

Git push from Visual Studio Code: "No anonymous write access. Authentication failed"

Asked 3 years, 6 months ago Modified 1 year, 10 months ago Viewed 53k times



I was following a tutorial from GitHub itself. I am following the one that teaches you to work from Visual Studio Code.

51



I was trying to push something from Visual Studio Code and after quite some time I get the following error:



```
remote: No anonymous write access.  
fatal: Authentication failed for ....
```



Now I am pushing something to my personal account. I tried to google (but again I am new to this so I don't fully understand all the terminology) and what I could find are issues with [two-factor authentication](#) (but that is off in my case) and Windows credentials (but I checked and I do not have any Git in my Windows credentials).

So I am at a loss. What else I could try or check?

[git](#) [visual-studio-code](#)

Share Follow

edited Nov 16, 2021 at 16:58



[Peter Mortensen](#)

30.8k 21 105 131

asked Mar 19, 2020 at 12:30



[user180146](#)

905 2 9 18

Are you doing this from the command line / terminal or using VS Code's version control UI?

– [Gino Mempin](#) Mar 19, 2020 at 12:36

@GinoMempin the UI I would not know exactly how to do it via command line – [user180146](#) Mar 19, 2020 at 12:52

How did you clone the repository on your local machine? Did you use HTTPS or SSH? – [Gino Mempin](#) Mar 20, 2020 at 4:41

For those coming from search engines searching for a solution to the Visual Studio Code scandal (the **update of Visual Studio Code to version 1.62.2** (October 2021 1.62.0 release, 1.62.2 in November 2021) broke Git push to GitHub - symptom "No anonymous write access"): the Stack Overflow question [Fix for "fatal: Authentication failed for"](#) addresses this incident more directly (and is probably the canonical question for it). – [Peter Mortensen](#) Nov 18, 2021 at 0:09

[Report this ad](#)

Sorted by:

Highest score (default)



7 Answers



47



A simpler method is to use [personal access tokens](#) at GitHub. This feature can be set up by going to your GitHub account → *Settings* → *Developer settings* → *Personal access tokens* → *Generate a personal access token*. Make your access control selections, generate, then copy and save your new token. After this, go to your Git project directory and this enter in the terminal:

```
git remote set-url origin
```

```
https://YOUR_TOKEN_HERE@github.com/your_user/your_project.git
```

From now on you can easily do `git push` from the terminal or Visual Studio Code.

Share Follow

edited Nov 18, 2021 at 20:42

answered Nov 16, 2021 at 23:31



sequence

734 1 8 16

2 Thanks for updating your answer. It works! – [McGrew](#) Nov 19, 2021 at 21:31

2 While this doesn't seem like the most ideal or "proper" solution, I can't argue with the results, as it fixed my issue when nothing else was working and I could not figure out the problem. I still don't understand what was going wrong with my setup or why it was failing, but at least now it is working, thank you very much. – [ForeverZero](#) Apr 25, 2022 at 8:07



11



VS Code just uses your environment's git configuration when it commits and pushes to the remote repo. So, you'll have to first make sure that your local env is set up correctly for Git, before worrying about VS Code.

1st, I recommend going through the [First-Time Git Setup](#) from the Git docs. The most important part there is setting-up your Git identity:

```
$ git config --global user.name "John Doe"
$ git config --global user.email johndoe@example.com
```

2nd, I recommend setting-up SSH keys on your local machine and on your GitHub profile. GitHub has an entire tutorial on [Connecting to GitHub with SSH](#).

Basically:

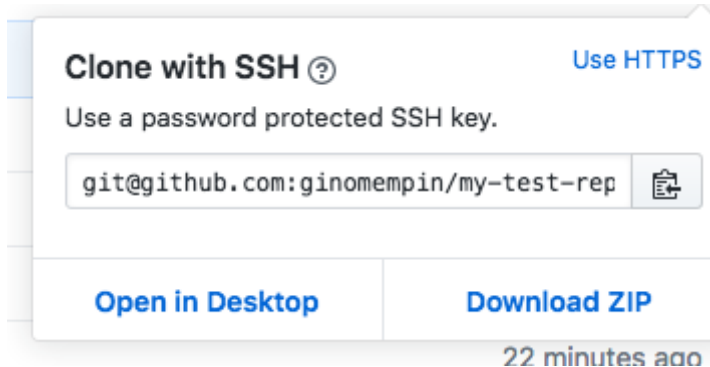
1. Generate a SSH key on your machine ([Generating a new SSH key](#))
 - There's a step there that specifies `-C "your_email@example.com"`
 - Make sure that it matches the `git user.email` that you set as your Git identity
2. [Add that SSH key to your GitHub account](#), in the **SSH and GPG keys** section.

You can check that your SSH keys are valid by entering this in the terminal:

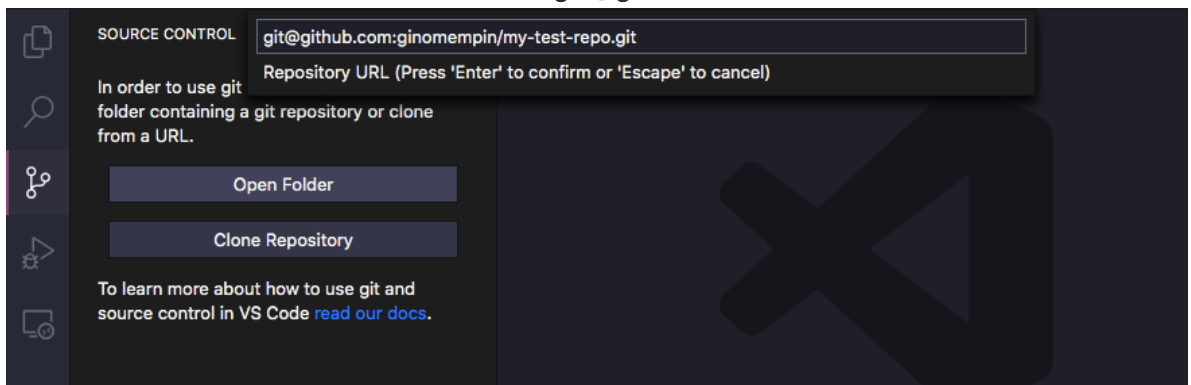
```
$ ssh -T git@github.com
Hi ginomempin! You've successfully authenticated, but GitHub does not provide
shell access.
```

Now,

1. Clone your repo
 - Make sure to select the **Clone with SSH** option in GitHub



2. In VS Code, make sure to use that same `git@github.com:.....` URL



I do not have any Git in my Windows credentials

You can choose to disable that entirely, as I find that the Windows credentials manager can cause problems, and using SSH is more "stable". See [How do I disable Git Credential Manager for Windows?](#).

Share Follow

edited Nov 17, 2021 at 20:30



Peter Mortensen

30.8k 21 105 131

answered Mar 20, 2020 at 5:18



Gino Mempo

25.6k 29 98 138

I followed all your steps. Nice and clear by the way thank you. When I tried to check the ssh key I got the following: Warning: Permanently added 'github.com...' But then I got the same message as you. So I thought it was fine. However in the second step of vs code I get the following error: Cloning into 'd:\Users\hillebr\Documents\2 - Test programma's\github-slideshow'... Warning: Permanently added the RSA host key for IP address to the list of known hosts. git@github.com: Permission denied (publickey). fatal: Could not read from remote repository. – [user180146](#) Mar 20, 2020 at 8:40 ✎

What does `ssh -T git@github.com` give you? The warning about "*Permanently added 'github.com' to the list of known hosts*" is normal and expected. It's just telling you that "Hey, I'm going to use your SSH key on this machine to access Github". – [Gino Mempin](#) Mar 21, 2020 at 13:50

Looks fine: You've successfully authenticated, but GitHub does not provide shell access – [user180146](#) Mar 23, 2020 at 7:57 ✎

Hmm. Can you try going over the Github docs on [Troubleshooting SSH > Error: Permission denied \(publickey\)](#)? Usually, it's an incorrect git user configuration. – [Gino Mempin](#) Mar 23, 2020 at 11:25 ✎

2 If you already clone using https, you can switch the remote protocol via: `git remote set-url origin git@github.com:USERNAME/REPO.git` – [Moop](#) Nov 13, 2021 at 19:22



Yahooo! Finally, an Issue resolved

9



This is only for those who are facing this issue from the last update of VS Code. (NOV 15, 2021 or around)

The issue on Github Community [#LINK](#)

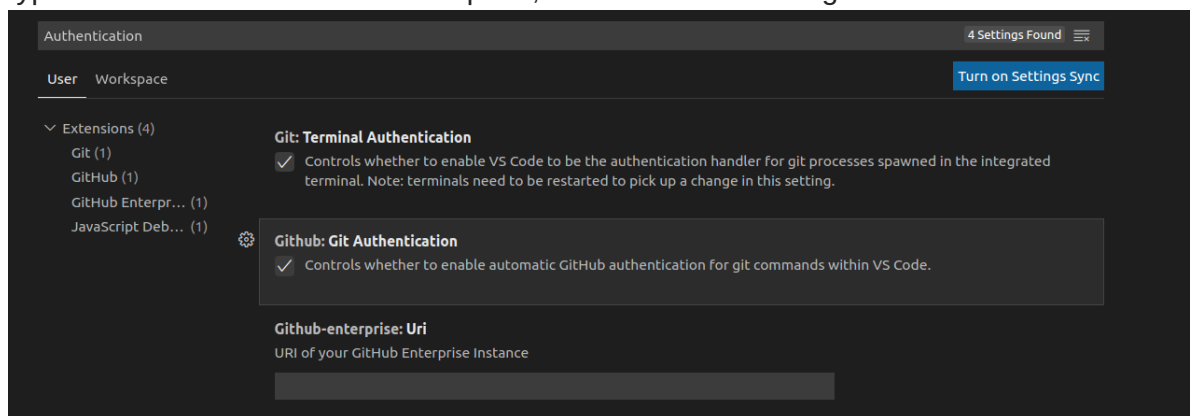


No need to downgrade VS Code, or git version. basically what I understood from the fix that worked for me. think it's a sort of conflict between GitHub and Git authentication.

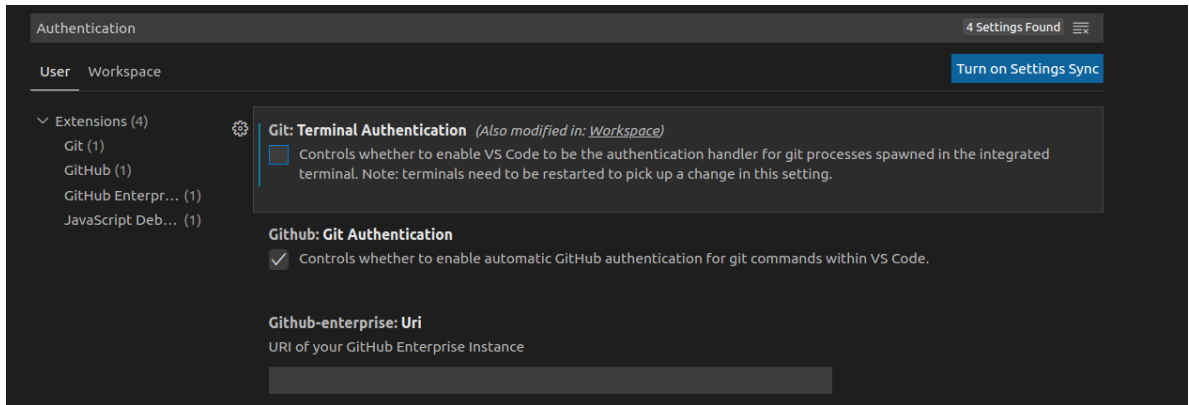
So there are a few steps you can try and hopefully, it would be fixed for you too.

Open your Settings In VS CODE.

1. Open settings from the left bottom corner (Settings icon) or press `CTRL+,`
2. type Authentication in the search option, it will show something like this.



3. You need to uncheck Git: Terminal Authentication. (e.g)



4. Only Github: Github Authentication should be checked.

Now you need to close the opened terminal (if any). open your new terminal and try with git commands.

```
jk@jk-ThinkPad-T470:~/JKCODE/GITHUB/bootcamp$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 399 bytes | 399.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2). completed with 2 local objects.
To
main -> main
```

on my end, everything is working fine. hope this works for you too. :slight_smile:

Share Follow

answered Nov 19, 2021 at 13:45



Jahanzeb Nawaz

1,138 12 11

Same issue with me after the latest update. But this didn't work for me – [rajabrazza](#) Nov 21, 2021 at 17:37

@rajabrazza which os are you using? and VS Code version? can you confirm, make sure you closed the terminal and opened a new one. – [Jahanzeb Nawaz](#) Nov 21, 2021 at 19:56

Ubuntu 20.04. Yes, I even restarted the workstation as well. Also, I have upgraded the VSCode to version 1.62.3 but nothing helped. – [rajabrazza](#) Nov 22, 2021 at 9:41

Version: 1.62.3 Commit: ccbaa2d27e38e5afa3e5c21c1c7bef4657064247 Date: 2021-11-17T08:00:36.721Z Electron: 13.5.2 Chrome: 91.0.4472.164 Node.js: 14.16.0 V8: 9.1.269.39-electron.0 OS: Linux x64 5.13.0-21-generic snap its working on mine, (versions are same as yours). – [Jahanzeb Nawaz](#) Nov 22, 2021 at 19:03

This solution worked for me. In addition, I also reloaded my VS code. – [joseph chikeme](#) Apr 27 at 23:12



After setting up the SSH key, you need to type this in your IDE (I'm using Visual Studio Code)

5

git remote -v



This will show you your current *remote* branch URL, but you can no longer use that.



To update it, *type this in your console*



```
git remote set-url origin git@github.com:YOURUSERNAME/reponame.git
```

Now try to push or make any changes

NOTE: From my perspective I think you'll have to perform this operation for all your existing (old) repositories too.

Share Follow

edited Nov 17, 2021 at 20:32



Peter Mortensen

30.8k 21 105 131

answered Nov 16, 2021 at 21:50



Opeyemi Noah

136 1 11

2 This worked for me. Output of `git remote -v` gave me `origin https://github.com/*my_github_username*/*github_reponame*.git (fetch) ...` .I used `git remote set-url origin git@github.com:YOURUSERNAME/reponame.git` (I copied the corresponding part (`git@github.com:YOURUSERNAME/reponame.git`) directly from my github repo page in "Code" section/tab > then clicking the big green "Code" button with a dropdown menu > then selecting "SSH") – PurpleMongrel Nov 23, 2021 at 3:06



Try to go through the terminal with `sudo git push` . If you have two-factor verification, use the token instead of the password like this:

2

Username for 'https://github.com': <username>



Password for 'https://username@github.com': <token>



Share Follow

edited Nov 16, 2021 at 16:23



Peter Mortensen

30.8k 21 105 131

answered Nov 16, 2021 at 2:05



Artrinas

21 2

Is there a difference between two-factor verification and [two-factor authentication](#)? – Peter Mortensen Nov 16, 2021 at 16:43



You need to go back to the old version of Visual Studio Code and everything will be fine and all problems will be solved. It seems that the problem is in the latest version of Visual Studio Code and I hope it will be fixed. I am using Linux, an Ubuntu distribution.

2



[September 2021 \(version 1.61\)](#)



UPDATES

October 2021 **1**

September 2021

August 2021

July 2021

September 2021 (version 1.61)

Update 1.61.1: The update addresses these [issues](#).

Update 1.61.2: The update addresses these [issues](#).

Downloads: Windows: [User System ARM](#) Mac: [Universal 64 bit Arm64](#) Linux: [deb](#) [rpm](#) [tarball](#) [ARM](#) [snap](#)

Share Follow

edited Nov 16, 2021 at 16:25

answered Nov 15, 2021 at 11:53



Peter Mortensen

30.8k 21 105 131



Fares

53 5



0

What I have learn is that, You cloned the repository into an ssh terminal in vs-code. The first thing you could have done is to use gitbash terminal, it usually has this sign ">" as against the bash terminal which has a cube-like sign.



So before you clone a repository make sure you are using a gitbash terminal, hence, why the problem. Here is what I did. So since you used bash we have to play with "ssh".



First step, write this command in the repository you cloned

```
$ git config --global user.name "username in github"
$ git config --global user.email "email used in gihub"
```

Second Step

[Follow this docs patiently.](#)

When you get to this step below in the document, continue below;

Step 2 Add your SSH private key to the ssh-agent. If you created your key with a different name, or if you are adding an existing key that has a different name, replace id_ed25519 in the command with the name of your private key file.

```
$ ssh-add ~/.ssh/id_ed25519
```

Instead of typing this command: `$ ssh-add ~/.ssh/id_ed25519`

Use this: `ssh-add,`

It will prompt you to enter paraphrase or something. type it.

Then make sure you have added the ssh key successfully by running this code:

```
ls -al ~/.ssh
```

try and cd to the directory of ssh

You should see something like this :

```
-rw--- 1 barry barry 465 Nov 1 07:47 id_ed23333
-rw-- 1 jospeh jose 115 Nov 1 09:47 id_ed23333.pub
```

try and run this command:

```
cat id_ed23333.pub
```

It will give you; your ssh key copy it and go to your github account. After this go to your repository click on "code" you should see http /ssh click on "ssh", it should show you if you need to add an ssh key click on add key, name the key anything you want and paste the key you copied then add key.

Go back to vscode and rerun the usually code.

```
git add .
git commit -m "message"
git push
```

Share Follow

edited Nov 18, 2021 at 11:06



Dharman ♦

31.1k 25 86 137

answered Nov 18, 2021 at 11:01



derek

21 7