

Building CI-CD Pipeline Tool

Create a complete CI-CD pipeline using bash, python and crontabs. The list of tasks is specified below:

Task 1: Set Up a Simple HTML Project

Create a simple HTML project and push it to a GitHub repository.

Task 2: Set Up an AWS EC2/Local Linux Instance with Nginx

Task 3: Write a Python Script to Check for New Commits

Create a Python script to check for new commits using the GitHub API.

Task 4: Write a Bash Script to Deploy the Code

Create a bash script to clone the latest code and restart Nginx.

Task 5: Set Up a Cron Job to Run the Python Script

Create a cron job to run the Python script at regular intervals.

Task 6: Test the Setup

Make a new commit to the GitHub repository and check that the changes are automatically deployed.

Submission Instructions:

To submit your programs, please follow these guidelines:

- Ensure that your programs are fully completed.
- Push your code to a GitHub repository.
- Share the repository link by including it in a text, Word, or PDF file format.

Submit the file/text containing the repository link via VLearn.