

# Gitea

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2022-03-11

GitHub, BitBucket, GitLab; they are not the only solutions available to share Git repos with your friends and colleagues. I've been playing with Gitea recently, and it's a really cool alternative, written in Go. Here's a quick way to test it.

## Install

You can run the binary or the container, of course, but it's also very easy to install Gitea in Minikube:

```
$ minikube start --addons=ingress
$ helm repo add gitea-charts https://dl.gitea.io/charts/
$ helm install gitea gitea-charts/gitea
```

Create and apply a quick ingress for it:

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: gitea-ingress
  labels:
    app: gitea-ingress
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: /
    kubernetes.io/ingress.class: nginx
spec:
  rules:
    - http:
        paths:
          - path: /
            pathType: Prefix
            backend:
              service:
                name: gitea-http
                port:
                  number: 3000
```

After install, proceed as follows:

1. Login as `gitea_admin` (see below) and create a new user.
2. Check the IP of the server using `$ minikube ip`
3. Edit `/etc/hosts` with the line `192.168.49.2 git.example.com` where the IP is the one from above

Here's the default credentials:

- Username: `gitea_admin`
- The default password is in the helm chart: `r8sA8CPHD9!bt6d`

One can also configure Gitea to use LDAP and other authentication mechanisms.

Maybe the biggest drawback of Gitea is that it does not feature a built-in CI/CD pipeline mechanisms. There are some options listed here, for example Drone, Agola, or Woodpecker.

If you're into OpenShift, here's what you need. And here's a tutorial showing how to use GitOps with Gitea and Argo CD on OpenShift.