

Jiskefet - Deployment

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December 17, 2018

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Planning

- Deployment with Ansible
 - Web server (Back end API & Front end UI)
 - Database server
 - Jenkins CI
- Jenkins CI
 - Linting
 - Testing
 - Codecov

Deployment

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Planning

Directory Structure Overview

```
└─ ci
└─ docs
└─ files
└─ tasks
  │ change-env-variables.yml
  │ create-jiskefet-user.yml
  │ firewall.yml
  │ git.yml
  │ mysql.yml
  │ nginx.yml
  │ nodejs.yml
  │ npm.yml
  │ pm2.yml
  │ unarchive.yml
└─ .gitignore
└─ ansible.cfg
└─ {} ansible.config.json
└─ ansible.config.json.template
└─ hosts
└─ LICENSE
└─ README.md
└─ ! site.yml
```

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Planning

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
```

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Planning

Web server path: site.yml

```
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
```

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Planning

Database server path: site.yml

```
tasks:

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

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

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Planning

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

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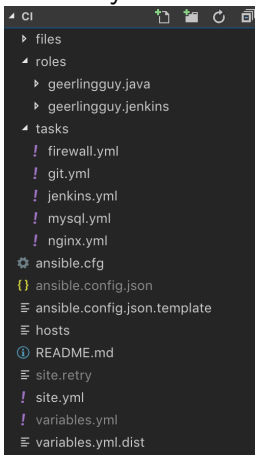
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Directory Structure Overview



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Planning

Playbook

path: site.yml

```
---
- 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
...

```

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Planning

<http://ci-jiskefet.westeurope.cloudapp.azure.com/>

Planning

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Planning

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