Jiskefet - Deployment

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Overview

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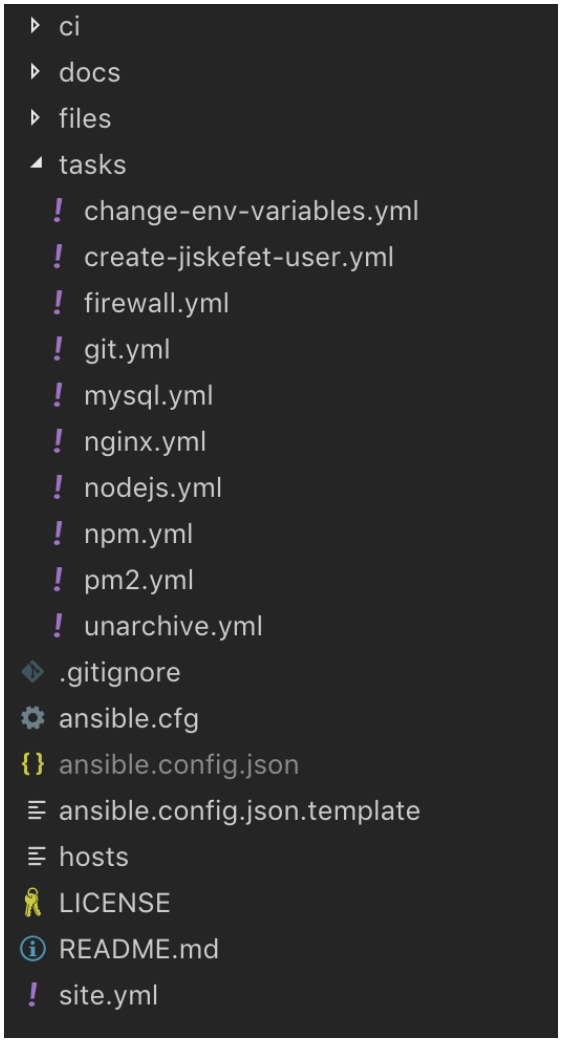
Deployment

- Ansible
  - API
  - UI
  - Database
  - Jenkins CI
- Jenkins CI
  - Linting
  - Testing
  - Codecov

Deployment

Directory Structure Overview



Deployment

Common tasks

path: `site.yml`

```
- name: apply common configuration to all nodes
  hosts: all
  remote_user: root
  tasks:

    # Create jiskefet-api user
    - include: tasks/create-jiskefet-user.yml
```

Deployment

Web server

path: `site.yml`

```yaml
tasks:
  # Install git
  - include: tasks/git.yml
    when: use_local_repository == "no"

  # Unarchive projects
  - include: tasks/unarchive.yml
    when: use_local_repository == "yes"

  # Setting environment variables
  - include: tasks/change-env-variables.yml

  # Install Node.js
  - include: tasks/nodejs.yml

  # Do npm install
  - include: tasks/npm.yml

  # Starts firewalld service
  - include: tasks/firewall.yml

  # Install and run nginx
  - include: tasks/nginx.yml

  # Install and run pm2
  - include: tasks/pm2.yml
```

Deployment

Database server

path: `site.yml`

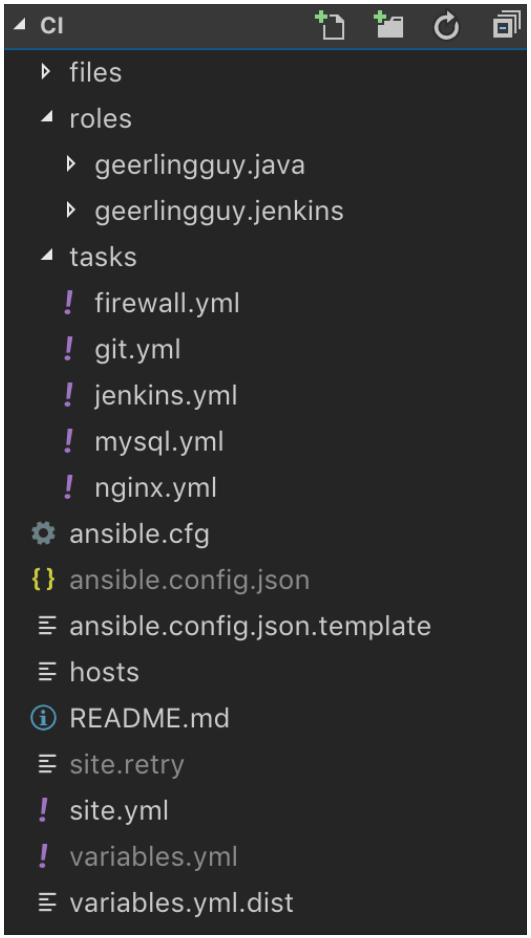
```yaml
tasks:

  # Starts firewalld service
  - include: tasks/firewall.yml

  # Install MySql (MariaDB)
  - include: tasks/mysql.yml
```

Jenkins CI

- Linting
- Testing
  - End to end tests
  - Integration tests
- Codecov

Jenkins CI

Directory Structure Overview



Jenkins CI

Playbook

path: `site.yml`

```yaml
---
- name: Configure CI server
  hosts: ciservers
  remote_user: root
  vars_files:
    - variables.yml
  vars:
    - temp_folder: /tmp
  pre_tasks:
    # Open ports for Jenkins
    - include: tasks/firewall.yml
    - include: ../tasks/create-jiskefet-user.yml
  roles:
    - geerlingguy.jenkins
  tasks:
    # Setup reverse proxy to serve jenkins
    - include: tasks/nginx.yml
    # Configure Jenkins
    - include: tasks/jenkins.yml
    # Install Git
    - include: tasks/git.yml
    # Install Node.js
    - include: ../tasks/nodejs.yml
    # Install MySql (MariaDB)
    - include: tasks/mysql.yml
...
```

Planning

- config/environment variables validation
- reduce the manual steps required to deploy the CI server