How to fix Git always asking for user credentials

Last edited by **SMOHANA1** 7 months ago

When we are using repo or git tool and if you have large number of repos or submodules - the tool keep asking for user credentials. In order to avoid asking the credentials there are few possible approaches. We have detailed those approaches below. Pl. choose as the approach as appropriate for you.

Below are the different Approaches to store Your Credentials.

Approach 1: Using Environment Variables: - Linux/WSL/GitBash Only

You can make use of Credentials Helpers to take the credentials from the environment Variables

Steps:

1. Download the file 📎 `gitCreds.sh` in the user home.
2. Make sure you have git installed and is in the Environment Variables Path.
3. Run the Command " `git config --global credential.helper '!$HOME/gitCreds.sh'` "
4. Make sure you set the **GIT_UNAME** and **GIT_PASS** variables in the environment before you start the `gitfetch`. or you can use `~/.bashrc` to store the environment variables.

```
export GIT_UNAME={CDSID}
export GIT_PASS={NetworkPassword}
```

Note: If the environment variables are not set it'll take empty spaces as username/password results in invalid credentials error

Approach 2: Using Personal Access Token (PAT) in .netrc/_netrc

Having a Personal Access Token (PAT) allows you to authenticate and interact with GitLab repositories securely. Follow the steps below to enable and configure PAT.

Note: Use this method if you have `2-Factor Authentication (2FA) enabled` .

Enabling PAT for devNext

1. **Set git config**: `git config --global devnext.auth PAT`
2. **Generate a PAT**: First, generate a PAT in GitLab with the necessary scopes. Follow the GitLab documentation to create a PAT: [Creating a personal access token](Recommended to opt all the scopes in PAT).
3. **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.
   Steps:

- Run `vi ~/.netrc` - if Linux/WSL **or** Run `notepad %USERPROFILE%/_netrc` - if Windows
- Insert " `machine {hostname} login {username} password {PAT}` "
  Eg:

```
    machine bsp-os.git.visteon.com login devNextAdmin password bsp-os-dfsdfsdxewerj823r
    machine eu.git.visteon.com login devNextAdmin password eu-git-drxwmitni23ni34
```

- .netrc supports Multiple machine details saved in the file.
- Save the file and exit

You can use `devNext --help` or `devNext <command> --help` for more options/help.

❓ **Support:** If you've any Queries w.r.t above mentioned steps, please reach out to 📧 devNext.support@visteon.com