# 2 Factor Authentication - Bitbucket Personal Access Token Use

Once 2 factor authentication has been enabled for Bitbucket you will need to use a Personal Access Token for GIT commands. (Cloning Repository, Pushing Commits, Pulling new code to local) (git clone, git push, git commit, git pull, etc)

Steps to create Personal Access Token in bitbucket:

1. Within Bitbucket in the top right hand corner click on your account icon and click Manage Account.
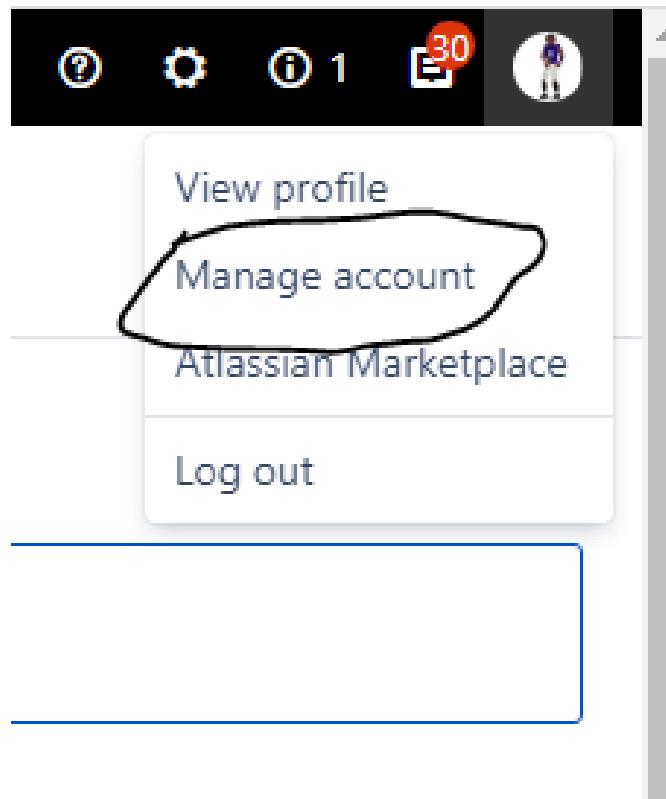
2. Inside of manage account settings click on Personal Access Tokens Create Token

Account
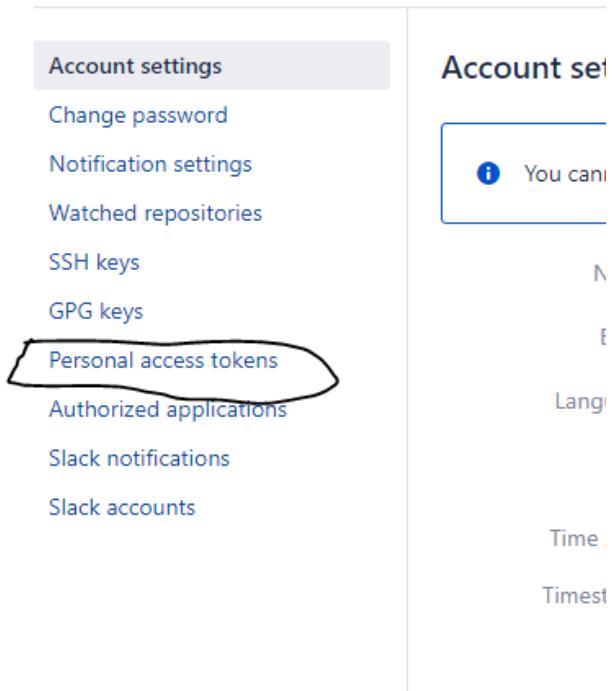
Account settings

Change password

Notification settings

Watched repositories

SSH keys

GPG keys

Personal access tokens

Authorized applications

Slack notifications

Slack accounts

Account se

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Time

Timest

3. Create Token:

Create a personal access token

Use personal access tokens in place of passwords for Git over HTTPS, or to authenticate when using the Bitbucket Server REST API. Learn more.

Token details

Token name | Test Token

Permissions

Tokens are like another password, so their permissions will default to the level of access you have. Because of this, it is recommended that you restrict the token's permission to the level it will need.

Projects | Read

Repositories | Read (inherited)

This personal access token will allow the supplied third-party application to:

✅ Pull and clone repositories

Expiry

For added security, you can set this token to automatically expire. If you set an expiry date, you won't be able to edit it once you've created the token.

Automatic expiry | ● No

○ Yes

Days until expiry |

Create Cancel

4. Now that you created your personal access token, instead of using username/password you will now have to use "username/personal access token"

i.e: Instead of entering in password for username@coderepo.mobilehealth.va.gov you will enter in your personal access token.
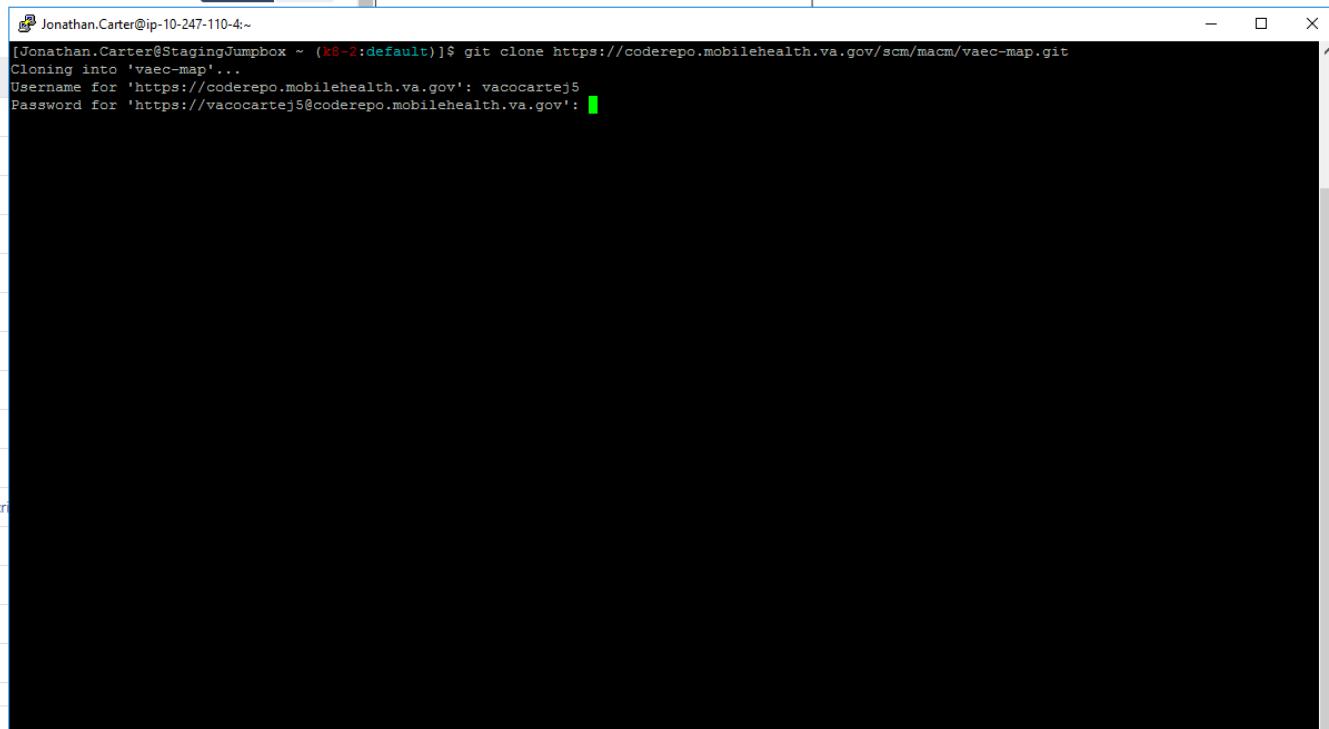
```
[Jonathan.Carter@StagingJumpbox ~ (k8-2:default)]$ git clone https://coderepo.mobilehealth.va.gov/scm/macm/vaec-map.git
Cloning into 'vaec-map'...
Username for 'https://coderepo.mobilehealth.va.gov': vacocartej5
Password for 'https://vacocartej5@coderepo.mobilehealth.va.gov':
```