

::page {title="Hands-on Lab: Generate GitHub personal access token"}



Effort : 15 mins

::page {title="Objectives"}

The goal of this lab is the 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.

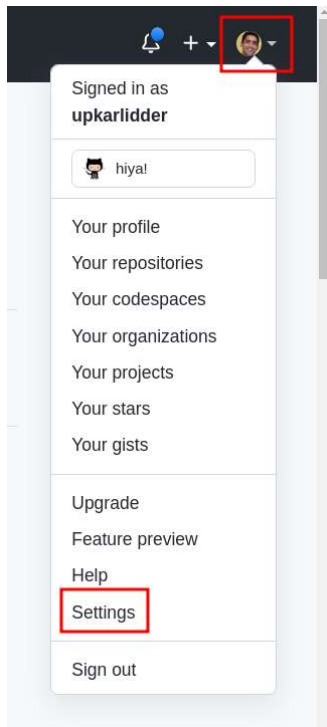
::page {title="Pre-requisites"}

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

::page {title="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

Public profile

Name

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

Public email

 ✕ Remove

You can manage verified email addresses in your [email settings](#).

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.

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.

Update profile

Profile settings



This will display the badge on your public profile page.

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

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.

[Settings](#) / Developer settings

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.](#)

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input type="checkbox"/> repo:status	Access commit status
<input type="checkbox"/> repo_deployment	Access deployment status
<input type="checkbox"/> public_repo	Access public repositories
<input type="checkbox"/> repo:invite	Access repository invitations
<input type="checkbox"/> security_events	Read and write security events
<input type="checkbox"/> workflow	Update GitHub Action workflows
<input type="checkbox"/> write:packages	Upload packages to GitHub Package Registry
<input type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input 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
<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input type="checkbox"/> write:repo_hook	Write repository hooks
<input type="checkbox"/> read:repo_hook	Read repository hooks
<input type="checkbox"/> 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.

[Settings](#) / Developer settings

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