

CI/CD Pipeline

- Mykhailo Ryzhman -



About me



A few facts about me:

- I am currently a Cybersecurity student at the Lviv Polytechnic.
- I am interested in DevOps and want to improve my professional skills.
- I am a friendly and sociable person. I easily find a common language with people.
- I love doing sports and keeping fit. It helps collect my thoughts.

Motivation

To create my first real CI/CD project and get an understanding of how DevOps tools work. It undoubtedly helped me to improve my professional skills.



Relevance

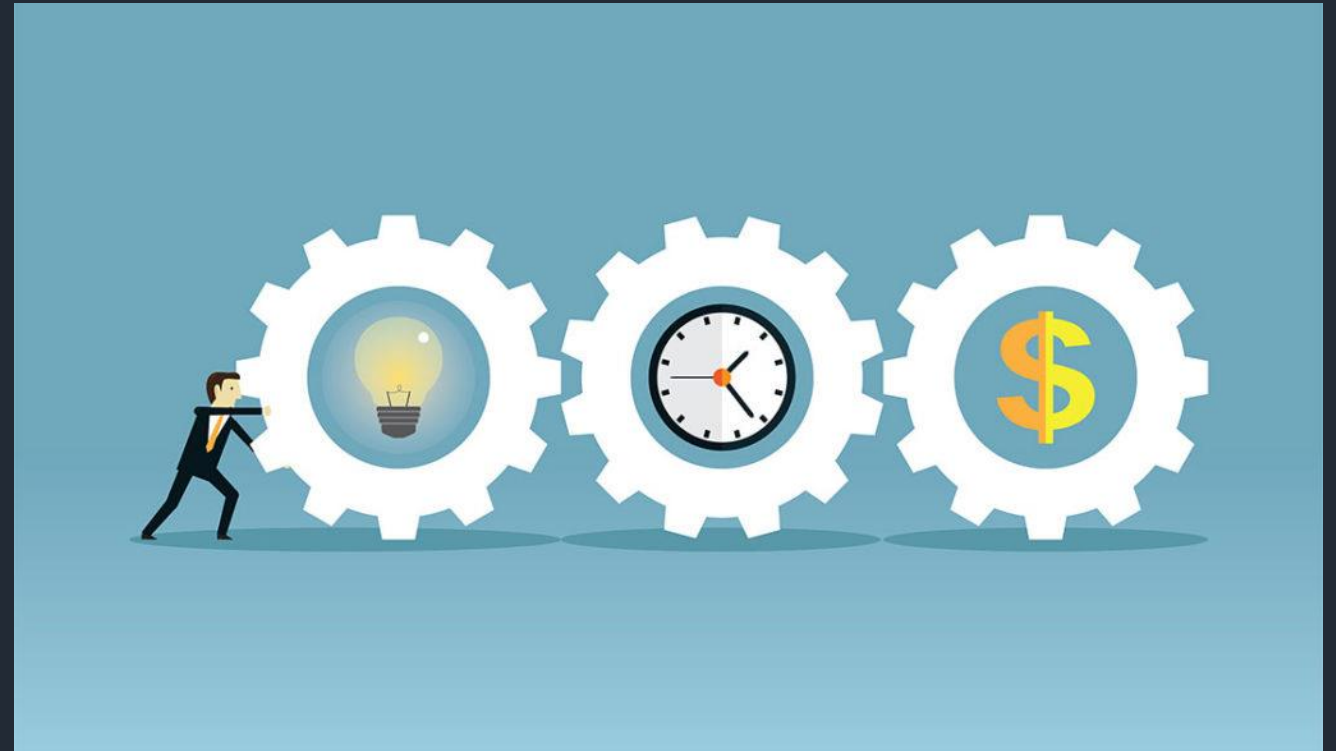


Nowadays, there is a huge amount of projects for which agile methodology is the best strategy. CI/CD pipeline is one of the parts of this. In this project, I want to introduce you to my variant of realization.

Goals

My project has several goals:

- Automation
- Acceleration
- Isolation
- Easy shipping
- Visualization



Tasks



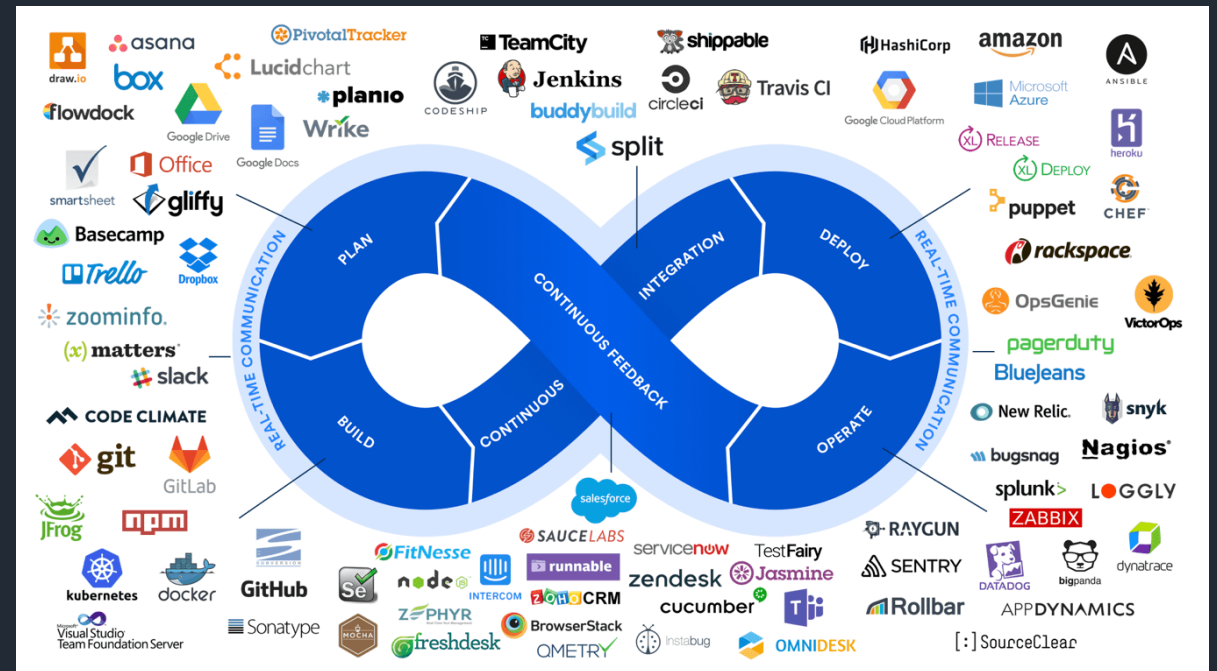
Some of the tasks:

- Dockerize infrastructure
- Build
- Test
- Save artifacts
- Initialize AWS infrastructure
- Configure environments
- Deploy

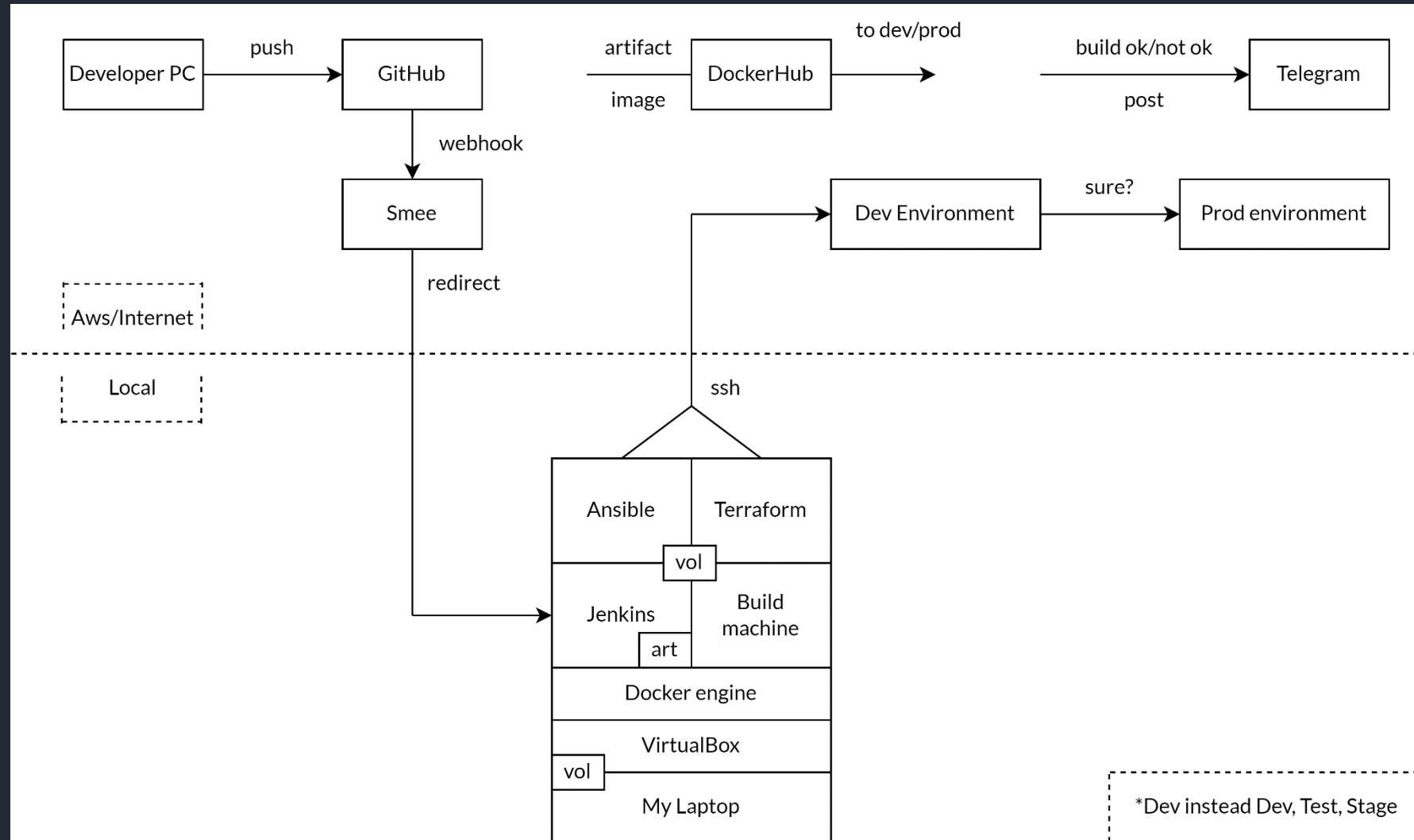
Technology stack

Selected technology stack:

- GNU/Linux
- Docker
- Jenkins
- GitHub
- Smee
- Amazon Web Services
- Terraform
- Ansible
- Telegram



Inside project



Pipeline

✓ CICD_Pipeline < 40

PipelineChangesTestsArtifacts🔄⚙️🔗Logout✕

Branch: — 9m 11s Changes by ubuntu

Commit: — a minute ago Started by user Mike

Start Prepare Build Test Push artifact on DockerHub Initialize infrastructure Configure dev environment Configure prod environment End

● ✓ ✓ ✓ ✓ ✓ ✓ ✓ ●

✓ Terraform_Destroy < 3


PipelineChangesTestsArtifacts🔄⚙️🔗Logout✕

Branch: — 1m 40s Changes by noreply

Commit: — an hour ago Started by user Mike

Start Prepare Infrastructure Destroy End

● ✓ ● ✓ ●

**Jenkins** 22:23
CICD_Pipeline; Pipeline: OK 1

Tests

✓ CICD_Pipeline < 40

PipelineChangesTestsArtifacts

🔄⚙️🔗Logout✕

Branch: —


🕒 9m 11s

Changes by ubuntu

Commit: —

🕒 3 minutes ago

Started by user Mike



All tests are passing

Nice one! All 39 tests for this pipeline are passing.

Skipped - 1

○ > org.springframework.samples.petclinic.system.CrashControllerTests - org.springframework.samples.petclinic.system.CrashControllerTests

<1s

Passed - 39

✓ > testFindAll - org.springframework.samples.petclinic.PetclinicIntegrationTests

<1s

✓ > testOwnerDetails - org.springframework.samples.petclinic.PetclinicIntegrationTests

3s

✓ > shouldNotValidateWhenFirstNameEmpty - org.springframework.samples.petclinic.model.ValidatorTests

<1s

✓ > testProcessUpdateOwnerFormHasErrors - org.springframework.samples.petclinic.owner.OwnerControllerTests

<1s

✓ > testProcessCreationFormSuccess - org.springframework.samples.petclinic.owner.OwnerControllerTests

<1s

✓ > testInitFindForm - org.springframework.samples.petclinic.owner.OwnerControllerTests

<1s

✓ > testShowOwner - org.springframework.samples.petclinic.owner.OwnerControllerTests

<1s

Artifacts

✓ CICD_Pipeline < 40

PipelineChangesTestsArtifacts

↺

⚙

🔗

Logout

×

Branch: —

🕒 9m 11s

Changes by ubuntu


Commit: —


🕒 3 minutes ago


Started by user Mike

NAME	SIZE	
pipeline.log	-	🔗 ↓
source/spring-petclinic/target/site/surefire-report.html	24.1 KB	🔗 ↓
source/spring-petclinic/target/spring-petclinic-2.6.1-SNAPSHOT.jar	50.3 MB	🔗 ↓


Download All

 cradge / petclinic



petclinic 

 Last pushed: 7 hours ago

Tags and Scans

 VULNERABILITY SCANNING - DISABLED
[Enable](#)

This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
 latest		5 minutes ago	7 hours ago

[See all](#)

Webhooks / Manage webhook

Settings

Recent Deliveries

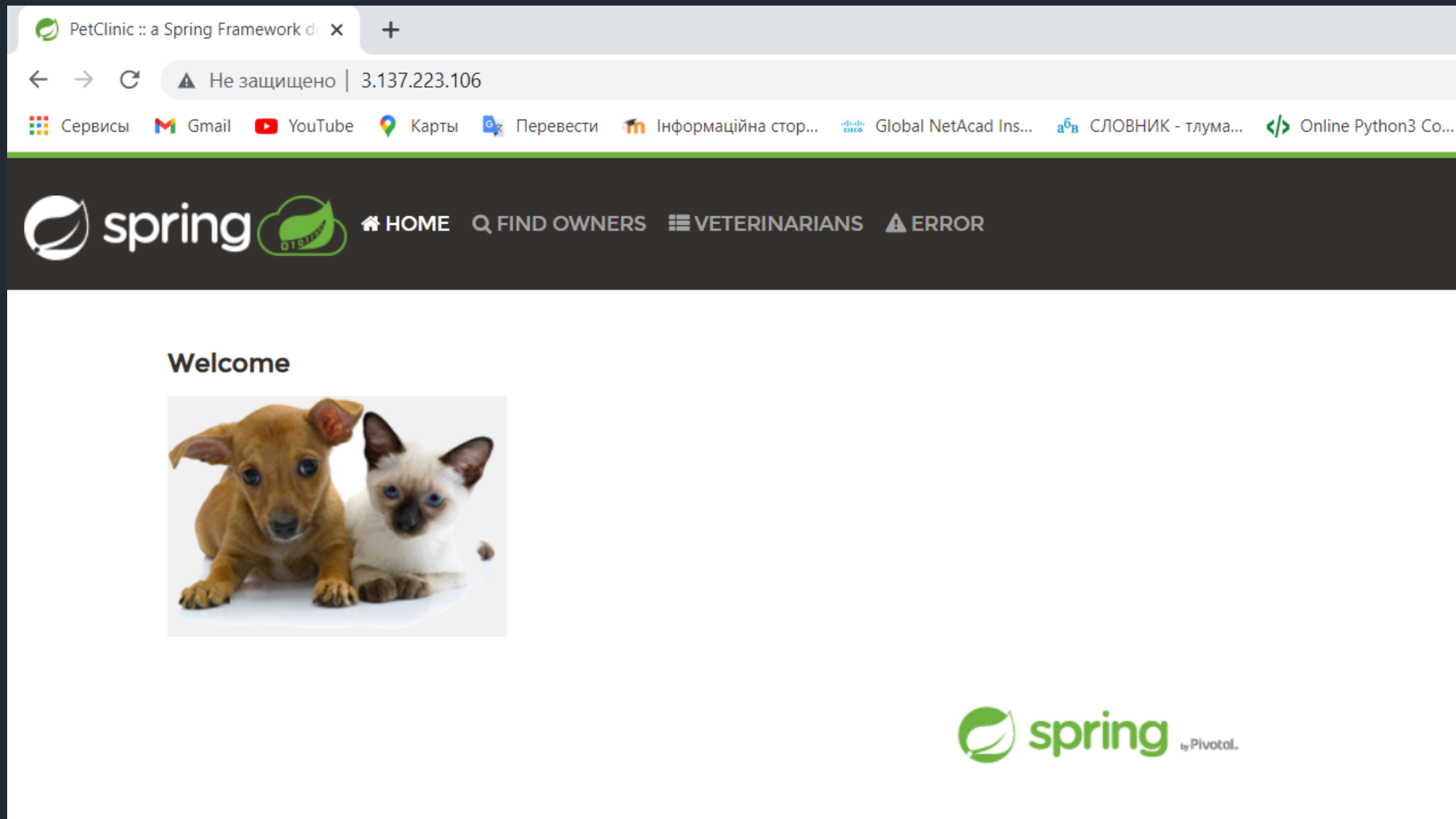
We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, `x-www-form-urlencoded`, etc). More information can be found in [our developer documentation](#).

Payload URL *

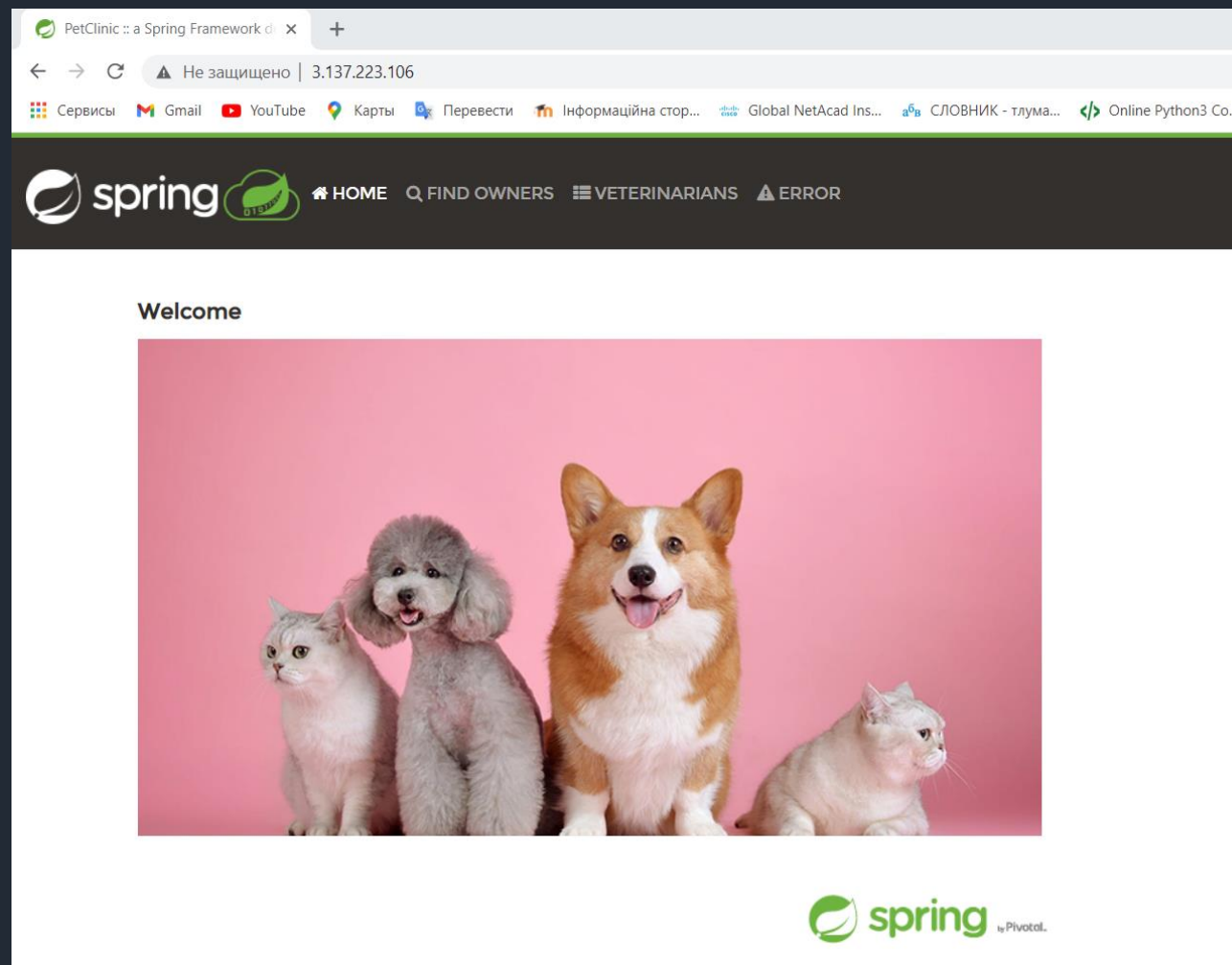
Content type

[illegible]

Results



Results



Thanks for your attention!