



CICD process in Jenkins for React App project.

About myself

Do not be afraid of failure. Be afraid of not have enough courage to try.



My name is Ivan Lovkin. I'm from Mykolaiv.

I'm interesting information technologies. I want to develop in the field of DevOps and information security.

I like studying and learning some new things.

Problem and motivation (about CICD)

As it was before...

- ❑ **Poor code quality**
- ❑ **Slow delivery**
- ❑ **A lot of handmade**
- ❑ **Long search for failures**
- ❑ **Lack of feedback**
- ❑ **High development costs**

As it is now...

- ❑ **Shorter time**
- ❑ **Continuous Testing**
- ❑ **Shorter Code**
- ❑ **Quicker Release**
- ❑ **Real-Time Feedback**
- ❑ **Customer Satisfaction**

General purpose

Process automation

Automate the process of building and delivering (deploying) an application (CI/CD).

Tools and technology

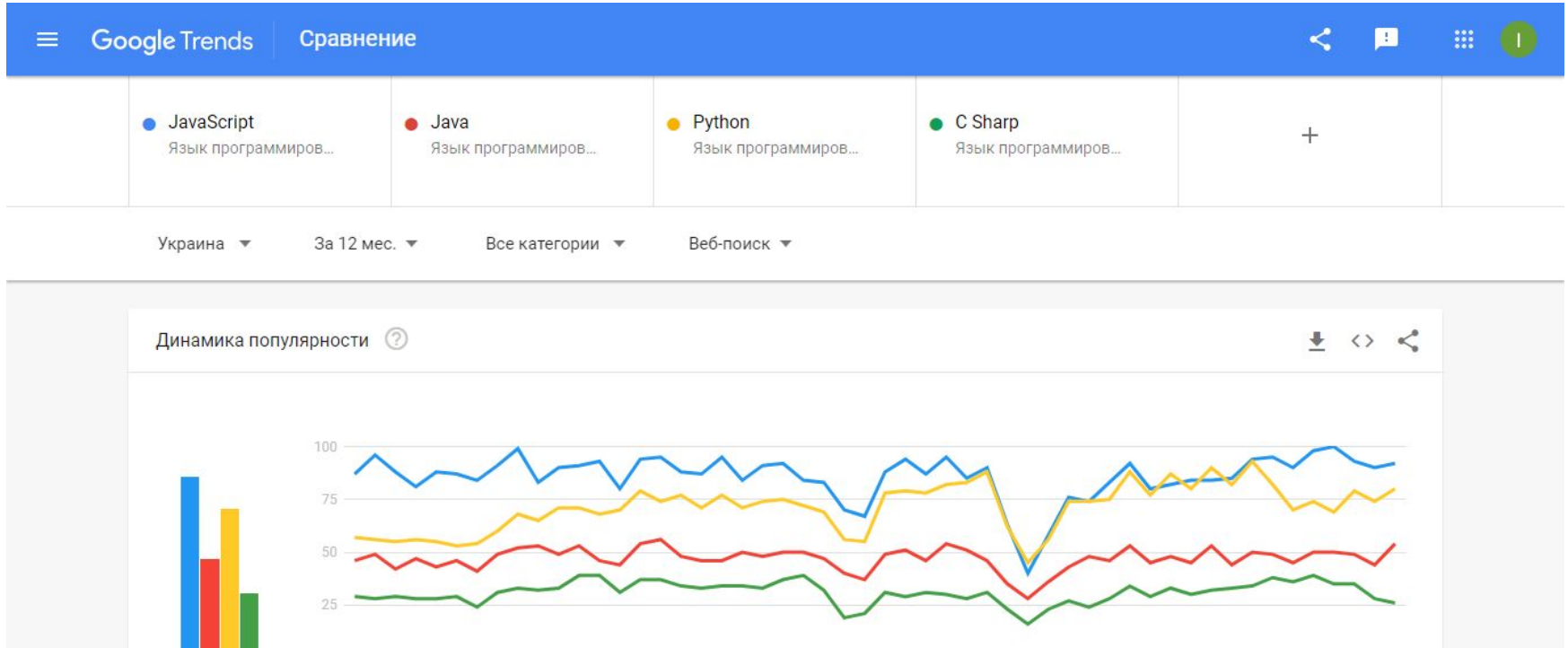
Using various tools to create, configure the working environment, configure continuous integration/continuous delivery.

Skills upgrade

Obtaining new skills and abilities, mastering and consolidating additional knowledge. Practice creating and using CI/CD practices.

Relevance:

JavaScript remains the most popular language among Ukrainian developers (18.8%).
To improve the development process, it is necessary to introduce CI/CD practices





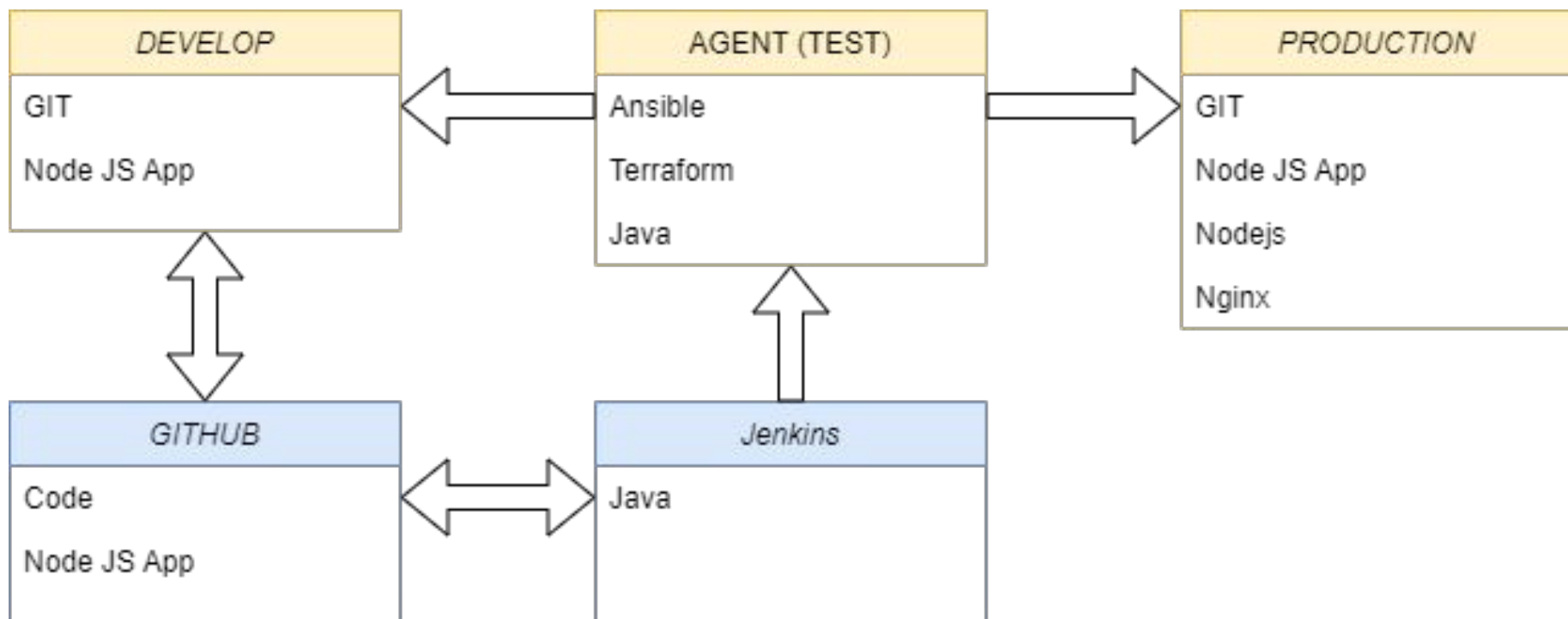
How it works?

Tools

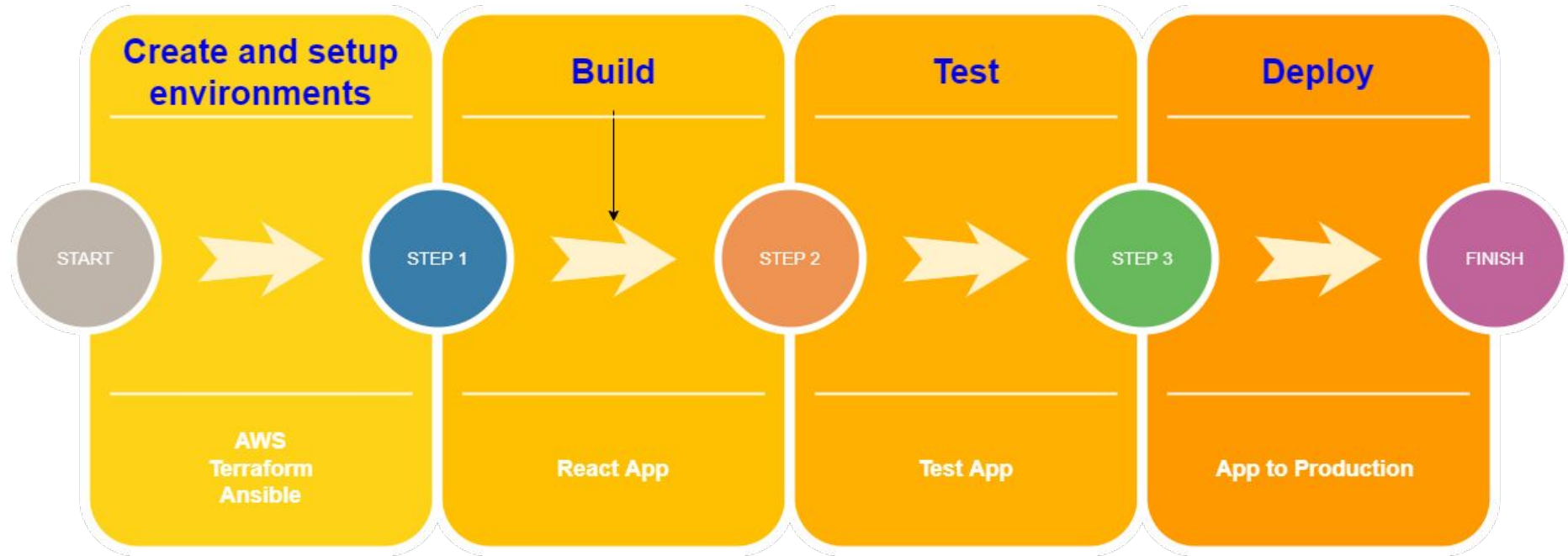
- ❑ AWS (EC2, S3) - build infrastructure
- ❑ Terraform - create environments
- ❑ Ansible - configure environments
- ❑ Git, Github - CVS system
- ❑ Jenkins (master with agent)



Scheme



Continuous integration/continuous delivery (deploy)



Links:

1. <https://aws.amazon.com/>
2. <https://docs.ansible.com/>
3. <https://www.jenkins.io/doc/>
4. <https://www.terraform.io/docs>
5. <https://create-react-app.dev/docs/getting-started/>
6. <https://dou.ua/lenta/articles/language-rating-2022/>
7. <https://en.wikipedia.org/wiki/CI/CD>



Thank you!