

# **Authentication documentation**

Keep your account and data secure with features like two-factor authentication, SSH, and commit signature verification.



#### Start here

### Generating a new SSH key and adding it to the ssh-agent

After you've checked for existing SSH keys, you can generate a new SSH key to use for authentication, then add it to the ssh-agent.

### Managing your personal access tokens

You can use a personal access token in place of a password when authenticating to GitHub in the command line or with the API.

### **Configuring two-factor authentication**

You can choose among multiple options to add a second source of authentication to your account.

### **Popular**

### **Troubleshooting SSH**

When using SSH to connect and authenticate to GitHub Enterprise Server, you may need to troubleshoot unexpected issues that may arise.

### **Checking for existing SSH keys**

Before you generate an SSH key, you can check to see if you have any existing SSH keys.

### Adding a new SSH key to your GitHub account

To configure your account on your GitHub Enterprise Server instance to use your new (or existing) SSH key, you'll also need to add the key to your account.

### Displaying verification statuses for all of your commits

You can enable vigilant mode for commit signature verification to mark all of your commits and tags with a signature verification status.

What's new View all →

### Changes to token permission on packages

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## Guides &

# Recovering your account if you lose your 2FA credentials

If you lose access to your two-factor authentication credentials, you can use your recovery codes, or another recovery option, to regain access to your account.

@GitHub

# **Error: Permission denied (publickey)**

A "Permission denied" error means that the server rejected your connection. There could be several reasons why, and the most common examples are explained below.

@GitHub

# Creating a strong password

Secure your account on your GitHub Enterprise Server instance with a strong and unique password using a password manager.

@GitHub

# All Authentication docs @

### Keeping your account and data secure

About authentication to GitHub

Creating a strong password

Updating your GitHub access credentials

Managing your personal access tokens

Reviewing your SSH keys

Reviewing your deploy keys

Token expiration and revocation

Reviewing your security log

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Viewing and managing your sessions

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Configuring two-factor authentication recovery methods

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Recovering your account if you lose your 2FA credentials

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Adding a new SSH key to your GitHub account

**Testing your SSH connection** 

Working with SSH key passphrases

### **Troubleshooting SSH**

Recovering your SSH key passphrase

Error: Permission denied (publickey)

Error: Bad file number

Error: Key already in use

Error: Permission to user/repo denied to other-user

Error: Permission to user/repo denied to user/other-repo

Error: Agent admitted failure to sign

Error: ssh-add: illegal option -- apple-use-keychain

Error: Unknown key type

Error: We're doing an SSH key audit

## **Managing commit signature verification**

About commit signature verification

Displaying verification statuses for all of your commits

Checking for existing GPG keys

Generating a new GPG key

Adding a GPG key to your GitHub account

Telling Git about your signing key

Associating an email with your GPG key

Signing commits

Signing tags

### **Troubleshooting commit signature verification**

Checking your commit and tag signature verification status

Using a verified email address in your GPG key

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