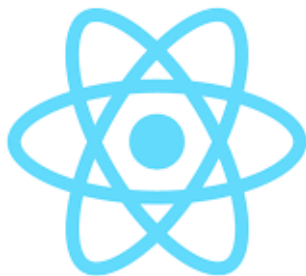


Simple CI/CD pipeline

Dnipro 2021

Developed with:



brief description of the functionality

- code is pushed to GitHub using Visual Studio Code
- GitHub triggered by the code is send signal to Jenkins which is working on AWS
- project is build by Jenkins and sent to Heroku
- result of the project is displayed by the link: <https://dev-task-epam.herokuapp.com/>

AWS

Instances (1/1) [Info](#)

↻

Connect

Instance state ▾

Actions ▾

Launch instances ▾

🔍 Filter instances

< 1 > ⚙

<input checked="" type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS ▾
<input checked="" type="checkbox"/>	-	i-0875c2b48a92464fe	✓ Running 🔍	t2.micro	✓ 2/2 checks passed	No alarms +	eu-central-1a	ec2-54-93-241-158.eu-...

Instance: i-0875c2b48a92464fe

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

▼ Instance summary [Info](#)

Instance ID

📋 i-0875c2b48a92464fe

Public IPv4 address

📋 54.93.241.158 | [open address](#) ↗

Jenkins

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (**not sure where to find it?**) and this file on the server:

```
/var/lib/jenkins/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

Continue

Getting Started

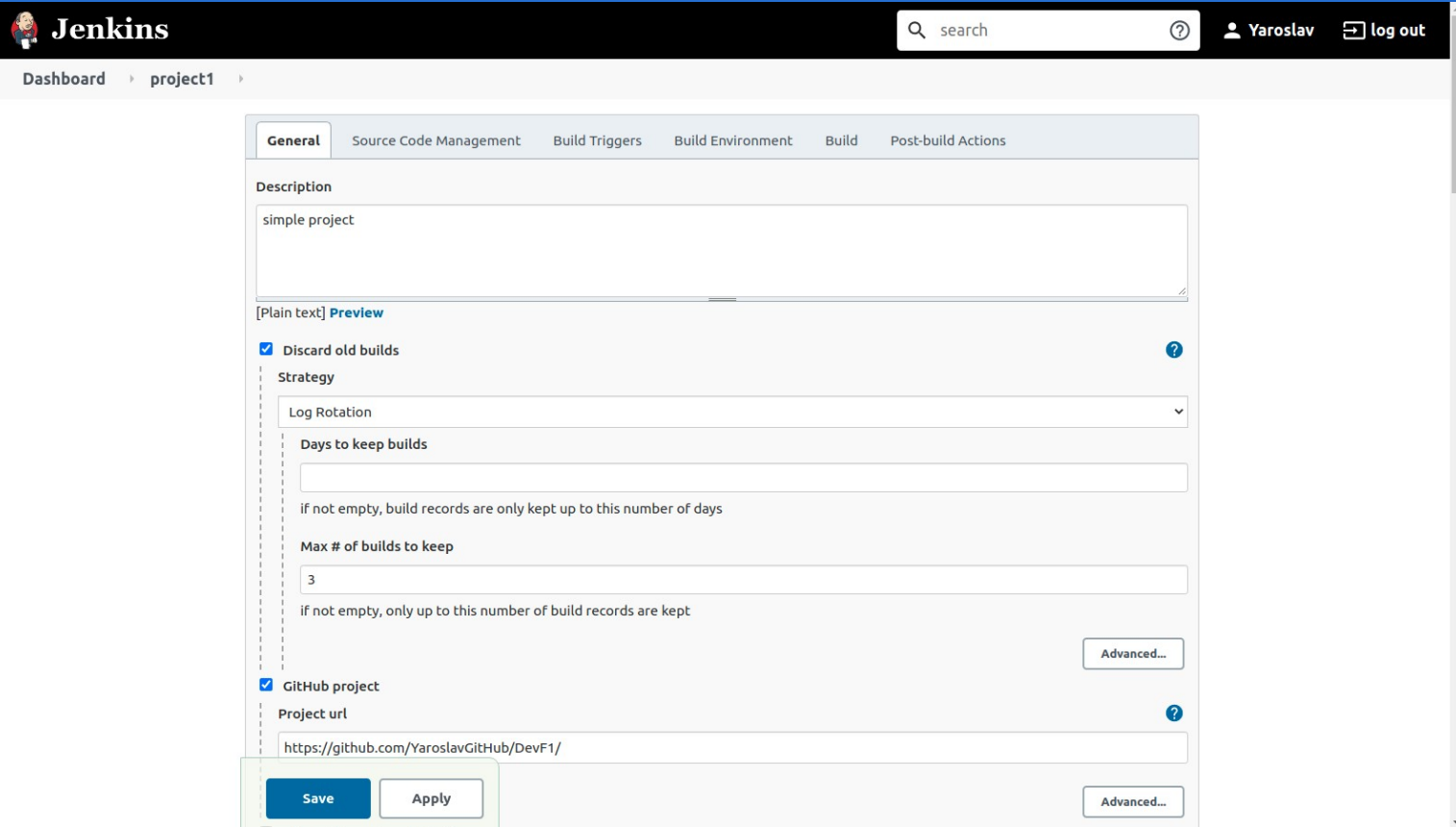
Чтобы выйти из полноэкранного режима, нажмите **F11**

Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding	** SSH Credentials
✓ Timestamp	✓ Workspace Cleanup	✓ Ant	Gradle	** Credentials Binding
⚙ Pipeline	⚙ GitHub Branch Source	⚙ Pipeline: GitHub Groovy Libraries	⚙ Pipeline: Stage View	** SCM API
⚙ Git	⚙ SSH Build Agents	⚙ Matrix Authorization Strategy	⚙ PAM Authentication	** Pipeline: API
⚙ LDAP	⚙ Email Extension	⚙ Mailer		** Timestamp
				** Script Security
				** Plugin Utilities API
				** Font Awesome API
				** Popper.js API
				** JQuery3 API
				** Bootstrap 4 API
				** Snakeyaml API
				** Jackson 2 API
				** Echarts API
				** Display URL API
				** Pipeline: Supporting APIs
				** Pipeline: Job
				** Checks API
				** JUnit
				** Matrix Project
				** Resource Disposer
				** Workspace Cleanup
				** Ant
				** - required dependency

Jenkins 2.277.1

General setting of the project



The screenshot shows the Jenkins web interface. At the top is a blue header with the Jenkins logo and name. Below it is a black navigation bar with a search bar, a help icon, and user information (Yaroslav) with a log out button. The main content area has a breadcrumb trail: Dashboard > project1 >. The configuration page for 'project1' is displayed, with tabs for General, Source Code Management, Build Triggers, Build Environment, Build, and Post-build Actions. The 'General' tab is active. It contains a 'Description' field with the text 'simple project'. Below this is a '[Plain text] Preview' button. A section titled 'Discard old builds' is checked, with a help icon. It includes a 'Strategy' dropdown set to 'Log Rotation', a 'Days to keep builds' input field, and a 'Max # of builds to keep' input field set to '3'. A note explains that build records are kept up to the specified number of days or builds. An 'Advanced...' button is next to this section. Another checked section is 'GitHub project', with a 'Project url' input field containing 'https://github.com/YaroslavGitHub/DevF1/' and a help icon. At the bottom are 'Save', 'Apply', and 'Advanced...' buttons.

Jenkins

search ? Yaroslav log out

Dashboard > project1 >

General Source Code Management Build Triggers Build Environment Build Post-build Actions

Description

simple project

[Plain text] Preview

☒ Discard old builds ?

Strategy

Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

Max # of builds to keep

3

if not empty, only up to this number of build records are kept

Advanced...

☒ GitHub project ?

Project url

https://github.com/YaroslavGitHub/DevF1/

Save Apply Advanced...

Source Code Management


Dashboard > project1


General Source Code Management Build Triggers Build Environment Build Post-build Actions


Source Code Management


☐ None
☒ Git


Repositories


Repository URL 





Credentials 









Repository URL 





Credentials 



 Add Repository

 Save  Apply

Source Code Management

Dashboard > project1 >

General Source Code Management Build Triggers Build Environment Build Post-build Actions

Credentials ?

heroku/***** (heroku) Add

Name ?

heroku

Refspec ?

Add Repository

Branches to build

Branch Specifier (blank for 'any') x ?

*/main

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Save Apply

Build Triggers

Dashboard > project1 >

General Source Code Management **Build Triggers** Build Environment Build Post-build Actions

Add

Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts)
- ☐ Build after other projects are built
- ☐ Build periodically
- ☒ GitHub hook trigger for GITScm polling
- ☐ Poll SCM



Build Environment

- ☐ Delete workspace before build starts
- ☐ Use secret text(s) or file(s)
- ☐ Send files or execute commands over SSH before the build starts
- ☐ Send files or execute commands over SSH after the build runs
- ☐ Abort the build if it's stuck
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published Gradle build scans
- ☐ With Ant



Build

Add build step

Post-build Actions

Git Publisher

Save

Apply



Post-build Actions

Dashboard > project1 >

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

Post-build Actions

Git Publisher

☒ Push Only If Build Succeeds

☐ Merge Results

☒ Force Push

If pre-build merging is configured, push the result back to the origin

Add force option to git push

Tags

Add Tag

Tags to push to remote repositories

Branches

Branch to push

main

Target remote name

heroku

☐ Rebase before push

Add Branch

Save

Apply

Repositories

Notes

X

?

?

?

?

?

X

?

?

GitHub Webhooks

YaroslavGitHub / DevF1

Unwatch 1 Star 0 Fork 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Options

Manage access

Security & analysis

Branches

Webhooks

Notifications

Integrations

Deploy keys

Actions

Environments

Secrets

Moderation settings

Webhooks / Manage webhook

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 *

http://3.120.39.254:8080/github-webhook/

Content type

application/json

Secret

Which events would you like to trigger this webhook?

☒ Just the push event.

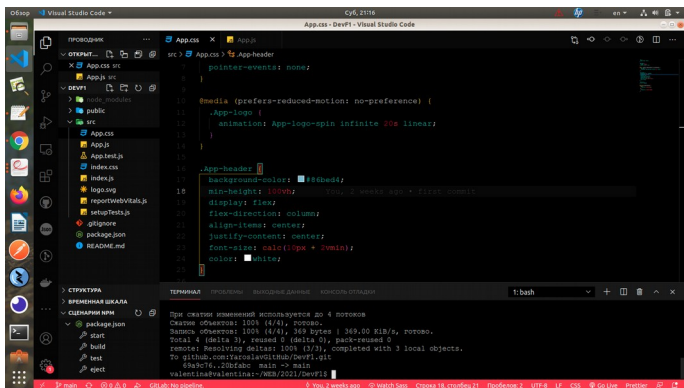
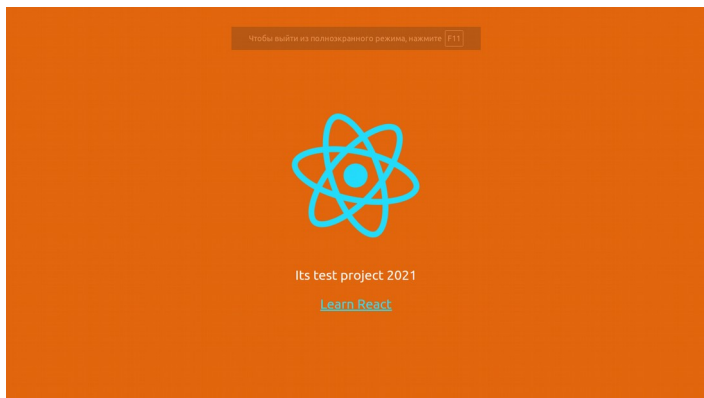
☐ Send me **everything**.

☐ Let me select individual events.

☒ Active

We will deliver event details when this hook is triggered.

Running changes



Final results

Dashboard

project1

GitHub Hook Log

Back to Dashboard

Status

Changes

Workspace

Build Now

Configure

Delete Project

GitHub Hook Log

GitHub

Rename

Build History

trend

Find

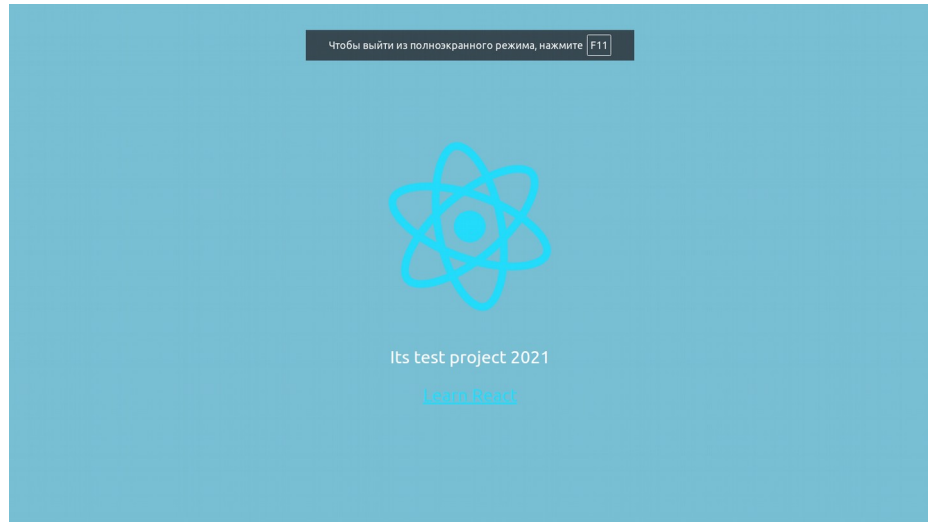
Atom feed for all

Atom feed for failures

Last GitHub Push

Started on Mar 13, 2021, 7:16:30 PM
Started by event from 140.82.115.251 - <http://3.120.39.254:8080/github-webhook/> on Sat Mar 13 19:16:30 UTC 2021
Polling SCM changes on master
Using strategy: Default
[poll] Last Built Revision: Revision 69a9c76dd0aa4ce1670e8c9904d004345daf5621 (origin/main)
The recommended git tool is: NONE
using credential b4065cd4-d12e-4e27-868c-7f0566105576
using credential 56cd7266-de2a-42a1-ba88-96c62fc80c62
> git rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote git repositories
> git config remote.heroku.url https://git.heroku.com/dev-task-epam.git # timeout=10
Fetching upstream changes from https://git.heroku.com/dev-task-epam.git
> git --version # timeout=10
> git --version # 'git version 2.23.3'
using GIT_ASKPASS to set credentials heroku
> git fetch --tags --force --progress -- https://git.heroku.com/dev-task-epam.git +refs/heads/*:refs/remotes/heroku/* # timeout=10
> git config remote.origin.url git@github.com:YaroslavGitHub/DevF1.git # timeout=10
Fetching upstream changes from git@github.com:YaroslavGitHub/DevF1.git
using GIT_SSH to set credentials project1
> git fetch --tags --force --progress -- git@github.com:YaroslavGitHub/DevF1.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Polling for changes in
Seen branch in repository heroku/main
Seen branch in repository origin/main
Seen 2 remote branches
> git show-ref --tags -d # timeout=10
> git log --full-history --no-abbrev --format=raw -M -m 69a9c76dd0aa4ce1670e8c9904d004345daf5621...20bfabc389e1d4c4a52363aba27b3cde28cd845 # timeout=10
Done. Took 1.7 sec
Changes found

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The end

Thank you for attention!