

Commands

Score: 15/19

1. What is the command used to clone a remote repository in Git?

Explanation

The 'git clone' command is used to clone a remote repository to create a local copy on your machine. It allows you to start working on the code and also keeps a link to the original repository for pulling updates.

2. What is the purpose of a Personal Access Token (PAT) in GitHub?

Explanation

A Personal Access Token (PAT) is used to authenticate to GitHub when an OAuth token or SSH key is not suitable, such as when accessing the API via command line. It serves as an alternative to using your username and password for authentication.

3. What does a 'fork' represent in the context of GitHub?

Explanation

Making a copy of someone else's project

Merging two repositories

Deleting a repository

Forking a repository means creating a personal copy of someone else's project. This allows you to freely experiment with changes without affecting the original project. You can also propose changes to the original project via pull requests.

✓ **4. When pushing to a remote repository in Git, if the push failed due to a non-fast-forward error, what is a possible solution?**

Use 'git clone' instead of 'git push'

Delete the local repository and start over

Use 'git pull' and then 'git push'

Fetch changes, rebase local changes, then push again

Explanation

A non-fast-forward error occurs when the remote history has diverged from the local history. To resolve this, you can fetch the changes from the remote repository, rebase your local changes to the updated remote branch, and then push your changes again.

✓ **5. What is the purpose of 'git fetch' in Git?**

Merge changes from remote repository

Download latest changes from remote repository

Upload changes to remote repository

Delete remote repository

Explanation

'git fetch' downloads the latest changes from the remote repository but does not merge them into your working files. It simply brings the changes to your local copy, allowing you to review and merge them manually.

✗ **6. What is a Pull Request in GitHub?**

A request to delete a repository

A request to merge two branches

A request to propose changes from a personal fork

A request to create a new branch

Explanation

A Pull Request is a way to propose changes from a personal fork of a repository to the original repository. It allows the original repository's owner to review the changes and decide whether to accept or reject the proposed modifications.

7. Which command is used to view the remote repositories associated with the local repository?

git branch

git remote

git remote -v

git status

Explanation

The 'git remote -v' command is used to view all the remote repositories associated with the local repository. It displays the URL of the remote repository for fetching and pushing.

8. What is the purpose of 'git pull' in Git?

Merge changes from remote repository

Download latest changes from remote repository

Upload changes to remote repository

Delete remote repository

Explanation

'git pull' is used to fetch the latest changes from the remote repository and merge them into the current branch. It is a combination of 'git fetch' and 'git merge'.



9. What is the initial step to start working with a remote repository in Git?

Create a new local repository

Initialize a new repository

Clone the remote repository

Create a new branch in the remote repository

Explanation

The initial step to start working with a remote repository in Git is to clone the remote repository to create a local copy on your machine using the 'git clone' command.



10. What is the command to push changes from a local repository to a remote repository in Git?

git commit

git send

git push

git merge

Explanation

The 'git push' command is used to push the committed changes in the local repository to a remote repository. It updates the remote repository with the local changes.



11. What is the purpose of a Personal Access Token (PAT) in GitHub?

To create a new repository

To access GitHub API via command line

To delete a repository

To merge branches

Explanation

A Personal Access Token (PAT) is used to authenticate to GitHub when an OAuth token or SSH key is not suitable, such as when accessing the API via command line. It serves as an alternative to using your username and password for authentication.

12. What does a 'fork' represent in the context of GitHub?

Creating a new branch

Making a copy of someone else's project

Merging two repositories

Deleting a repository

Explanation

Forking a repository means creating a personal copy of someone else's project. This allows you to freely experiment with changes without affecting the original project. You can also propose changes to the original project via pull requests.

13. When pushing to a remote repository in Git, if the push failed due to a non-fast-forward error, what is a possible solution?

Use 'git clone' instead of 'git push'

Delete the local repository and start over

Use 'git pull' and then 'git push'

Fetch changes, rebase local changes, then push again

Explanation

A non-fast-forward error occurs when the remote history has diverged from the local history. To resolve this, you can fetch the changes from the remote repository, rebase your local changes to the updated remote branch, and then push your changes again.



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Upload changes to remote repository

Delete remote repository

Explanation

'git fetch' downloads the latest changes from the remote repository but does not merge them into your working files. It simply brings the changes to your local copy, allowing you to review and merge them manually.



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A request to merge two branches

A request to propose changes from a personal fork

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Explanation

A Pull Request is a way to propose changes from a personal fork of a repository to the original repository. It allows the original repository's owner to review the changes and decide whether to accept or reject the proposed modifications.



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Explanation

The 'git remote -v' command is used to view all the remote repositories associated with the local repository. It displays the URL of the remote repository for fetching and pushing.

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Upload changes to remote repository

Delete remote repository

Explanation

'git pull' is used to fetch the latest changes from the remote repository and merge them into the current branch. It is a combination of 'git fetch' and 'git merge'.

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Explanation

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19. What is the command to push changes from a local repository to a remote repository in Git?

git commit

git send

git push

git merge

Explanation

The 'git push' command is used to push the committed changes in the local repository to a remote repository. It updates the remote repository with the local changes.