- Denkins is an open source automation server. It helps and made the parts of software development related to building testing and deploying, facilitating continuous integration and continuous deliver. It is a server-based system that runs in servetet Containers such as apache Tomat --
  - From the Jenkins home page we can follow their deps belows Jenkins dash board -> Manage Jenkins -> Manage Credentials under shores scoped to Jenkins on the right, click on Jenkins. under system click the global credentials Cunrestricted) link to access this default domain -> Click add credentials.
    - Continuous integration is a process of integrating Code changes from multiple developers in a single project many times.

      Continuous Integration is a software development process where a code is continuously dested after a commit to ensure there are no bugs.
      - arbitrary git commit to be picked by reference and append to the current working HEAD.

current working HEAD.

cherry pich is the act of picking a commit from a branch and applying it to another-git cherry pick can be useful for undoing changes.

a-login to jenking of lar create new Herric-enter iten details;
d- enter project details; e- enter repository URL; f- Tweak setting
g- build source code and be- check he status.

Dashboard, choose the options create create a manage and assign Roles to next Manage Roles the name and select Ada To assign this Role to a user create a mew cuser then go to Mamage Tenkins to configure global security then where Authorization select Role based strategy an finally click on save.

get checkout I branche name I is issued after creating a branch to switch to that branch from the main branch.

And the git checkout -b is issued to create a bran and immediately switch from the main branch to that branch mewly created.

the difference between a pull request and cherry pick are git pull is just a symonym for two command (git fetch and git me to create a mow commit with your local head and the head of the remote branch you just fetched as its parents.

of chevry pick is different. Instead creating a commit with two of others commit as parent, it creates a commit with just you local head as its parent. Cherry pick doesn't bring two branches together; It just extends your local branch by one more node.

To execute a Install a plugin in Jenkins; we can go to manage pentins - p trancage plugins - pavailable - p search for the plugin we wish to install - plugin - Select and click on the plugin and finally click on install without vertart buttom.

An Agent is a machine or compainer which comments to a jen kims comtroller and executes task when directed by the comtroller. Artifact

To create an agent in tentions here are the steps to to dashboard -p trainage Tenting -> Manage mode and cloud; -> select New Mode -> Fill the Node/Agent Name and select typermanent Agent -> fill the fields and save.