

Objective

The objective of to deploy a WordPress application.

Setup

- a. Examine WordPress image on Docker Hub (<https://hub.docker.com>)

Workshop

You operate a SAAS for WordPress applications. When a client sign up, they will do the following:

- provide you with their domain name (eg. www.acme.com)
- select a 'package' that you offer viz. the configuration and services of the installation

Currently you offer only 1 package which consist of the following:

- Configurations
 - Single WordPress replica
 - WordPress content volume size: 1GB
 - Database volume size: 1GB
- Features
 - Tenants (clients) are isolated from each other
 - Ability to retain the WordPress content
 - Database resiliency
 - Prevention of DOS (Denial of Service) attack

Use nip.io to simulate a domain when you are testing your deployment.

You will see the following screens when you have successfully deployed WordPress

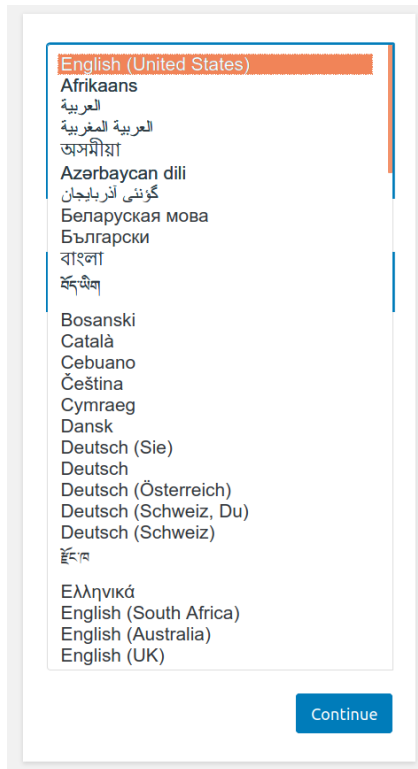


Figure 1 Select Language

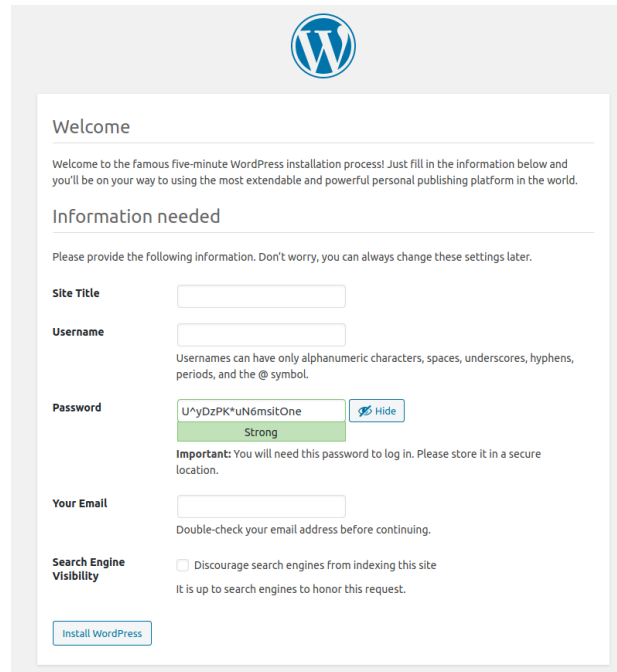


Figure 2 Configure WordPress Site

Optional Workshop

Only attempt this if you have completed the workshop.

- Configurations
 - 2 or more WordPress replicas
- Features
 - Daily database backup

Submission

Create a Git repo for this course if you have not done so. Clone the Git repo. This repo will be used for all the assignment for this course. This should be the same repo as you used for previous workshops.

Email the repo's URL to your instructor. Email will be provided.

Create a directory called `workshop04` inside your repo. Place all the files for this workshop inside `workshop04` directory.

Submit the following files in `workshop04` directory:

- a. Kubernetes deployment and service files
- b. `steps.txt` – list the Kubernetes and Istio commands you used to complete this workshop
- c. Any other files