Devops question and answers

**Git**

**1) why we need gift what makes it unique from other tools like SVN?**

Most of the people git version control, Scenario: developer pull the code and modified and committed, every committed time git will generate one commit id, after pushing the code to git hub, if code got any error, immediately developer can release previous version.

. git also makes collaboration easily, it’s allowing the change by multiple people an merged into one source. Git have local repository and control repository system; we can pull the code and do the changes in local repository and then we can push the code to central repository. Svn don’t have Local repository system. What ever changes want to do in the code we have to do only central repository.

**2) let's say I have maven repo cloned on to my local, did some changes and build the code now target folder will be generated. so now when i do git operations like git add, git commit or any other git operation target folder should not be considered, how would you achieve the same?**

Git we have option gitignore, we can create the file .gitignore and give the list which we suppose to ignore to push, (in this scenario we will give target folder name in the .gitignore file) And git add and commit. The target file is not considered to push.

**3) difference between git pull and git fetch**

Git pull performs two functions in single command, it fetches all the changes that made in the central repository and sync the changes. Git fetch do only check if there is any changes avalible.

Git pull = git fetch+ git merge

4) how clone specific branch in git?

**Maven**

5) when I issue mvn install what all things happen in background?

6) you know .m2 folder?

7) what are the settings you need to do before running mvn deploy?

8) why maven takes much time for 1st time execution and from 2nd execution it will take less time?

**Shellscript**

9) how to get present working folder?

10) how to copy files from local machine to cloud-based Linux machine?

11) a shell script named test.sh can accept 4 parameters i.e a,b,c,d. the parameters wont supply in order always and number parameters might also vary, how to identify position of c?

**Ansible**

12) why we need ad-hoc ansible commands, give scenario where you have used ansible ad-hoc command?

13) when I need detailed logs on existing ansible playbook what option I need to use?

14) what is ansible.cfg file?

15) what are the modules have you worked on? Which module will you use for getting the file from node to master?

16) let say I have a playbook which has 5 tasks in playbook, first 2 tasks should run on local machine and 3 other tasks should run on node?

**Jenkins**

17) how to save only last 5 builds of Jenkins job?

18) have you worked on Jenkins file? Can we use docker in Jenkins as node? Who will handle docker container creation and deletion? If I am building a maven project always docker container is fresh instance it will try to download dependency from repository, what measures you will take to reduce build time?

19) why we need multi branch pipeline?

20) if I forgot Jenkins password, how would login back?

**Docker**

21) any 3 best practices of docker?

22) difference between docker stop and docker kill?

23) command to list contains which state is exited?

24) command to clean-up docker host (deleting stopped containers dragging and unused networks)?

25) what version of docker you have used? Specific reason to use that particular version?

26) can we have multiple cmd in dockerfile?

27) have you worked on docker swarm and docker compose?

**Kubernets**

28) can we have multiple containers in a pod?

29) can we have similar containers in pod?

30) let’s say I have 4 containers, one of them has failed how would you check which container has failed?

31) what is liveness and readiness probe? Why we need them?

32) have worked on Kubernetes monitoring? Which too you have used?

33) can we deploy a pod on particular node?