

How to connect to a remote Git repository?

Asked 10 years, 7 months ago Modified 2 years ago

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I am working with a team and we were using SVN (as a remote machine). We were using SVN like an SVN repository. Now, we want to use Git. By what I have read, what everyone suggests is to use the following command to add a remote repository:

```
git remote add origin <remote_repo_url>
```

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But what is the `remote_repo_url`? How can I figure it out? Our remote machine has IP's like 189.14.666.666, in the remote machine I've installed Git and created a repository under `C:\MY_GIT_REPOSITORY`. What should I put in the URL on the local machines?

`git` `repository` `git-remote`

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edited Feb 15, 2021 at 11:03



Radlilauser

197 1 2 11

asked Nov 29, 2013 at 18:43



Mateus Viccari

7,619 17 66 101

5 Answers

Sorted by: Highest score (default)





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It's simple and follow the small Steps to proceed:

- Install git on the remote server say some ec2 instance
- Now create a project folder ``$mkdir project.git`
- `$cd project` and execute `$git init --bare`

Let's say this project.git folder is present at your ip with address inside `home_folder/workspace/project.git` , forex- ec2 - `/home/ubuntu/workspace/project.git`

Now in your local machine, `$cd` into the project folder which you want to push to git execute the below commands:

- `git init .`
- `git remote add origin username@189.14.666.666:/home/ubuntu/workspace/project.git`
- `git add .`
- `git commit -m "Initial commit"`

Below is an optional command but found it has been suggested as i was working to setup the same thing

```
git config --global remote.origin.receivepack "git receive-pack"
```

- `git pull origin master`
- `git push origin master`

This should work fine and will push the local code to the remote git repository.

To check the remote fetch url, `cd project_folder/.git` and `cat config` , this will give the remote url being used for pull and push operations.

You can also use an alternative way, after creating the `project.git` folder on git, clone the project and copy the entire content into that folder. Commit the changes and it should be the same way. While cloning make sure you have access or the key being is the secret key for the remote server being used for deployment.

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edited Nov 29, 2013 at 20:46

answered Nov 29, 2013 at 20:35

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Bijendra

9,865

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Git requires me this command before push: `git push --set-upstream origin master .`

– Halil İbrahim Oymaci Nov 21, 2019 at 13:32



Now, if the repository is already existing on a remote machine, and you do not have anything locally, you do git clone instead.

42



The URL format is simple, it is `PROTOCOL:[user@]remoteMachineAddress/path/to/repository.git`



For example, cloning a repository on a machine to which you have SSH access using the "dev" user, residing in `/srv/repositories/awesomeproject.git` and that machine has the ip `10.11.12.13` you do:



```
git clone ssh://dev@10.11.12.13/srv/repositories/awesomeproject.git
```

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answered Nov 29, 2013 at 18:47



DusteD

1,410

11

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- 1 In my case, I am using windows on the remote machine, and my repository is C:\MY_GIT_REPOSITORY (that was the folder were I executed the command "git init" through git console). What must I pu in the URL? – [Mateus Viccari](#) Nov 29, 2013 at 18:50

If the repository must be on windows (remote repositories should be created with `git init --bare`, by the way) then you could share the folder on the network and mount it locally and then do git clone, let's say it's mounted as `/mnt/myawesomerepo` you'd then do `git clone /mnt/myawesomerepo`, or if it's a windows machine, map as network drive (Z for example), and do `git clone Z:/myawesomerepo`, or setup a git daemon on the win machine as per: stackoverflow.com/questions/233421/... – [DusteD](#) Jan 10, 2015 at 18:54

- 2 And if i already have the project on my machine and just want to add the remote to push/pull commits? I do a `git remote add origin Z:/myawesomerepo` ? – [Mateus Viccari](#) Jan 11, 2015 at 2:13

Yes, that would work, assuming that `Z:/myawesomerepo` is the path to the remote repository. (a windows/samba network share mapped to a drive letter) – [DusteD](#) Jan 11, 2015 at 16:36

What if we only want to connect and see files name not Cloning the Project?

– [Ahmad Reza Enshaee](#) Dec 27, 2017 at 16:35



For Bitbucket repositories users:

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Starting 01.03.2022 you need to generate app password: <https://support.atlassian.com/bitbucket-cloud/docs/app-passwords/>



You can choose what permissions you grant for this password during creation process.



Then connect by:



```
git remote add origin https://  
bitbucketusername:bitbucketAppPassword@bitbucket.org/your-team/your-repo.git/
```

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answered Mar 11, 2022 at 18:11



RadekR

573 4 13



Like you said `remote_repo_url` is indeed the IP of the server, and yes it needs to be added on each PC, but it's easier to understand if you create the server first then ask each to clone it.

1



There's several ways to connect to the server, you can use ssh, http, or even a network drive, each has it's pros and cons. You can refer to the [documentation](#) about protocols and how to connect to the server



You can check the rest of [chapter 4](#) for more detailed information, as it's talking about how to set up your own server

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answered Nov 29, 2013 at 19:12



Mohammad AbuShady

42.2k 11 80 89



To me it sounds like the simplest way to expose your git repository on the server (which seems to be a Windows machine) would be to share it as a network resource.

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Right click the folder "MY_GIT_REPOSITORY" and select "Sharing". This will give you the ability to share your git repository as a network resource on your local network. Make sure you give the correct users the ability to write to that share (will be needed when you and your co-workers push to the repository).



The URL for the remote that you want to configure would probably end up looking something like `file://\\189.14.666.666\MY_GIT_REPOSITORY`

If you wish to use any other protocol (e.g. HTTP, SSH) you'll have to install additional server software that includes servers for these protocols. In lieu of these the file sharing method is probably the easiest in your case right now.

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answered Nov 30, 2013 at 13:33



Arenhag

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