

# Hands-on Lab: Generate GitHub personal access token



IBM Developer  
SKILLS NETWORK

Effort : 15 mins

## Objectives

The goal of this lab is to create a **personal access token**. Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS.

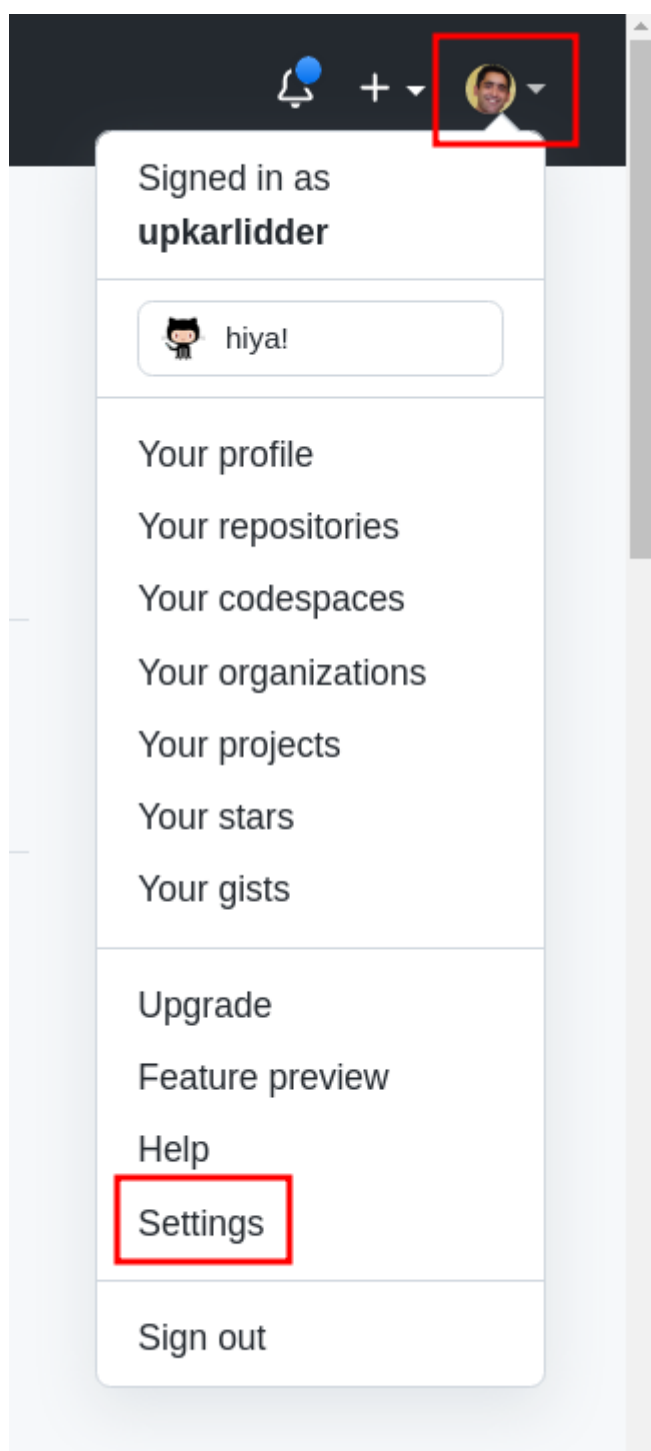
## Pre-requisites

This lab requires a Github.com account. Additionally, verify your email address if it hasn't been verified on Github.

## Exercise 1: Generate personal access token

Let's first create a personal access token that you will use as a password with pushing code back to GitHub.com

1. Open [GitHub.com](https://github.com). In the upper-right corner of any page, click your profile photo, then click Settings.



2. In the left sidebar, click **Developer settings**.

Account settings

Profile

Account

Appearance

Accessibility

Account security

Billing & plans

Security log

Security & analysis

Sponsorship log

Emails

Notifications

Scheduled reminders

SSH and GPG keys

Repositories

Packages

Pages

Organizations

Saved replies

Applications

Developer settings

Moderation settings

Blocked users

Interaction limits

Code review limits

## Moderation settings

## Public profile

### Location

All of the fields on this page are optional and can be deleted at any time, and by filling them out, you're giving us consent to share this data wherever your user profile appears. Please see our [privacy statement](#) to learn more about how we use this information.

## Profile settings

3. Click on **Personal access tokens** and **Generate new token**.

GitHub Apps

OAuth Apps

Personal access tokens

## Personal access tokens

Generate new token Revoke all

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

Last used within the last week

Delete

Expires on *Thu, Feb 10 2022*.

Last used within the last 10 months

Delete

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

4. Give your token a descriptive name. To give your token an expiration, select the Expiration drop-down menu, then click a default or use the calendar picker. Select the scopes, or permissions, you'd like to grant this token. To use your token to access repositories from the command line, select repo.

GitHub Apps

OAuth Apps

Personal access tokens

## New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

Note

ibm-course

What's this token for?

Expiration \*

30 days

The token will expire on Wed, Feb 16 2022

Select scopes

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

☒ repo

Full control of private repositories

☒ repo:status

Access commit status

☒ repo\_deployment

Access deployment status

☒ public\_repo

Access public repositories

☒ repo:invite

Access repository invitations

☒ security\_events

Read and write security events

☐ workflow

Update GitHub Action workflows

☐ write:packages

Upload packages to GitHub Package Registry

☐ read:packages

Download packages from GitHub Package Registry

☐ delete:packages

Delete packages from GitHub Package Registry

☐ admin:org

Full control of orgs and teams, read and write org projects

☐ write:org

Read and write org and team membership, read and write org projects

☐ read:org

Read org and team membership, read org projects

☐ admin:public\_key

Full control of user public keys

☐ write:public\_key

Write user public keys

☐ read:public\_key

Read user public keys

☐ admin:repo\_hook

Full control of repository hooks

☐ write:repo\_hook

Write repository hooks

☐ read:repo\_hook

Read repository hooks

☐ admin:org\_hook

Full control of organization hooks

Generate token

Cancel

5. Copy the personal token somewhere safe. Once you leave this page, you will not be able to see this token again. If you lose the token for any reason, you can generate a new token by following these steps again.

- GitHub Apps
- OAuth Apps
- Personal access tokens

## Personal access tokens

[Generate new token](#) [Revoke all](#)

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

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

✓

Delete