Gitlab

Docker Compose

- `mkdir -p /data/docker/gitlab/gitlab /data/docker/gitlab/redis /data/docker/gitlab/postgresql`
- `chown -R 777 /data/docker/gitlab/gitlab /data/docker/gitlab/redis /data/docker/gitlab/postgresql`
- docker-compose docker-compose.yml

```
gitlab:
  image: sameersbn/gitlab:10.4.2-1
  ports:
    - "10022:22"
    - "10080:80"
  links:
    - gitlab-redis:redisio
    - gitlab-postgresql:postgresql
  environment:
    - GITLAB_PORT=80
    - GITLAB_SSH_PORT=22
    - GITLAB_SECRETS_DB_KEY_BASE=long-and-random-alpha-numeric-string
    - GITLAB_SECRETS_SECRET_KEY_BASE=long-and-random-alpha-numeric-string
    - GITLAB_SECRETS_OTP_KEY_BASE=long-and-random-alpha-numeric-string
  volumes:
    - /data/docker/gitlab/gitlab:/home/git/data
  restart: always
gitlab-redis:
  image: sameersbn/redis
  volumes:
    - /data/docker/gitlab/redis:/var/lib/redis
  restart: always
gitlab-postgresql:
  image: sameersbn/postgresql:9.6-2
  environment:
    - DB_NAME=gitlabhq_production
    - DB_USER=gitlab
    - DB_PASS=password
    - DB_EXTENSION=pg_trgm
```

```
  volumes:
    - /data/docker/gitlab/postgresql:/var/lib/postgresql
  restart: always
```

- `docker-compose up -d`
- http://192.168.0.105:10080

Gitlab High Availability

- https://about.gitlab.com/high-availability/
- Gitlab nginx

- 4G
- https://about.gitlab.com/products/
- https://about.gitlab.com/
- https://www.gitlab.com.cn/
- https://about.gitlab.com/downloads/
- https://about.gitlab.com/installation/#centos-7
-
  - https://mirror.tuna.tsinghua.edu.cn/help/gitlab-ce/
- https://ken.io/note/centos7-gitlab-install-tutorial

```
sudo yum install -y curl policycoreutils-python openssh-server

sudo systemctl enable sshd
sudo systemctl start sshd

curl https://packages.gitlab.com/install/repositories/gitlab/gitlab-ce/script.rpm.sh | sudo bash
sudo EXTERNAL_URL="http://192.168.1.123:8181" yum install -y gitlab-ce
```

- / IP
  - `sudo vim /etc/gitlab/gitlab.rb`
  - 1`external_url 'http://gitlab.example.com'` / IP
  - `sudo gitlab-ctl reconfigure`
  - `sudo gitlab-ctl start`
  - `sudo gitlab-ctl stop`
  - `sudo gitlab-ctl restart`
- `http://192.168.1.111:80`

- `root` root gitlab123456 8
- root RESTful
  - http://192.168.1.111/admin/users
  - http://192.168.1.111/admin/groups
  - http://192.168.1.111/admin/projects
  - SSH Keys http://192.168.1.111/profile/keys
  - http://192.168.1.111/admin/users/ /edit
-
  -
  - SSH Keys http://192.168.1.111/profile/keys

Jenkins

- Gitlab Access Token http://192.168.0.105:10080/profile/personal_access_tokens
  - Name
  - A `Access the authenticated user's API`
  - Create personal access tok `wt93jQzA8yu5a6pfsk3s` Jenkinsfile
- Jenkins http://192.168.0.105:18080/pluginManager/available
  - Gitlab hpi
  - Gitlab Hook GitLab WebHooks
  - Gitlab Authentication GitLab
- Jenkins Jenkins-->Credentials-->System-->Global credentials(unrestricted)-->Add Credentials
  - http://192.168.0.105:18080/credentials/store/system/domain/_/newCredentials
  - kind `GitLab API token`
  - token access token
  - ID Gitlab

- http://192.168.1.111/help/user/permissions

- `Guest Reporter Developer Master Owner`
- `Add user(s) to the group` http://192.168.1.111/admin/groups/

	Guest	Reporter	Developer	Master	Owner
	✓	✓	✓	✓	✓
					✓
				✓	✓
					✓
					✓

- `Guest Reporter Developer Master Owner`
  - `Guest`
  - `Reporter` ; issue
  - `Developer` ;
  - `Master` ; Master
  - `Owner` ;
- `Members` http://192.168.1.111/ / /settings/members

	Guest	Reporter	Developer	Master	Owner
issue	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
		✓	✓	✓	✓
			✓	✓	✓
			✓	✓	✓
			✓	✓	✓
			✓	✓	✓
			✓	✓	✓
tag			✓	✓	✓
wiki			✓	✓	✓
issue			✓	✓	✓
labels			✓	✓	✓
				✓	✓
				✓	✓
				✓	✓
				✓	✓
/ tag				✓	✓

	Guest	Reporter	Developer	Master	Owner
				✓	✓
deploy keys				✓	✓
hooks				✓	✓
visibility level					✓
namespace					✓
					✓
					✓
					✓

- http://192.168.1.111/ / /settings/members
  - Import http://192.168.1.111/ / /project_members/import

merge

- http://192.168.1.111/ / /settings/repository#
- CI key

Gitlab

- http://119.23.252.150:10080/admin/users/
-

- http://119.23.252.150:10080/groups
- Visibility Level
  - Private The group and its projects can only be viewed by members.
  - Internal Gitlab The group and any internal projects can be viewed by any logg user.
  - Public The group and any public projects can be viewed without any authentication.

- http://119.23.252.150:10080/

SSH keys

- http://119.23.252.150:10080/profile/keys
- http://119.23.252.150:10080/help/ssh/README
- SSH ke `ssh-keygen -t rsa -C "gitnavi@qq.com" -b 4096`

- linux SSH key `cat ~/.ssh/id_rsa.pub` gitlab

Gitlab - Git flow

- Git flow Git
-
  - http://nvie.com/posts/a-successful-git-branching-model/
    - Git-flow https://github.com/nvie/gitflow
    - Git-flow
      - https://www.git-tower.com/learn/git/ebook/cn/command-line/advanced-topics/git-flow
      - https://danielkummer.github.io/git-flow-cheatsheet/index.zh_CN.html
  - http://www.ruanyifeng.com/blog/2015/12/git-workflow.html
  - https://zhangmengpl.gitbooks.io/gitlab-guide/content/whatisgitflow.html
  - http://blog.jobbole.com/76867/
  - http://www.cnblogs.com/cnblogsfans/p/5075073.html
-
  - https://docs.gitlab.com/ce/integration/omniauth.html
  - https://docs.gitlab.com/ce/integration/oauth2_generic.html
  - https://gitlab.com/satorix/omniauth-oauth2-generic#gitlab-config-example
- gitlab gitlab
- gitlab clone gitlab ssh-key
- block_auto_created_users=true false
- `sudo vim /etc/gitlab/gitlab.rb` 309
  - oauth2_generic gem

```
gitlab_rails['omniauth_enabled'] = true
gitlab_rails['omniauth_allow_single_sign_on'] = ['google_oauth2', 'facebook', 'twitter',
'oauth2_generic']
gitlab_rails['omniauth_block_auto_created_users'] = false
gitlab_rails['omniauth_sync_profile_attributes'] = ['email','username']
gitlab_rails['omniauth_external_providers'] = ['google_oauth2', 'facebook', 'twitter',
'oauth2_generic']
gitlab_rails['omniauth_providers'] = [
    {
        "name"=> "google_oauth2",
        "label"=> "Google",
        "app_id"=> "123456",
```

```
        "app_secret"=> "123456",
        "args"=> {
            "access_type"=> 'offline',
            "approval_prompt"=> '123456'
        }
    },
    {
        "name"=> "facebook",
        "label"=> "facebook",
        "app_id"=> "123456",
        "app_secret"=> "123456"
    },
    {
        "name"=> "twitter",
        "label"=> "twitter",
        "app_id"=> "123456",
        "app_secret"=> "123456"
    },
    {
        "name" => "oauth2_generic",
        "app_id" => "123456",
        "app_secret" => "123456",
        "args" => {
          client_options: {
            "site" => "http://sso.cdk8s.com:9090/sso",
            "user_info_url" => "/oauth/userinfo"
          },
          user_response_structure: {
            root_path: ["user_attribute"],
            attributes: {
              "nickname": "username"
            }
          }
        }
    }
]
```

- http://blog.smallmuou.xyz/git/2016/03/11/ Gitlab .html
- https://zhangmengpl.gitbooks.io/gitlab-guide/content/whatisgitflow.html

- https://blog.coderstory.cn/2017/02/01/gitlab/
- https://xuanwo.org/2016/04/13/gitlab-install-intro/
- https://softlns.github.io/2016/11/14/jenkins-gitlab-docker/

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