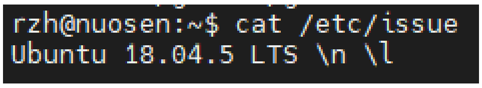
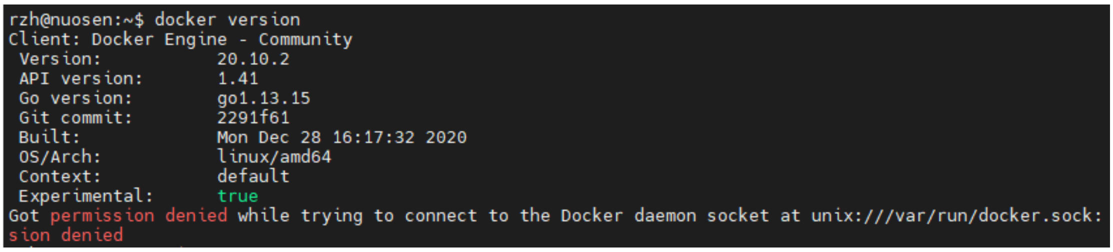
使用 docker 配置 gitlab 方法记录

服务器型号：Ubuntu 18.04.5 LTS



```
rzh@nuosen:~$ cat /etc/issue
Ubuntu 18.04.5 LTS \n \l
```

Docker 版本号：20.10.2（服务器已有）

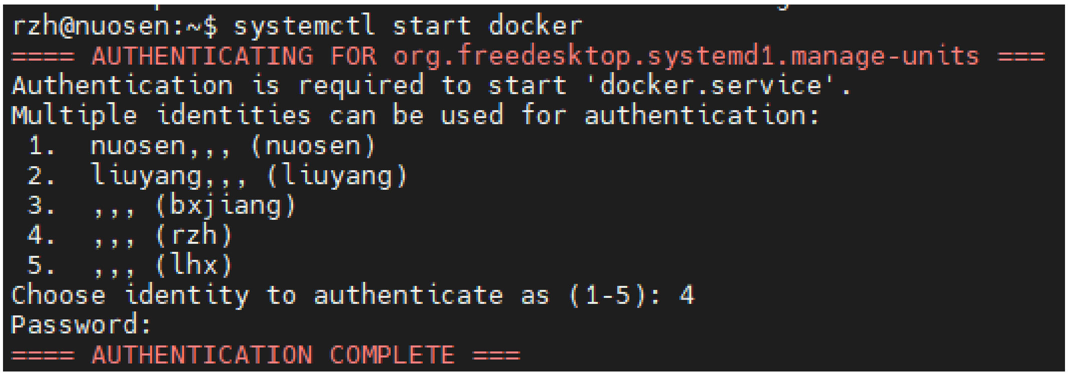


```
rzh@nuosen:~$ docker version
Client: Docker Engine - Community
 Version:           20.10.2
 API version:       1.41
 Go version:        go1.13.15
 Git commit:        2291f61
 Built:             Mon Dec 28 16:17:32 2020
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock:
sion denied
```

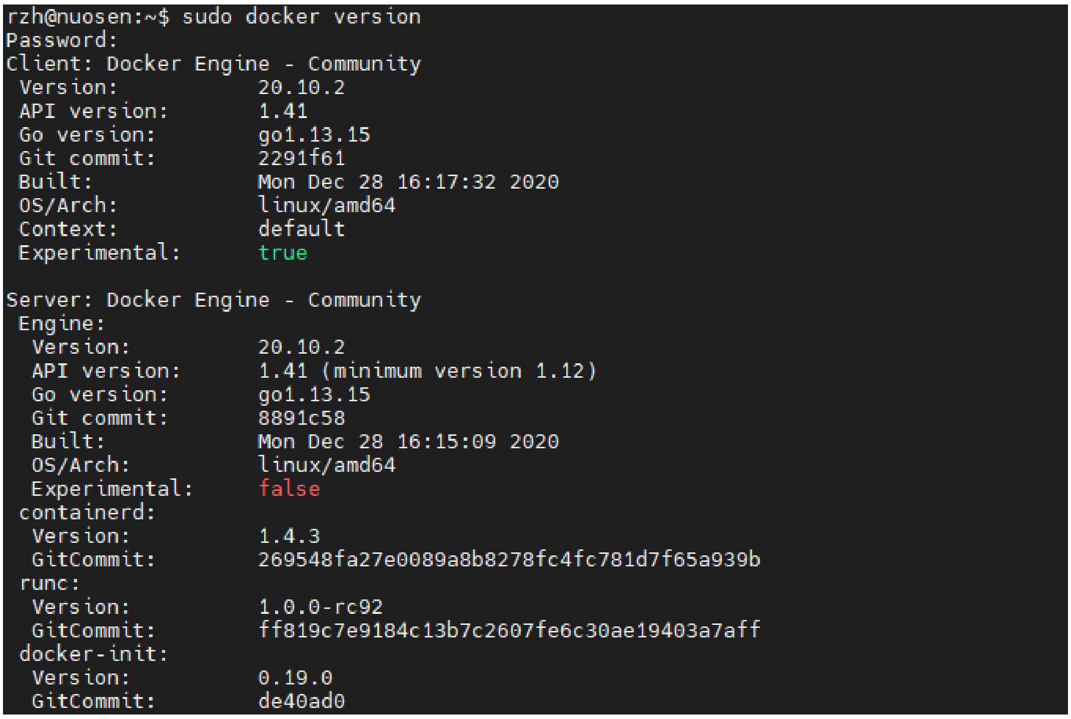
参考文章：

Docker 部署 gitlab(避坑版) https://www.cnblogs.com/liuqingzheng/p/15325288.html

1. 启动 docker　systemctl start docker



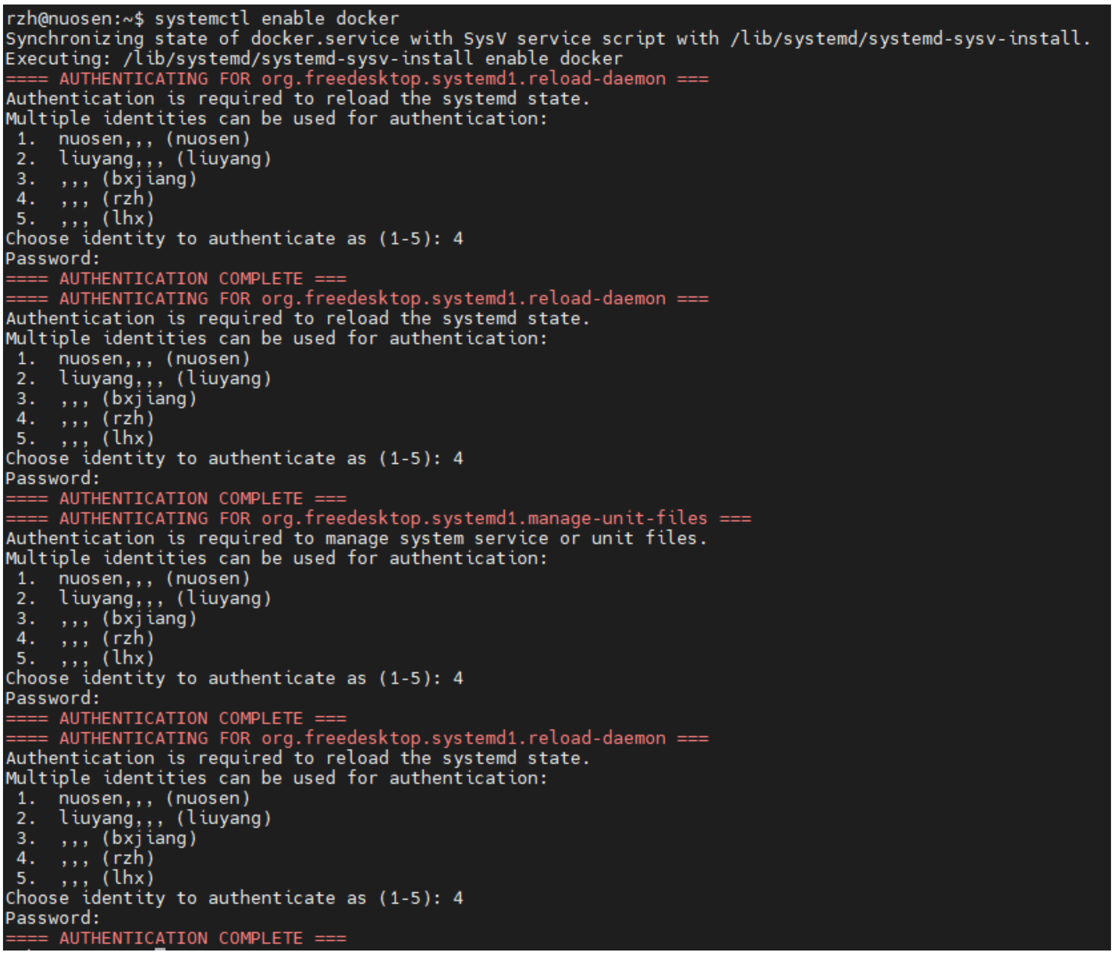
```
rzh@nuosen:~$ systemctl start docker
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ===
Authentication is required to start 'docker.service'.
Multiple identities can be used for authentication:
 1.  nuosen,,, (nuosen)
 2.  liuyang,,, (liuyang)
 3.  ,,, (bxjiang)
 4.  ,,, (rzh)
 5.  ,,, (lhx)
Choose identity to authenticate as (1-5): 4
Password:
==== AUTHENTICATION COMPLETE ===
```



```
rzh@nuosen:~$ sudo docker version
Password:
Client: Docker Engine - Community
 Version:           20.10.2
 API version:       1.41
 Go version:        go1.13.15
 Git commit:        2291f61
 Built:             Mon Dec 28 16:17:32 2020
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true

Server: Docker Engine - Community
 Engine:
  Version:          20.10.2
  API version:      1.41 (minimum version 1.12)
  Go version:       go1.13.15
  Git commit:       8891c58
  Built:            Mon Dec 28 16:15:09 2020
  OS/Arch:          linux/amd64
  Experimental:     false
 containerd:
  Version:          1.4.3
  GitCommit:        269548fa27e0089a8b8278fc4fc781d7f65a939b
 runc:
  Version:          1.0.0-rc92
  GitCommit:        ff819c7e9184c13b7c2607fe6c30ae19403a7aff
 docker-init:
  Version:          0.19.0
  GitCommit:        de40ad0
```

出现 client，server 启动成功

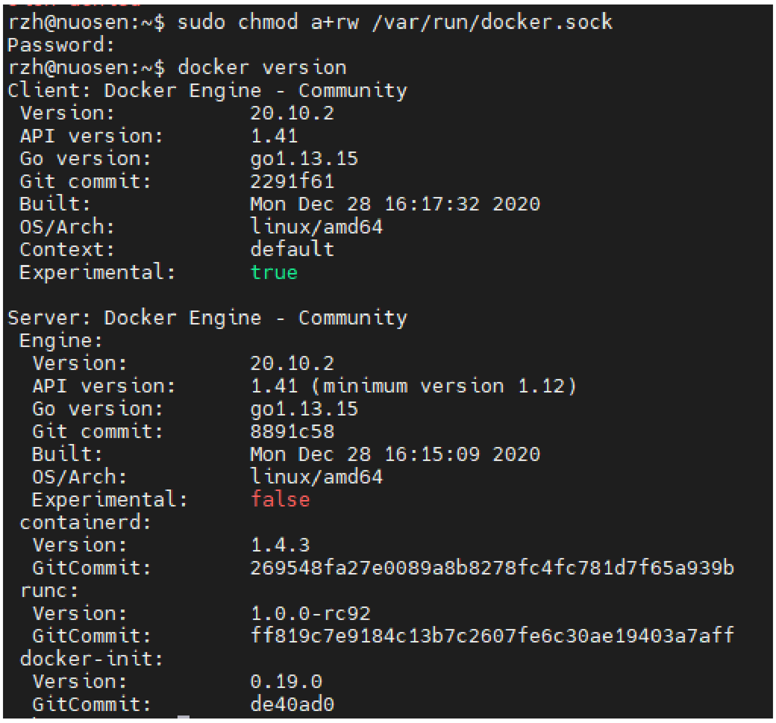
2. 设置开机启动　systemctl enable docker



```
rzh@nuosen:~$ systemctl enable docker
Synchronizing state of docker.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable docker
==== AUTHENTICATING FOR org.freedesktop.systemd1.reload-daemon ===
Authentication is required to reload the systemd state.
Multiple identities can be used for authentication:
 1.  nuosen,,, (nuosen)
 2.  liuyang,,, (liuyang)
 3.  ,,, (bxjiang)
 4.  ,,, (rzh)
 5.  ,,, (lhx)
Choose identity to authenticate as (1-5): 4
Password:
==== AUTHENTICATION COMPLETE ===
==== AUTHENTICATING FOR org.freedesktop.systemd1.reload-daemon ===
Authentication is required to reload the systemd state.
Multiple identities can be used for authentication:
 1.  nuosen,,, (nuosen)
 2.  liuyang,,, (liuyang)
 3.  ,,, (bxjiang)
 4.  ,,, (rzh)
 5.  ,,, (lhx)
Choose identity to authenticate as (1-5): 4
Password:
==== AUTHENTICATION COMPLETE ===
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-unit-files ===
Authentication is required to manage system service or unit files.
Multiple identities can be used for authentication:
 1.  nuosen,,, (nuosen)
 2.  liuyang,,, (liuyang)
 3.  ,,, (bxjiang)
 4.  ,,, (rzh)
 5.  ,,, (lhx)
Choose identity to authenticate as (1-5): 4
Password:
==== AUTHENTICATION COMPLETE ===
==== AUTHENTICATING FOR org.freedesktop.systemd1.reload-daemon ===
Authentication is required to reload the systemd state.
Multiple identities can be used for authentication:
 1.  nuosen,,, (nuosen)
 2.  liuyang,,, (liuyang)
 3.  ,,, (bxjiang)
 4.  ,,, (rzh)
 5.  ,,, (lhx)
Choose identity to authenticate as (1-5): 4
Password:
==== AUTHENTICATION COMPLETE ===
```

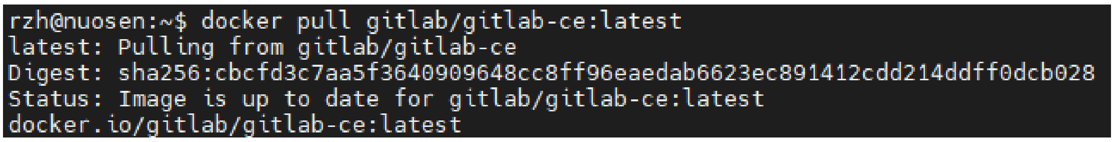
解决每次使用 docker 输入 sudo 问题

sudo chmod a+rw /var/run/docker.sock



```
rzh@nuosen:~$ sudo chmod a+rw /var/run/docker.sock
Password:
rzh@nuosen:~$ docker version
Client: Docker Engine - Community
 Version:           20.10.2
 API version:       1.41
 Go version:        go1.13.15
 Git commit:        2291f61
 Built:             Mon Dec 28 16:17:32 2020
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true

Server: Docker Engine - Community
 Engine:
  Version:          20.10.2
  API version:      1.41 (minimum version 1.12)
  Go version:       go1.13.15
  Git commit:       8891c58
  Built:            Mon Dec 28 16:15:09 2020
  OS/Arch:          linux/amd64
  Experimental:     false
 containerd:
  Version:          1.4.3
  GitCommit:        269548fa27e0089a8b8278fc4fc781d7f65a939b
 runc:
  Version:          1.0.0-rc92
  GitCommit:        ff819c7e9184c13b7c2607fe6c30ae19403a7aff
 docker-init:
  Version:          0.19.0
  GitCommit:        de40ad0
```

3. 下载 gitlab 镜像 docker pull gitlab/gitlab-ce:latest



```
rzh@nuosen:~$ docker pull gitlab/gitlab-ce:latest
latest: Pulling from gitlab/gitlab-ce
Digest: sha256:cbcfd3c7aa5f3640909648cc8ff96eaedab6623ec891412cdd214ddff0dcb028
Status: Image is up to date for gitlab/gitlab-ce:latest
docker.io/gitlab/gitlab-ce:latest
```

4. 运行

docker run -id -p 9980:80 -p 9922:22 -v /home/rzh/gitlab/etc:/etc/gitlab -v /home/rzh/gitlab/log:/var/log/gitlab -v /home/rzh/gitlab/opt:/var/opt/gitlab --restart always --privileged=true --name gitlab gitlab/gitlab-ce

命令解释：

-i 以交互模式运行容器，通常与 -t 同时使用命令解释：

-d 后台运行容器，并返回容器 ID

-p 9980:80 将容器内 80 端口映射至宿主机 9980 端口，这是访问 gitlab 的端口

-p 9922:22 将容器内 22 端口映射至宿主机 9922 端口，这是访问 ssh 的端口

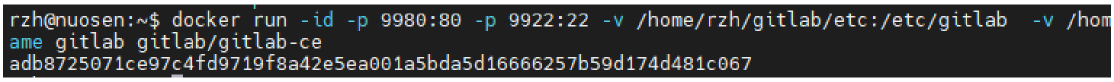
-v ./gitlab/etc:/etc/gitlab 将容器/etc/gitlab 目录挂载到宿主机./gitlab/etc 目录下，若宿主机内此目录不存在将会自动创建，其他两个挂载同这个一样

--restart always 容器自启动

--privileged=true 让容器获取宿主机 root 权限

--name gitlab-test 设置容器名称为 gitlab

gitlab/gitlab-ce 镜像的名称，这里也可以写镜像 ID

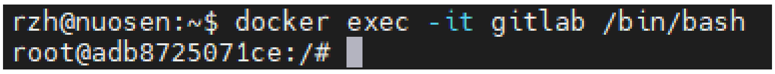


```
rzh@nuosen:~$ docker run -id -p 9980:80 -p 9922:22 -v /home/rzh/gitlab/etc:/etc/gitlab  -v /hom
ame gitlab gitlab/gitlab-ce
adb8725071ce97c4fd9719f8a42e5ea001a5bda5d16666257b59d174d481c067
```

5. 进入容器内部修改

（1）进入容器

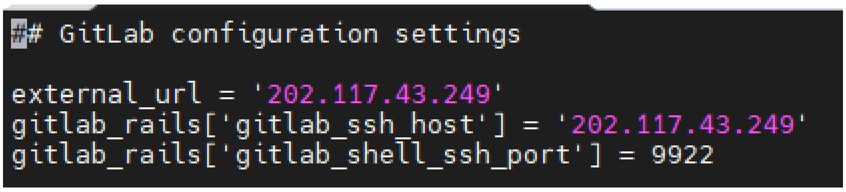
docker exec -it gitlab /bin/bash



```
rzh@nuosen:~$ docker exec -it gitlab /bin/bash
root@adb8725071ce:/#
```

（2）修改 gitlab.rb

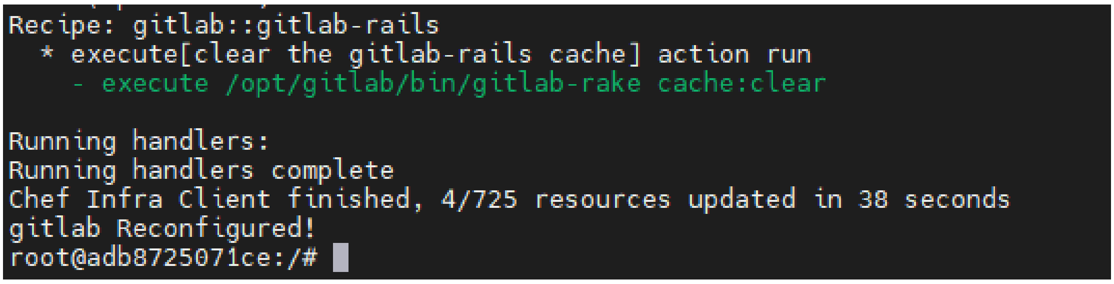
vi /etc/gitlab/gitlab.rb



```
## GitLab configuration settings

external_url = '202.117.43.249'
gitlab_rails['gitlab_ssh_host'] = '202.117.43.249'
gitlab_rails['gitlab_shell_ssh_port'] = 9922
```

（3）让配置生效

gitlab-ctl reconfigure



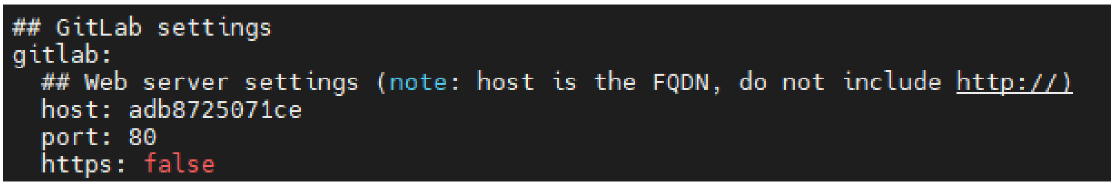
```
Recipe: gitlab::gitlab-rails
  * execute[clear the gitlab-rails cache] action run
    - execute /opt/gitlab/bin/gitlab-rake cache:clear

Running handlers:
Running handlers complete
Chef Infra Client finished, 4/725 resources updated in 38 seconds
gitlab Reconfigured!
root@adb8725071ce:/#
```

GitLab 报 External URL must include a FQDN 错误

将 external_url 'xxx' 改成 external_url = 'xxx' 即可

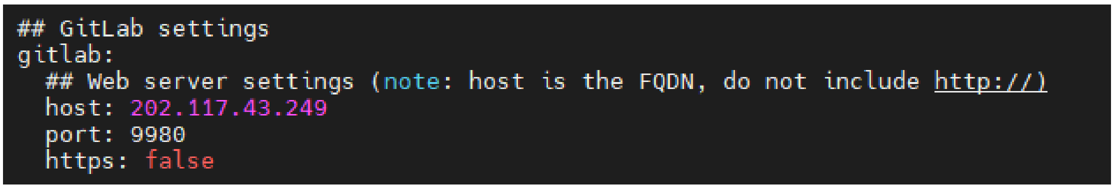
（4）修改 http 和 ssh 配置

vi /opt/gitlab/embedded/service/gitlab-rails/config/gitlab.yml



```
## GitLab settings
gitlab:
  ## Web server settings (note: host is the FQDN, do not include http://)
  host: adb8725071ce
  port: 80
  https: false
```

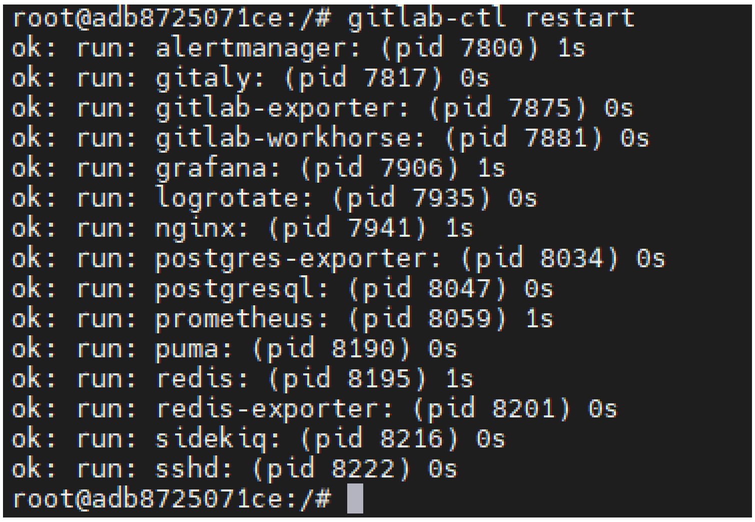
改为：



```
## GitLab settings
gitlab:
  ## Web server settings (note: host is the FQDN, do not include http://)
  host: 202.117.43.249
  port: 9980
  https: false
```

（5）重启

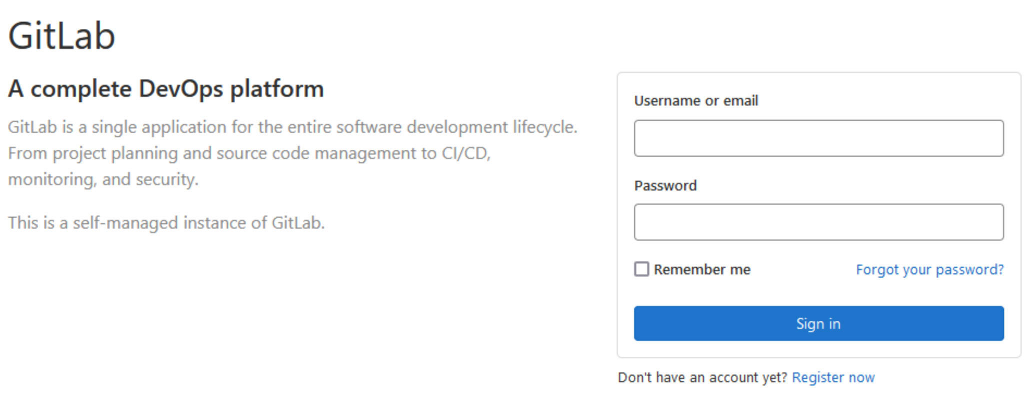
gitlab-ctl restart



```
root@adb8725071ce:/# gitlab-ctl restart
ok: run: alertmanager: (pid 7800) 1s
ok: run: gitaly: (pid 7817) 0s
ok: run: gitlab-exporter: (pid 7875) 0s
ok: run: gitlab-workhorse: (pid 7881) 0s
ok: run: grafana: (pid 7906) 1s
ok: run: logrotate: (pid 7935) 0s
ok: run: nginx: (pid 7941) 1s
ok: run: postgres-exporter: (pid 8034) 0s
ok: run: postgresql: (pid 8047) 0s
ok: run: prometheus: (pid 8059) 1s
ok: run: puma: (pid 8190) 0s
ok: run: redis: (pid 8195) 1s
ok: run: redis-exporter: (pid 8201) 0s
ok: run: sidekiq: (pid 8216) 0s
ok: run: sshd: (pid 8222) 0s
root@adb8725071ce:/#
```

（6）退出容器 exit

6. 浏览器访问 http://202.117.43.249:9980



GitLab

A complete DevOps platform

GitLab is a single application for the entire software development lifecycle. From project planning and source code management to CI/CD, monitoring, and security.

This is a self-managed instance of GitLab.

成功！！！