

## GIT FAQs

Q1.	<b>What is Git?</b>
Ans:	Git is a mature, actively maintained open-source project originally developed in 2005 by Linus Torvalds, the famous creator of the Linux operating system kernel. Git is a DVCS (Distributed Version Control System).
Q2.	<b>Benefits of Git</b>
Ans:	Complete long term change history of every file is maintained. Multiple independent streams of work can co-exist with branches. Open source. Git repository are secured with a cryptographically secure hashing algorithm called SHA1. Performance of Git is very strong when compared to many alternatives.
Q3.	<b>What is source control management?</b>
Ans:	Source control management (SCM) refers to tools that helps software team manage changes to source code over time.
Q4.	<b>What is Source Control and Version control?</b>
Ans:	Source control helps team manage changes to source code over time. The term version control is used interchangeably with source control.
Q5.	<b>GitHub, GitLab and Bitbucket are examples of git repository _____ function?</b>
Ans.	Hosting. All the three are services for hosting Git repositories
Q6.	<b>Which command is used to create an empty Git repository?</b>
Ans:	git init - This command helps to create an empty repository while working on a project
Q7.	<b>What is the use of git config command?</b>
Ans:	The git config command is used to set git configuration values on a global or local level. It alters the configuration options in your git installation. It is generally used to set your Git email, username.
Q8.	<b>How will you check status of Git repository?</b>
Ans:	git status command is used to check status of Git repository
Q9.	<b>What do you understand about the Staging area in Git?</b>
Ans:	The Staging Area in Git is when it starts to track and save the changes that occur in files. These saved changes reflect in the .git directory. Staging is an intermediate area that helps to format and review commits before their completion.
Q10.	<b>What is use of git reset command?</b>
Ans:	To remove file from staging area and put it back into the working directory.
Q11.	<b>What is the correct syntax to add a message to a commit?</b>
Ans:	git commit -m "First Commit"
Q12.	<b>What does the git push command do?</b>

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Ans:	The Git push command is used to push the content in a local repository to a remote repository. After a local repository has been modified, a push is executed to share the modifications with remote team members.
Q13.	<b>What does git clone do?</b>
Ans:	Git clone allows you to create a local copy of the remote GitHub repository. Once you clone a repos, you can make edits locally in your system rather than directly in the source files of the remote repos.
Q14.	<b>Are Git and GitHub the same?</b>
Ans:	Git is a version control system (VCS). GitHub is the platform where Git repositories can be hosted and teams can work on them together.
Q15.	<b>What is Git fork? What is branch?</b>
Ans:	<p>A fork is a copy of a repository. Normally you fork a repository so that you can freely experiment with changes without affecting the original project. Most commonly, forks are used to either propose changes to someone else's project or to use someone else's project as a starting point for your own idea.</p> <p>Branch is a version of the repository that diverges from the main working project. The two primary branches in Git flow are main and develop</p>
Q.16	<b>Which option in Visual Studio Team Explorer is used to synchronize the changes before pushing or pulling the content to or from Azure Devops repository?</b>
Ans:	Option - Connect