Git is a distributed version control system

- Git repor A series of snapshots, or commits

Command line or gui - not comfortable with cli Les / vital / easier (interactive)

auto matable - devops

fast & easy

both required!

git [command] [--flags] [arguments]

git help [command]

git [command] -h

git Config | -- system for all user -- global for user -- local for current repo

Specify the git editor: git config --global core editor nano

user info git config-global user, name "_" git config user name

git config --global user.email "_ "

git config --global user.email "-"
git config user.email

b) cations of Git

in a single directory

in a single directory

working staging repository repository tains the Commits of the commits of the project in a remote server

A contains the

Planned for the project

next commit

If you delete your project

directory, you are also deleting

your local repository

git init - initialize git repo

git add & file name - or-directory name? - Dadd file to the staging area Logit add. Dadd all of the files but don't use it it's a bad practice

git status
git status -s -short format

git commit - commit all staged file to the local repo

git log

git log

git log

git log -2 - plast two commit

git log -- oneline - p short version

git log -- oneline - p last two commit in short format

REVIEW

- git status view the status of files in the working tree and staging area
- git add adds untracked or modified files to the staging area
- git commit creates a snapshot of the current project
- git log view the commit history



Remote Repository

· A remote repository is often a "bare"

repository to only repond working tree

. By Convention, remote repository mames

end with ".git"

Have a local repository? Task

No clone the romote

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	Y	25				_ (*dd	the	(rem	iote
	·									

A clone is a local copy of a remote repository







- * Origin is the default alias for the remote repository URL
- · All commits belong to a bronch
- to a remote repository
- . Commands ?

git clone < URL.git> [local project name]
yit remote - - verbose

git remote add anome > curl>
Logit remote add origin < curl git>

. Don't work with Master branch

git push [-U] (repor sbranch)

name or url

track this branch

git push - u origin master

Quizo

1.
Which one of these statements about Git is true?
A commit containing one small change to a project is not practical.
Each version of the project is called a branch.
Git helps manage the history of the project.
2
Which one of these statements about branches is true?
By default, a commit does not belong to a branch.
A branch contains a small part of the project.
Tradition contains a small part of the projects
The default branch is named "master".
•
3.
What is a request to merge your branch into another branch called?
Automated test
Automated test
Code review
Pull request
4
If a remote repository is offline, which one of the following is true?
You can continue to work with the local repository.
You can continue to work, but only with the current version of the project.

• 5:
Which one of the following is true?
Git does not scale to large projects.
Git is owned by a single company.
Git implements distributed version control.
6.
Which one of these statements about commits is true? A commit contains only the changes to the project since the previous commit.
A commit is a snapshot of the project.
Only the most recent commit is saved in the repository.
•
7. Which location contains the list of files that will be included in the next commit?
Working tree
Remote repository
Staging area Collect
Branch
• — 8.
Which location contains the commit history of a project?
Working tree
○ Branch
Staging area
Remote repository
9. When a file is first placed in the working tree, what is its status?
Committed
Untracked
○ Modified
Staged
10.
What must you do to add a new file to the next commit?
Add the file to the staging area.
Tag the file.
Push the file.
Check out the file.
n.
If you create a local repository in a folder with existing files, what will be the status of the files?
Modified
Committed Untracked
Staged -
• 12.
Immediately after you commit, where is the commit located?
Local repository and remote repository
O Neither repository
l ocal repository

	12. Immediately after you commit, where is the commit located?
	Local repository and remote repository
	Neither repository
	Local repository
	Remote repository
	13. Which one of these statements about remote repositories is true?
	A remote repository usually has a working tree.
	By convention, remote repository names end in ".git".
	You must have one remote repository for each local repository.
	A remote repository usually has a staging area.
	14.
	What is a local copy of a remote repository called?
	© Clone
	Origin
	Branch Master
	15.
	After you clone a repository, which one of the following is true?
	The remote repository information is available in the local repository. Only the most recent commit is available locally.
	New commits to the local repository will automatically be pushed to the remote repository.
	New commits on the remote repository will automatically be added to the local repository.
	16.
	What is origin? An alias for the remote repository's URL.
	An alias for the remote repository's URL. The first version of a file in the repository.
	The default branch name.
	The first commit of the repository.
	17.
	What must you do to add a local commit to the remote repository?
	Push Pull
	Stage
	○ Merge
1	