



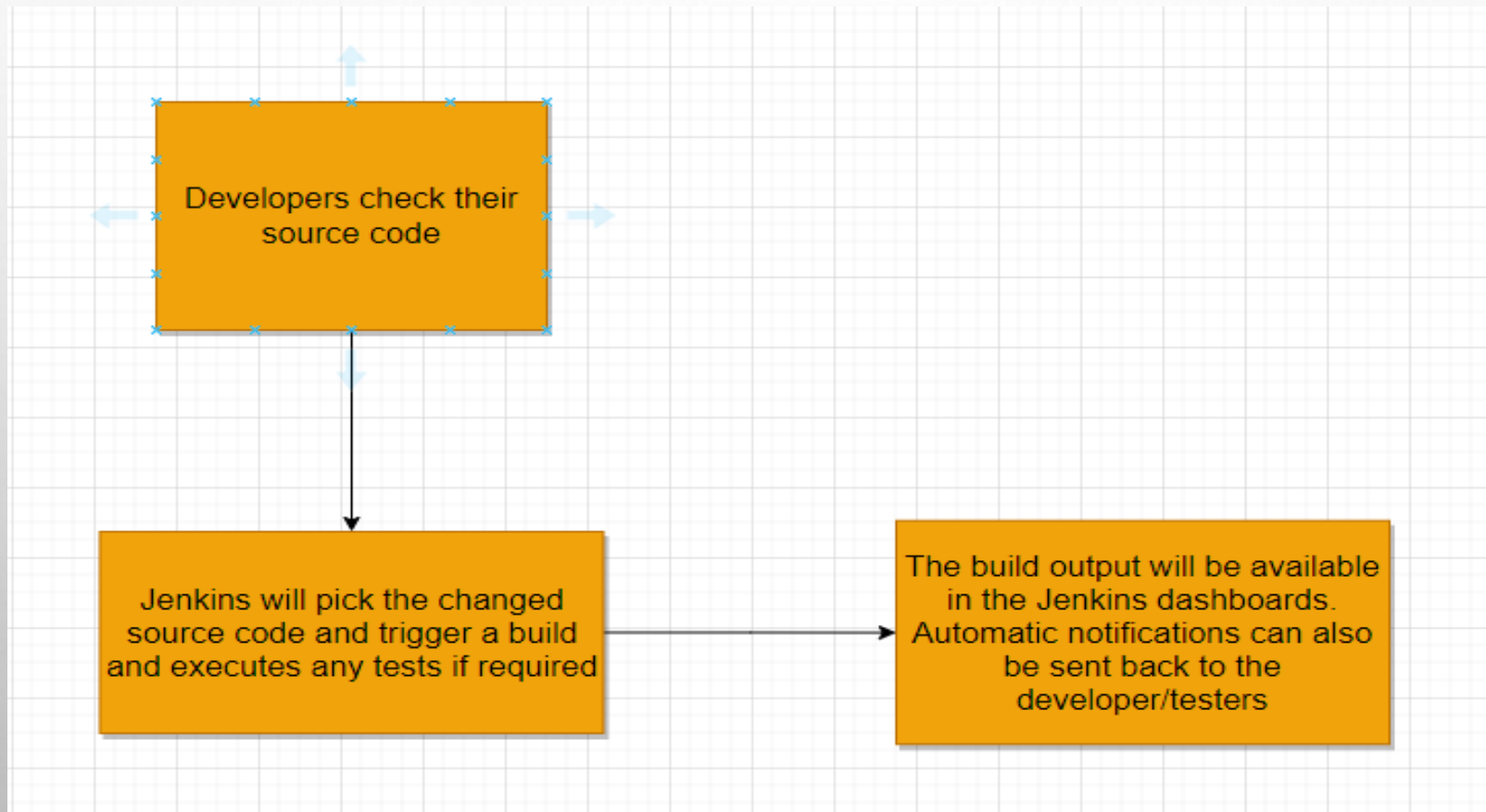
JENKINS DEMO

PHANIRAJ

WHAT IS JENKINS?

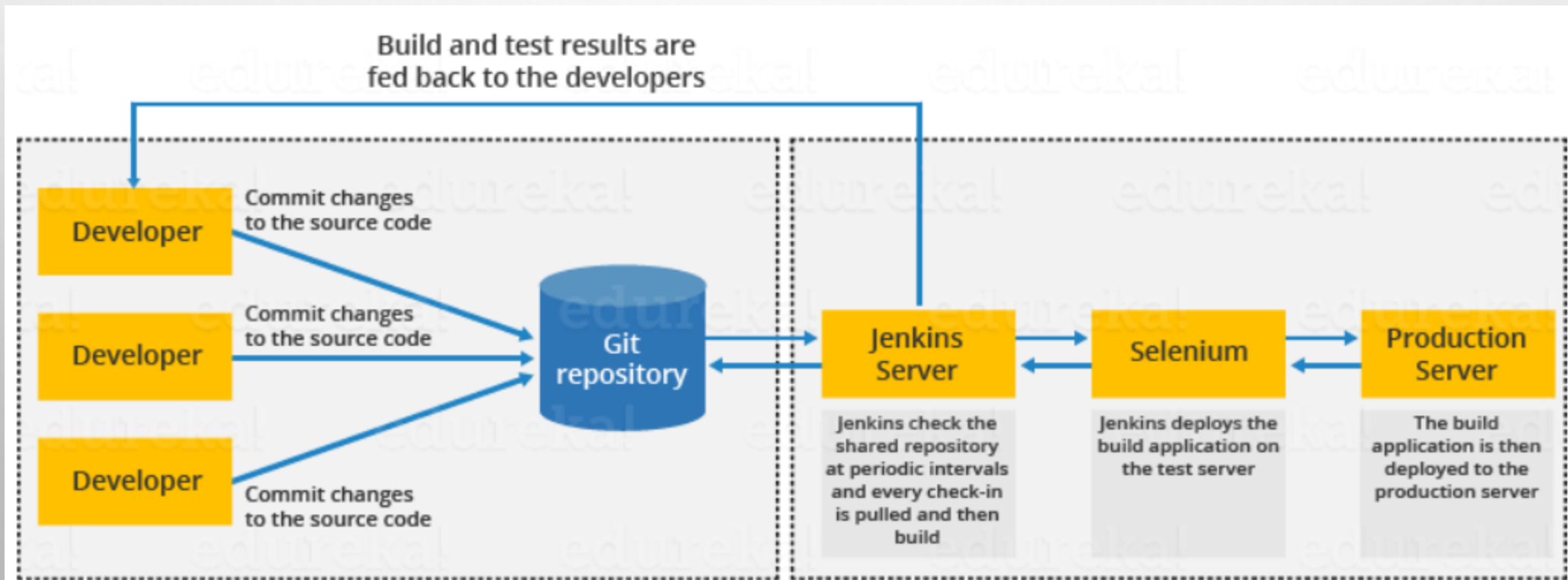
- THE MOST POPULAR, OPEN SOURCE CONTINUOUS INTEGRATION TOOL.
- IT HAS TONS OF PLUGINS THAT ENHANCE ITS FUNCTIONALITY.
- JENKINS BUILDS AND TESTS OUR SOFTWARE PROJECTS WHICH CONTINUOUSLY MAKING IT EASIER FOR DEVELOPERS TO INTEGRATE CHANGES TO THE PROJECT, AND MAKING IT EASIER FOR USERS TO OBTAIN A FRESH BUILD.
- IT ALSO ALLOWS US TO CONTINUOUSLY DELIVER OUR SOFTWARE BY INTEGRATING WITH A LARGE NUMBER OF TESTING AND DEPLOYMENT TECHNOLOGIES.

THE TYPICAL WORK-FLOW

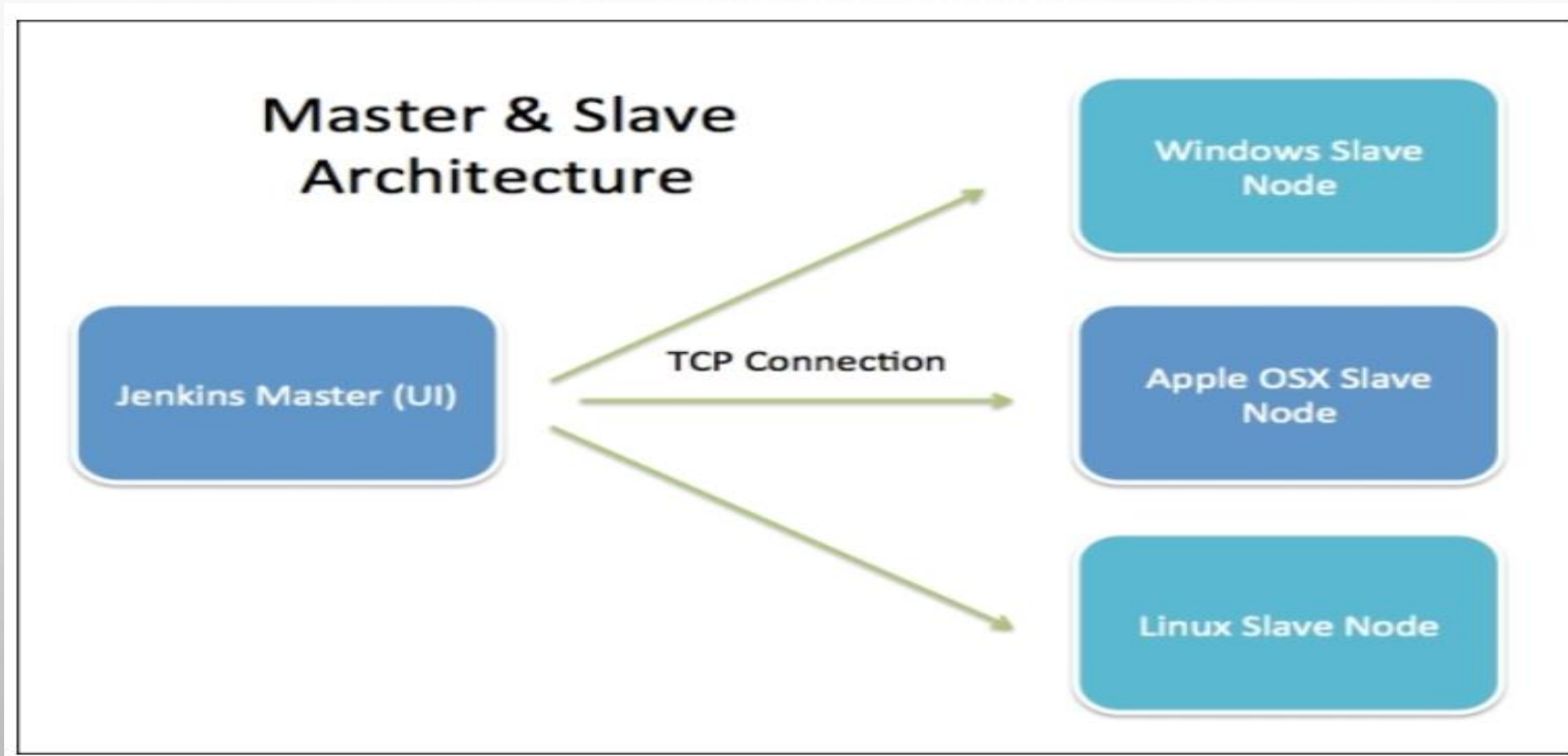


WHAT IS CONTINUOUS INTEGRATION?

- A SYSTEM WHERE DEVELOPERS CAN CONTINUOUSLY TRIGGER A BUILD AND TEST FOR EVERY CHANGE MADE IN THE SOURCE CODE.



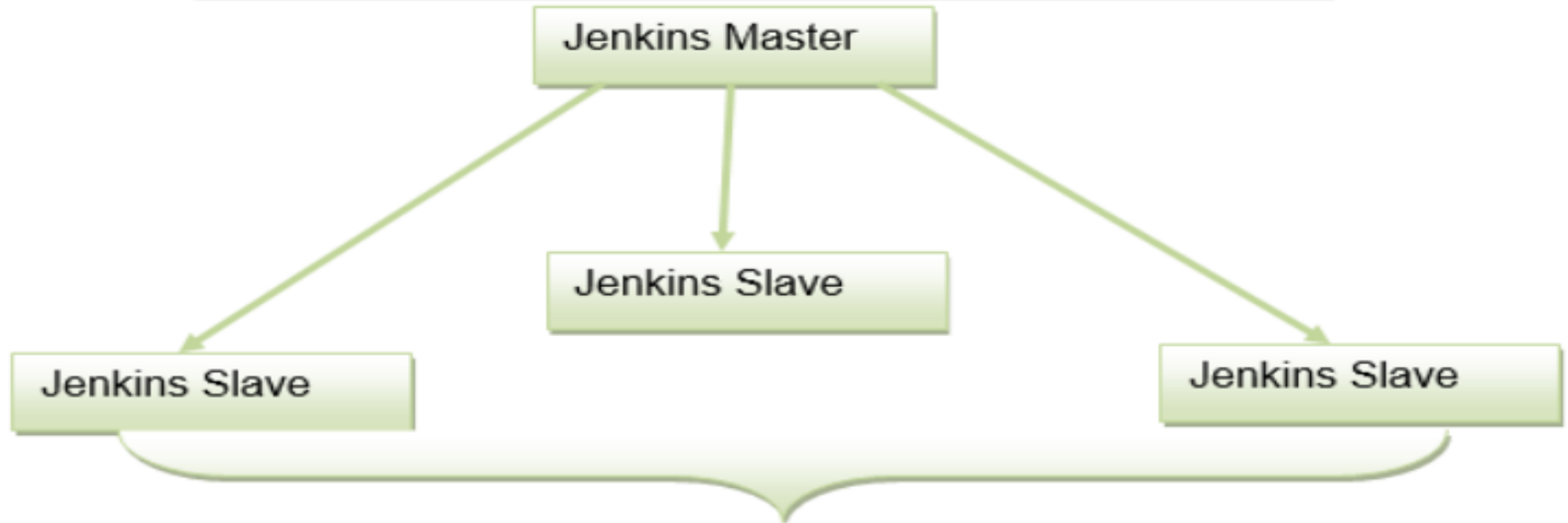
ARCHITECTURE



JENKINS MASTER

- JENKINS MASTER IS THE MAIN SERVER OF JENKINS.
- SCHEDULING BUILD JOBS.
- DISPATCHING BUILDS TO THE NODES/SLAVES FOR THE ACTUAL EXECUTION.
- MONITOR THE NODES/SLAVES (POSSIBLY TAKING THEM ONLINE AND OFFLINE AS REQUIRED).
- RECORDING AND PRESENTING THE BUILD RESULTS.
- A MASTER/SERVER INSTANCE OF JENKINS CAN ALSO EXECUTE BUILD JOBS DIRECTLY.

Jenkins Master will distribute its workload to the Slaves.



Jenkins Slaves are generally required to provide the desired environment. It works on the basis of request received from Jenkins Master.

INSTALL JENKINS IN WINDOWS

- INSTALL THE JDK OR JRE BEFORE YOU INSTALL JENKINS.
- GOT TO [HTTPS://WWW.JENKINS.IO/DOWNLOAD/](https://www.jenkins.io/download/) AND SELECT THE PLATFORM. IN OUR CASE WINDOWS
- GO TO DOWNLOAD LOCATION FROM LOCAL COMPUTER AND UNZIP THE DOWNLOADED PACKAGE. DOUBLE-CLICK ON UNZIPPED JENKINS.MSI.
- INSTALL THE SETUP.

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

`C:\Program Files (x86)\Jenkins\secrets\initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

Continue

/ILL

CONTD...

- THE INITIAL ADMINISTRATOR PASSWORD SHOULD BE FOUND UNDER THE JENKINS INSTALLATION PATH (SET AT STEP 4 IN JENKINS INSTALLATION).
- PASTE THE PASSWORD IT INTO BROWSER'S POP-UP TAB (HTTP://LOCALHOST:8080/LOGIN?FORM=%2F) AND CLICK ON CONTINUE BUTTON.
- SUGGEST TO INSTALL THE REQUIRED PLUGINS FOR THE JENKINS.