

Techglimpse

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git push using GitHub token [Deprecating password authentication]

Updated on September 6, 2021

I am using git for version control and [GitHub](#) for the repository of my code development. Every git push of my work to the repository is prompted to input my GitHub username and password. I would like to avoid it for every push, but how to setup git push to use GitHub token.

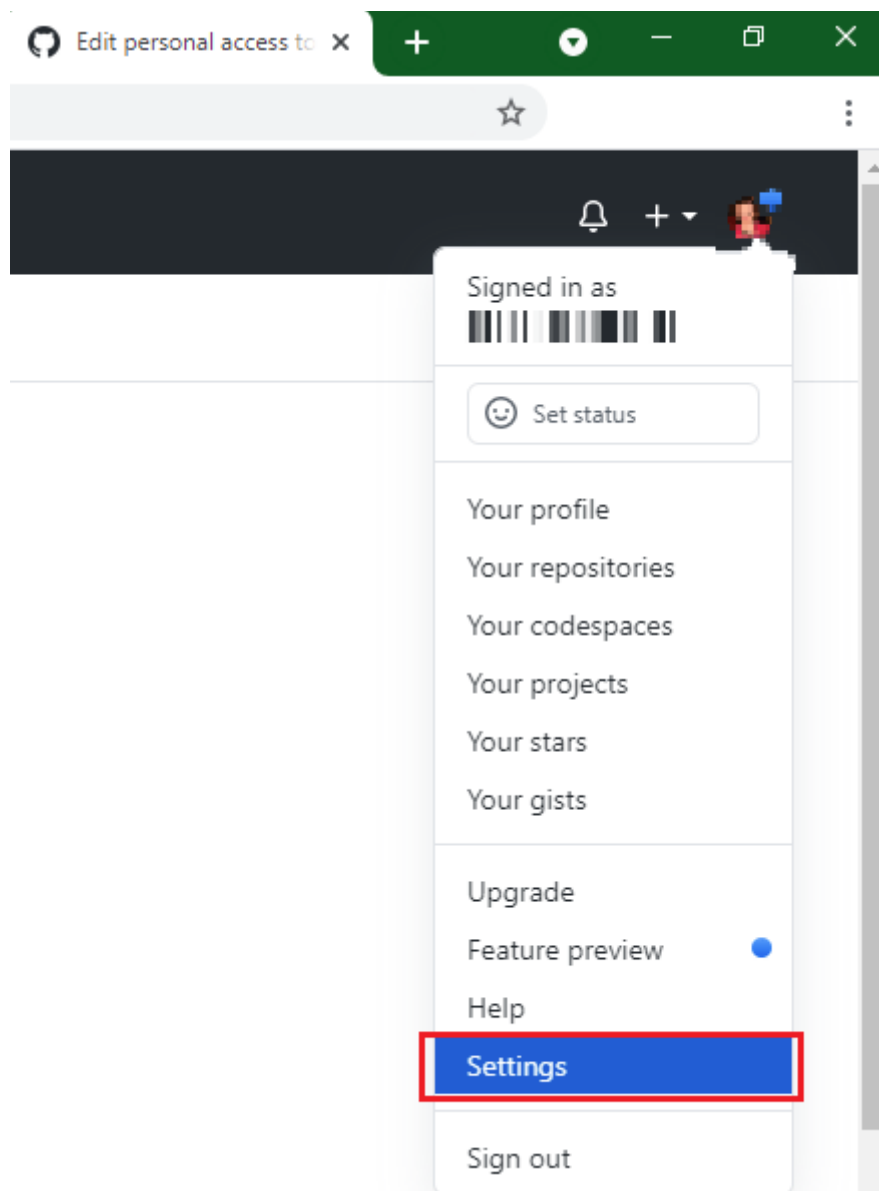
Solution:

Password-based authentication for Git is deprecated and you should make the push based on the token authentication. GitHub has personal access token (PAT), to use in place of a password with the command line or with the API. Below is how to generate the token and use it:

Create a token in GitHub

1. Log in to GitHub and navigate to the `Settings` page as shown below:





2. Click on Developer Settings





Your personal account

[Go to your personal profile](#)

Account settings

Profile

Account

Appearance

Account security

Billing & plans

Security log

Security & analysis

Emails

Notifications

SSH and GPG keys

Repositories

Packages

Organizations

Saved replies

Applications

Developer settings

Public profile

Name

Your name may appear around GitHub where you contribute or are mentioned. You can remove it at any time.

Public email

You have set your email address to private. To toggle email privacy, go to [email settings](#) and uncheck "Keep my email address private."

Bio

You can @mention other users and organizations to link to them.

URL

Twitter username

Company

You can @mention your company's GitHub organization to link it.

Profile picture



3. Click on Personal Access Tokens

[Settings](#) / [Developer settings](#)

GitHub Apps

OAuth Apps

Personal access tokens

GitHub Apps

[New GitHub App](#)

Want to build something that integrates with and extends GitHub? [Register a new GitHub App](#) to get started developing on the GitHub API. You can also read more about building GitHub Apps in our [developer documentation](#).

4. Click on Generate new token

[Settings](#) / [Developer settings](#)

GitHub Apps

☒ OAuth Apps

Personal access tokens

[Generate new token](#)

Tokens you have generated that can be used to access the [GitHub API](#).



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the command line. Click `Generate token`.

In-Database Machine Learning

GitHub/MindsDB: AI Tables for predicting data trends via SQL

MindsDB

Learn

Note

MyToken

What's this token for?

Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

| | |
|---|---|
| <input checked="" type="checkbox"/> repo | Full control of private repositories |
| <input checked="" type="checkbox"/> repo:status | Access commit status |
| <input checked="" type="checkbox"/> repo_deployment | Access deployment status |
| <input checked="" type="checkbox"/> public_repo | Access public repositories |
| <input checked="" type="checkbox"/> repo:invite | Access repository invitations |
| <input checked="" type="checkbox"/> security_events | Read and write security events |
| <input checked="" type="checkbox"/> workflow | Update GitHub Action workflows |
| <input checked="" type="checkbox"/> write:packages | Upload packages to GitHub Package Registry |
| <input checked="" type="checkbox"/> read:packages | Download packages from GitHub Package Registry |
| <input checked="" type="checkbox"/> delete:packages | Delete packages from GitHub Package Registry |
| <input type="checkbox"/> admin:org | Full control of orgs and teams, read and write org projects |
| <input type="checkbox"/> write:org | Read and write org and team membership, read and write org projects |
| <input type="checkbox"/> read:org | Read org and team membership, read org projects |

Note:

Make sure to copy your personal access token immediately. You won't be able to see it



How to git push using GitHub token on the command line

Note:

Personal Access Tokens (PAT) can only be used for HTTPS git operations. Switch your repository to HTTPS if it is using SSH.

Once you have a token, you can use it instead of your password when performing git push operations over HTTPS as below:

```
tps://<GITHUB_ACCESS_TOKEN>@github.com/<GITHUB_USERNAME>/<REPOSITORY_NAME>.git
```



In-Database Machine Learning

GitHub/MindsDB: AI Tables for pi data trends via SQL

MindsDB

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Note: Remember to replace <GITHUB_ACCESS_TOKEN> , <GITHUB_USERNAME> , <REPOSITORY_NAME> with your token, username and repository.

Tagged: [git passwordless](#) [git push](#) [GitHub](#)

About The Author





Comments

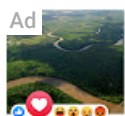
Leave a Comment

Noname

7 days ago

thanks

Reply



Laugh, Love Or Like - Which One Will You Be?

Start connecting and sharing with people you know. See the lates

Facebook®

Noname

2 weeks ago

How to set the github token is missing

Reply

Noname

2 weeks ago

Saved me great time thank you 😊

Reply

Noname

3 weeks ago



Noname

4 weeks ago

Thank you for this very helpful article !

Reply

Noname

1 month ago

Crisp and clear! Thanks much..

Reply

Noname

1 month ago

good

Reply

Jacopo Simoni

1 month ago

This is completely idiotic.

This situation is driving me crazy, I generated a token after hours of trying I managed to push my data. Now that it expired I am back to the same situation. Github is shit

Reply

Noname

1 month ago

one time solution

Reply

**Noname**

IceBotYT

2 months ago

Thank you so much! This worked flawlessly

Reply

Arthur

2 months ago

Thanks for the solution but is there an alternative way not to use the access token every time you going a push?

Reply

Noname

2 months ago

Thanks you saved my day!

Reply

Noname

2 months ago

Thanks

Reply

Noname

2 months ago



Thank you. You made it so simple :)



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Finance Course**



3 months ago

Very useful

Reply

Noname

3 months ago

Command worked without the username and not with it. So the working command is:
git push <https://@github.com/.git>

Reply

Noname

3 months ago

Useful information. Thank you very much!!!

Reply

Noname

3 months ago

thank you for the tutorial. i wish you goodluck, and all is well.

Reply

Noname

3 months ago

Thanks for the help



This is a bad practice, to use the token in your URL, as it stores the token as plain text.

Reply

Noname

3 months ago

thanks alot this help me solve my problem

Reply

Anonymous

3 months ago

Thanks, this was so useful!

Reply

Noname

3 months ago

It would be useful to see how to configure git to store token instead of writing it each time you push

Reply

Kiisi Felix

3 months ago

Nice, It really help and it made my day

Reply

Noname

4 months ago



thank you for this. saved my butt. 😊



nice solution

Reply

Noname

4 months ago

doesn't work Windows 10 GitHub

Reply

Sergio Ricardo

4 months ago

Thank you ! Worked perfectly !

I agree with the comments of Sabina Pringle. And I think you tutorial should be included into GitHub's website.

Direct and clean.

Reply

Noname

4 months ago

Yes, this article was helpful for me. Thank you.

Reply

Noname

5 months ago

Thanks, it was helpful. Saved me so much time

Reply

Noname

5 months ago



Noname

5 months ago

everything is clear

Reply

Noname

5 months ago

Thank you! This is only article of many of read that worked. So many articles say you can simply put the token into the place where the traditional cli prompt looks for a password. I'm sure I have pushed to github since passwords were deprecated so maybe github have changed thing again in late 2021? In any case, thanks again.

Reply

Noname

5 months ago

thank you

Reply

Noname

6 months ago

thanks

Reply

**Noname**

Noname

6 months ago

didn't work

Reply

Noname

6 months ago

All worked. Thank you

Reply

Noname

6 months ago

Solved my problem instantly.

Reply

Noname

6 months ago

How do I avoid having to type this god awful token password for every single push?

Reply

Noname

6 months ago

Thanks, it works

Reply

Noname

6 months ago



6 months ago

Great and useful!

Reply

Noname

7 months ago

very good

Reply

Noname

7 months ago

nice

Reply

Noname

7 months ago

Thanks

Reply

Noname

7 months ago

Doesnt work

Reply

Noname

7 months ago



thanks



BLESS YOU! Lots of articles are out there on why this was done. This was the first one I found that told you what to do now. Oh, bless you!!!!!!!!!!

Reply

Noname

7 months ago

Thank you! I was stuck but this worked!

Reply

Alexander

7 months ago

Instead:

git push

https://GITHUB_ACCESS_TOKEN@github.com/GITHUB_USERNAME/REPOSITORY_

Please edit it like so

https://GITHUB_USERNAME:GITHUB_ACCESS_TOKEN@github.com/GITHUB_USER

Reply

Ramya Santhosh

7 months ago

I tested it and both work fine. Let me know if you have a specific reason for your solution? Thanks

Reply

Saul

7 months ago

The only solution that worked for me was:

https://GITHUB_USERNAME:GITHUB_ACCESS_TOKEN@githu



This is close but not correct if the repo owner is an organization (or some entity other than GITHUB_USERNAME). In that case, the second instance of GITHUB_USERNAME should be the organization name.

Reply

Noname

7 months ago

thanks a lot 😊

Reply

Noname

7 months ago

Thank you very mucha; you are the best. I had waste a lot time searching something like this very helpfull article.

Reply

Noname

7 months ago

It's work...thanks a lot

Reply

Emanuele Pecchioli

7 months ago

Thanks a lot it worked!



Finally found some advice that worked.

Reply

Noname

8 months ago

my coworker was too stupid to push to our repo but with my help and this article he finally made it after 45 mins 😊 thank you

Reply

Noname

8 months ago

It's helpful

Reply

Noname

8 months ago

Thanks for your feedback.

Reply

Noname

8 months ago

It worked flawlessly. I was banging my head here and there for a day... Thank You Very Much.

Reply

Noname

8 months ago



Crazy that I had to go this far to find this simple guide



good

Reply

Noname

8 months ago

Thanks!

Reply

Noname

8 months ago

Finally found a perfect solution after pulling my hair for many days!! Thank you!!!

Reply

Noname

8 months ago

great,thanks

Reply

Noname

8 months ago

not secure

Reply

Noname

8 months ago

The most helpful article without unnecessary info, thx !



Thanks Ramya Santhosh for this article

Reply

Anonymous

8 months ago

Good article

Reply

Ahmed Yaseen

8 months ago

Very simple, thank you!

Reply

vrednyj

8 months ago

This does not work.

I have generated Personal token with full access. It still looking for additional token to enter as a password. Something is wrong here.

Reply

anonymous1

9 months ago

Thats helpful!! Thanks

Reply

Anonymous

9 months ago

✓ Thank you so much, that was very confusing as the command line kept asking for my



9 months ago

git push [@ 22/09/2021 18:16](https://@github.com/.git) is how I managed to push my repository in github. Didn't work with my username between my token and the repository Thanks a million though, you brought me half way through!!

Reply

Gabriel Cánepa

9 months ago

Excellent instruction

Reply

MOHAMED ALI

9 months ago

Nice Content (Simple as Air)

Reply

Toby Speight

10 months ago

This has solved my issues.

Reply

Nicol Bolas

10 months ago

for the first time I have got my solution in only one search.

Reply

Sabina Pringle

10 months ago



My inexpert suspicion is that some of the “account security” features Microsoft is making me set up are good for Microsoft and might be desirable for some users but aren’t necessarily things I want or need.

Reply

Puneet

10 months ago

it is working

Reply

Roland

10 months ago

Thanks so very much for this Ramya.

The words “enter it instead of your password” is the golden phrase missing from a lot of material.

I share Vincent Flair’s frustration.

Keep up the good work

Reply

Vincent Flair

10 months ago

Thank you. Clearest and easiest solution I have seen. I don’t know why this is not part of the alerts that github keeps sending out. One potential wrinkle — if pushing to a repository of someone else in the team, the should be of the account under which exists.

Reply



