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|  |  | 1. **What is git?**   **Ans)Git**  is a widely used [version control system](https://en.wikipedia.org/wiki/Version_control_system) for [software development](https://en.wikipedia.org/wiki/Software_development). It is a [distributed revision control](https://en.wikipedia.org/wiki/Distributed_revision_control) system with an emphasis on speed, data integrity, and support for distributed, non-linear workflows |
|  |  | 2) In what form is Git being used in your Company ? |
|  |  | Ans) Git is used as [version control system](https://en.wikipedia.org/wiki/Version_control_system) for [software development](https://en.wikipedia.org/wiki/Software_development) It is a [distributed revision control](https://en.wikipedia.org/wiki/Distributed_revision_control) system with an emphasis on speed data integrity, and support for distributed, non-linear workflows |
|  |  | 3) What are the different Tools that you integrated Git with in your company ? |
|  |  | Ans) eclipse,jenking,artifactory and maven |
|  |  | 4) What are Git hooks ? |
|  |  | Ans)Git hooks are nothing but event based triggers. |
|  |  | 5) Give us an example of a Git Hook that you implemented? |
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|  |  | 6) List all commands a developer uses to push to git starting from clean workspace ? |
|  |  | step1 : git init  step2 : git clone  step3 : placing our working files in git repository  step4 : git add filename  step5 : git commit –m “msg”  step6 : git status  step7 : git push origin master |
|  |  | 7)Difference between Git push and Git pull  git-push - Update remote refs along with associated objects  git-pull - Fetch from and integrate with another repository or a local branch |
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|  |  | 8) Different between Git Rebase and git pull  Git Rebase is one of the ways to integrate changes from one branch into another. whereas  git pull is used to get changes done in git repository to our local machine |
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|  |  | 9) How do you what branch you are currently on ? |
|  |  | a)git rev –parse –abbrev-ref HEAD command is used to know in which branch we are currently in. |
|  |  | 10) How do you what other git branches exist on the git server ?  a)the easiest way to check that other branch exist is by using git branch command based on various options available.  Git –a: shows all local and remote branches, while  Git –r: shows only remote branches |
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|  |  | 11) what is a git remote ? |
|  |  | a) Manage the set of repositories (remotes) whose branches you track |
|  |  | 12) How can you temporarily save changes before pulling/merging or switching branches?  )git stash is used to save temporary changes before pulling and switching branches |
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|  |  | 13) difference between git branches and git tags ?  A tag represents a version of a particular branch at a moment in time. A branch represents a separate thread of development that may run concurrently with other development efforts on the same code base |
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|  |  | 14) what are different types of git tags available ? give exact commands on how to create each type of tag ?  a)annotated tag : git tag -a v1.4 -m 'my version 1.4'  checkout tags : git checkout -b version2 v2.0.0  lightweight tags : git tag v1.4-lw |
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|  |  | 15) what command do you use to merge two branches ? give example  Merge command |
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|  |  | 16) How do you know current state of your workspace to that on git server ? |
|  |  | Git status |
|  |  | 17) What command is used to fetch the latest updates by others?  a)  you need a remote machine with Git and SSH installed on it. Establish an SSH connection to the server, then create and initialize a bare Git repository  mkdir repo.git  cd repo.git  git init --bare |
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|  |  | 18) What command is used to create a git repo for your personal development? |
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|  |  | 19) Explain the relationship between the working directory, |
|  |  | the index, the repository  Repositories and working directories serve different purposes in Surround SCM. A repository is part of the Surround SCM database, which is managed by the Surround SCM Server.  A working directory is simply the local space on your hard drive that a repository is mapped to. The working directory generally mirrors the repository structure |
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|  |  | 20) How can a Git merge fail? What do you do? |
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|  |  | 21) what command do you use to know list of previous commits ? |
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|  |  | 22) What is 3a525393f6a5c47fa08d91ef16c16927ed3cd33a? What are the benefits of this? |
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|  |  | 23) command to rename a file in Git? |
|  |  | Git mv oldfile newfile |
|  |  | 24) What git command is used to undo changes made to your local repo? What are the variations and how do they work? |

git revert command is used to undo the changes made I local repo.

This will create a new commit that's the opposite (or inverse) of the given SHA. If the old commit is "matter", the new commit is "anti-matter"—anything removed in the old commit will be added in the new commit and anything added in the old commit will be removed in the new commit