

1 Introduction

Developers

- Programmers,

Datatabase Demlopers

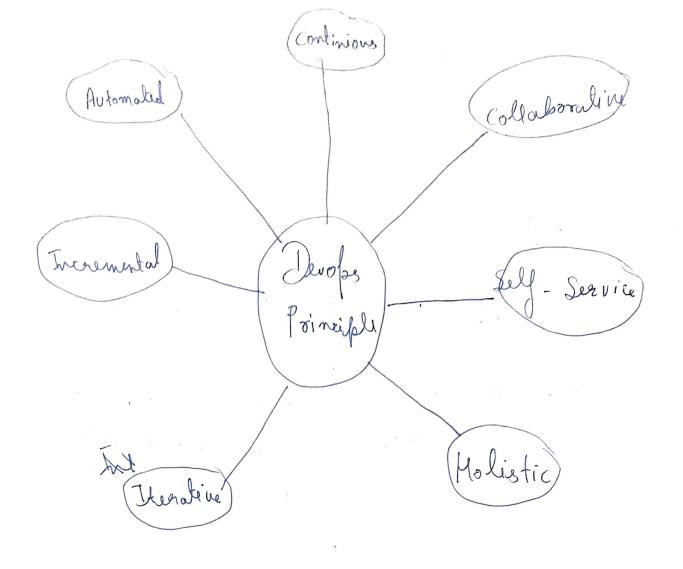
Engineer, Application

Subfact, DBA's

Come tog there
in Devops.

Der Ops Principals

-> Principles are the commenstone of devaps culture:



Incrimental - Divide project in small tiny tasks, and deliver one at a fine.

Iterative - Based on feedback of one go to another pay.

Automated - Resource Efficient, Fast, Scalable, Repetable d'Lebs error inferted.

Continious - Integration of various of repeating this eyele multiple times a day.

1 Speration tog ther Developers (allabo Vatino Bringing Teams People should collaborate in a manner Self- Servi a that they are interdependable. Holistic Look at issues with better I broader perspective. (Parinciples core Still Evolving) II. Der Ops Terminology / Au to mation - 2 Main principles Integration! aslaulomation Source Cools Duild Foundwork Automotion Management Coding >> Building >> Testing >> Release, >> Deployment (onlineas Integration Continions Delivery. Continious Deplayment. Moniforing

IV Der Ops Pipeline		
-> minimizing manual intervention.		
I change in code toiliger knild,	inhi ch	when
completed deployes testing. then triggers	Llor woo	Should
be configured of we should continue	with dy	bloymen
Pipeline		``
		Monito

Designing

Monitaring

I Introduction to hit.

3 it

2/>

Developer of A

-> Version control System Track What When ?. Who? Revert or Recover. in a distributed manner. - ait works I hit is used in backend. would on 85 h dhttp forotocal. 4> Allosian Bitbucket be hithus 4 hil lab LA Aws Code Commit

hit installation of Repository Sulup

11 Demo

	hit installation and suppository Session.	
MI	C/Demo>  hit-Teaching Your Changes.	
*	git log - gives all the info.	u u
Å	git show - all the details of changes.	
ħ	git log - help > 70 viewall the options	
*	git log = - pretty = shart = shart info	
*	= oneline = Single line 11	
(D	(11) hit Understanding index area and la	cal

(VIII) hit Undenstanding index area and local supposi

\* vine file1. C > To add a file.

A git status = will show uncommitted file

2 suggested by gif to add. \* git add file3.c (green) git commit -m "Adding file3.c" > medell commit of Opmonous) Thour nothing man to commit \* girl push > to push it to suposit ony. hit Branches Branches are . De linear series of Commit Object. > Default Branch > master » git branch » to view all branches & master. - s git branch derbranch > add branch nows mamed derbrand 7 git Checkout derbranch 2 change branch to

Types of Pranches
Master Branch
Feature Branch.
Develop Branch
Release Branch. (depend on User) Campany)
Menging Branches in hit
git diff mæster der branch - to check differen
change in file of both boarenes
git merge derboarch + der_branch will be

merged into current bravels.

of Jenkins makes continions Tulegration Deployment. Bossible. Notify Tag lable Report - (c1/cD) - Fetch Source Coole configuration Tool -Compile D B integration \* Jenking Lopen sowe by lasy to use

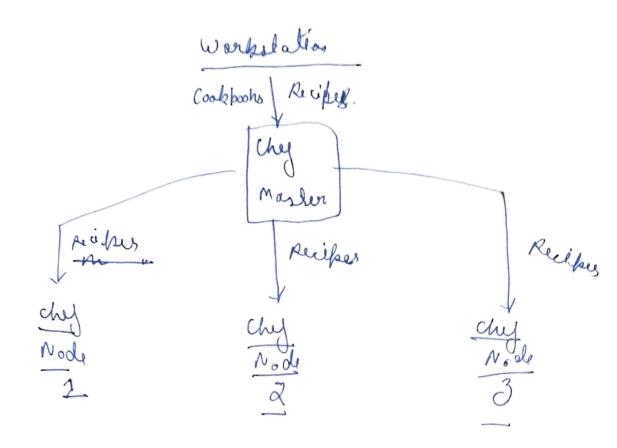
Loopen 80 were

III Jenkins Installation
2/1 demo
ZIII Der Ops Pifelline Using Jentzing
> tree - to see Whole cade & directory
Esteveluce. La Can add description.
4 glue URL of WHULD.
42 may build toigger.
We may add lest cases.
to build.  To be add and trigger when codeis fusher
git Maven Junit Chy dochy
Coding Building -> Testing -> Configuration -> Deployment  Provisioning  C I  Manifort
Quianing



Interoduction to Chef.

Shef is basically a Infrastructure of Automation of Configuration management tool.



(XV) Interoduction to Contamers

2 Containers can be called very light welged virtual Machines.

made it very way to -> Dockeer ar delete containers. & Freatuses of Containurs. is Scalabolity 12 Isolation La Accurate Testing Lo Replicable Envisionmet la Resource optimisation La Performane

manage, Orlande,

4 High Availability

## Shart Summary

- In DevOps Developers of IT Operatores come tog there and helps each other.
- -> Devops bos few principles such as.
  - Continious, Callaboratin, Holistic, Iteratin,
  - Self Serwa, Incremental, Automated, Contini.
- ~ It's terminology is as!

coding > Building > Testing -> Release > Deplayment

Designing

Monitoring.

- > levops Pipeline helps minimize manual intervente
- Duit can be used in backens. It is a wereign control system which works an 35h d http.
- Jenkins makes Continions Integration, Continions Delivery and Continions Deplayment fossible. it is also used in devops pipline with other tools sum as, git, maken, sunit, chef, dacher etc.
- » Chej is a Infrastoucture & Automation & Configurer management tool
- Docker made it easy to manage create ar delike Containers.