# [Review] Working with GitLab Personal Access Tokens (PAT) in devNext

Last edited by **SMOHANA1** 1 year ago

#### **Overview**

This document explains what a GitLab Personal Access Token (PAT) is and provides guidance on how to configure and use PATs with devNext. It is applicable for both Continuous Integration (CI) workflows using jenkins and general developer workflows. The document also includes the necessary commands to enable and disable the PAT configuration.

# Why GitLab Personal Access Token (PAT)?

A GitLab Personal Access Token (PAT) is a secure way to authenticate with GitLab and access API. It acts as a replacement for username-passwords and OAuth tokens, offering a higher level of security and control. PATs are used for authenticating API requests and accessing GitLab repositories.

# **Advantages of Using PATs**

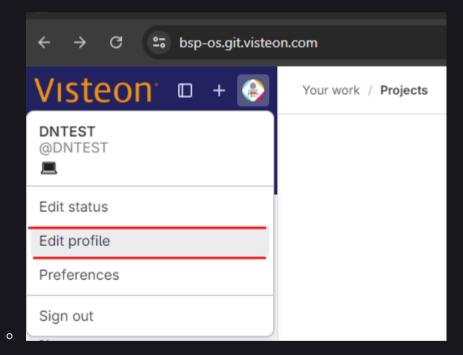
- Enhanced Security: PATs can be scoped to limit access to specific resources.
- Revocability: PATs can be easily revoked if compromised.
- Ease of Use: They simplify the processes of automation and integration by providing an easy way to authenticate without the need for username and password.

### **Using PAT with devNext**

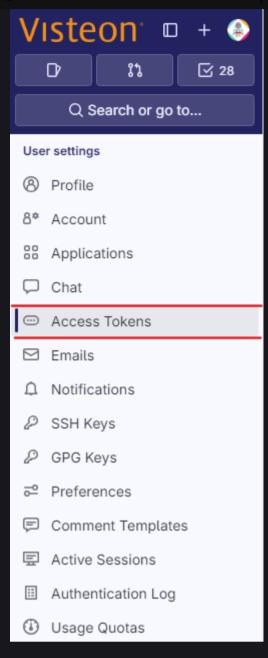
When working with devNext, having a PAT allows you to authenticate and interact with GitLab repositories securely. Follow the steps below to enable and configure PAT for devNext.

# **Enabling PAT for devNext**

- 1. **Generate a PAT**: First, generate a PAT in GitLab with the necessary scopes. Follow the GitLab documentation to create a PAT: <u>Creating a personal access token</u>.
  - Login to the server
  - on the left sidebar, select your avatar
  - select Edit Profile



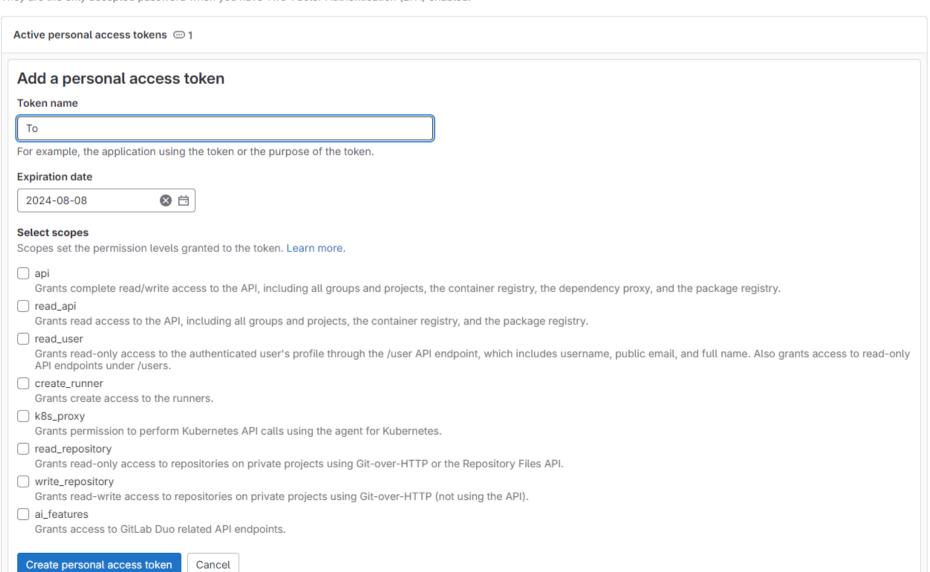
o On the left sidebar, select Access Tokens.



- Select Add new token.
- Enter a name and expiry date for the token.
  - The token expires on that date at midnight UTC.
  - If you do not enter an expiry date, the expiry date is automatically set to 365 days later than the current date.
  - By default, this date can be a maximum of 365 days later than the current date.

### Personal Access Tokens

You can generate a personal access token for each application you use that needs access to the GitLab API. You can also use personal access tokens to authenticate against Git over HTTP. They are the only accepted password when you have Two-Factor Authentication (2FA) enabled.



- Select the <u>desired scopes</u>.
- Select Create personal access token.
- Save the personal access token safe. After you leave the page, you no longer have access to the token.
- 2. **Configure netrc to Use PAT**: Once you have your PAT (Personal Access Token), You need to write it as your machine credential in the netrc file.

  Refer to the document for detailed instructions on how to write machine credentials in netrc and this will be used by devNext to access the GitLab resources.

**Example** Here, the user devNext and their PAT configuration for the servers are shown below:

- Syntax: machine {hostname} login {username} password {your-password}
- Example my server url <a href="https://bsp-os.git.visteon.com">https://bsp-os.git.visteon.com</a> and user cdsid is devNext
- o machine bsp-os.git.visteon.com login devNext password <PAT\_HERE>

```
machine git.visteon.com login devNext password git-vist-1862e6sfdvs2vesdty machine eu.git.visteon.com login devNext password eu-simxiwozarxknair machine blr.git.visteon.com login devNext password blr-git-suenzsin23sinsixnw9 machine jlr.git.visteon.com login devNext password glpat-82kwcseni9sne9wn9 machine bsp-os.git.visteon.com login devNext password bsp-os-1dAESYMGo6XdsZshJzzv machine rtc-proj.git.visteon.com login devNext password rtc-proj-zrunixmwuzp1894ssd
```

# Command to Enable PAT for devNext

```
git config --global devnext.auth PAT
```

This command sets the devNext.auth configuration to use your PAT, allowing devNext to access the GitLab resources using the PAT for operations like configure workspace, gitfetch and gitupdate.

### **Command to Unset PAT Configuration for devNext**

```
git config --global --unset devnext.auth
```

This command removes the devnext.auth configuration, stopping devNext from using the PAT for authentication.

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Support: If you've any Queries w.r.t above mentioned steps, please reach out to <a> devNext.support@visteon.com</a>