

# 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](http://192.168.0.105:10080/users/sign_in)
  - root 8 aa123456
  - SSH key <http://192.168.0.105:10080/profile/keys>
- Gitlab [Gitlab](#)

## 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
- [SonarQube](http://192.168.0.105:19000) `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
- [Nexus](https://192.168.0.105:18081) `https://192.168.0.105:18081`
  - admin
  - admin123
- [Jenkins](https://192.168.0.105:18080) `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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Revision #1

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