KSHITIJ KUMAR SINGA Course - 3 802032021 Devops Fundamentals Collaborative Continuous Automated Dev Ops principles self service Incre mental Holistic Iterative Incremental Divide the tasks unto subtasks such that the tasks are small enough that are feasible. Add these subtasks and solve them. Iterative Monitoring Designing Automated Devops and automation are sometimes used as synonym Many tools are required for automation. Continuous Once processes are automated, make the processes as continuous. It includes: · Continuous Integration · Continuous Delivery · Continuous Deployment.

5.	Collaborative
	It is about breaking the traditional siles
	between the developer and operation team.
	Instead of developer and operation iteam
	ungeting differently, both the team
`	should work in a collaborative manner.
	Should with a will be settled the
6.	Self service
	The idea behind self service is that the
	deam member should not be dependent
	on each other. This brings more autonomy
. ,	inspires innovation.
7.	Houstic
	Breaking down traditional silos, opens up
	the mindset of people, so that they can
, ,	the mindset of people, so that they can look up issue in a broader perspective.
	Devope Pipeline
1,	
	(Coding) (Building) Teeting Convig. Deployment)
	Trousionia)
Design	ng)
	Devos Workland (Monutoring)
	period of the pow
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Introduction to but souvre Code management tool OPS Developers QA A version control system must be · vobust · stable · easy to use Version control system Tracks What which who did When the modules changes changes Changes un code? were made? were mode? ane offected? Revent or Recover Various services such as · Cuthub Uses Out as · Gritlab · AWS Code Commit Backend. · Atlassian Bitbucket we can install Git on a linear machine by worting command "yum install gib" and after installation we can check the version by using command " git -- version"

git unit - Initalize the git local repository git add. - Add all the files in the directory git commit -m " write any comment"

Adds & commit the file added to the local repository git remote add origin 'usl' connects your local repository with global repository. git push origin mastes

Pushes the code to total repository
Initally it will ask username 2 passivored of github account git log gives logs of commits made in teams of comment git show 'committed' A committed is a unique value for a commit Shows the details of the commit git log -1 shows the log of last commit
git log -- pretty = short
orives the short description of git log git dog -- pretty = one line Crives dog un one line git log -- decorate -- oncline -- gerap -- decorate useful when multiple branches

git status shows status of git repository along with any untracked file that exist in staging area. git branch shows all the branch unyour git branch 'branchname' create à new branch git checkout 'bromchname' suitch its the If you try to push a new file to branch name then it may show an cross as git don't know on which branch to push git push -- Set -- upstream origin bronchnome Meaging of branches git diff master ... branchname It shows the difference in files between master branch and 'branchname' If you are on master branch then git merge derbranch branchname After merging two branches, if you write git branch then you will still see other branch of you want to delete the branch git. -d'branchname

Reports Tag Label Erof CI/CD = Jenkins Fetch source code config. tools compile Functional DB Integration testing Unit Jenkin Features Open Source Easy to Use Instant Reports Distributed build Email Notification Customizability coding - Gut Building - Maren Testing - Junit Configuration Provisioning - CHEF Deployment CHEF - It is on Infrastructure Automation and configuration tool > Recipe - m Programming CHEF WORKS ON Cookbook Repository/App

Chef works on master slave configuration workstation cookbooks Reciepe <u>Chef</u> <u>Masters</u> Reciepes Riciepes Reciepes chef client Node3. Chef Client Node 1 Client Node 4 Intro to containers Containers can be called as very light virtual machines Containers have resources that more postable more scalable easily replacable If explained through an analogy, a virtual machine is like a house, while a container is like an apartment. Features of container · Scalability · Isolation · Accurate testing · Replicable environment · Resource optimization · Peaformance · High Availability