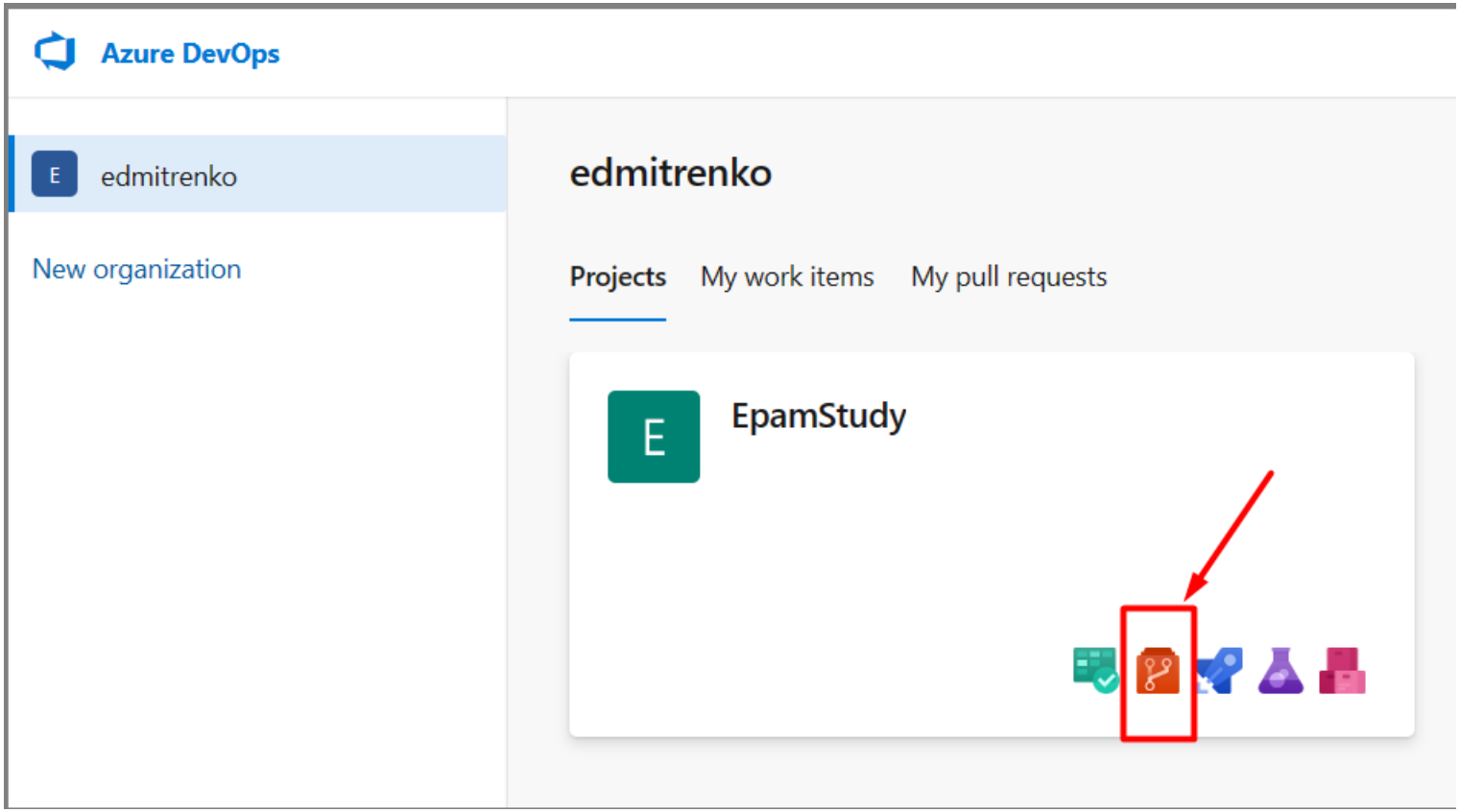
AZURE

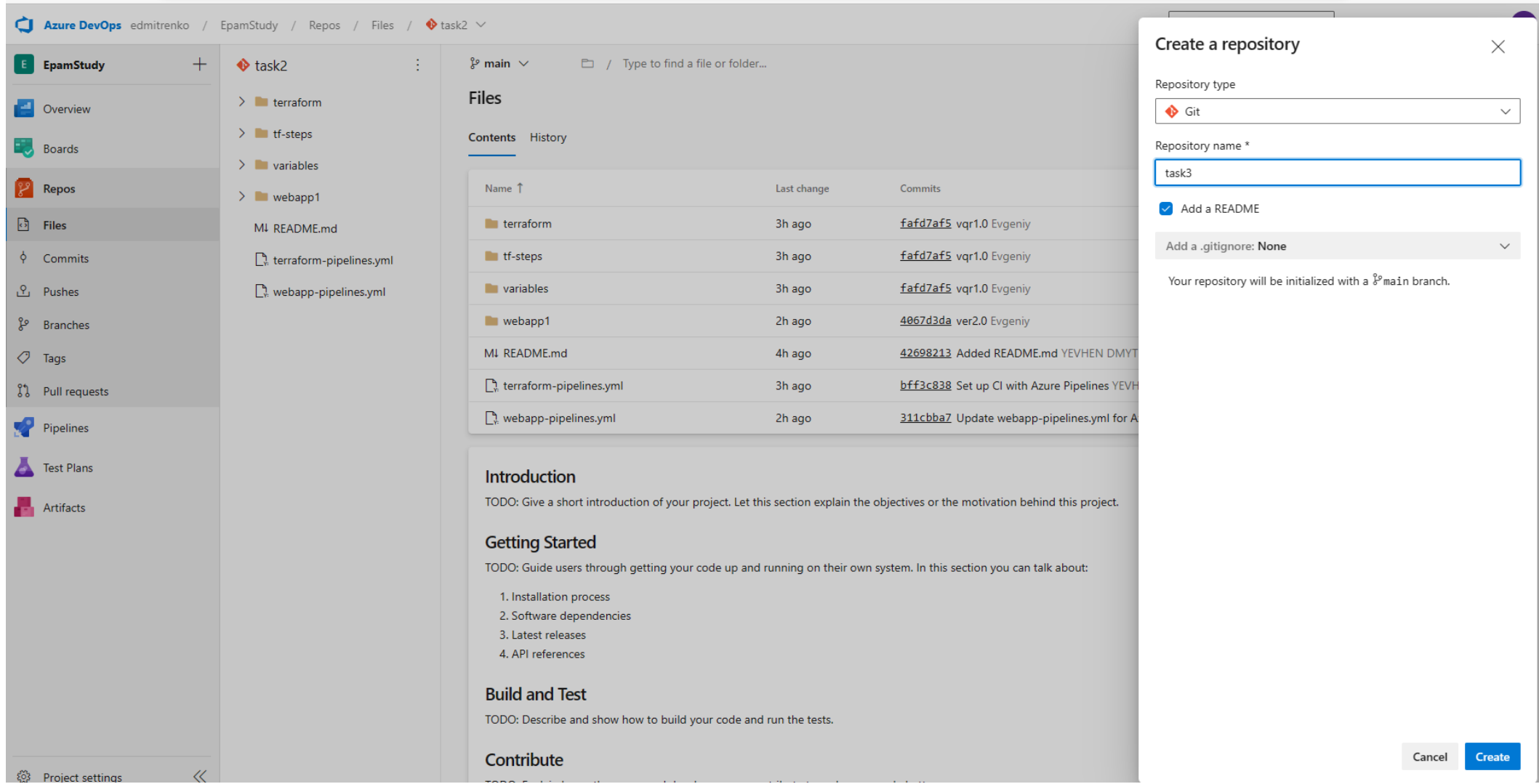
TASK 3

Create a deploy pipeline to app service

1) Create new Git repo in my azure devops account:

Choose your project -> Repo -> new repository




Azure DevOps edmitrenko / EpamStudy / Repos / Files / task2
EpamStudy
Overview
Boards
Repos
Files
Commits
Pushes
Branches
Tags
Pull requests
Pipelines
Test Plans
Artifacts
Project settings
task2
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variables
webapp1
README.md
terraform-pipelines.yml
webapp-pipelines.yml
main
Type to find a file or folder...
Files
Contents
History
Name
Last change
Commits
terraform 3h ago fafd7af5 vqr1.0 Evgeniy
tf-steps 3h ago fafd7af5 vqr1.0 Evgeniy
variables 3h ago fafd7af5 vqr1.0 Evgeniy
webapp1 2h ago 4067d3da ver2.0 Evgeniy
README.md 4h ago 42698213 Added README.md YEVHEN DMYT
terraform-pipelines.yml 3h ago bff3c838 Set up CI with Azure Pipelines YEVH
webapp-pipelines.yml 2h ago 311cbba7 Update webapp-pipelines.yml for A
Introduction
TODO: Give a short introduction of your project. Let this section explain the objectives or the motivation behind this project.
Getting Started
TODO: Guide users through getting your code up and running on their own system. In this section you can talk about:
1. Installation process
2. Software dependencies
3. Latest releases
4. API references
Build and Test
TODO: Describe and show how to build your code and run the tests.
Contribute
Create a repository
Repository type
Git
Repository name *
task3
Add a README
Add a .gitignore: None
Your repository will be initialized with a main branch.
Cancel
Create

2) Clone repo to local machine:

git clone https://edmitrenko@dev.azure.com/edmitrenko/EpamStudy/_git/task3

3) go into task3 folder and cretated new webapp from template:

cd webapp
dotnet new webapp -f net6.0

and push new webapp to azure devops repo:
git add .
git commit -v "webapp v1"
git push

4) Create new pipeline:

Pipelines → new pipeline →pass all the steps of the master → insert code of pipeline on the last step

Azure-pipelines.yml we can see on this link:
https://dev.azure.com/edmitrenko/EpamStudy/_git/task3?path=/azure-pipelines.yml

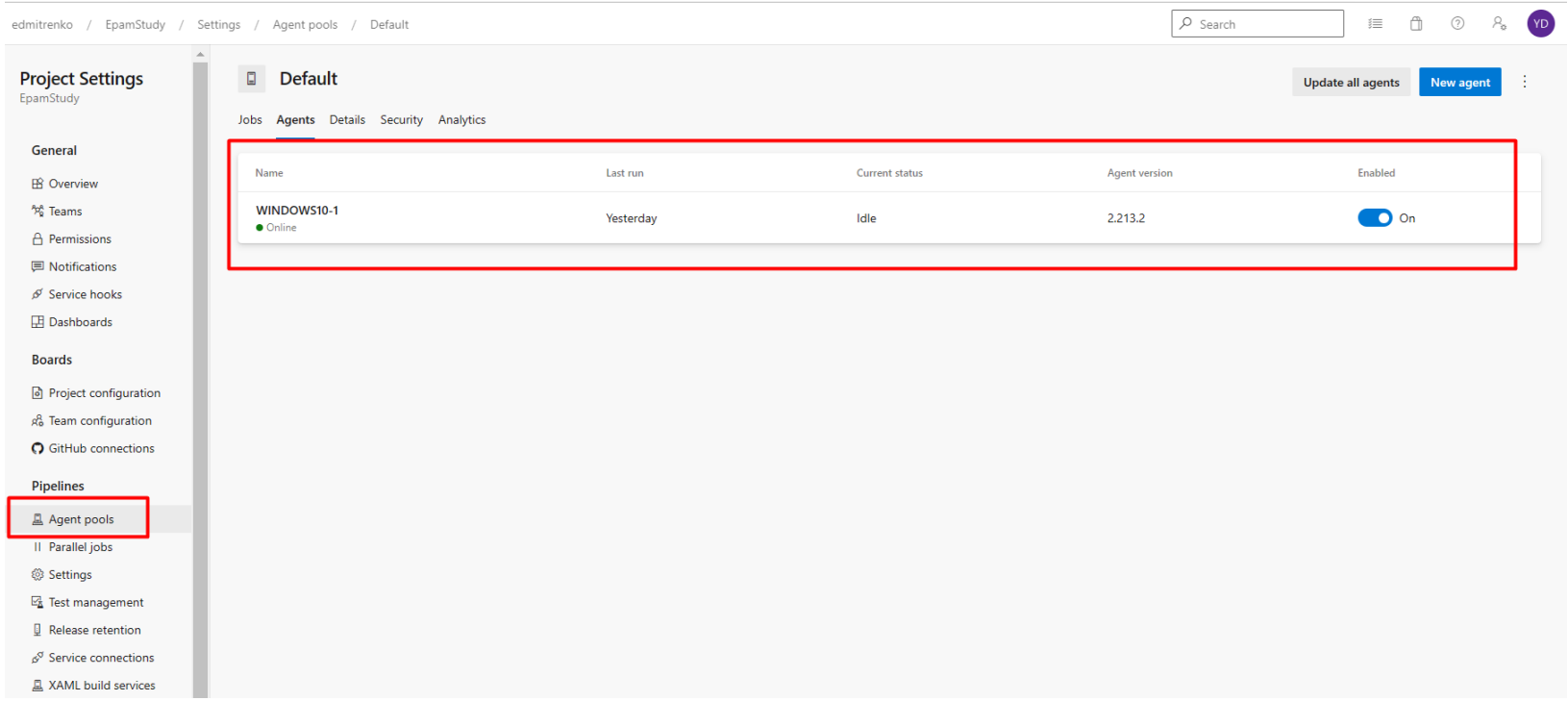
5) Actualize our local git repository:

git pull

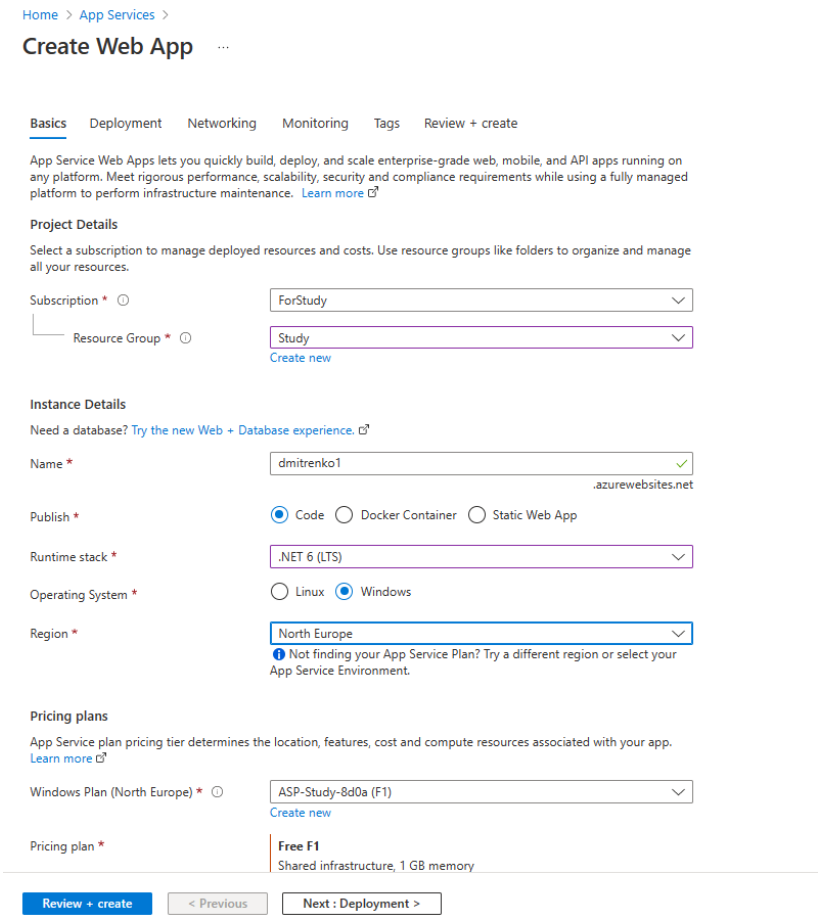
now we have azure-pipeline.yml file in our local repository.

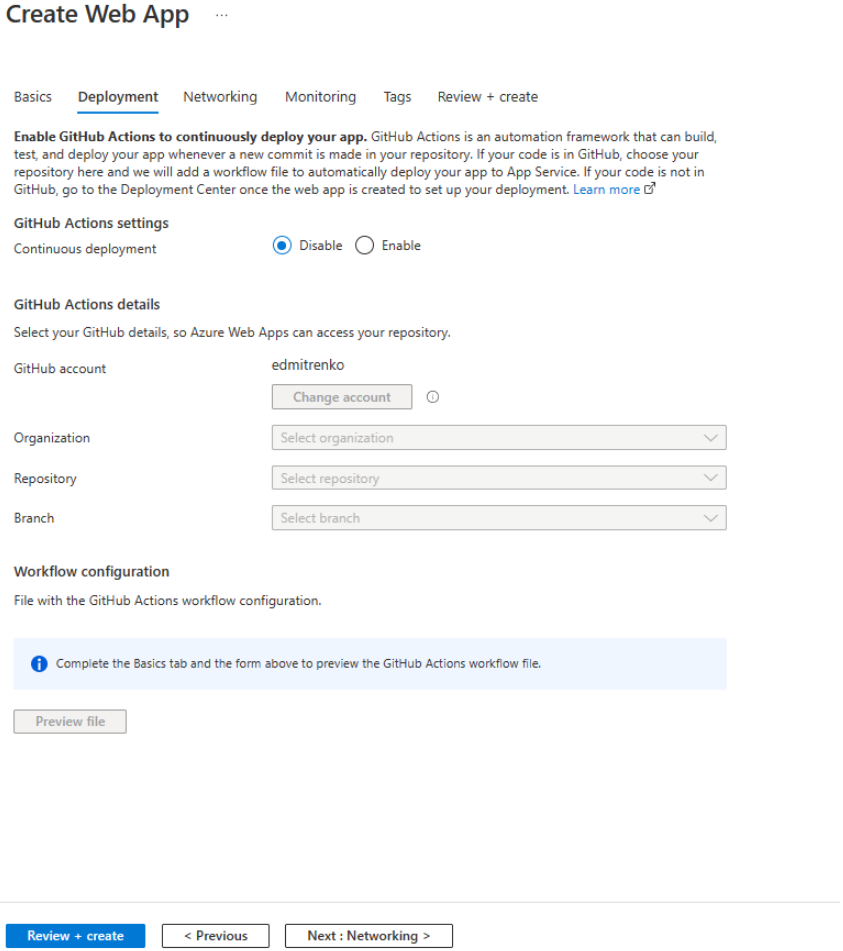
```
D:\Git\task3>git pull
remote: Azure Repos
remote: Found 3 objects to send. (0 ms)
Unpacking objects: 100% (3/3), 1005 bytes | 71.00 KiB/s, done.
From https://dev.azure.com/edmitrenko/EpamStudy/_git/task3
   a4e8e19..b3e97e3  main       -> origin/main
Updating a4e8e19..b3e97e3
Fast-forward
 azure-pipelines.yml | 36 ++++++++++++++++++++++++++++++++++++
 1 file changed, 36 insertions(+)
 create mode 100644 azure-pipelines.yml
```

6) I changed local azure-pipeline.yml file like this:
I use *default* agent pool with local agent on Windows 10 for building project



7) Create app service on the Azure Portal:





Home > App Services >

Create Web App ...

Basics Deployment **Networking** Monitoring Tags Review + create

Web Apps can be provisioned with the inbound address being public to the internet or isolated to an Azure virtual network. Web Apps can also be provisioned with outbound traffic able to reach endpoints in a virtual network, be governed by network security groups or affected by virtual network routes. By default, your app is open to the internet and cannot reach into a virtual network. These aspects can also be changed after the app is provisioned. Learn more

⚠ Network injection is only available in Basic, Standard, Premium, Premium V2, and Premium V3 Dedicated App Service plans.

Enable network injection ○ On ◉ Off

Review + create | < Previous | Next : Monitoring >

Home > App Services >

Create Web App ...

Basics Deployment Networking **Monitoring** Tags Review + create

Azure Monitor application insights is an Application Performance Management (APM) service for developers and DevOps professionals. Enable it below to automatically monitor your application. It will detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app. Your bill is based on amount of data used by Application Insights and your data retention settings. Learn more

App Insights pricing

Application Insights

Enable Application Insights * ◉ No ○ Yes

Review + create | < Previous | Next : Tags >

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Create Web App

Basics | Deployment | Networking | Monitoring | **Tags** | Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups.

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
name	webapp1	Web App
		Web App

Review + create | < Previous | Next : Review + create >

Home > App Services >

Create Web App

Basics | Deployment | Networking | Monitoring | Tags | **Review + create**

Summary

Web App
by Microsoft

Details

Subscription	890e7d96-74cd-4b79-b15a-161ba1a773cc
Resource Group	Study
Name	dmitrenko1
Publish	Code
Runtime stack	.NET 6 (LTS)
Tags	name: webapp1

App Service Plan

Name	ASP-Study-8d0a
Operating System	Windows
Region	North Europe
SKU	Free
ACU	Shared infrastructure
Memory	1 GB memory

Monitoring

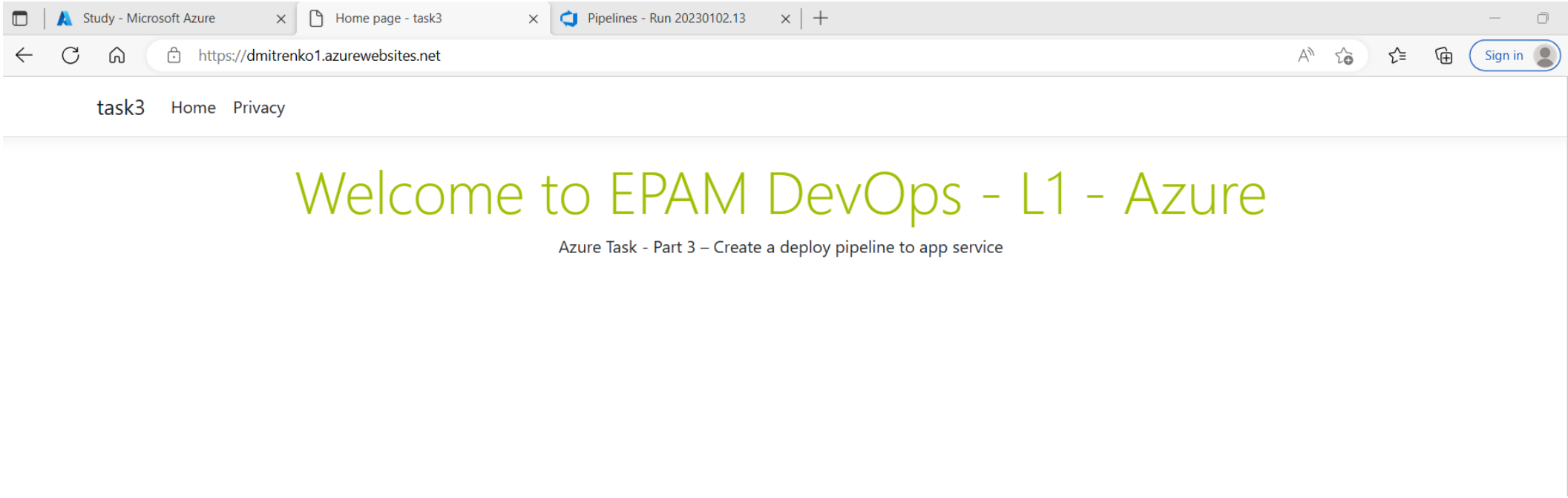
Application Insights	Not enabled

Deployment

Continuous deployment	Not enabled / Set up after app creation

Create | < Previous | Next > | Download a template for automation

Run pipeline, as a result we have webapp:



Change colour of headline on main page and push changes to repo.
In yml pipeline configured trigger for main branch → pipeline started automatically and as a result - have a new web page: