DevOps FAQs

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* What is DevOps ?

* diff b/w Agile and Devops ?

Linux:

* ssh connection b/w two servers

* Hard Link and soft Link

* grep , sed (stream editor) , awk (field processor)

* file permissions , compression ...

* head, tail, kill , pkill ....

SVN :

* Trunk, branch , tags

* code merging ,

* how to resolve conflicts

GIT :

* Master branch

* git clone and git fetch

* git reset   (to unstage)

* git checkout

    1) to revert changes

    2) to switch branches

* git stash ---> temp. memory area

    > git pop <stashid>

    > git apply <stashid>

* diff b/w git merge & git rebase

    > merge --> can add the code

    > rebase --> move the code and commit history

* git pull

    > to get others code changes

* how to delete remote branch

    > git push origin --delete <Branch>

* how to delete remote tags

    > git push origin --delete <Tag Name>

* set set key for git repository

    > ssh-keyge

    > copy public key --> add "deploy key" in gitHub

    > # git remote set-url origin

        git@github.com:sathyadevops/myrepo.git

*   .git direcotry

    > git init

    > hooks (pre-commit changes,

        post-update changes)

    > HEAD

ANT / MVN :

  * Need : compile , package, test , deploy , copy files

  * build.xml

    > project , default target

    > targets , depends

  * pom.xml

    > targets,

    > dependency

> plugins

> test server url

> nexus url

> Group id , Artifact ID , Snapshot

* maven life cycle phases

> mvn clean   ---> to clear local files

> mvn compile   ---> to compile

> mvn test

> mvn pakcage   ---> to prepare package

> mvn install   ---> to install a file to local repo.

> mvn deploy   ---> to deploy a file to remote serv/ repo.

NEXUS:

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* Nexus (Global repo) ---> Artifact repo. manager

* group id , artifact id , snapshots (version)

sathya : myproj : 1.0

sathya : myproj : 2.0

Jenkins :

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* what is CICD ?

* Build pipe line   ---> compile ---> package ---> deploy

* Poll SCM

* Build perodically

* how to schedule jobs ?

* how to run parallel builds

* how to configure Jenkins Master and Slave

* how to add new plugins ?

* how to add new users ?

* how to set email notifications ?

Docker :

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* diff b/w Virtual machine and Container ?

* docker image & container

* docker swarm (cluster)

* docker compose

* dockerfile (Build Script)

* diff. commands in docker file (ADD, COPY, RUN, CMD...)

Ansible :

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* adv. of Ansible

> agent less

> push

> yaml

> simple ....

* modules (yum , apt, shell, raw, service, ping, ...)

* playbooks

* roles

* Ad-Hoc command

* variables (vars)

> static data

* vars_prompt

> dynamic data

* loops (with_items)

* Handlers

> services

* Host override

* hosts inventory (all node ips)

Puppet :

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* **Puppet master and Agent configuration (Handshake)**

* **puppet port : 8140**

* **manifests**

* **resources**

>**package**

> **exec**

> **service**

> **file**

> **user**

> **group**

> **hosts....**

* **class & inheritance**

* **modules & diff. types of modules**

1) **forge modules**

2) **user defined modules**

* **resource chain**

* **templates**

* **node definition**

Chef :

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* **Server, Client , Workstation (DK)**

* **wht is bootstrap ?**

* **resources**

  > apt-package

  > package

  > yum-package

  > service

  > host...

* **recipe**

* **cookbooks**

* **Roles (a group of recipes)**

* **Environments   (a logical group of nodes)**

* **Data Bags (a container can store data)**

* **knife (a command line utility)**

* **run_list (a queue of recipes and roles)**

Nagis :

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* **Nagios server & Agent**

* **NRPE & Nagios core**

* **server monitoring**

* **nagios.cfg**

* **email alerts ----> contacts.cfg**

Cloud : (AWS)

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* **Ec2 Instance,**

* **Elastic IPs (static ips)**

* **How to provide security for EC2 Instnaces**

        > sercurity group (custom : 192.168.12.34)

* **VPC (Virtual Private Cloud)**

* **S3 buckets**

* **RDS (Data base)**

* **ELB (Elastic Load Balancer)**

* **Cloud watch (monitor)**

* **Bit Bucket**