Assignment - 3 Name: Garima Thakur Roll No.: 802032011. Summary of Online Course: Denops: Denops is a culture which is made of principle, tools and practices. Denops Principle: There are basic 7 Principles 1. Incremental: In this we devide our project into mini or small tasks and then focus on that small whunk of part. Then incrementally that small when how the last a decimal we increase the part & ideliner. 2. Itoraticul 3 Builing Testing Mousioning Deployment. juggins Monitoring 3. Automated: The main goal of Dewops is no operation. Automation make your practices efficient, everor free. 4. Continuous: Once the processes became automated. In continuous paradigm the focus is on how In continuous paradigm the focus is principle.

The whole foundation of sewops 5. Collaborative: blunging the development and was based on Operational team together making it move Allow fuee flow of knowledge, Collaborative. ideas & skills. 6. Self Service: Everyone Should collaborate in such a marner that they don't have to be dependent on one another. It enables to take intative. 7. Holistic: It require whole knowledge of the system. the system. -) For continuous testing we require test cases framework & build auto mation framework. Denops Pipeline: In Denops Pipeline, Deneloper write some code & pushes it into central code repository, this process itself trigger build automation frome work & after that testing frome work where each test cases testing from his since here. aue executed one by one. & all the test cases hass, the secure is configured & provision ned immediately & application package is deployed on the secure. Then monitoring of Application is done & feedback is given to premions stage. It will all work in iterative cycle.

Introduction to get: It is wersion control System which vallow us to tranck our files, E teach who modify the coole, we can newest Or recover from our lost file. Repository: Is the common code base, where all the codes of identifiers are there, the code is maintained at centre livel called repository. I det work in distributed manner. It is a open source. It works on SSH & HITP protocol. -> Webpook: It is a feature in fit Hub through which we can connect it to any other contin--wous integration tool like jerkins, Bamboo. # Git Installation & Repository Setup. 1.) first Create an account on Git Bo hub. 2) To create a repository which if right hand top corner "+" full slower button & click 3.) Now give the name of repository, description & made it bublic, if you want private, it will have certain changes. 4.) Click of README & then Create new Repository to cueate a new supository.

5. Now go to amazon linux & install git by typing the command on bash:

yun install git. 6) we can check whether lit is working or not by typing: get -- wersion. T.) Oreate in Directory by giving command mkdir then go inside directory.

Cd. directoryname! 8) To cueate file ne type uin filename 9.) git init: when we give command git init it create an infrastructure to make our directory as local repository. 10.) Is -a & then go inside repository by commander of the condition of th -ncl: cd.git/ 11.) We can cold files to the local expository.

By: git add. (It will cold all files at once). git add filename (It will add one by one).
to our local repository. 12.) Type commit command to commit all the changes to our local repository. git commit -m "Intial commit".

- socal repository to remote git remote add origin cul of remote git remote add origin cul of repository. ⇒ To connect repository.
- =) git push origin master sfter it will ask for username of his github and password. It will push code to master branch of remote reposition. repository.
- # Tracking our changes:
 - 1.) git log: this command give us information interns of commit. Any changes in git we'll go in chunk of commits. So every commit is a chunk of changes.
- 2.) get show committed: It will give us all the details of changes whome inthat commit anything wheleted is shown in red color. This commit id will also be unique.
- 3.) git log-1: Lo see last commit.
- 4.) git log -- bretty = Short, egice Short description of our commit.
- 5.) git log -- freet = oneline: Description in one line.
- 6) get log -- decorate -- oneline -- graph; It will be useful when working with branches.

Jo cueate a file give simple command: uin filename. It status: Used to see the file status. Index, Area / Staging area: It is an intermediate sure add filename: It will put the file in inter--mediate area. git commit -m "Adding file.3.c": Solding a message is mandatory git bush: It will send the file to remote repository after asking for your password. git show lost commit object. It will show the call information of all the last commit. # Git Branch: It is a linear series of commit Object. git branch: will show all the dis branches in working directory. - master branch is fault branch. git branch branchname: used to ciecte a new branch.
git checkout branchname: If you want to jump to another branch. - Types of Branches; · master · Release · Donelop · feature:

get diff file branchit... another branch: will show the list of all the changes. Tit commit - am "msg": This means add and commit get merge branchname: we can merge one branch to the master branch. git branch -d branchname: To delete the branch. # Introduction to Tenkins: Jenkins = CI/CD Tool. It make it possible to fix your code from your source code management. Terking tool or CI/CD Tool>DB Integration

Fetch source coole · Compile · Unit Testing · Deploy

Reports · Reports · Notify The CI/CD tools are heart of fifeline of Denops.

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Terkin: Open Source extensible; Because of Plugen System.

Extensible; Because of Plugen System.

Distributed Build: work on Master Slave Architecture. email Notification.

→ To create a manen project we always need from file. → Manen make uses of goals. # Introduction to chef: It is a Infrastructure configuration & Management tool. In Infrastructure as code outrything should be cutomated. Chef is tool for configuration & automation automation. # Containers: They share resources among them. They are very light viritual machines. They are more portable, more scaleable. e.g. willa is an example of wintreal machine certere as containers are as apartment. -> Docker make the concept of containers S Containers are the new growing thing in the market.



This is to certify that **Garima Thakur** successfully completed 2 total hours of **DevOps Fundamentals** online course on April 20, 2021

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