Gitea Server Setup

Last updated by | Shakibe Hasan | Jul 18, 2023 at 12:16 PM GMT+6

To Setup gitea server belows app must be installed:

- **Wget** - to install wget, command will be `sudo apt install wget`
- **Git** - to install git, command will be `sudo apt install git`
- **MariaDB server** - to install MariaDB server, `sudo apt install mariadb-server`

Now,

- **Create Gitea Database**
  To create Gitea Database, we will first need to login to MariaDB server with the default username and password using the command: `sudo mysql -u root -p`
  ```
  CREATE DATABASE gitea;
  ```

- Using the following statement to create username and password-
  ```
  GRANT ALL PRIVILEGES ON gitea.* TO 'gitea'@'localhost' IDENTIFIED BY "<Type_Your_Password>";
  FLUSH PRIVILEGES;
  QUIT;
  ```

- **Install Gitea**

  `` `sudo wget -O /usr/local/bin/gitea https://dl.gitea.io/gitea/1.16.7/` ``
  `` `gitea-1.16.7-linux-amd64` ``

- Make the gitea file executable
  ```
  sudo chmod +x /usr/local/bin/gitea
  ```

- Check the Gitea version via below-given command:
  ```
  gitea --version
  ```

- **Add a new user**
  add a new user **git** via the below-mentioned command:

  ```
  sudo adduser --system --shell /bin/bash --gecos 'Git Version Control'
   --group --disabled-password --home /home/git git
  ```

Make some important Gitea's directories using the following command:
```
sudo mkdir -pv /var/lib/gitea/{custom,data,log}
```

Then modify ownership of the above directories through below-given command:
```
sudo chown -Rv git:git /var/lib/gitea
```

fix the correct permission to the Gitea directory through below-mentioned command:
```
sudo chmod -Rv 750 /var/lib/gitea
```

create configuration directory of Gitea in the location "/etc/gitea" using the following command:
```
sudo mkdir -v /etc/gitea
```

replace the user Gitea with root and group with the git in the configuration directory using the below-given command:
```
sudo chown -Rv root:git /etc/gitea
```

allows changing the permission to the configuration directory via following command:
```
sudo chmod -Rv 770 /etc/gitea
```

- Creating Systemd service file
  We will then be required to create a Systemd service file with the name "gitea.service" in the directory location "/etc/system/system/"

  ```
  sudo nano /etc/systemd/system/gitea.service
  ```

  ```
  [Unit]
  Description=Gitea (Git with a cup of tea)
  After=syslog.target
  After=network.target
  After=mysql.service
  After=mariadb.service
  After=postgresql.service
  After=memcached.service
  After=redis.service

  [Service]
  # Modify these two values and uncomment them if you have
  # repos with lots of files and get an HTTP error 500 because
  # of that
  ###
  #LimitMEMLOCK=infinity
  #LimitNOFILE=65535
  RestartSec=2s
  Type=simple
  User=git
  Group=git
  WorkingDirectory=/home/git
  ExecStart=/usr/local/bin/gitea web -c /etc/gitea/app.ini
  Restart=always
  Environment=USER=git HOME=/home/git GITEA_WORK_DIR=/home/git

  [Install]
  WantedBy=multi-user.target
  ```

Now restart the Gitea service through following command:
```
sudo systemctl start gitea
```

check the Gitea status through following command:
```
sudo systemctl status gitea
```

also need to enable the Gitea service through the following command so that the service will automatically start after the reboot.
```
sudo systemctl enable gitea
```

http://127.0.0.1:3000/
The above address will open the Gitea on the browser.

Ref: https://linuxhint.com/install-gitea-ubuntu/