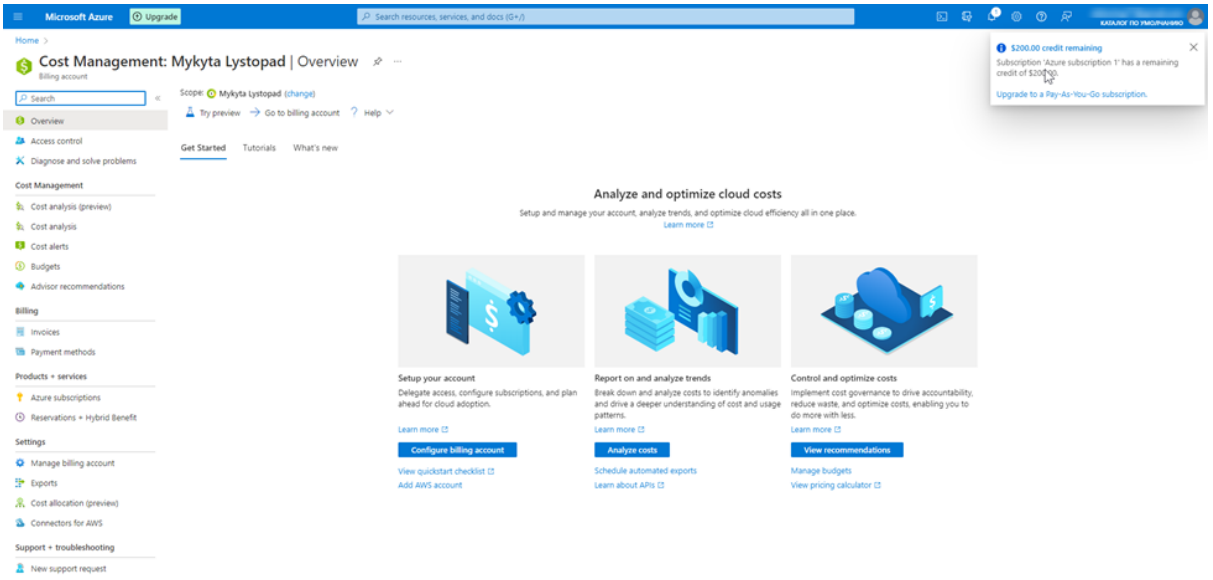
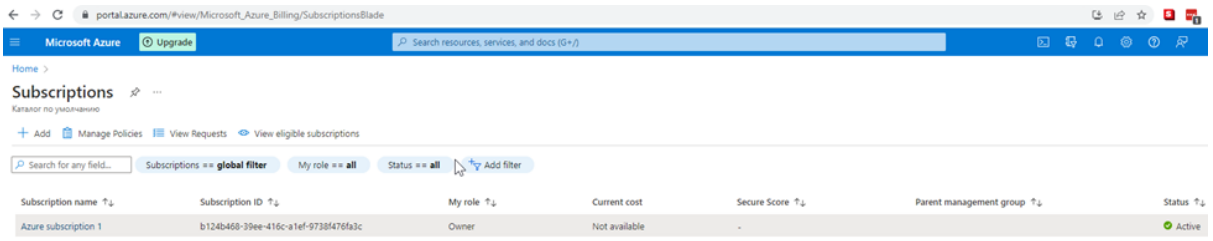
# AZURE



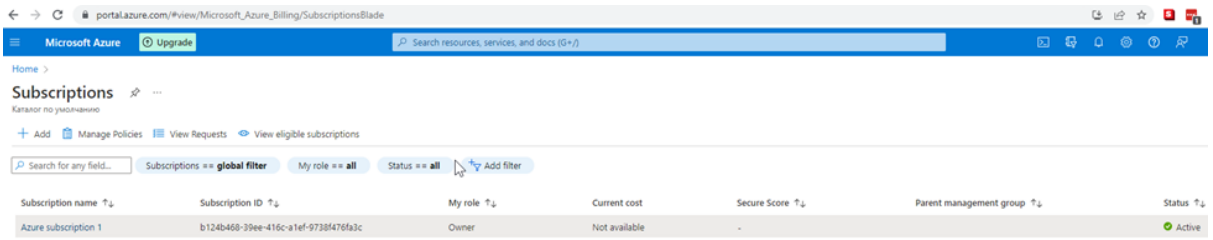

**First of all you need to switch subscription in default directory for apply free billing 200 dollars !!!!!!!!!!**

## Prerequisites

### Create azure subscription




### Create azure devops organization




### Installing Terraform and Azure Cli

**1 Download to any directory**

**2 Add path in system env this folder**

**C:\Users\Nik>terraform version**

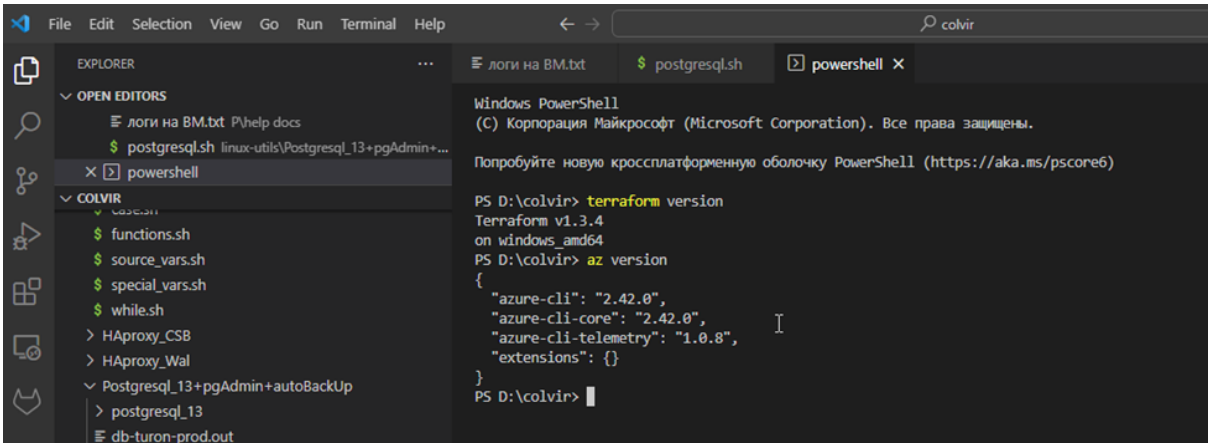
**Terraform v1.3.4**

**on windows_amd64**

**3 Download and install Azure CLI**

**C:\Users\Nik>az version**

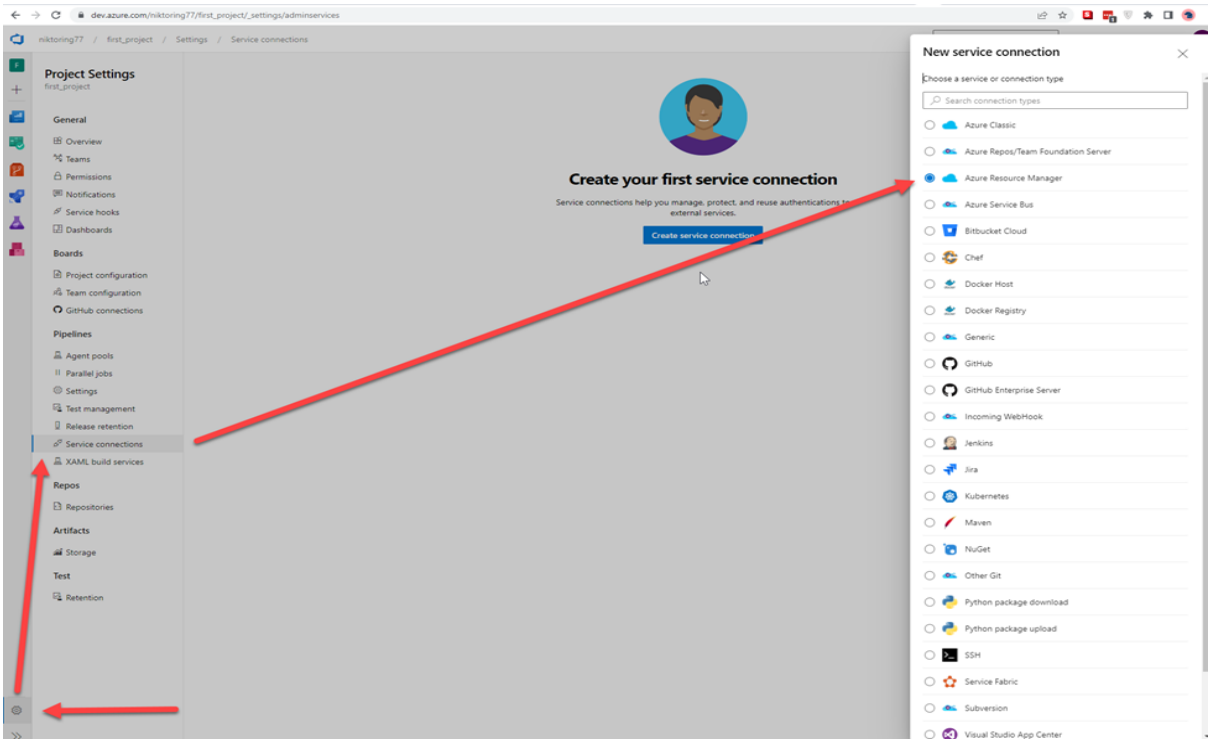
```
{
  "azure-cli": "2.42.0",
  "azure-cli-core": "2.42.0",
  "azure-cli-telemetry": "1.0.8",
  "extensions": {}
}
```

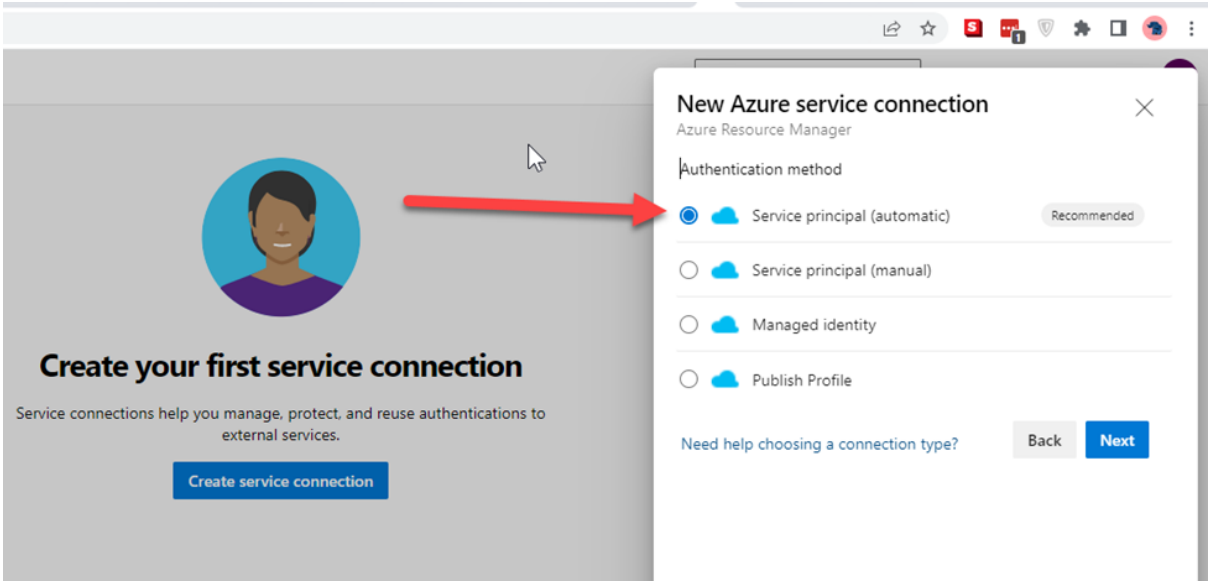


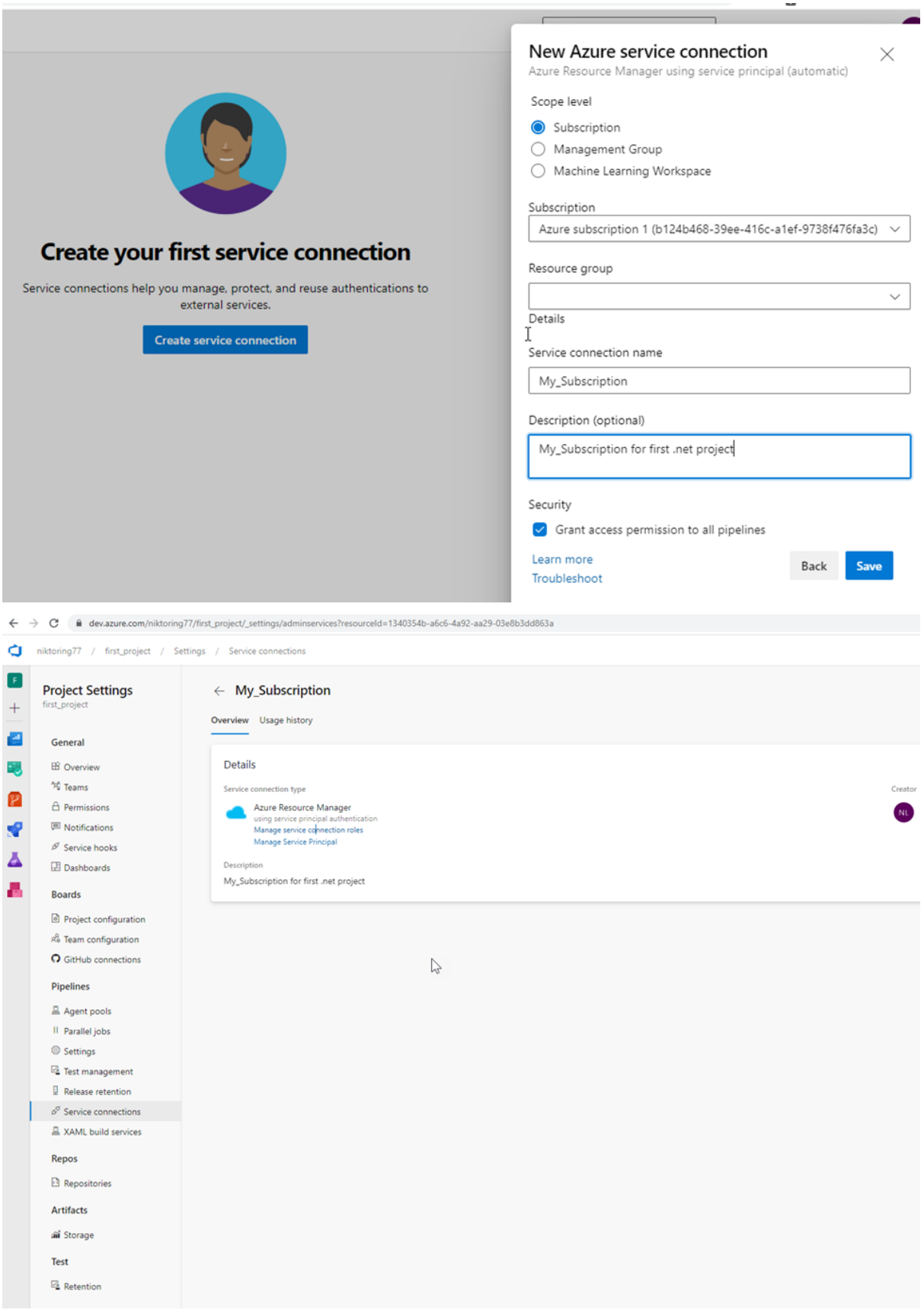
# Homework

## Part 1 – Configure application

1. Create a service connection in a Azure DevOps project to your subscription - https://learn.microsoft.com/en-us/azure/devops/pipelines/library/service-endpoints?view=azure-devops&tabs=yaml

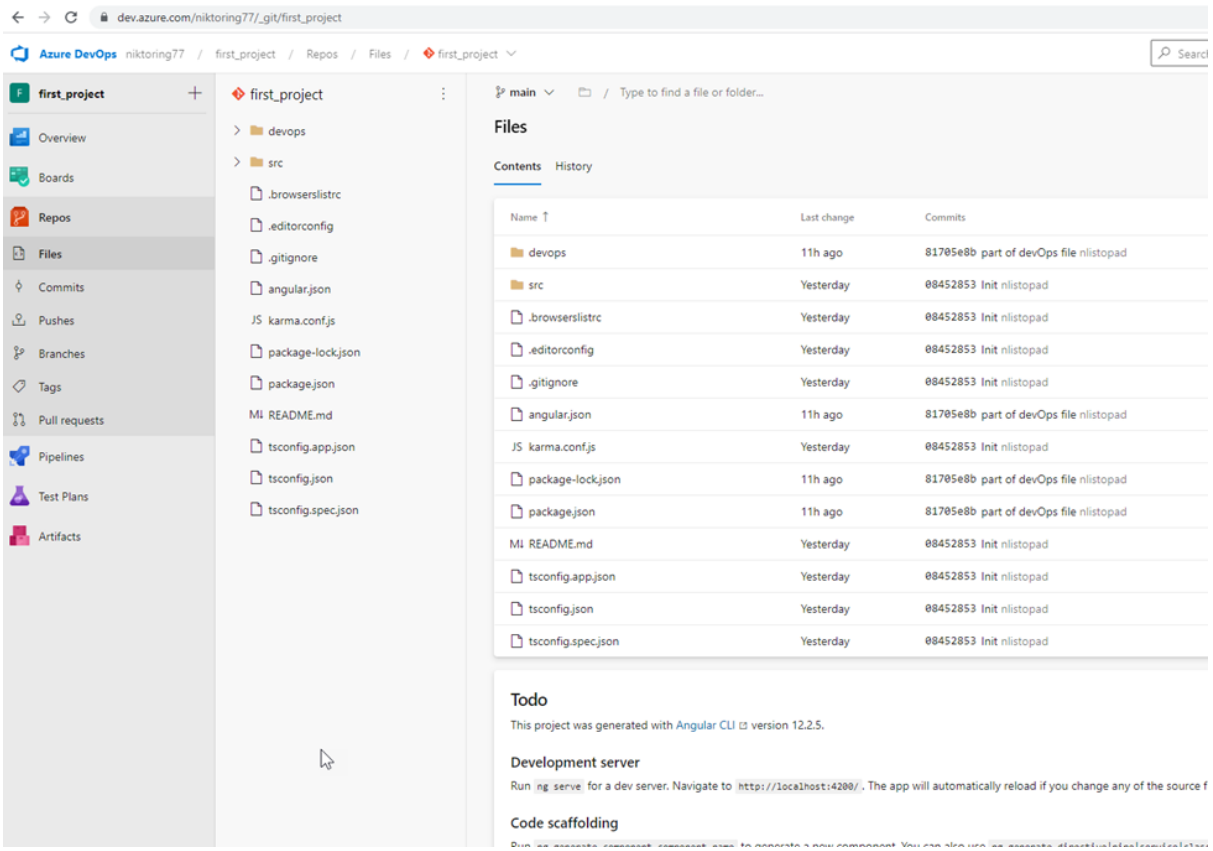



Create your first service connection
Service connections help you manage, protect, and reuse authentications to external services.
Create service connection
New Azure service connection
Azure Resource Manager using service principal (automatic)
Scope level
Subscription
Management Group
Machine Learning Workspace
Subscription
Azure subscription 1 (b124b468-39ee-416c-a1ef-9738f476fa3c)
Resource group
Details
Service connection name
My_Subscription
Description (optional)
My_Subscription for first .net project
Security
Grant access permission to all pipelines
Learn more
Troubleshoot
Back
Save
dev.azure.com/niktoring77/first_project/_settings/adminservices?resourceId=1340354b-a6c6-4a92-aa29-03e8b3dd863a
niktoring77 / first_project / Settings / Service connections
Project Settings
first_project
General
Overview
Teams
Permissions
Notifications
Service hooks
Dashboards
Boards
Project configuration
Team configuration
GitHub connections
Pipelines
Agent pools
Parallel jobs
Settings
Test management
Release retention
Service connections
XAML build services
Repos
Repositories
Artifacts
Storage
Test
Retention
My_Subscription
Overview
Usage history
Details
Service connection type
Azure Resource Manager
using service principal authentication
Manage service connection roles
Manage Service Principal
Creator
NL
Description
My_Subscription for first .net project

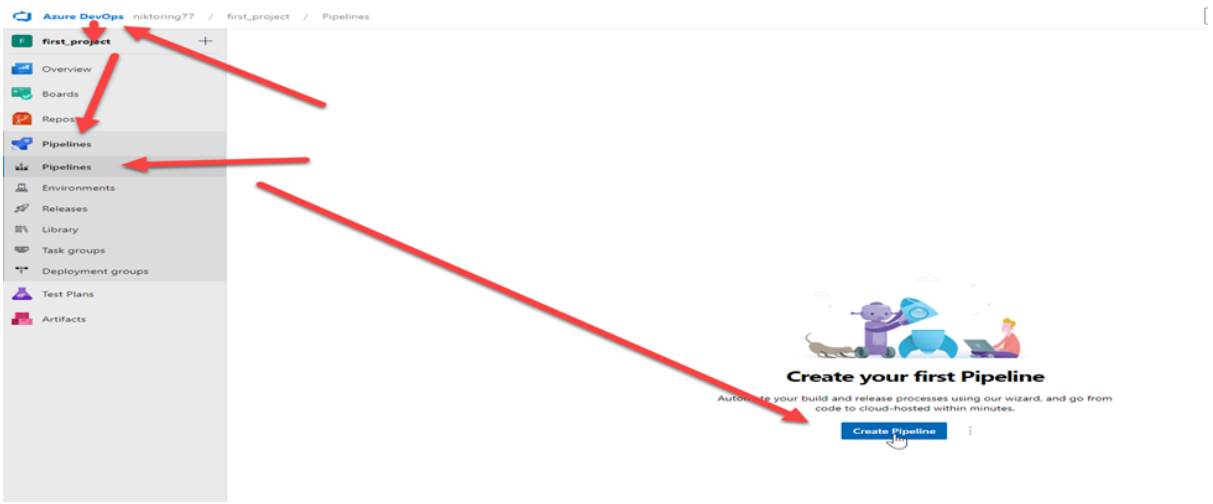
4 Create an Azure DevOps repo - https://learn.microsoft.com/en-us/azure/devops/repos/git/create-new-repo?view=azure-devops You can use import repository to import from existing source control version like github

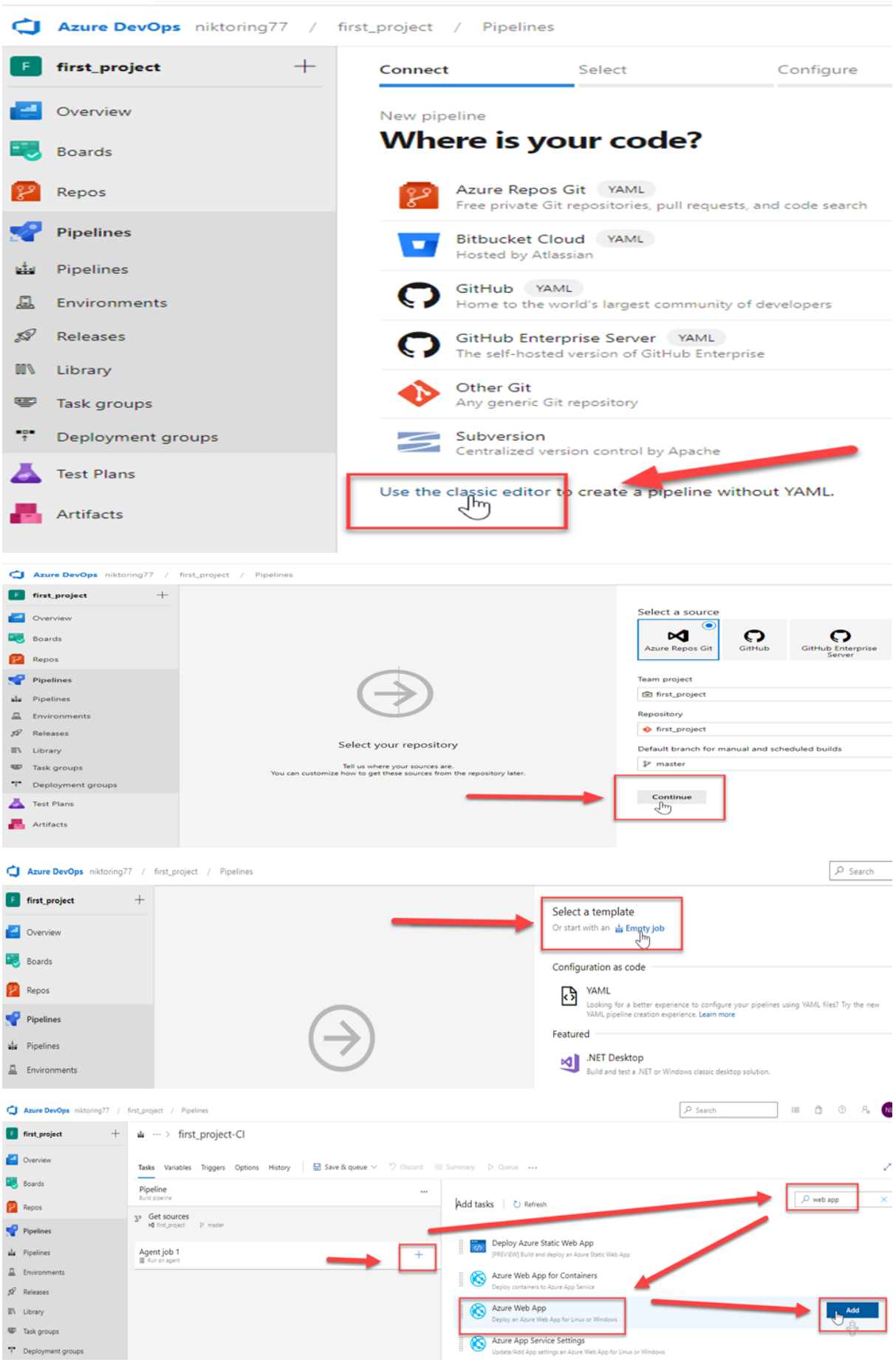
## Add to Azure repo my project

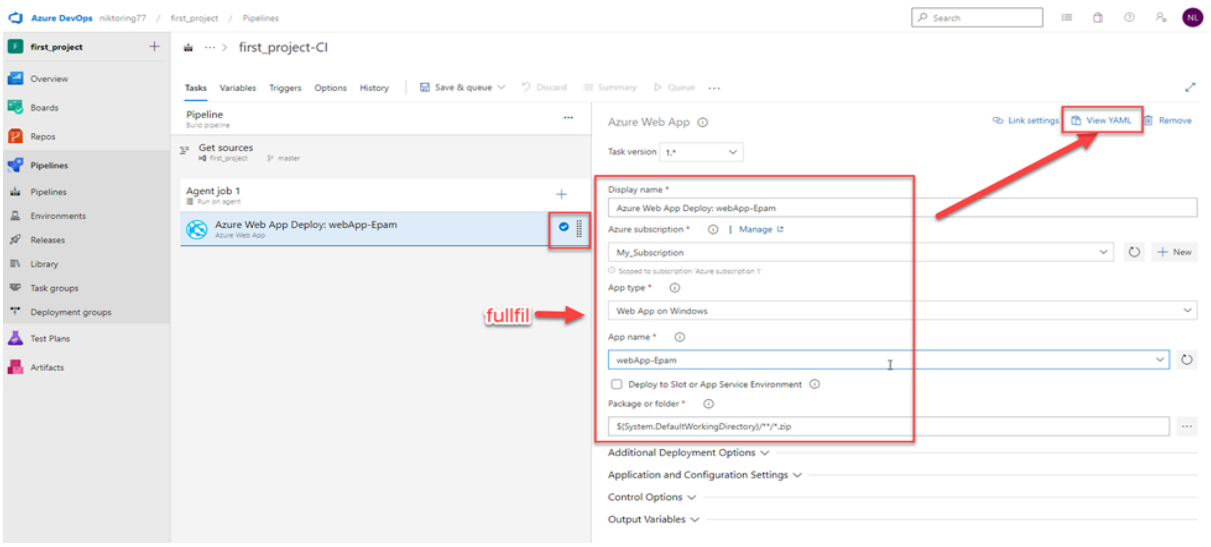


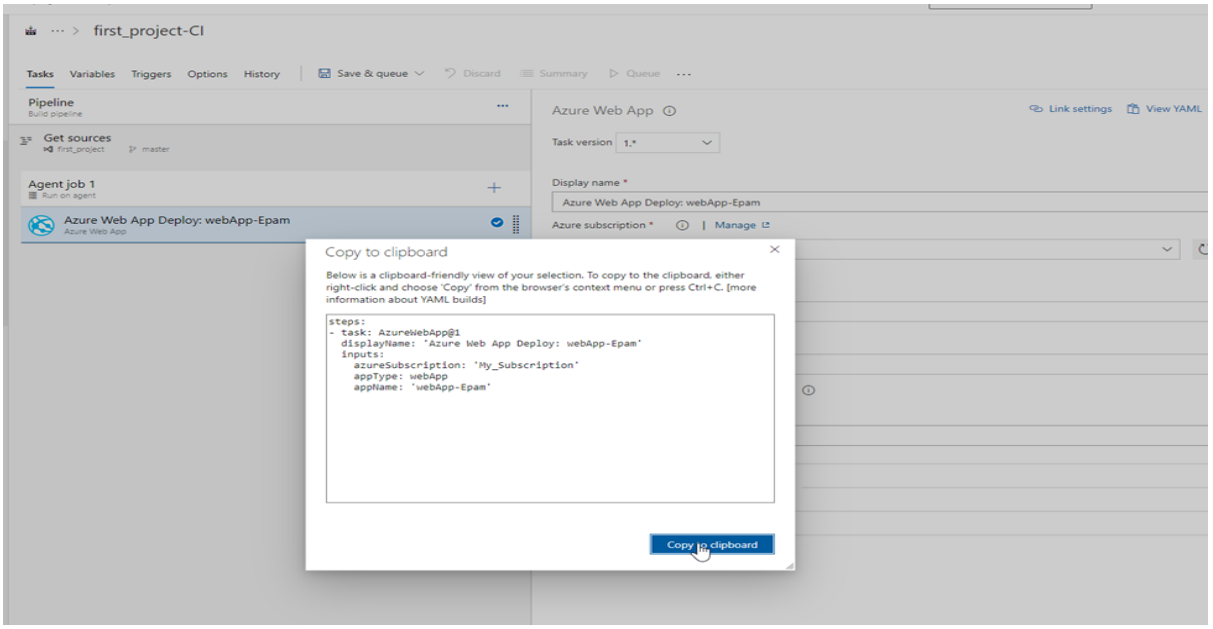

2) Find a .net pet project for the experiments. I find my Angular project

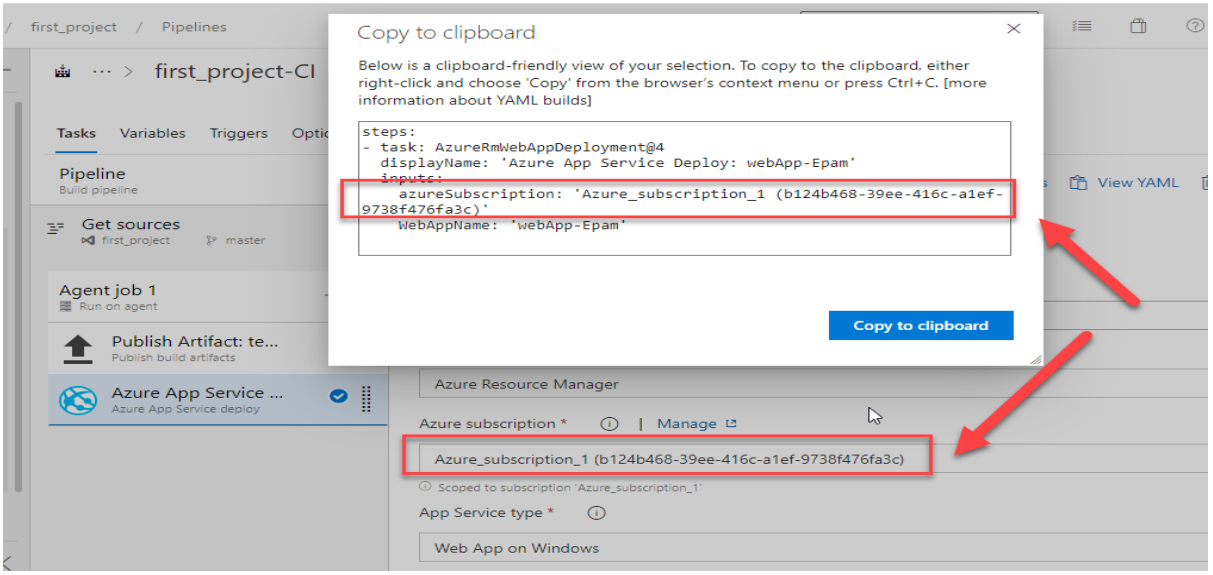
## Create pipeline




Azure DevOps niktoring77 / first_project / Pipelines
first_project
Overview
Boards
Repos
Pipelines
Pipelines
Environments
Releases
Library
Task groups
Deployment groups
Test Plans
Artifacts
Connect
Select
Configure
New pipeline
Where is your code?
Azure Repos Git YAML
Free private Git repositories, pull requests, and code search
Bitbucket Cloud YAML
Hosted by Atlassian
GitHub YAML
Home to the world's largest community of developers
GitHub Enterprise Server YAML
The self-hosted version of GitHub Enterprise
Other Git
Any generic Git repository
Subversion
Centralized version control by Apache
Use the classic editor to create a pipeline without YAML.
Select your repository
Tell us where your sources are.
You can customize how to get these sources from the repository later.
Select a source
Azure Repos Git
GitHub
GitHub Enterprise Server
Team project
first_project
Repository
first_project
Default branch for manual and scheduled builds
master
Continue
Search
Select a template
Or start with an Empty job
Configuration as code
YAML
Looking for a better experience to configure your pipelines using YAML files? Try the new YAML pipeline creation experience. Learn more
Featured
.NET Desktop
Build and test a .NET or Windows classic desktop solution.
first_project-CI
Tasks
Variables
Triggers
Options
History
Save & queue
Discard
Summary
Queue
Pipeline
Build pipeline
Get sources
first_project
master
Agent job 1
Run on agent
Add tasks
Refresh
web app
Deploy Azure Static Web App
[PREVIEW] Build and deploy an Azure Static Web App
Azure Web App for Containers
Deploy containers to Azure App Service
Azure Web App
Deploy an Azure Web App for Linux or Windows
Add
Azure App Service Settings
Update/Add App settings an Azure Web App for Linux or Windows

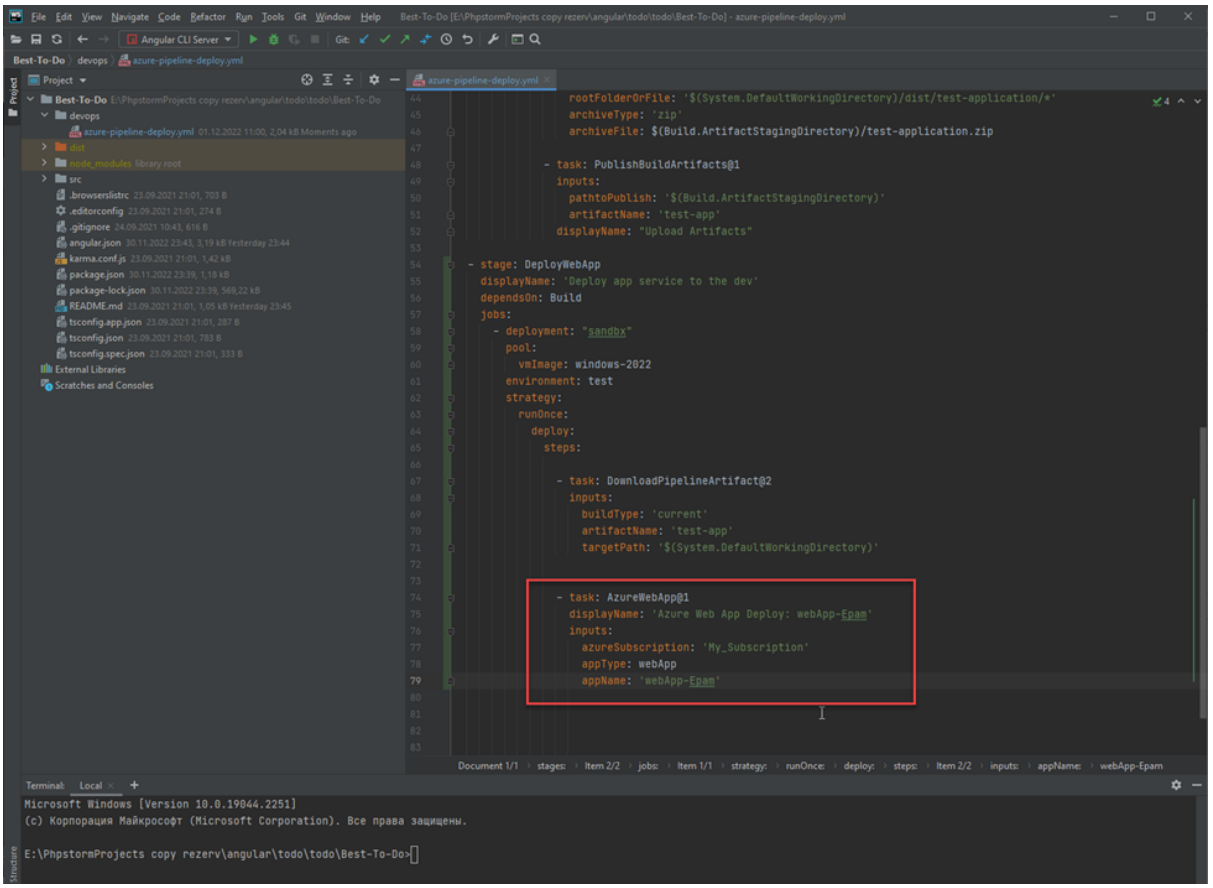


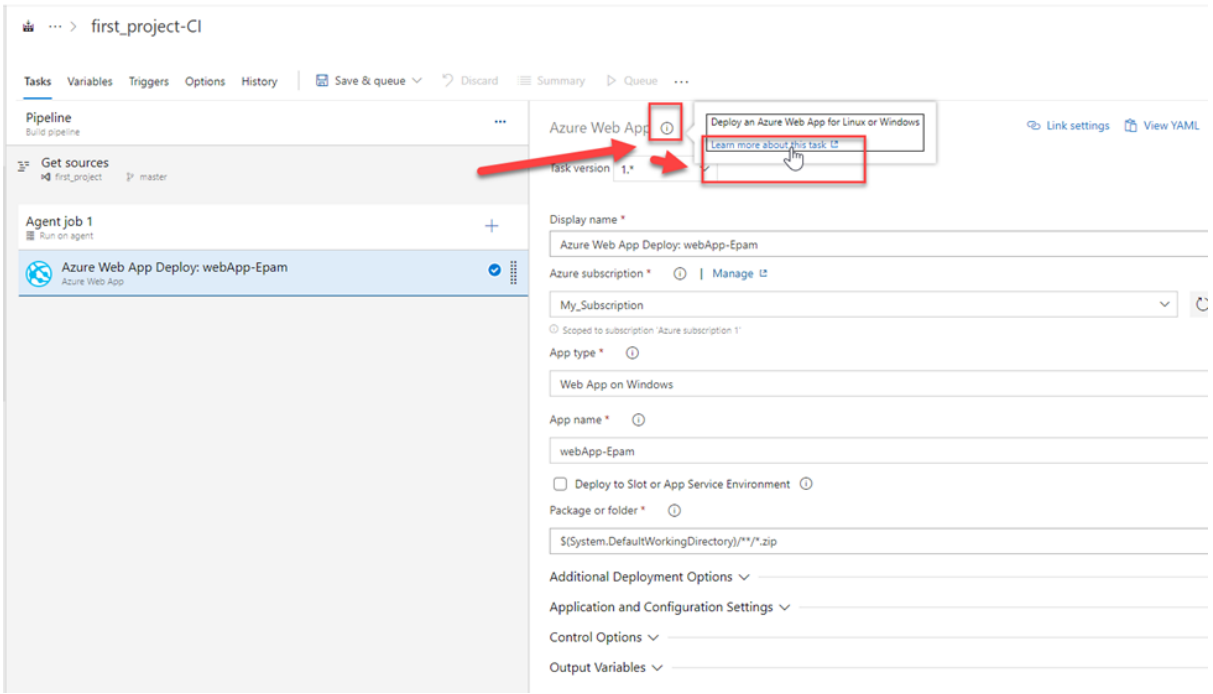

**CREATE or APPROVE your subscribe !!!!!!**

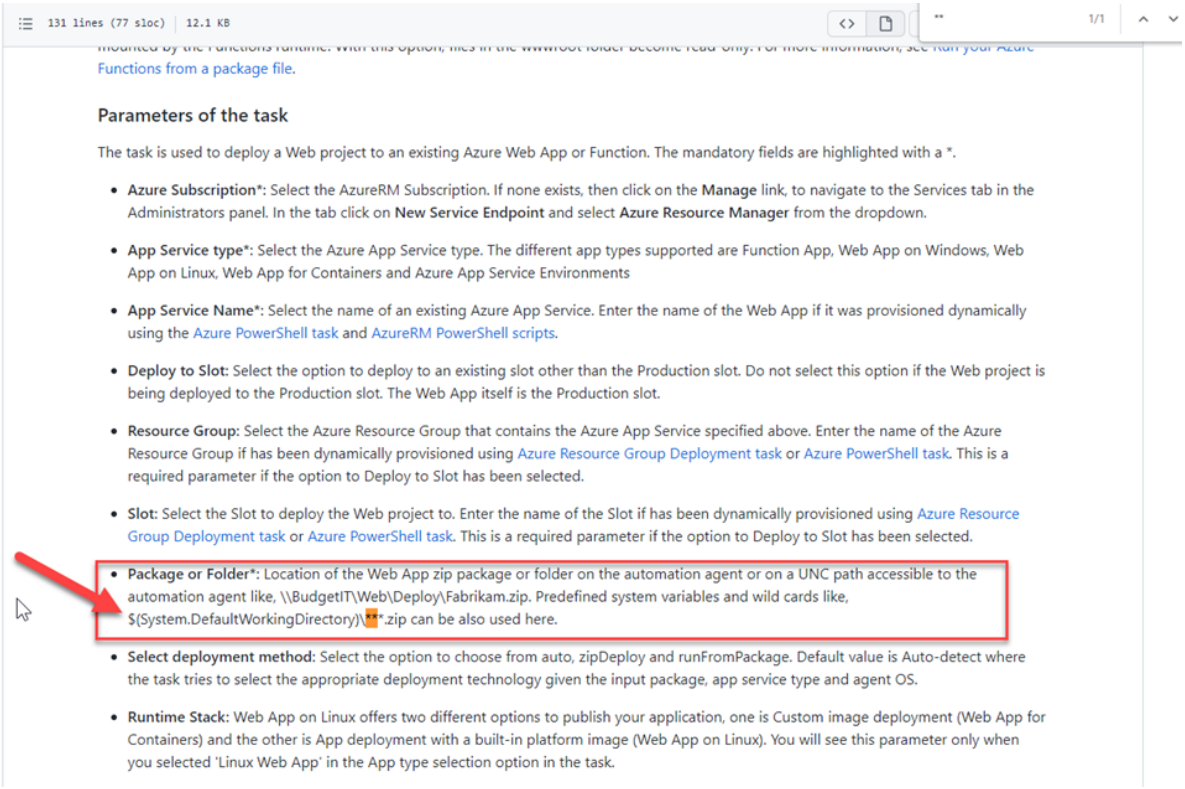
## Add part of code to project




## + We need to add some parameters

## Read in manual



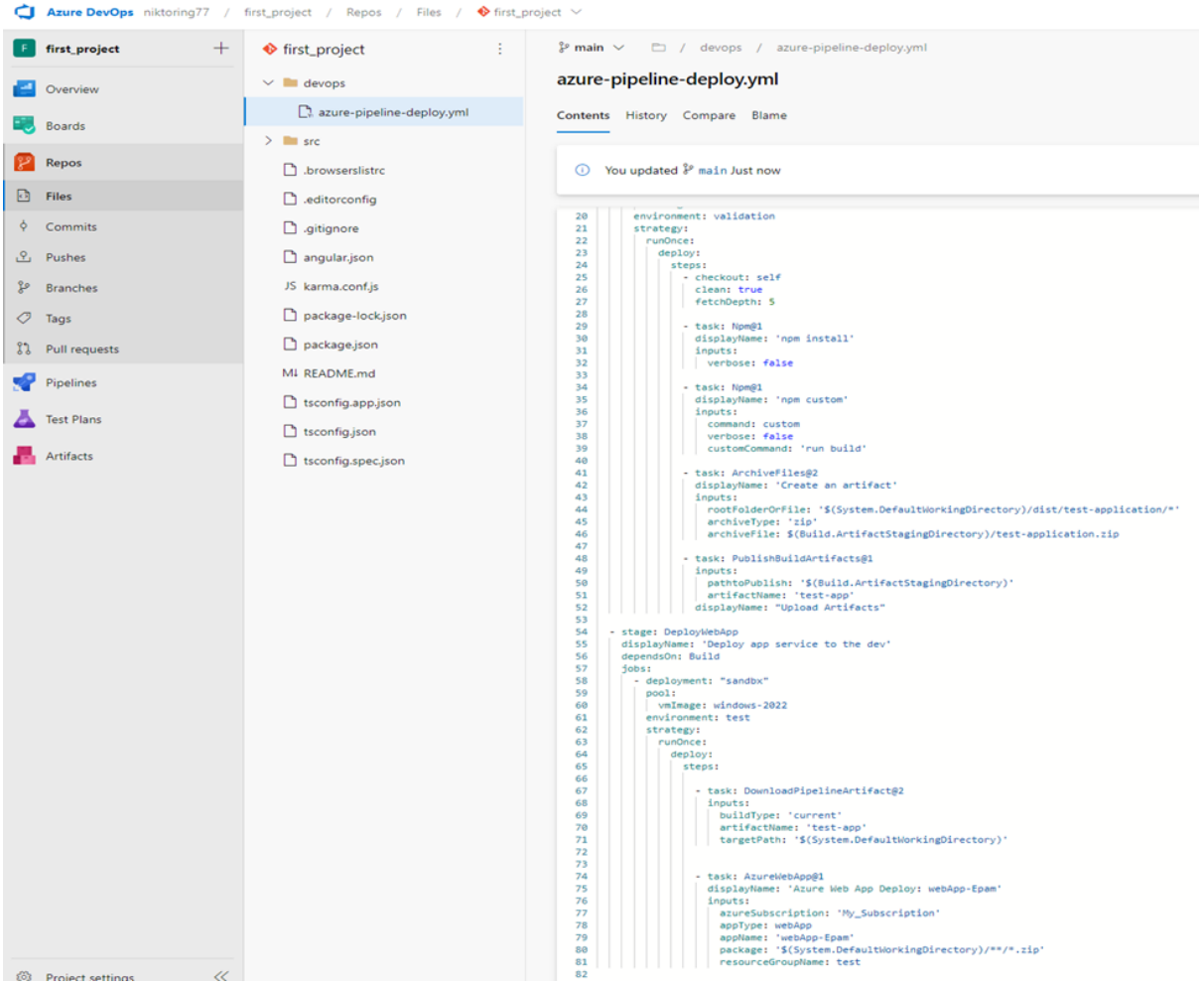



**We need to add:**

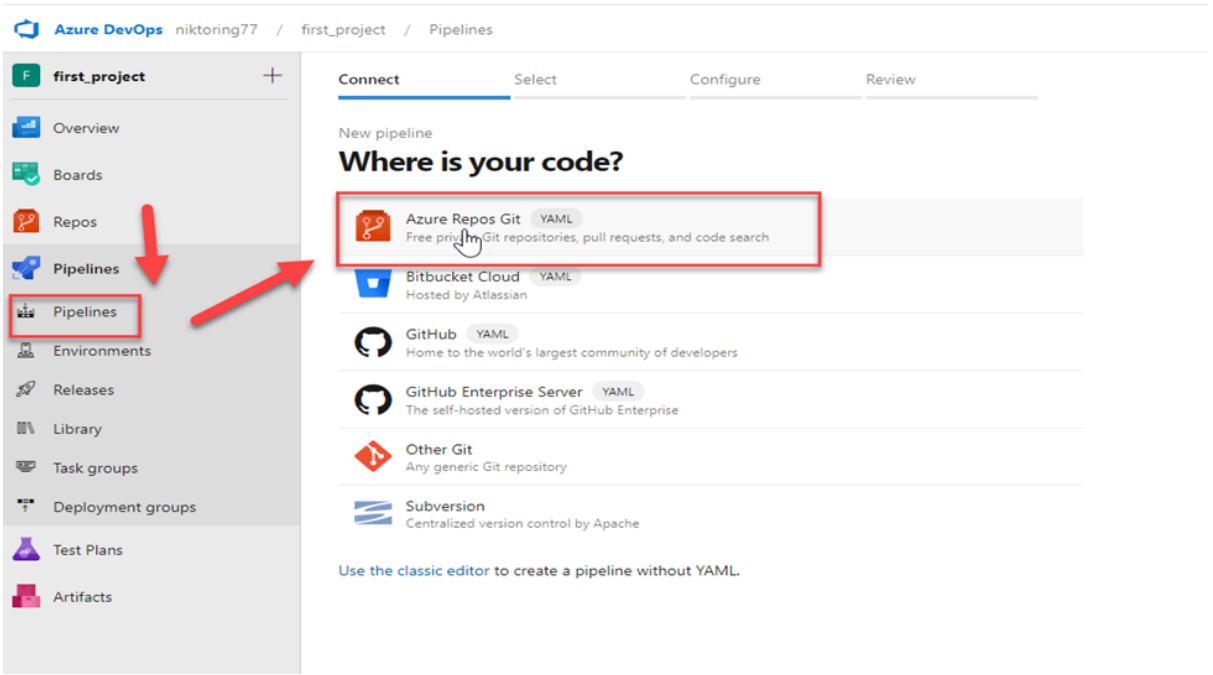
```
package: '$(System.DefaultWorkingDirectory)/**/*.zip'

resourceGroupName: test
```

```yaml
azure-pipeline-deploy.yml
                    pathtoPublish: '$(Build.ArtifactStagingDirectory)'
                    artifactName: 'test-app'
                displayName: "Upload Artifacts"

  - stage: DeployWebApp
    displayName: 'Deploy app service to the dev'
    dependsOn: Build
    jobs:
      - deployment: "sandbx"
        pool:
          vmImage: windows-2022
        environment: test
        strategy:
          runOnce:
            deploy:
              steps:

                - task: DownloadPipelineArtifact@2
                  inputs:
                    buildType: 'current'
                    artifactName: 'test-app'
                    targetPath: '$(System.DefaultWorkingDirectory)'


                - task: AzureWebApp@1
                  displayName: 'Azure Web App Deploy: webApp-Epam'
                  inputs:
                    azureSubscription: 'My_Subscription'
                    appType: webApp
                    appName: 'webApp-Epam'
                    package: '$(System.DefaultWorkingDirectory)/**/*.zip'
                    resourceGroupName: test
```

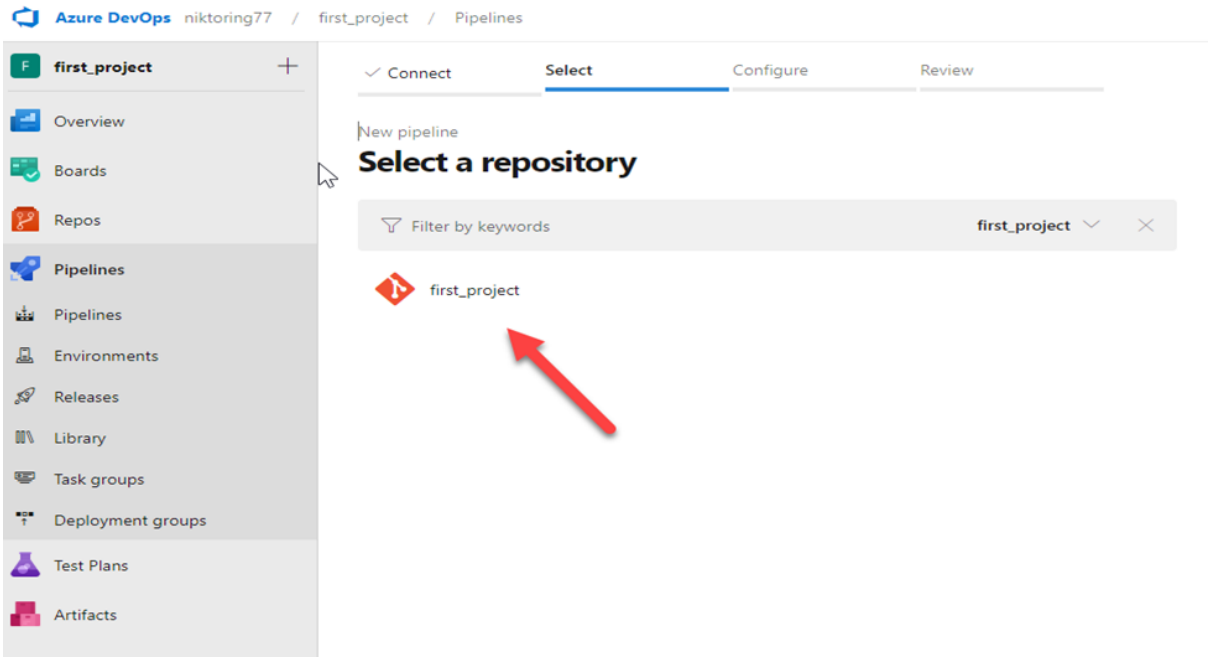
## Push changes to Azure repo



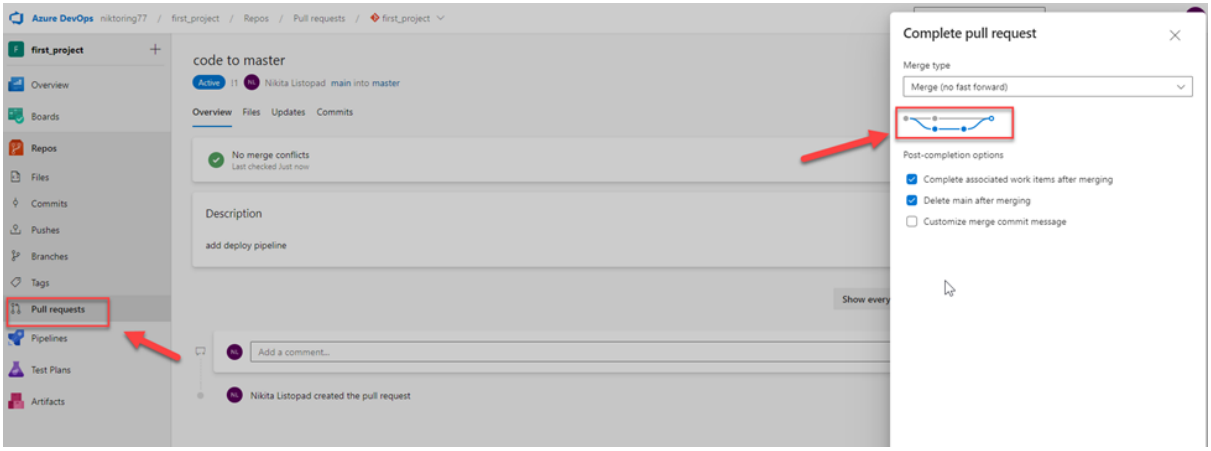

## Do pipeline



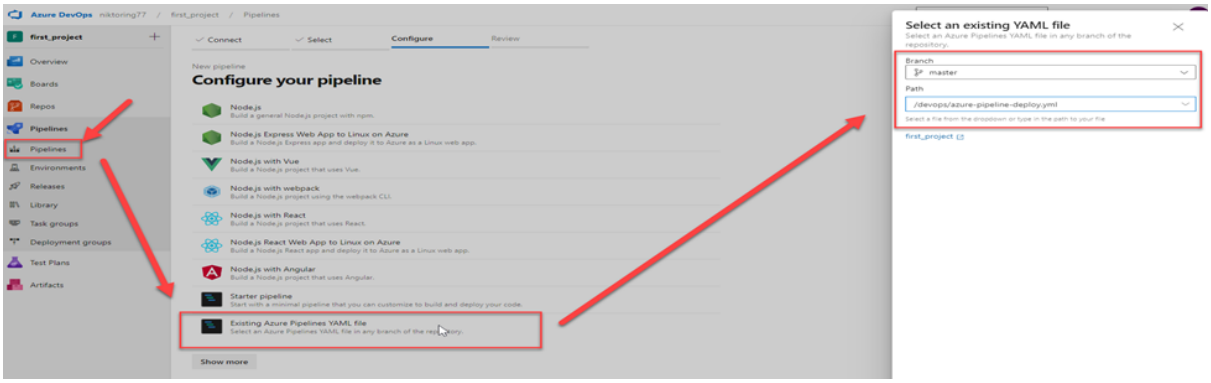
**Choose our app**



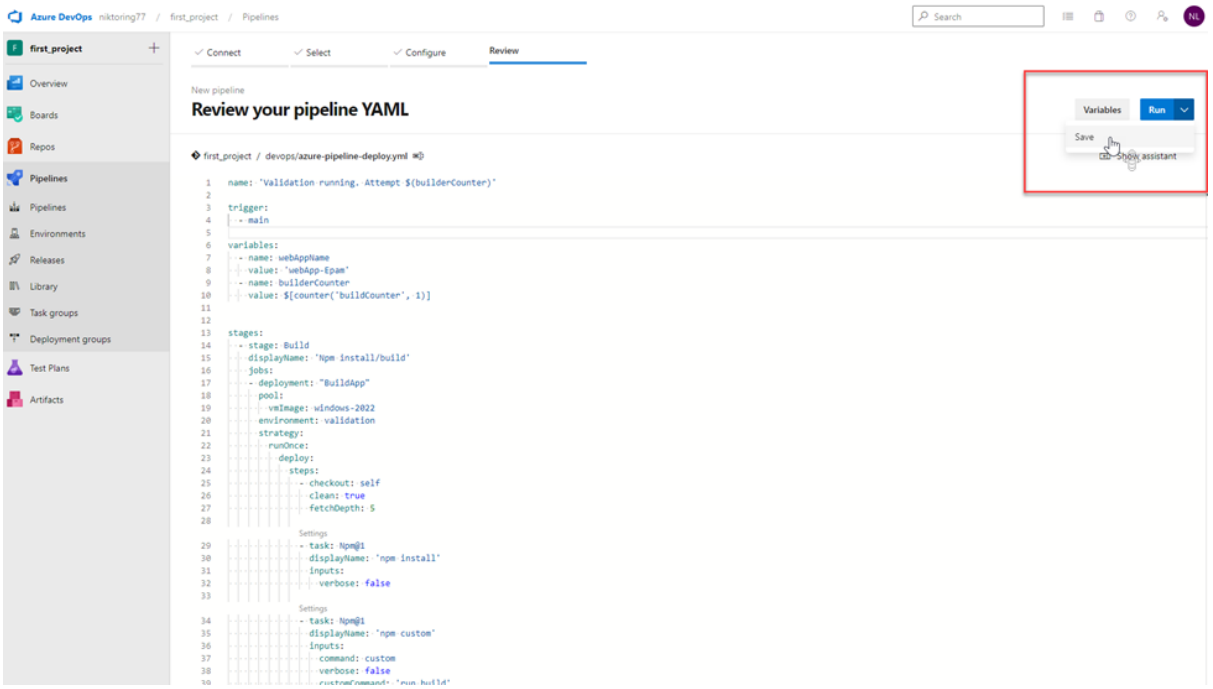

**I pushed to main branch. I need create merge request to DEFAULT branch. in my case it is Master**



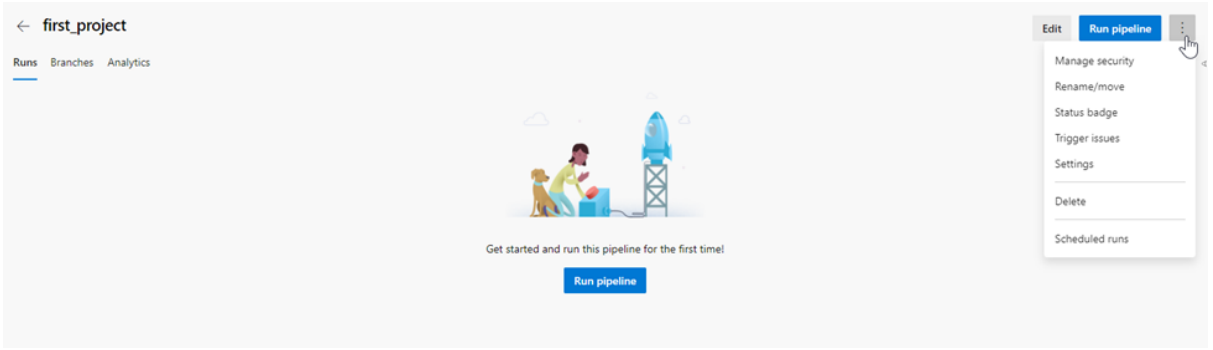

**Then**



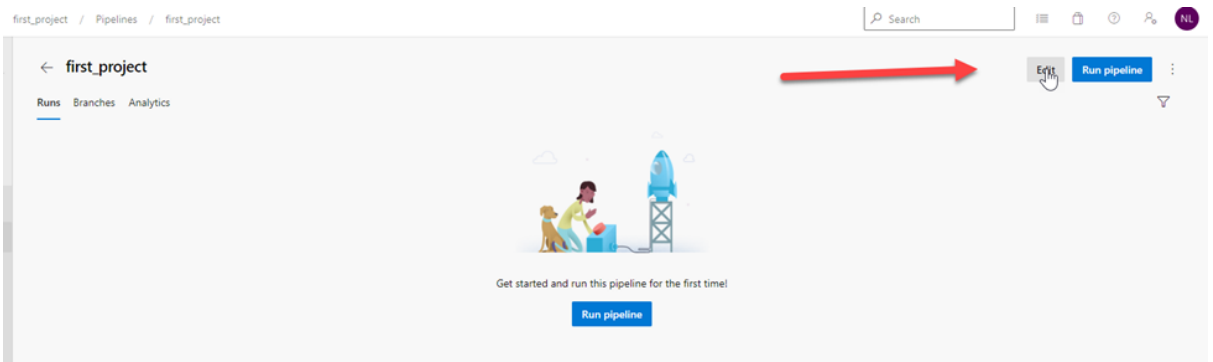

**Continue**



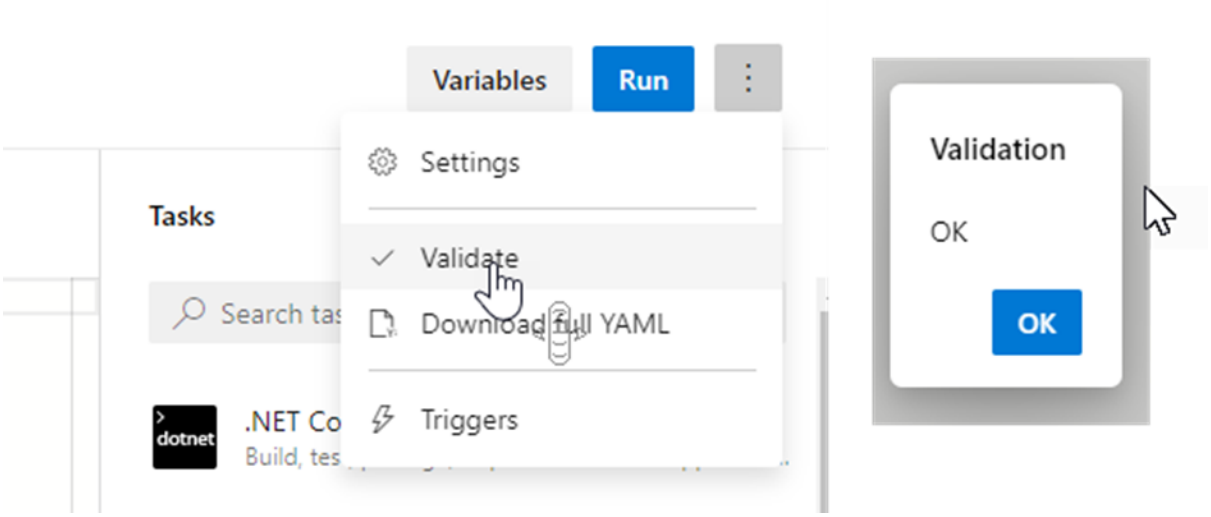

## We have useful options



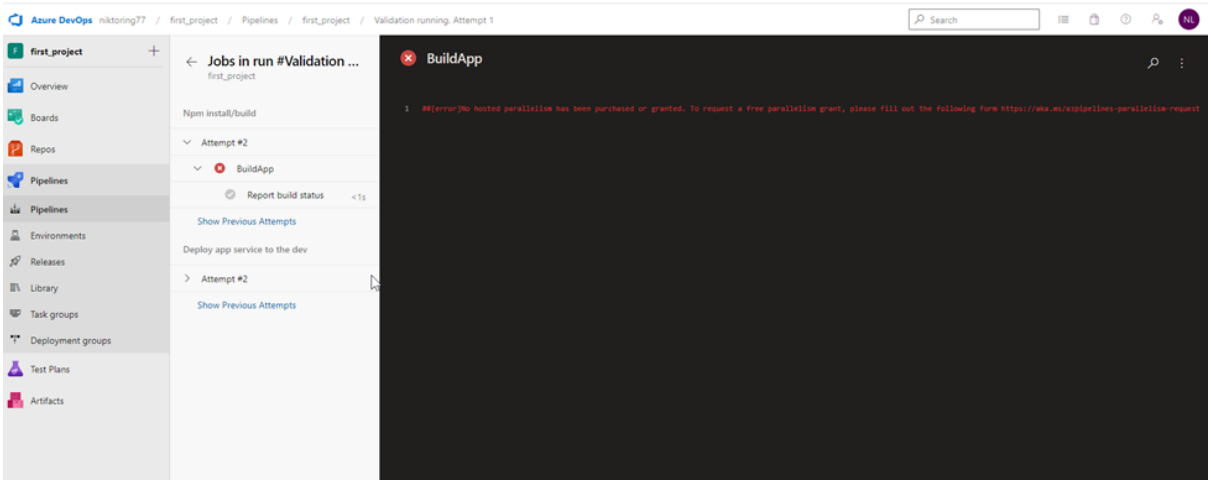

## Edit



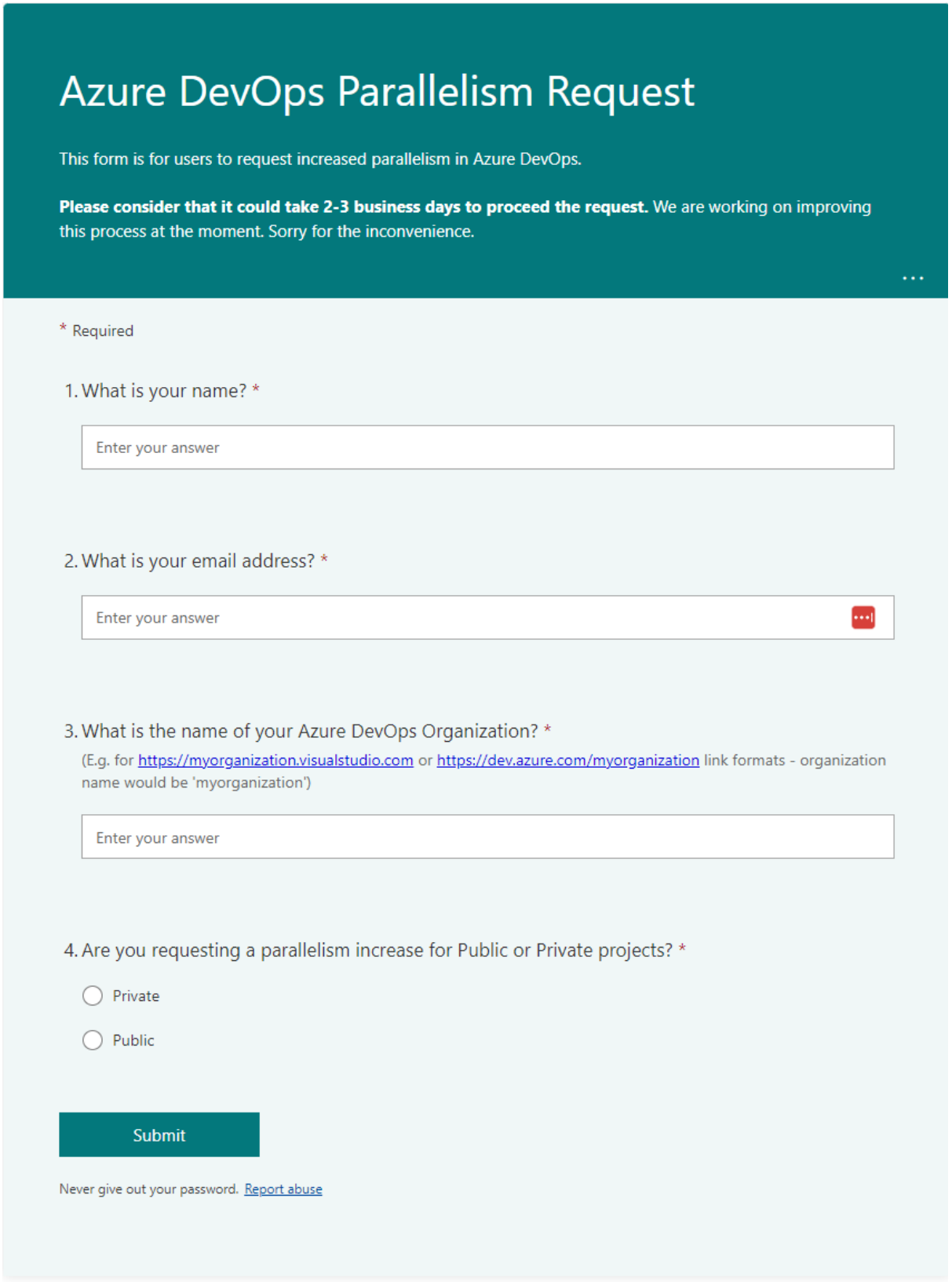
## Check valid our file .yml




## Run pipeline

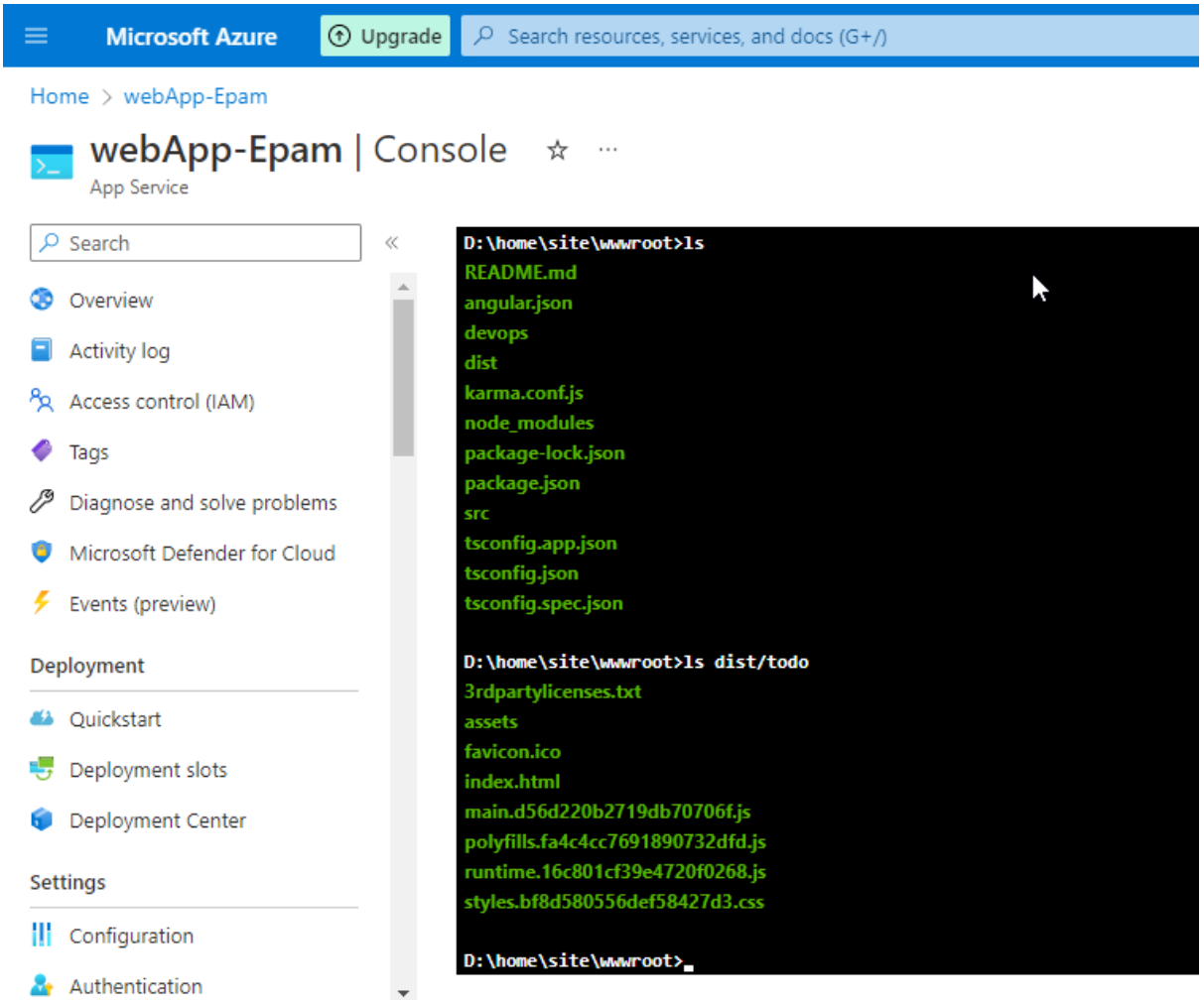


**Send request**
**https://forms.office.com/pages/responsepage.aspx?id=v4j5cvGGr0GRqy180BHbR63mUWPIq7NEsFZhkyH8jChUMlM3QzdDMFZOMkVBWU5BWFM3SDI2QlRBSC4u**



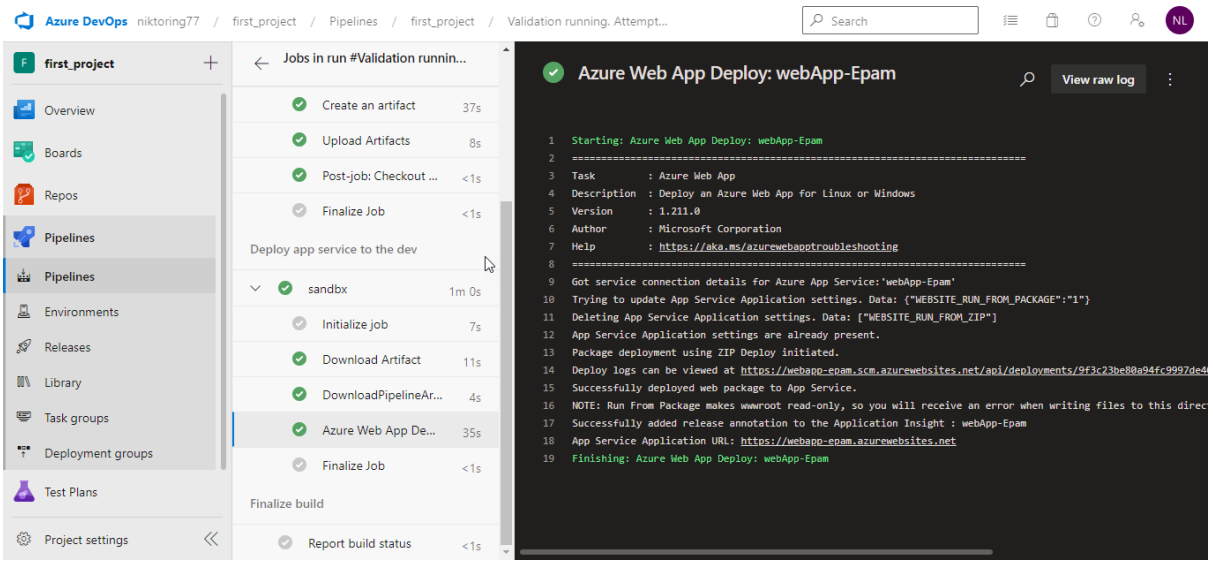

Approval

Where is code on VM in Web-App

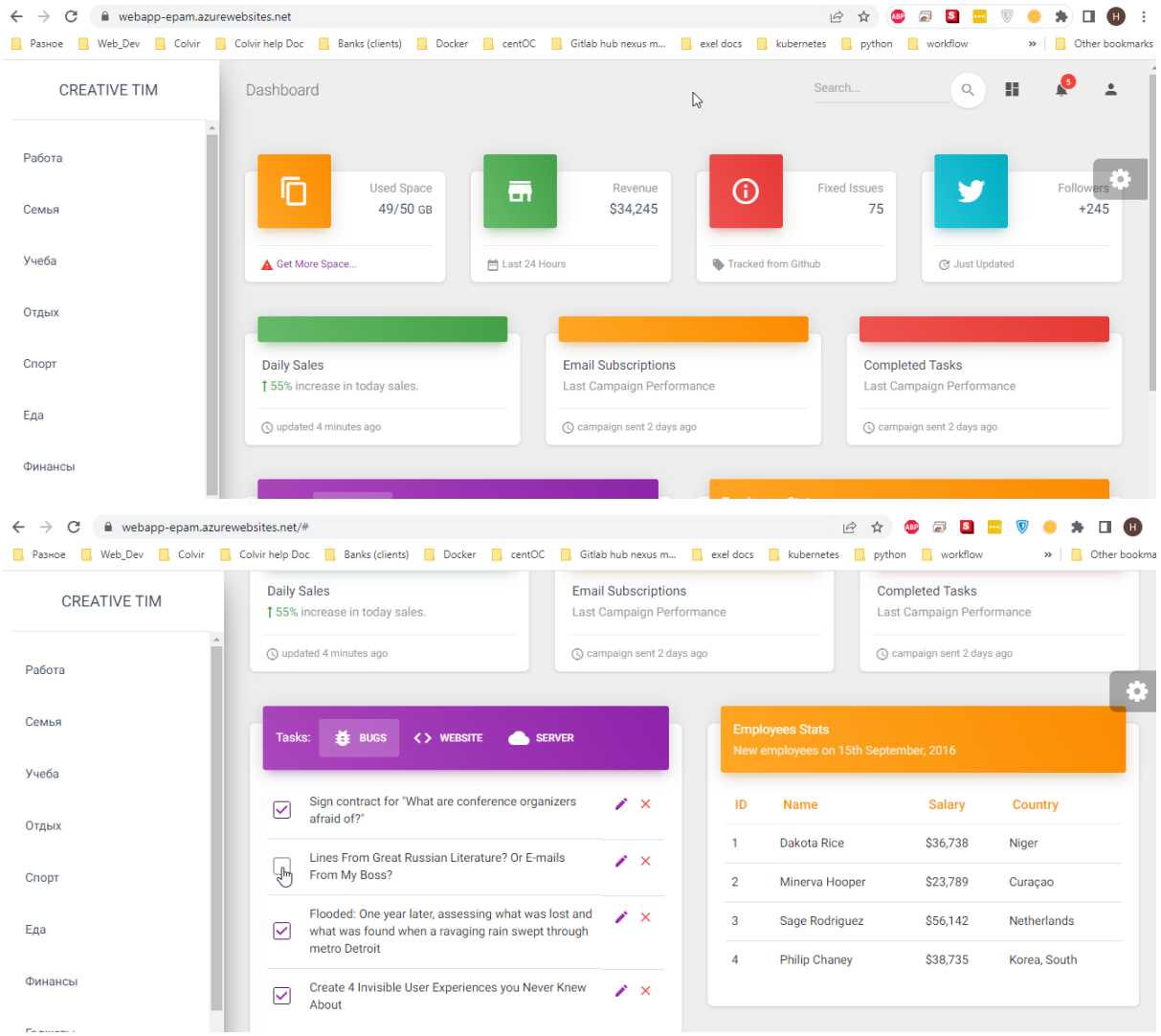



Successful  pipeline after error bind with:

```
rootFolderOrFile: '$(System.DefaultWorkingDirectory)/dist/todo/*'
```



## Show result


webapp-epam.azurewebsites.net
CREATIVE TIM
Dashboard
Search...
Работа
Семья
Учеба
Отдых
Спорт
Еда
Финансы
Used Space
49/50 GB
Get More Space...
Revenue
$34,245
Last 24 Hours
Fixed Issues
75
Tracked from Github
Followers
+245
Just Updated
Daily Sales
55% increase in today sales.
updated 4 minutes ago
Email Subscriptions
Last Campaign Performance
campaign sent 2 days ago
Completed Tasks
Last Campaign Performance
campaign sent 2 days ago
webapp-epam.azurewebsites.net/#
CREATIVE TIM
Daily Sales
55% increase in today sales.
updated 4 minutes ago
Email Subscriptions
Last Campaign Performance
campaign sent 2 days ago
Completed Tasks
Last Campaign Performance
campaign sent 2 days ago
Tasks:
BUGS
WEBSITE
SERVER
Sign contract for "What are conference organizers afraid of?"
Lines From Great Russian Literature? Or E-mails From My Boss?
Flooded: One year later, assessing what was lost and what was found when a ravaging rain swept through metro Detroit
Create 4 Invisible User Experiences you Never Knew About
Employees Stats
New employees on 15th September, 2016
ID
Name
Salary
Country
1
Dakota Rice
$36,738
Niger
2
Minerva Hooper
$23,789
Curaçao
3
Sage Rodriguez
$56,142
Netherlands
4
Philip Chaney
$38,735
Korea, South