* Meaning of jenkins:
* Jenkins is free and open-source automation tool.
* It is used to develop and test software projects.
* It was developed by java language.
* It was running on 8080 port number.
* Jenkins is a plugins-based tool.
* It is used to implement CI/CD workflows called pipelines.
* Why jenkins used:
* Used for continuous integration and continuous delivery.
* Continuous monitoring.
* Pipeline as code
* Extensibility.
* Easy installation and configuration.
* Support for multiple languages.
* Scalability.
* Features of jenkins:
* Free and open-source automation tool.
* Installation is easy.
* Large number of plugins.
* Pipeline as code
* Real time monitoring
* Job scheduling.
* pipeline:
* It means line by line execution.
* Advantages of jenkins:
* User friendly, free and open source.
* Free of cost.
* It will take very less time for code deployment.
* By using Jenkins, we can collaborate development and operations team.
* Platform independence.
* Remove code errors at an early stage.
* High support plugins.
* Job:
* A job is a fundamental unit of work.
* We perform various tasks such as building code, running tests or deploying applications.
* Jenkins set up:
* Get the links from jenkins.io
* Install java because jekins developed by java language
* Install jenkins “yum install jenkins –y"
* Start the jenkins “systemctl start jenkins”
* To see the status of jenkins “systemctl status jenkins”
* To connect with the jenkins copy public ip and paste it in chrome “publicip:8080.
* Jenkins run on 8080 port number.
* Webhooks:
* Once the developers commit the code, automatically trigger the job.
* Continuous integration:
* Continuous integration is a software development practice where developers frequently integrate their code changes into shared repository.
* Continuous deployment:
* Continuous delivery involves automating the deployment process so that new features, fixes, and updates can be delivered users quickly and reliably.
* Continuous delivery means automates the deployment process to various environments (staging, production) after successful builds and tests.