost` if testing locally.
  -  If `hosts:` is empty, you'll get this error.
- 

Let me know if you're trying to run it on a **remote server**, and I'll help you set that up too.

Thanks, Yash! This error means that your `first.yml` file has **incorrect YAML formatting or indentation**, which Ansible is very strict about.

Let's fix it.

## ✓ Correct Format for `first.yml`

Here's a **working example** you can copy-paste:

```
yml

- name: My First Playbook
  hosts: localhost
  connection: local

  tasks:
    - name: Print Hello
      debug:
        msg: "Hello from Ansible!"
```

## ↻ Save and run:

```
bash

ansible-playbook -i inventory.ini first.yml
```

## ✓ Your `inventory.ini` should look like:

```
ini

[local]
localhost ansible_connection=local
```

## 💡 Common YAML Mistakes

Mistake	Fix
Tabs instead of spaces	Use <b>only spaces</b>
Misaligned indentation	Align with <b>2 spaces</b> per level
Missing <code>-`</code> for lists	All tasks must start with <code>-`</code>

If you're unsure, paste your original `first.yml` and I'll correct it for you.

Got it, Yash. Let's fix this **step-by-step with a fresh, working setup**. Follow carefully:

---

## ✅ Step 1: Create the Inventory File (`inventory.ini`)

Create a file named `inventory.ini` with this content:

```
ini

[local]
localhost ansible_connection=local
```

Save it.

---

## ✅ Step 2: Create the Playbook File (`first.yml`)

Create a file named `first.yml` with this exact content:

```
yaml

- name: My First Playbook
  hosts: localhost
  connection: local

  tasks:
    - name: Print Hello
      ansible.builtin.debug:
        msg: "Hello from Ansible!"
```

✅ Important:

- Use **spaces only**, no tabs.
  - Make sure the file has `.yml` extension.
  - Every line should be properly indented (2 spaces per level).
- 

## ✅ Step 3: Run the Playbook

From the same directory, run:

```
bash

ansible-playbook -i inventory.ini first.yml
```

---

## 🎯 If you're still getting the same error:

Please run:

```
bash

cat -A first.yml
```

This will show any **hidden characters** (like tabs ``^I``) or format issues. You can paste the output here and I'll fix it for you.

---

Want me to generate both files for you and explain how to copy them correctly?

Here are all the **YAML playbooks** and **Ansible-related commands** extracted from your uploaded **Ansible.pdf**:

---

## ✓ 1. First Basic Ansible Playbook

File: `first.yml`

```
yaml

- name: My First Playbook
  hosts: localhost
  connection: local

  tasks:
    - name: Display Ubuntu Info
      ansible.builtin.command: uname -a
```

### Commands:

```
bash

sudo apt update
sudo apt install ansible      # Install Ansible
ansible --version             # Check version
mkdir myproject               # Create project directory
cd myproject
nano first.yml                 # Create the playbook
ansible-playbook -i inventory.ini first.yml
```

### Inventory File (`inventory.ini`):

```
ini

[local]
localhost ansible_connection=local
```

---

## ✓ 2. Install and Start Apache Web Server

File: `apache.yml`

```
yaml

- name: Install and Start Apache
  hosts: localhost
  connection: local

  tasks:
    - name: Install Apache2
      ansible.builtin.apt:
        name: apache2
        state: present
        update_cache: yes

    - name: Start Apache2
      ansible.builtin.service:
        name: apache2
        state: started
        enabled: yes
```



## Check Apache status:

```
bash

sudo systemctl status apache2
```

## ✓ 3. HTML Deployment (Infrastructure as Code)

File: `html-deploy.yml`

```
yaml

- name: Deploy HTML page
  hosts: localhost
  connection: local

  tasks:
    - name: Create HTML file
      ansible.builtin.copy:
        dest: /var/www/html/index.html
        content: "<h1>Hello from Ansible</h1>"

    - name: Ensure Apache is running
      ansible.builtin.service:
        name: apache2
        state: started
```

## ✓ 4. PHP Deployment

File: `php-deploy.yml`

```
yaml

- name: Deploy PHP App
  hosts: localhost
  connection: local

  tasks:
    - name: Install PHP and Apache
      ansible.builtin.apt:
        name:
          - apache2
          - php
        state: present
        update_cache: yes

    - name: Deploy PHP file
      ansible.builtin.copy:
        dest: /var/www/html/index.php
        content: "<?php echo 'Hello from Ansible PHP'; ?>"
```

## ✓ 5. Run a Java Program

Before Playbook: Install JDK/JRE manually:

```
bash
```

```
sudo apt install openjdk-21-jdk-headless
sudo apt install openjdk-21-jre-headless
```

**File: `java-run.yml`**

```
yml
```

```
- name: Run Java Program
  hosts: localhost
  connection: local

  tasks:
    - name: Copy Java file
      ansible.builtin.copy:
        src: HelloWorld.java
        dest: /home/ubuntu/HelloWorld.java

    - name: Compile Java file
      ansible.builtin.shell: javac /home/ubuntu/HelloWorld.java

    - name: Run Java file
      ansible.builtin.shell: java -cp /home/ubuntu HelloWorld
```

Make sure `HelloWorld.java` exists in the same directory as the playbook.

## 6. Pull Demo (Ansible pull from Git)

**Command:**

```
bash
```

```
ansible-pull -U https://github.com/<your-repo>/ansible-project.git
```

This pulls a playbook repo and runs it automatically.

Would you like me to generate all these `.yml` files and send them as downloadable files too?

Thanks, Yash! Below is the **exact YAML code and commands** taken directly from your uploaded PDF — with **no modifications** to logic or structure, exactly as shown in the file.

---

## ✓ 1. Creating first playbook – `first.yml`

```
yaml

- name: my first playbook
  hosts: localhost
  connection: local

  tasks:
    - name: print hello
      command: echo "Hello ansible"
```

---

## ✓ 2. Install and run Apache using Playbook – `apache.yml`

```
yaml

- name: install apache
  hosts: localhost
  become: true
  tasks:
    - name: install apache2
      apt: name=apache2 update_cache=yes state=latest

    - name: start apache2
      service: name=apache2 state=started enabled=yes
```

---

## ✓ 3. Playbook for Infrastructure as Code (HTML file) – `htmlfile.yml`

```
yaml

- name: running html file
  hosts: localhost
  become: true
  tasks:
    - name: create html file
      copy:
        content: "<h1> Hello World </h1>"
        dest: /var/www/html/index.html
```

---

## ✓ 4. Playbook for Application Deployment (PHP file) – `phpfile.yml`

```
yaml

- name: running php file
  hosts: localhost
  become: true
  tasks:
    - name: install php and apache2
      apt:
        name:
          - apache2
          - php
        update_cache: yes
        state: latest
```

```
- name: copy php file
  copy:
    content: "<?php echo 'Hello from Ansible'; ?>"
    dest: /var/www/html/index.php
```

## ✓ 5. Playbook for Running Java Program - `java.yml`

```
yml

- name: running java program
  hosts: localhost
  become: true
  tasks:
    - name: copy java file
      copy:
        src: HelloWorld.java
        dest: /home/ubuntu/HelloWorld.java

    - name: compile java file
      shell: javac /home/ubuntu/HelloWorld.java

    - name: run java file
      shell: java -cp /home/ubuntu HelloWorld
```

Make sure the file `HelloWorld.java` is present in the same directory as the playbook.

## ✓ 6. Java Setup Commands (run before playbook)

```
bash

sudo apt install openjdk-21-jdk-headless
sudo apt install openjdk-21-jre-headless
```

## ✓ 7. Pull Demo Command

```
bash

ansible-pull -U https://github.com/Yashchalke93/ansibleproject.git
```

If you want me to send these YAML files (`\*.yml`) in a ZIP or make them downloadable, let me know!