Setting Up GitHub Credential Manager on Ubuntu

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Managing GitHub credentials securely is crucial for seamless integration and security. GitHub Credential Manager helps you securely store and manage your GitHub credentials, preventing you from having to enter your username and password each time you interact with GitHub.

In this blog post, we will walk through the steps to install and configure GitHub Credential Manager on Ubuntu.

- A machine running Ubuntu.
- Git installed on your system (if not installed already).

Install Git

Before you can set up GitHub Credential Manager, you must have Git installed on your system.

Update your package list:

```
sudo apt
```

Install Git:

```
sudo apt- install git
```

Verify the installation:

```
git
```

This should output the installed version of Git, confirming it is set up correctly.

Download GitHub Credential Manager

Next, we need to download the GitHub Credential Manager for Linux. At the time of writing, the latest release is `gcm-linux_amd64.2.0.935.deb`.

Download the latest `.deb` package from the official GitHub release page. You can also use `wget` to download directly:

```
wget https://github.com/GitCredentialManager/git-credential-
manager/releases/download/v2.0.935/gcm-linux_amd64.2.0.935.deb
```

Once the download is complete, navigate to the directory where the file is located. For example:

```
 ~/Downloads
```

Install GitHub Credential Manager

With the `.deb` file downloaded, you can now install GitHub Credential Manager using `dpkg`:

Run the following command to install the package:

```
sudo dpkg - gcm-linux_amd64..
```

If any dependencies are missing, you can fix them by running:

```
sudo apt  install
```

This ensures that GitHub Credential Manager is successfully installed on your system.

Configure GitHub Credential Manager

Once installed, you need to configure GitHub Credential Manager so that it securely stores your credentials using the system's secret service.

Set up the credential manager:

```
git-credential-manager configure
```

Now, configure Git to use the credential manager by setting the `credentialStore` to `secretservice`:

```
git
```

This command ensures that your credentials are stored securely using the secret service on Linux.

Use GitHub Credential Manager

Now that GitHub Credential Manager is set up and configured, it will securely store your credentials the first time you enter them.

When you interact with GitHub (e.g., pushing or pulling code), GitHub Credential Manager will prompt you for your GitHub credentials once and store them securely. After that, it will automatically use your stored credentials in subsequent Git operations.

To check if your credentials are being managed, try cloning a repository from GitHub:

```
git  https://github.com/username/repository.git
```

When prompted for credentials, enter them, and GitHub Credential Manager will save them securely for future use.

Conclusion

By following these steps, you have now installed and configured GitHub Credential Manager on Ubuntu, ensuring secure management of your GitHub credentials. This will streamline your Git operations by automatically using saved credentials while keeping them secure.