CI

Developers Commit code to a shared repository

When a commit is detected a build is triggered automatically.

If build is failed the team is notified.

Detect bugs at early stage of development life cycle

Since the entire code base is integrated,build and tested constantly,the potential bugs are caught earlier in the life cycle.

Continuous Integration

The practice of merging development work with the main branch constantly

Continuous delivery

Continual delivery of code to an environment once the code is ready to be shipped.This can be staging or production environment

Continuous Deployment - The deployment of code to production as soon as it is ready

Circle CI is cloud based CI tools.

Jenkins

CI and build server

Manuallu,periodically or automatically build development projects

Job/Project – Runnable tasks that are monitored by Jenkins

Slave/Node- Computers that build projects for the master,when slaves are registered to a master,a master starts delivering loads to slaves

Executor- Separate stream of builds to be run on node in parallel. Node can have 1 or more executor

Build – IT is a result of one of the projects

Plugin – Extend core functionality of Jenkins software