

CI

- CentOS 7.7
- 8G
 - Gitlab + Redis + Postgresql
 - 4G
 - - Gitlab 10080
 - Nexus + Jenkins + SonarQube + Postgresql
 - 8G
 - - SonarQube 19000
 - Nexus 18081
 - Jenkins 18080

Gitlab + Redis + Postgresql

- 2G
- <https://github.com/sameersbn/docker-gitlab>
- `mkdir -p /data/docker/gitlab/gitlab /data/docker/gitlab/redis /data/docker/gitlab/postgresql`
- `chmod -R 777 /data/docker/gitlab/gitlab /data/docker/gitlab/redis /data/docker/gitlab/postgresql`
- `docker-compose` `docker-compose.yml`

```
version: '2'

services:
  redis:
    restart: always
    image: sameersbn/redis:latest
    command:
      - --loglevel warning
    volumes:
      - /data/docker/gitlab/redis:/var/lib/redis:Z

  postgresql:
    restart: always
    image: sameersbn/postgresql:9.6-2
    volumes:
```

- /data/docker/gitlab/postgresql: /var/lib/postgresql: Z
- environment:
- DB_USER=gitlab
 - DB_PASS=password
 - DB_NAME=gitlabhq_production
 - DB_EXTENSION=pg_trgm

gitlab:

restart: always

image: sameersbn/gitlab:10.4.2-1

depends_on:

- redis
- postgresql

ports:

- "10080: 80"
- "10022: 22"

volumes:

- /data/docker/gitlab/gitlab: /home/git/data: Z

environment:

- DEBUG=false
- DB_ADAPTER=postgresql
- DB_HOST=postgresql
- DB_PORT=5432
- DB_USER=gitlab
- DB_PASS=password
- DB_NAME=gitlabhq_production
- REDIS_HOST=redis
- REDIS_PORT=6379
- TZ=Asia/Shanghai
- GITLAB_TIMEZONE=Beijing
- GITLAB_HTTPS=false
- SSL_SELF_SIGNED=false
- GITLAB_HOST=192.168.0.105
- GITLAB_PORT=10080
- GITLAB_SSH_PORT=10022

- GITLAB_RELATIVE_URL_ROOT=
- GITLAB_SECRETS_DB_KEY_BASE=long-and-random-alphanumeric-string
- GITLAB_SECRETS_SECRET_KEY_BASE=long-and-random-alphanumeric-string
- GITLAB_SECRETS_OTP_KEY_BASE=long-and-random-alphanumeric-string
- GITLAB_ROOT_PASSWORD=
- GITLAB_ROOT_EMAIL=
- GITLAB_NOTIFY_ON_BROKEN_BUILDS=true
- GITLAB_NOTIFY_PUSHER=false
- GITLAB_EMAIL=notifications@example.com
- GITLAB_EMAIL_REPLY_TO=noreply@example.com
- GITLAB_INCOMING_EMAIL_ADDRESS=reply@example.com
- GITLAB_BACKUP_SCHEDULE=daily
- GITLAB_BACKUP_TIME=01:00
- SMTP_ENABLED=false
- SMTP_DOMAIN=www.example.com
- SMTP_HOST=smtp.gmail.com
- SMTP_PORT=587
- SMTP_USER=mailer@example.com
- SMTP_PASS=password
- SMTP_STARTTLS=true
- SMTP_AUTHENTICATION=login
- IMAP_ENABLED=false
- IMAP_HOST=imap.gmail.com
- IMAP_PORT=993
- IMAP_USER=mailer@example.com
- IMAP_PASS=password
- IMAP_SSL=true
- IMAP_STARTTLS=false
- OAUTH_ENABLED=false
- OAUTH_AUTO_SIGN_IN_WITH_PROVIDER=
- OAUTH_ALLOW_SSO=
- OAUTH_BLOCK_AUTO_CREATED_USERS=true
- OAUTH_AUTO_LINK_LDAP_USER=false

- OAUTH_AUTO_LINK_SAML_USER=false
- OAUTH_EXTERNAL_PROVIDERS=
- OAUTH_CAS3_LABEL=cas3
- OAUTH_CAS3_SERVER=
- OAUTH_CAS3_DISABLE_SSL_VERIFICATION=false
- OAUTH_CAS3_LOGIN_URL=/cas/login
- OAUTH_CAS3_VALIDATE_URL=/cas/p3/serviceValidate
- OAUTH_CAS3_LOGOUT_URL=/cas/logout

- OAUTH_GOOGLE_API_KEY=
- OAUTH_GOOGLE_APP_SECRET=
- OAUTH_GOOGLE_RESTRICT_DOMAIN=

- OAUTH_FACEBOOK_API_KEY=
- OAUTH_FACEBOOK_APP_SECRET=

- OAUTH_TWITTER_API_KEY=
- OAUTH_TWITTER_APP_SECRET=

- OAUTH_GITHUB_API_KEY=
- OAUTH_GITHUB_APP_SECRET=
- OAUTH_GITHUB_URL=
- OAUTH_GITHUB_VERIFY_SSL=

- OAUTH_GITLAB_API_KEY=
- OAUTH_GITLAB_APP_SECRET=

- OAUTH_BITBUCKET_API_KEY=
- OAUTH_BITBUCKET_APP_SECRET=

- OAUTH_SAML_ASSERTION_CONSUMER_SERVICE_URL=
- OAUTH_SAML_IDP_CERT_FINGERPRINT=
- OAUTH_SAML_IDP_SSO_TARGET_URL=
- OAUTH_SAML_ISSUER=
- OAUTH_SAML_LABEL="Our SAML Provider"
- OAUTH_SAML_NAME_IDENTIFIER_FORMAT=urn:oasis:names:tc:SAML:2.0:nameid-

format: transient

- OAUTH_SAML_GROUPS_ATTRIBUTE=
- OAUTH_SAML_EXTERNAL_GROUPS=

- OAUTH_SAML_ATTRIBUTE_STATEMENTS_EMAIL=
- OAUTH_SAML_ATTRIBUTE_STATEMENTS_NAME=
- OAUTH_SAML_ATTRIBUTE_STATEMENTS_FIRST_NAME=
- OAUTH_SAML_ATTRIBUTE_STATEMENTS_LAST_NAME=
- OAUTH_CROWD_SERVER_URL=
- OAUTH_CROWD_APP_NAME=
- OAUTH_CROWD_APP_PASSWORD=
- OAUTH_AUTH0_CLIENT_ID=
- OAUTH_AUTH0_CLIENT_SECRET=
- OAUTH_AUTH0_DOMAIN=
- OAUTH_AZURE_API_KEY=
- OAUTH_AZURE_API_SECRET=
- OAUTH_AZURE_TENANT_ID=

- `docker-compose up -d` 2
- http://192.168.0.105:10080/users/sign_in
 - root 8 aa123456
 - SSH key <http://192.168.0.105:10080/profile/keys>
- Gitlab [Gitlab](https://gitlab.com)

Nexus + Jenkins + SonarQube

- 4G
- `mkdir -p /data/docker/ci/nexus /data/docker/ci/jenkins /data/docker/ci/jenkins/lib /data/docker/ci/jenkins/home /data/docker/ci/sonarqube /data/docker/ci/postgresql /data/docker/ci/gatling/results`
- `chmod -R 777 /data/docker/ci/nexus /data/docker/ci/jenkins/lib /data/docker/ci/jenkins/home /data/docker/ci/sonarqube /data/docker/ci/postgresql /data/docker/ci/gatling/results`
- `yml` `sonar` `/opt/sonarqube`
- `docker-compose` `docker-compose.yml`

version: '3'

networks:

prodnetwork:

driver: bridge

services:

sonar db:

image: postgres: 9. 6. 6

restart: always

ports:

- "5433: 5432"

networks:

- prodnetwork

volumes:

- /data/docker/ci/postgresql: /var/lib/postgresql

environment:

- POSTGRES_USER=sonar
- POSTGRES_PASSWORD=sonar

sonar:

image: sonarqube: 6. 7. 1

restart: always

ports:

- "19000: 9000"
- "19092: 9092"

networks:

- prodnetwork

depends_on:

- sonar db

volumes:

- /data/docker/ci/sonarqube/conf: /opt/sonarqube/conf
- /data/docker/ci/sonarqube/data: /opt/sonarqube/data
- /data/docker/ci/sonarqube/extension: /opt/sonarqube/extensions
- /data/docker/ci/sonarqube/bundled-plugins: /opt/sonarqube/lib/bundled-plugins

environment:

- SONARQUBE_JDBC_URL=jdbc: postgresql: //sonar db: 5432/sonar
- SONARQUBE_JDBC_USERNAME=sonar
- SONARQUBE_JDBC_PASSWORD=sonar

nexus:

image: sonatype/nexus3

restart: always

ports:

- "18081: 8081"

networks:

- prodnetwork

volumes:

- /data/docker/ci/nexus: /nexus-data

```
jenkins:
  image: wine6823/jenkins:1.1
  restart: always
  ports:
    - "18080:8080"
  networks:
    - prodnetwork
  volumes:
    - /var/run/docker.sock:/var/run/docker.sock
    - /usr/bin/docker:/usr/bin/docker
    - /etc/localtime:/etc/localtime:ro
    - $HOME/.ssh:/root/.ssh
    - /data/docker/ci/jenkins/lib:/var/lib/jenkins/
    - /data/docker/ci/jenkins/home:/var/jenkins_home
  depends_on:
    - nexus
    - sonar
  environment:
    - NEXUS_PORT=8081
    - SONAR_PORT=9000
    - SONAR_DB_PORT=5432
```

- `docker-compose up -d` 2
- <http://192.168.0.105:19000>
 - `admin`
 - `admin`
 - <http://192.168.0.105:19000/admin/marketplace>
 - <http://192.168.0.105:19000/profiles>
 - `/extension/plugins` FindBugs
 - `${SONAR_HOME}/extension/plugins` sonar
- <https://192.168.0.105:18081>
 - `admin`
 - `admin123`
- <https://192.168.0.105:18080>
 - Jenkins Web UI Unlock Jenkins Administrator password
 - `/var/jenkins_home/secrets/initialAdminPassword` `docker exec -it ci_jenkins_1`
`/bin/bash`
 - `cat /var/jenkins_home/secrets/initialAdminPassword`

Jenkins

- dockerfile .ssh Jenkins
- `cat ~/.ssh/id_rsa.pub` <http://192.168.0.105:10080/profile/keys>
- Jenkinsfile Git URL `ssh://git@192.168.0.105:10022/gitnavi/spring-boot-ci-demo.git`

Jenkins

- <http://192.168.0.105:18080/configureSecurity/>
 - ☐
 - ☐ `Allow anonymous read access`

Gitlab Webhook

- Jenkins <http://192.168.0.105:18080/job/> /configure
 - `Build Triggers` ☐ ☐ ,) Gitlab 112233
- Gitlab <http://192.168.0.105:10080/> / /settings/integrations
 - `URL` `http://192.168.0.105:18080/job/ /build?token=112233`
- <https://blog.csdn.net/ruangong1203/article/details/73065410>

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