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
- Gitlab 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:
```

```
  sonardb:
    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:
      - sonardb
    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://sonardb: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
- Sonar Qube: 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
  - admin
  - admin123
- Jenkins: 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` Gitlab 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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