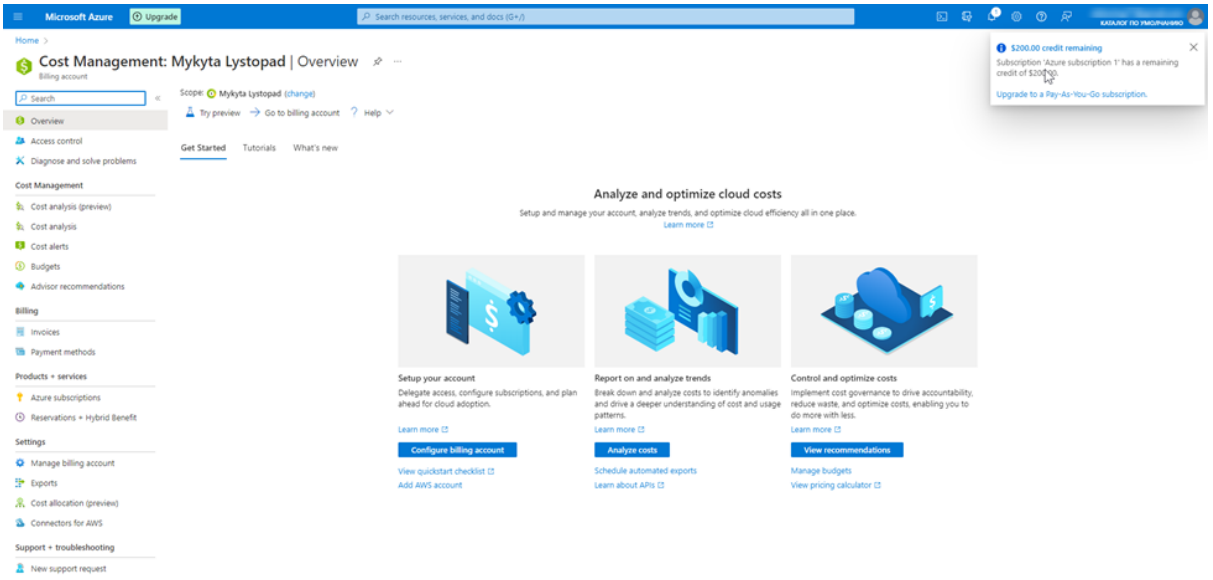
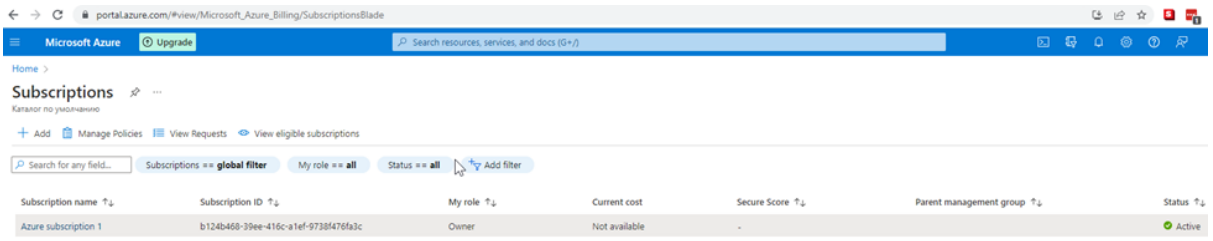
AZURE



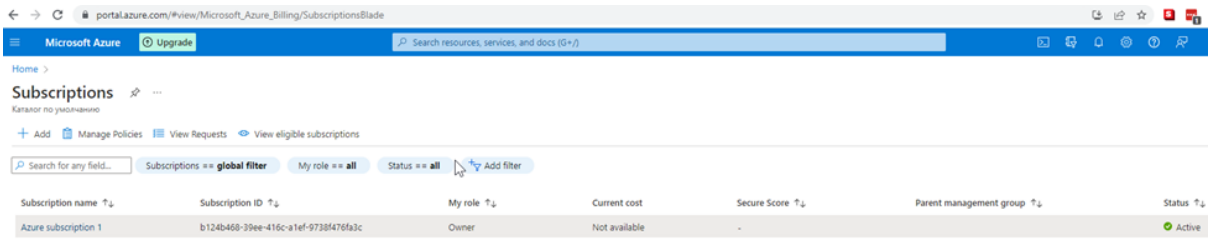
First of all you need to switch subscription in default directory for apply free billing 200 dollars !!!!!!!!!!

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

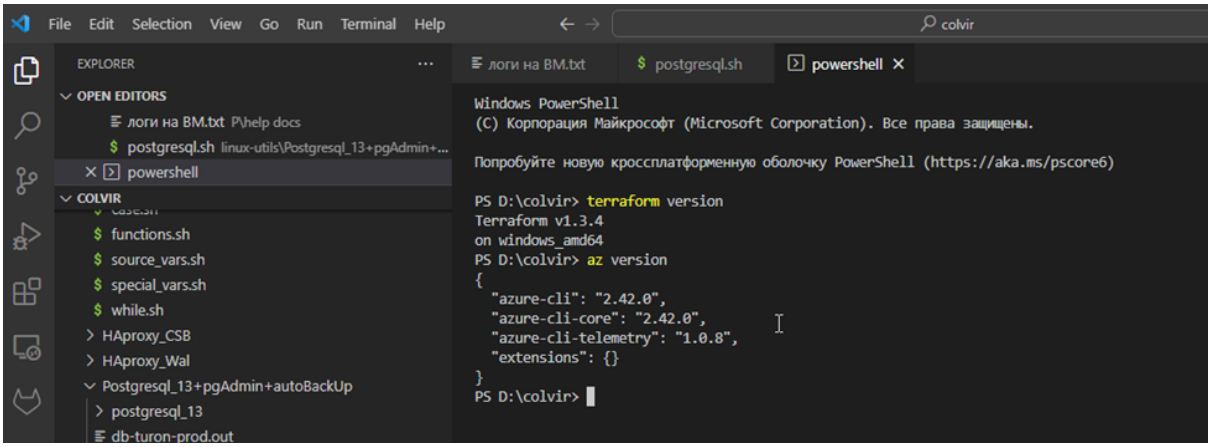
Terraform v1.3.4

on windows_amd64

3 Download and install Azure CLI

C:\Users\Nik>az version

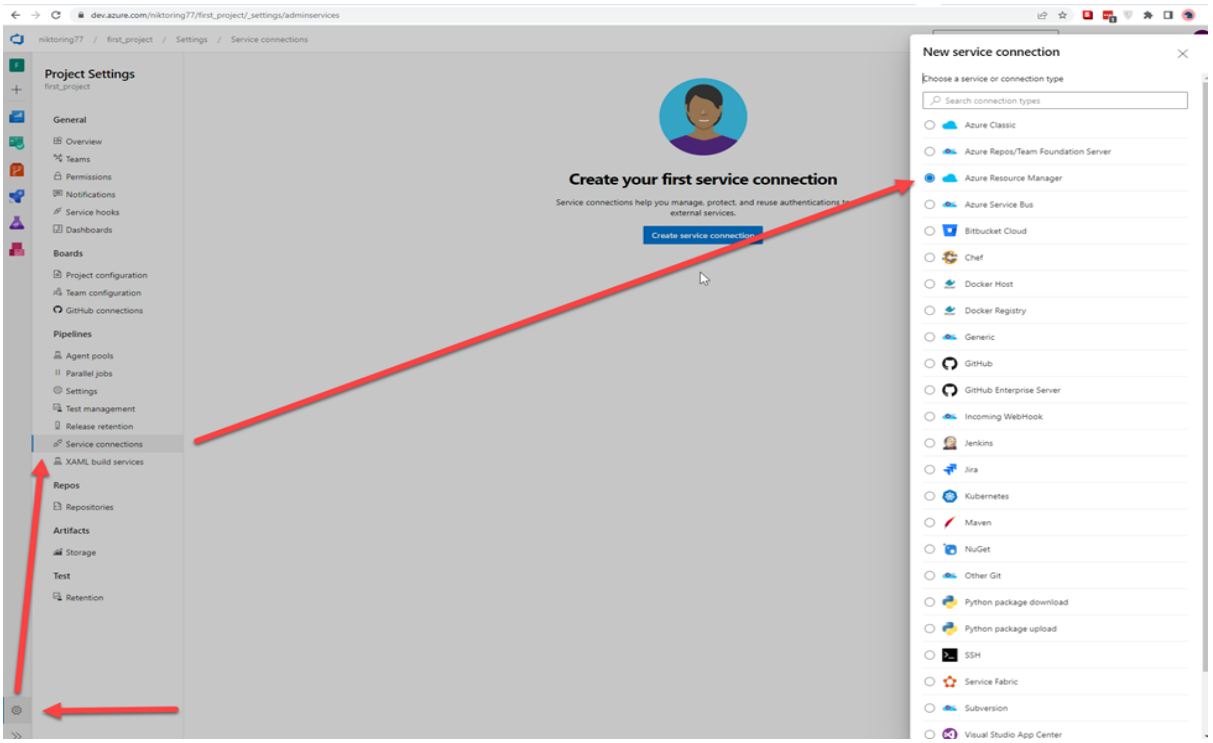
```
{
  "azure-cli": "2.42.0",
  "azure-cli-core": "2.42.0",
  "azure-cli-telemetry": "1.0.8",
  "extensions": {}
}
```

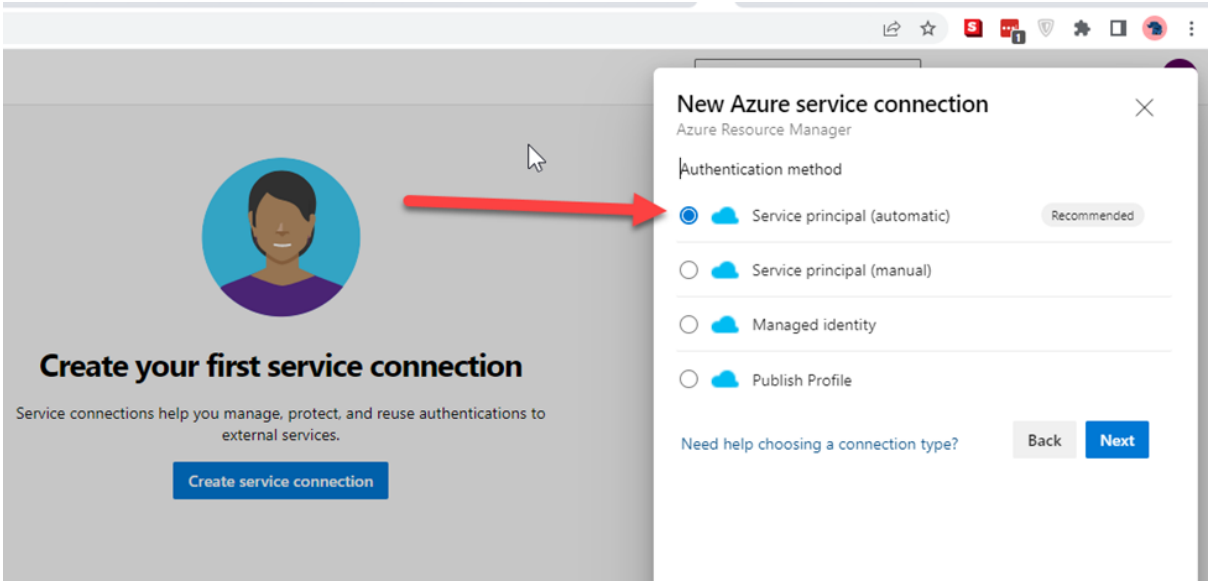


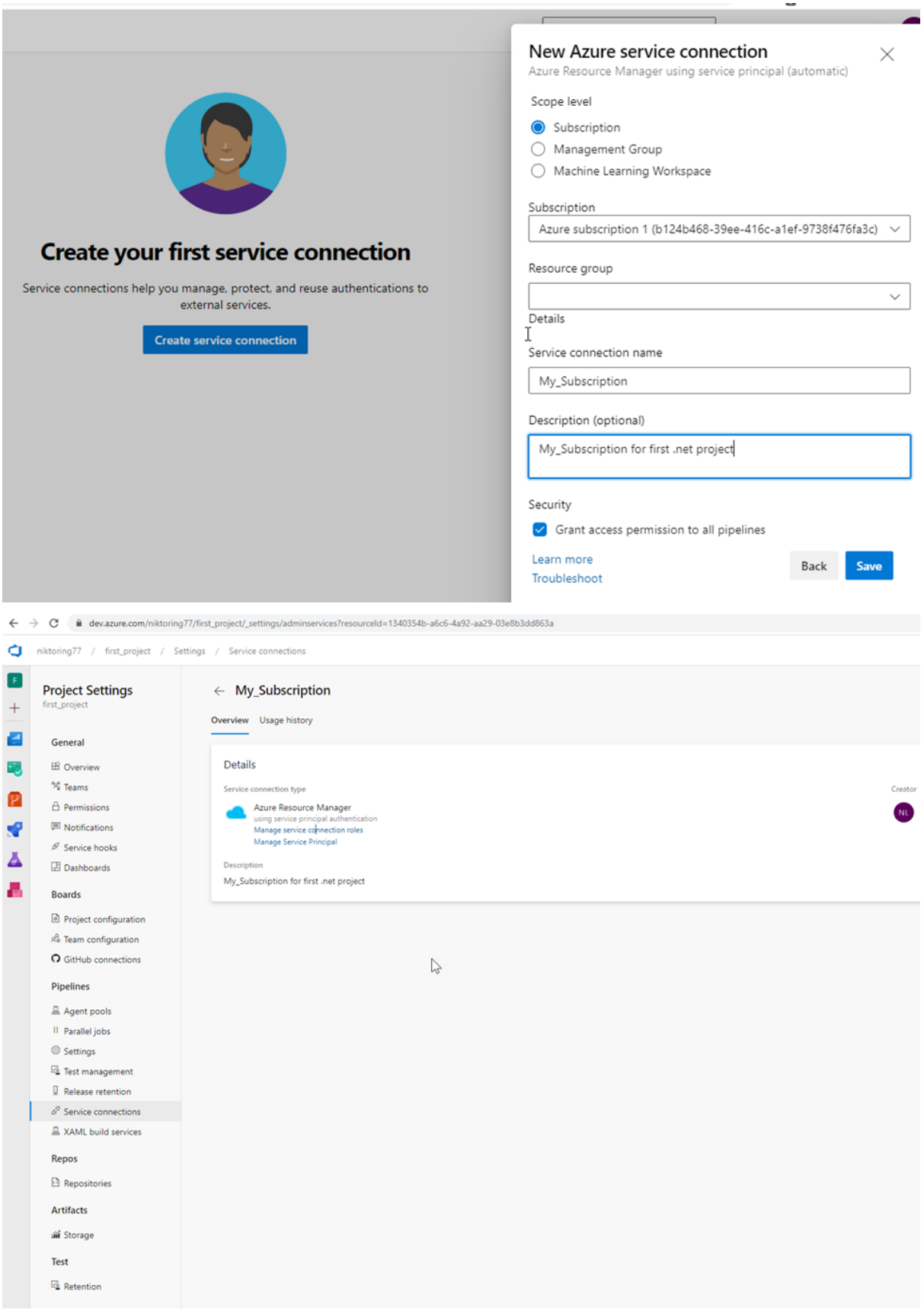
Homework

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

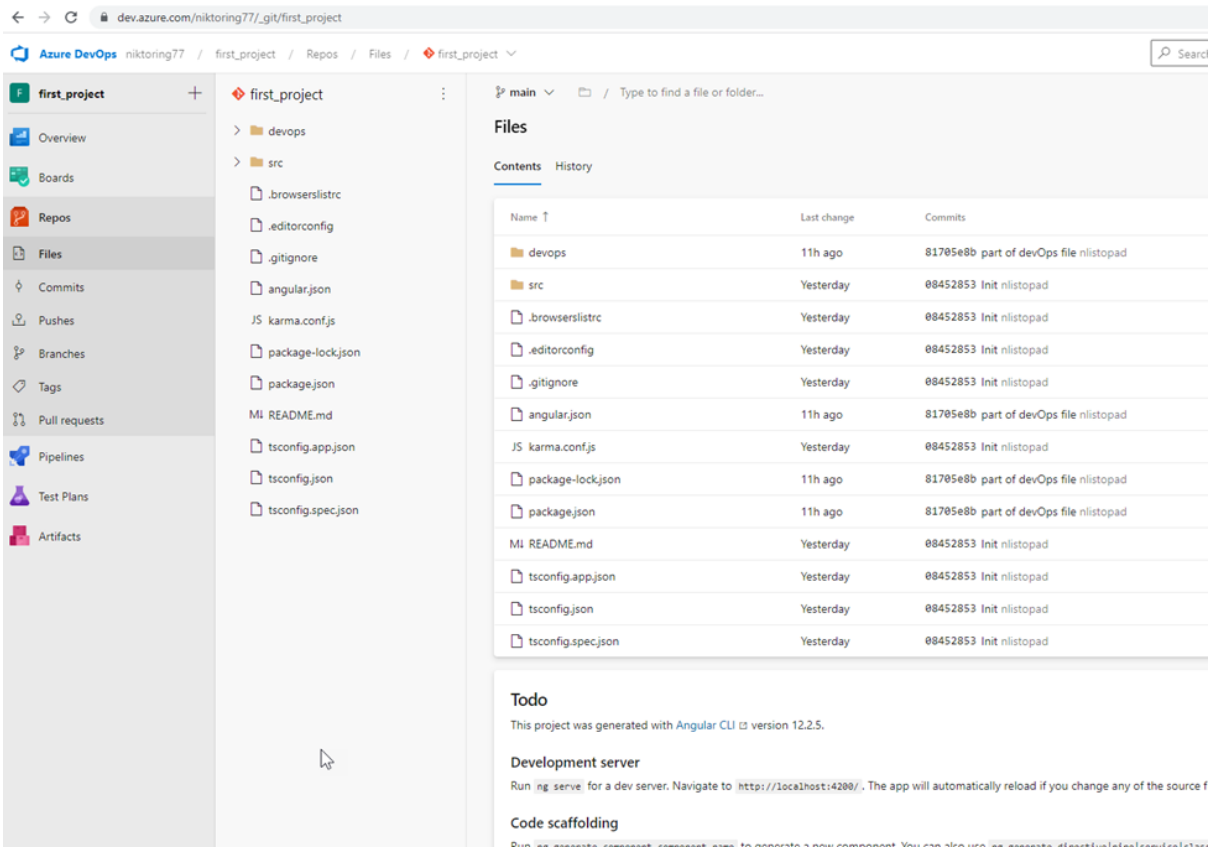





Create your first service connection
Service connections help you manage, protect, and reuse authentications to external services.
Create service connection
New Azure service connection
Azure Resource Manager using service principal (automatic)
Scope level
Subscription
Management Group
Machine Learning 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

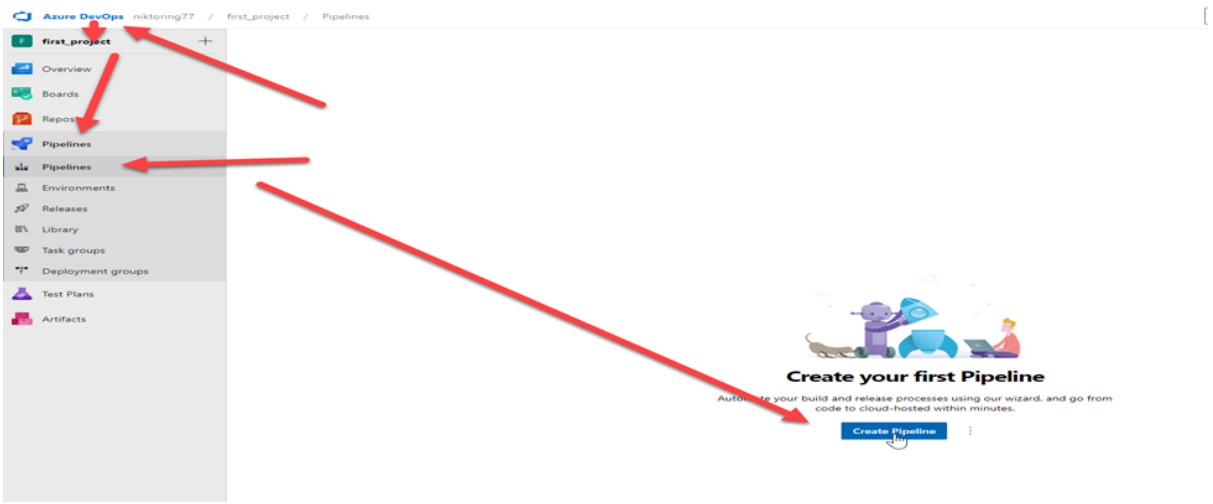
4 Create an Azure DevOps repo - https://learn.microsoft.com/en-us/azure/devops/repos/git/create-new-repo?view=azure-devops You can use import repository to import from existing source control version like github

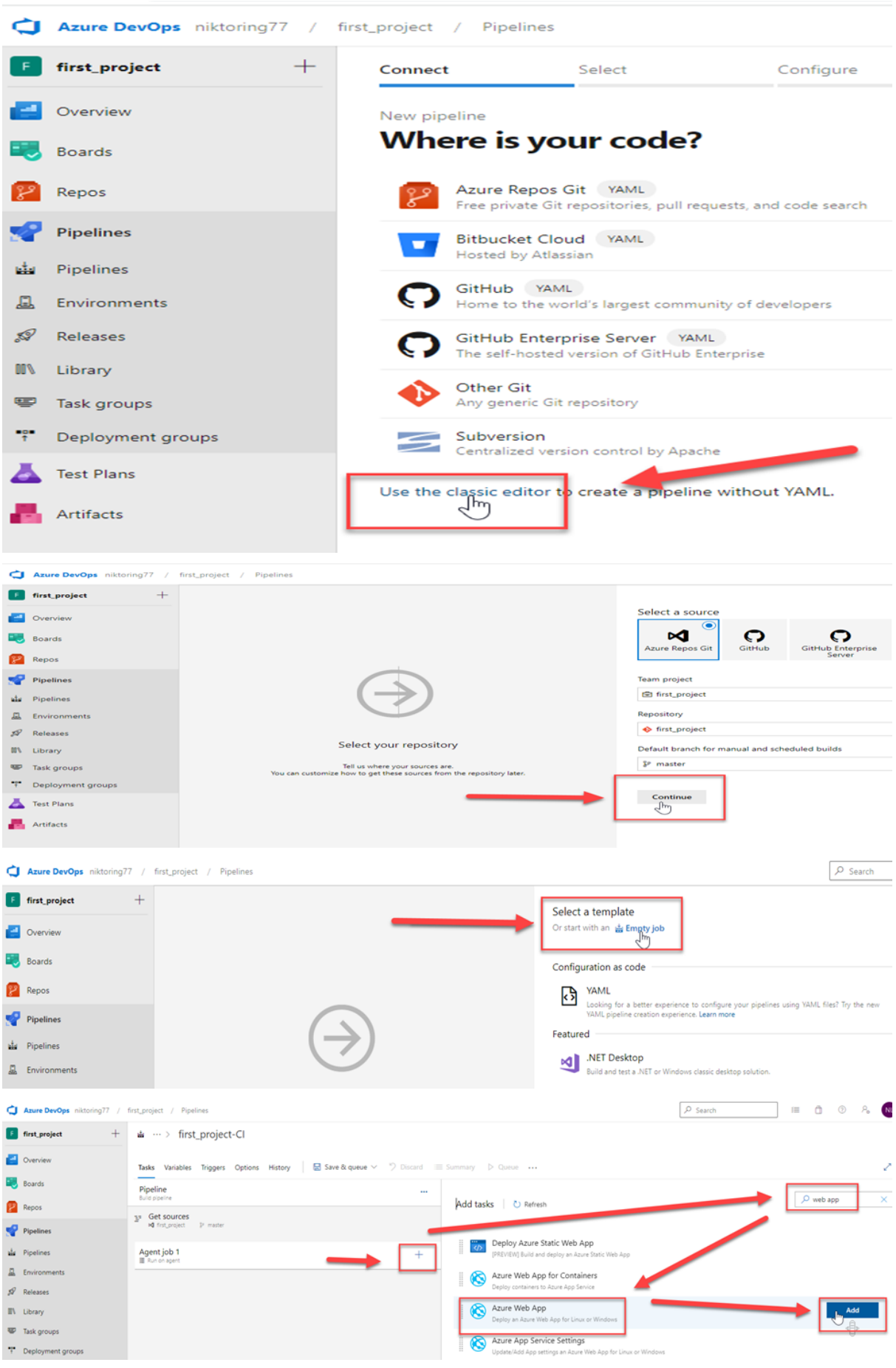
Add to Azure repo my project

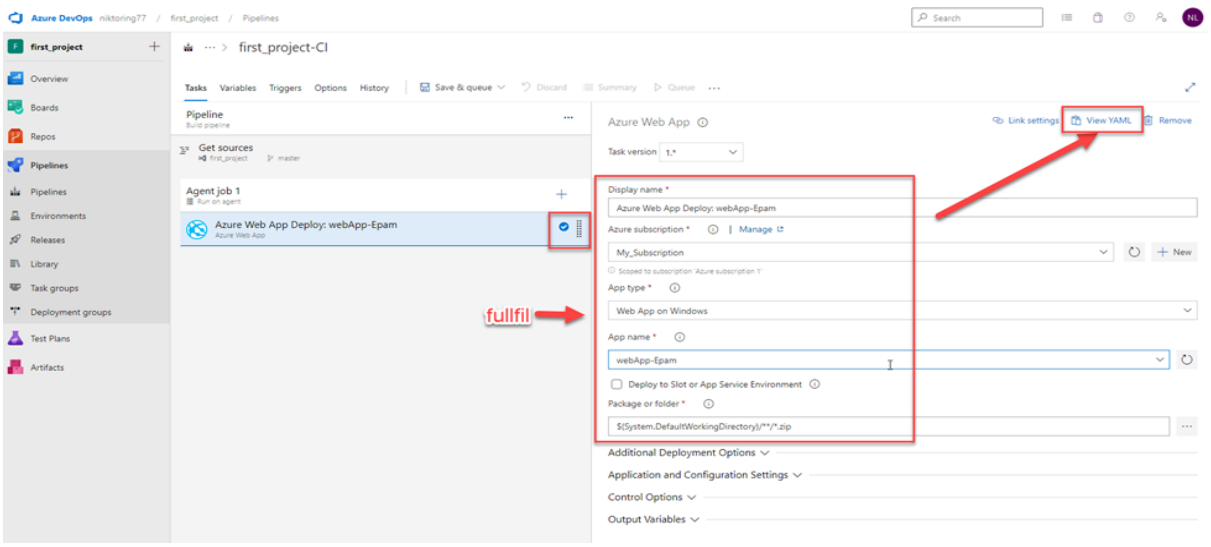


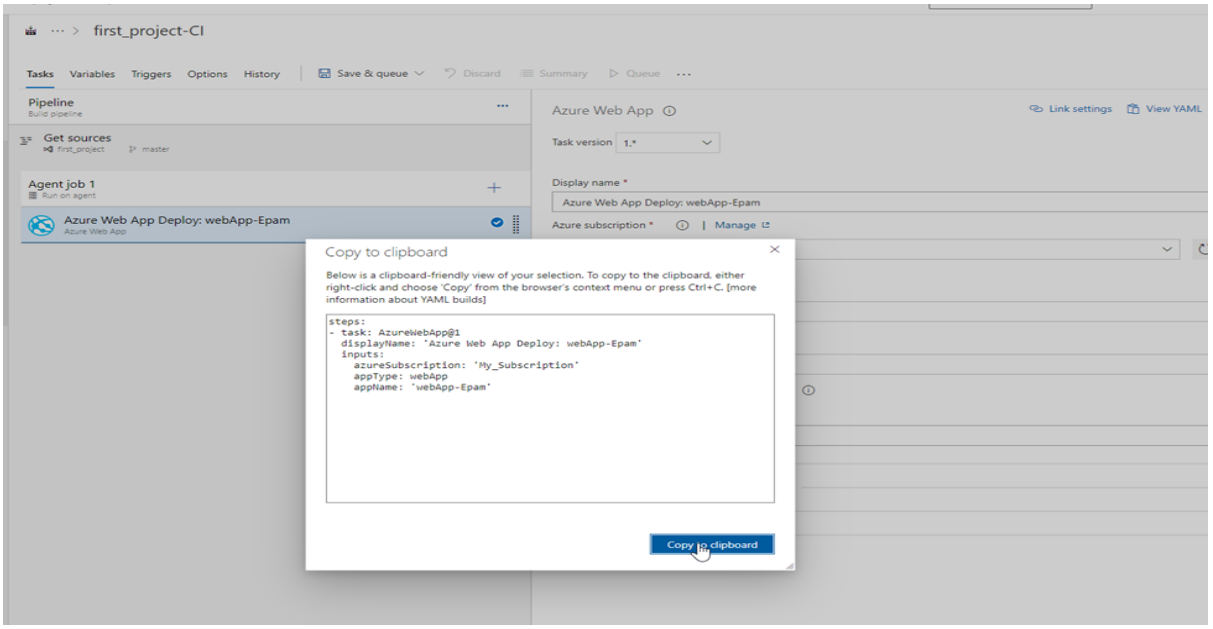
2) Find a .net pet project for the experiments. I find my Angular project

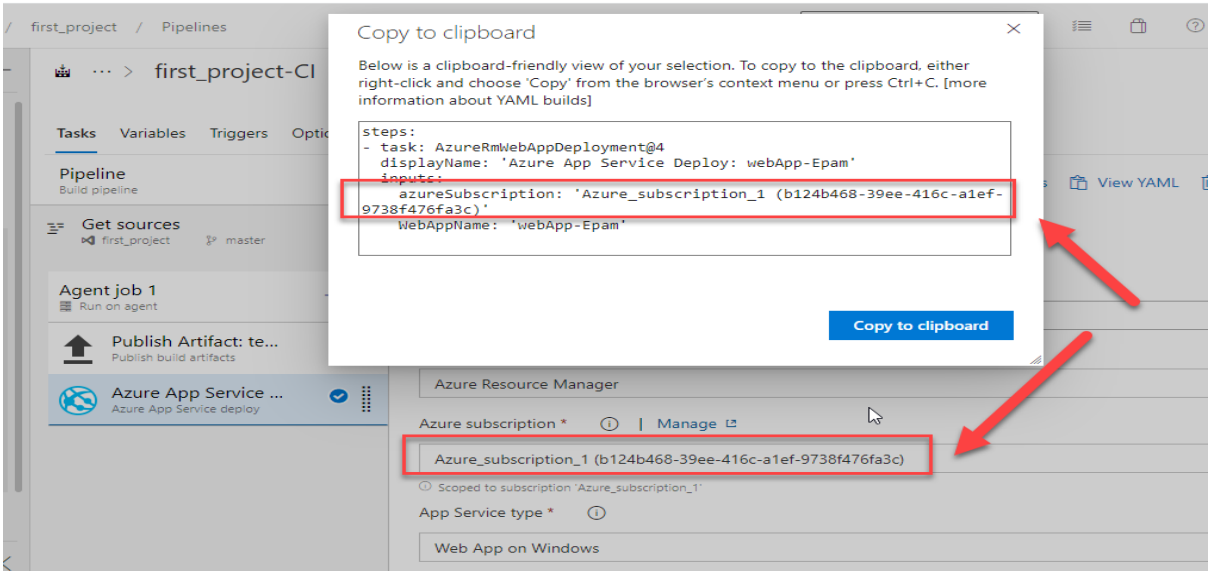
Create pipeline




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

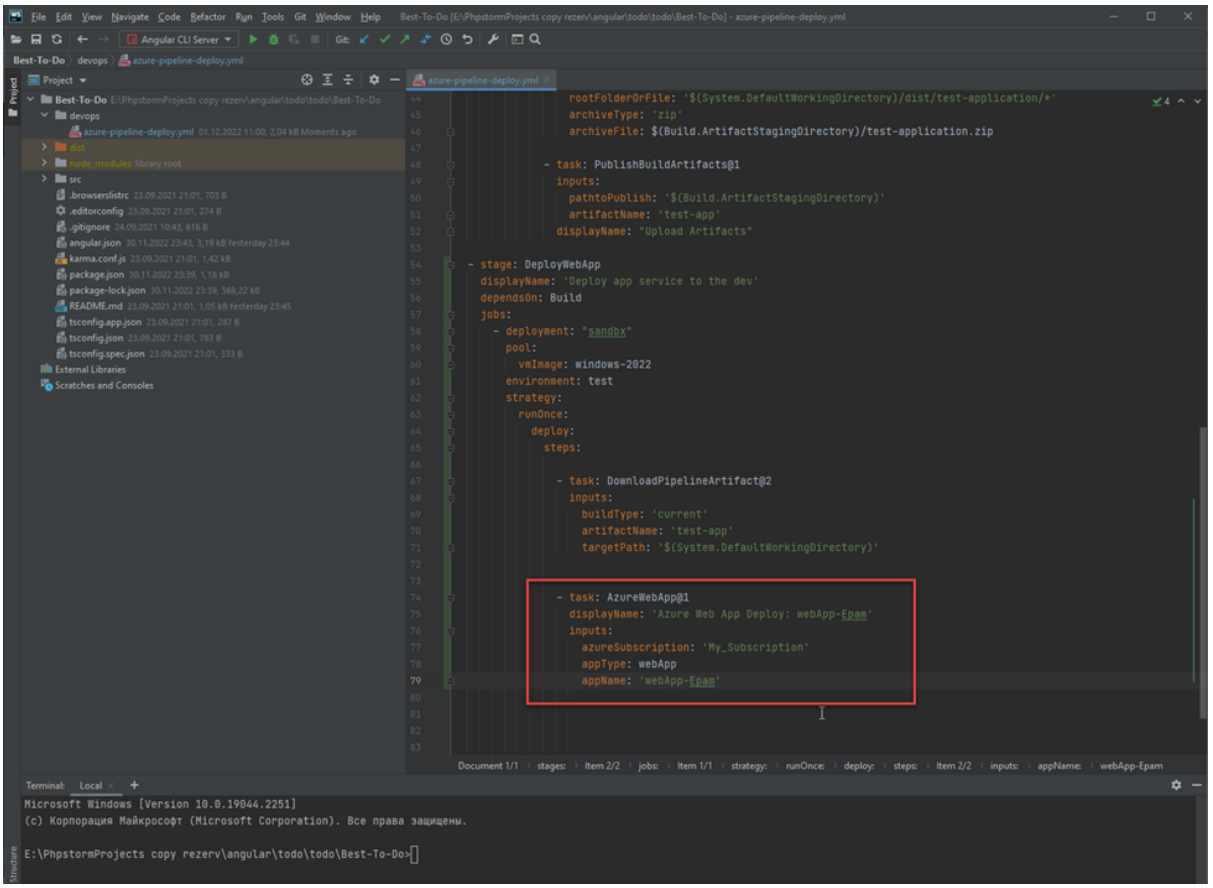






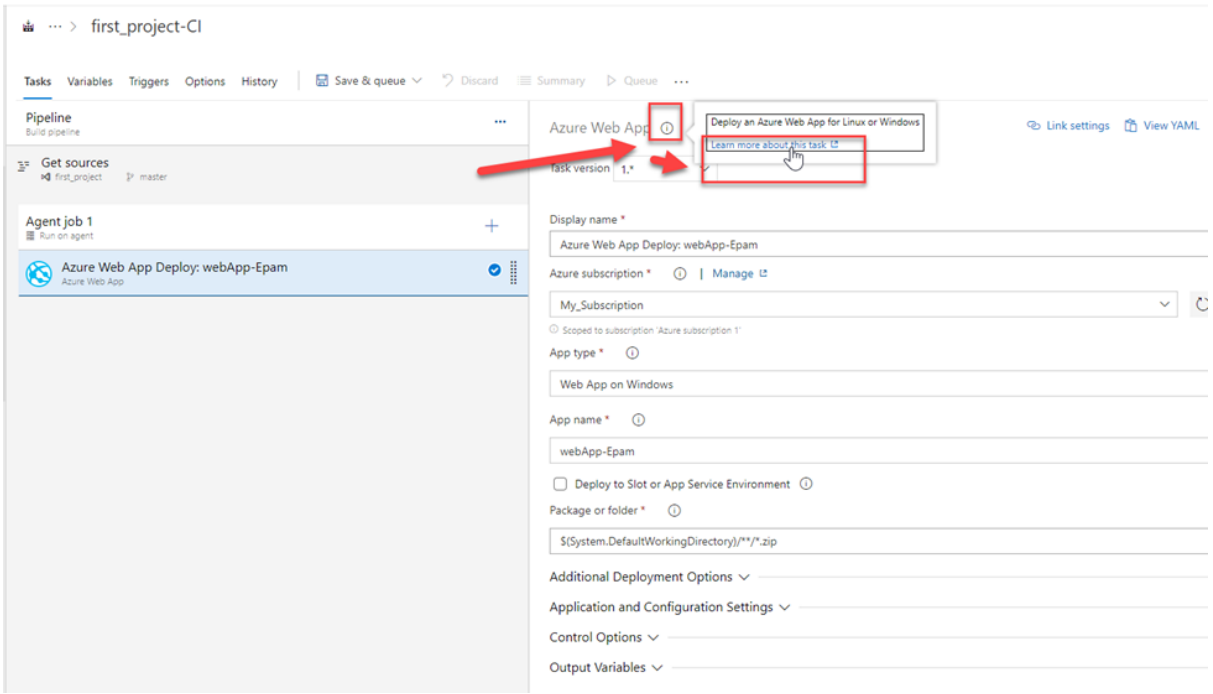
CREATE or APPROVE your subscribe !!!!!!

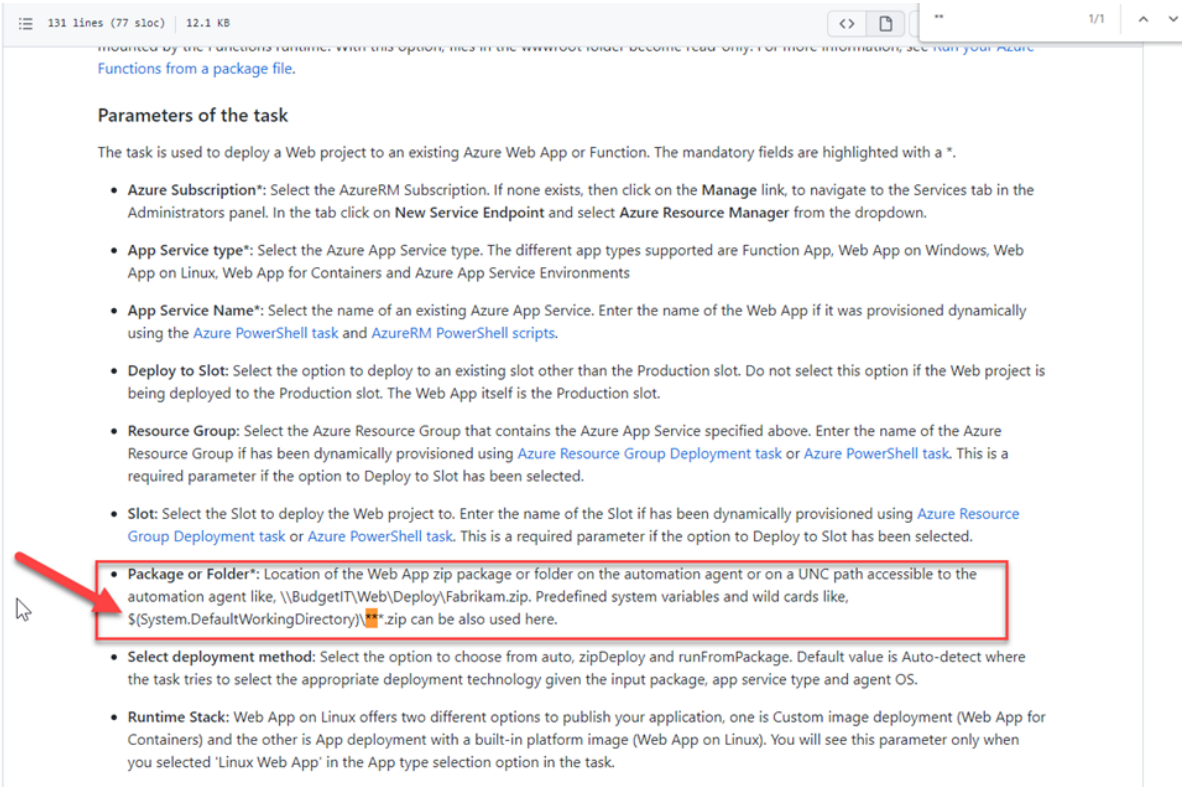
Add part of code to project



+ We need to add some parameters

Read in manual



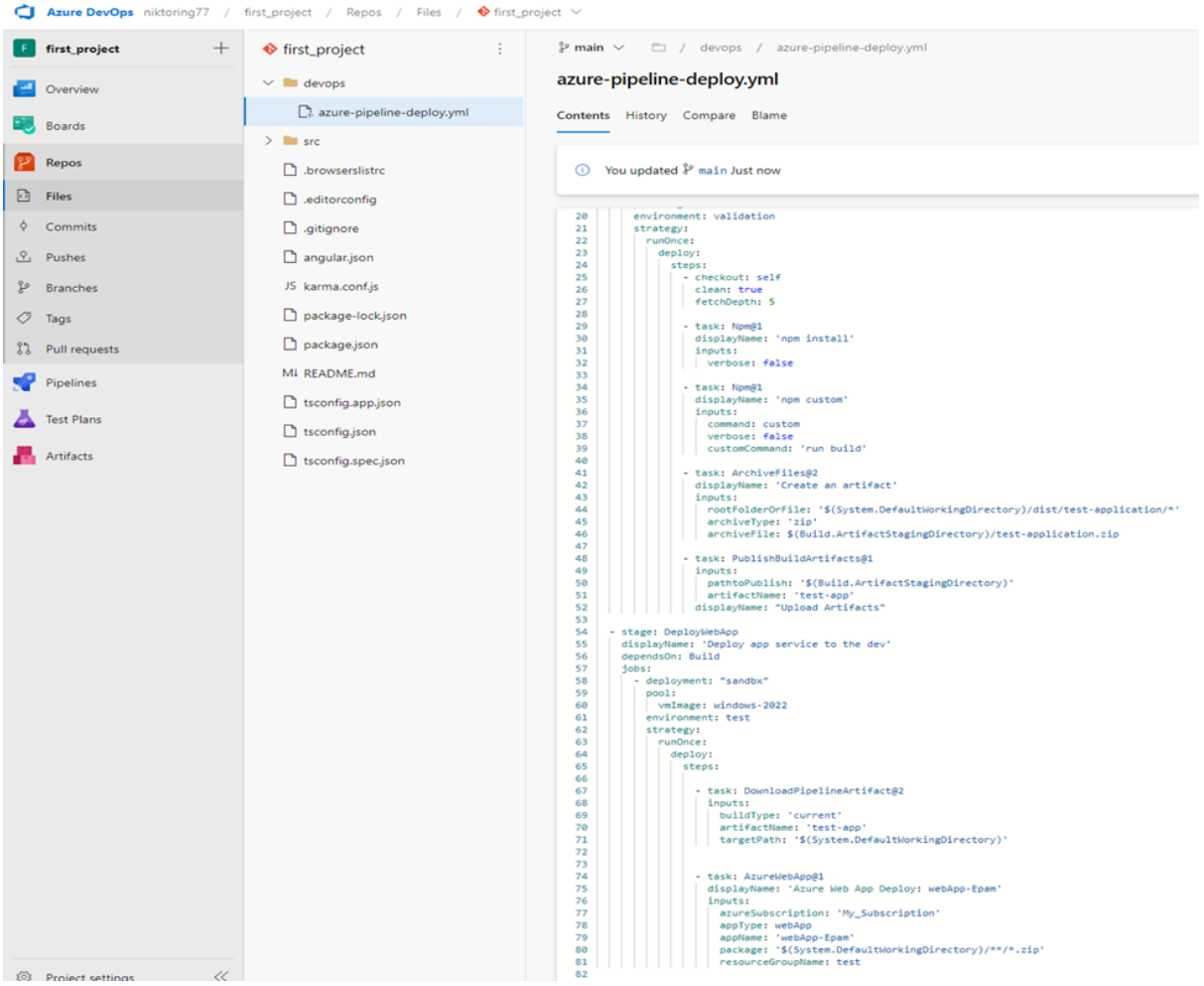


We need to add:

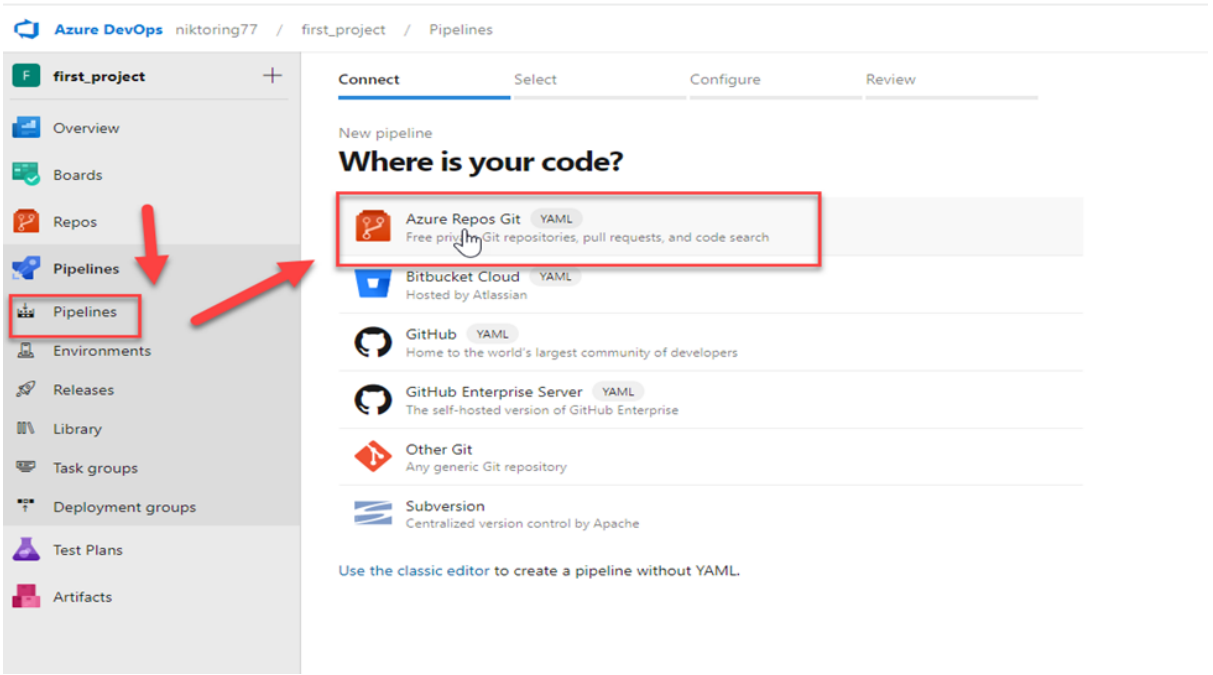
```
package: '$(System.DefaultWorkingDirectory)/**/*.zip'

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
```

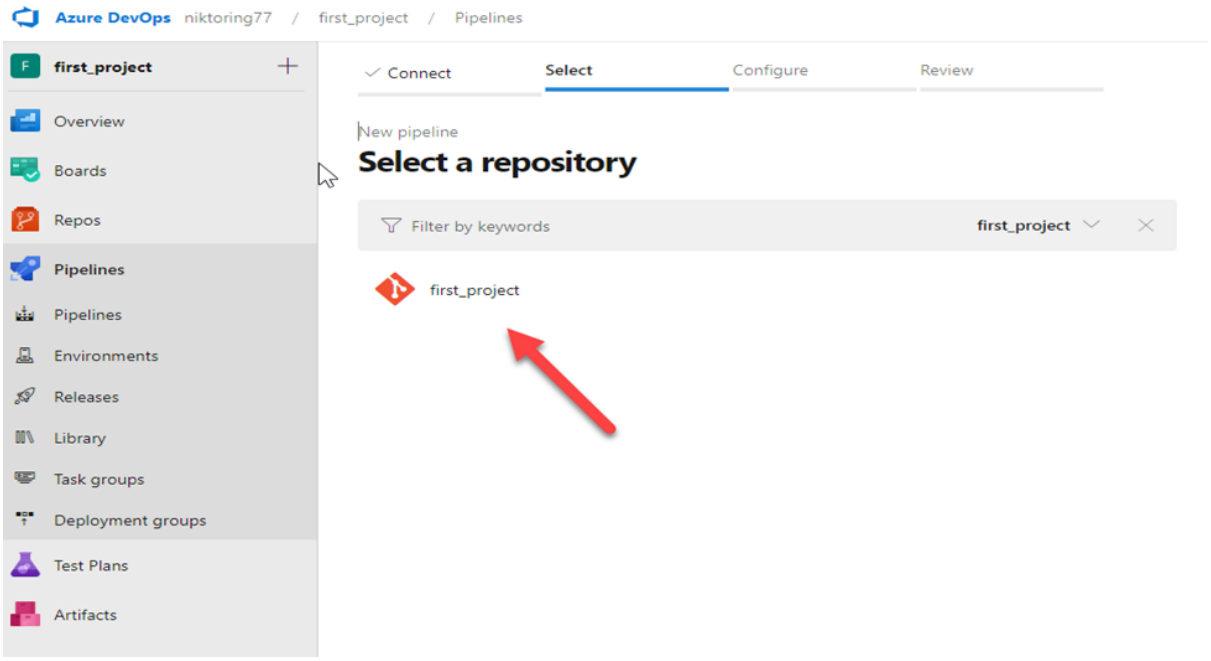
Push changes to Azure repo



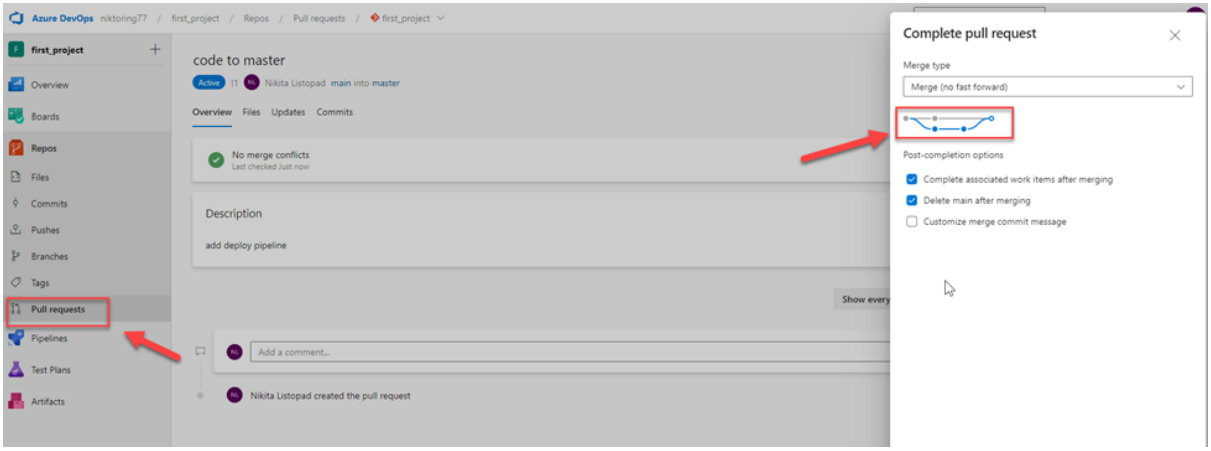
Do pipeline



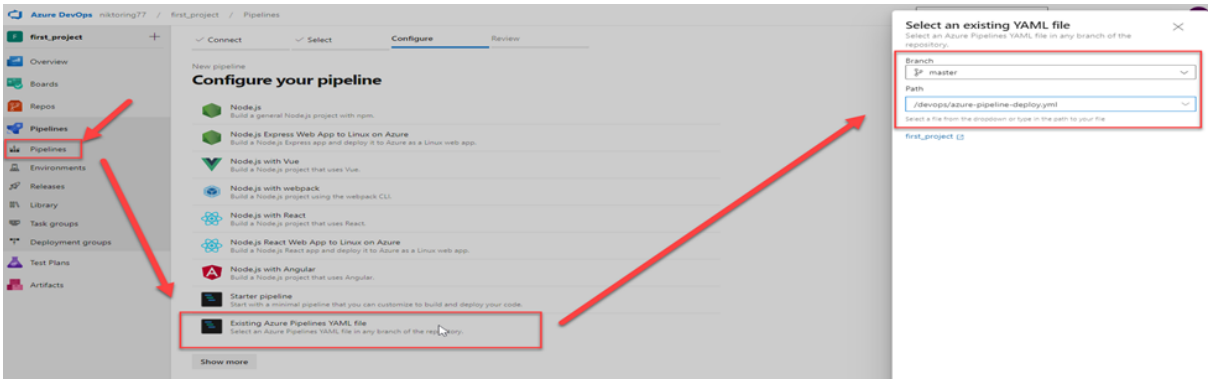
Choose our app



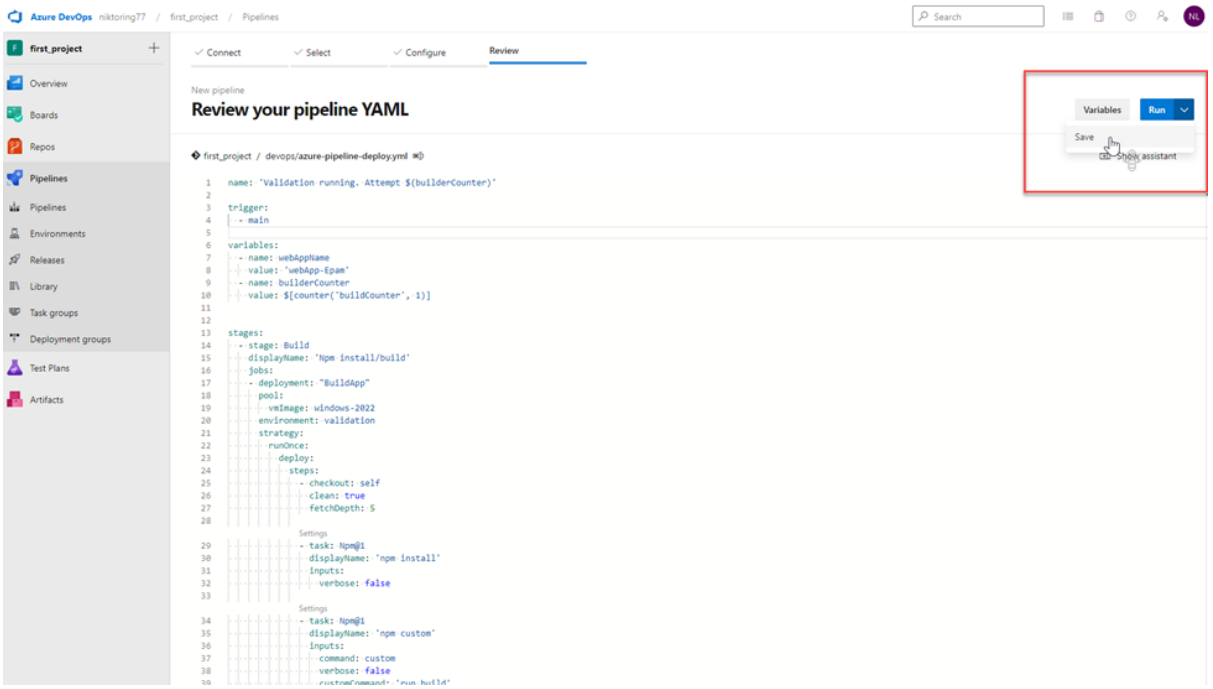
I pushed to main branch. I need create merge request to DEFAULT branch. in my case it is Master



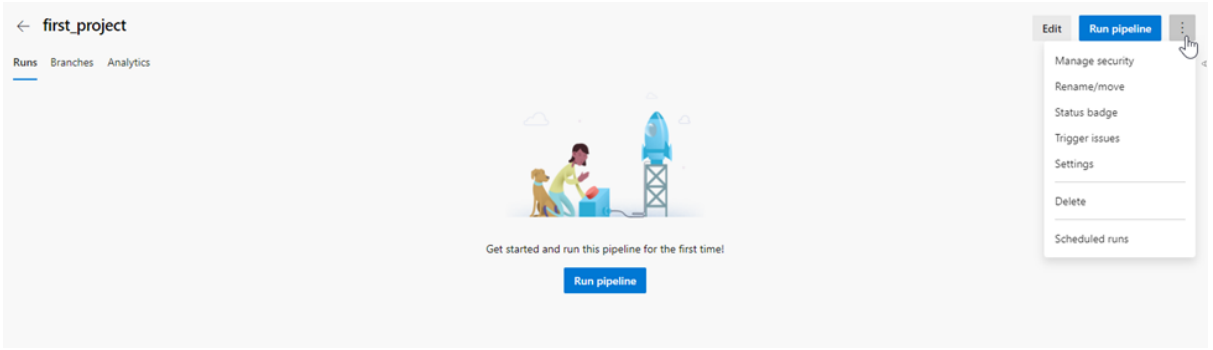
Then



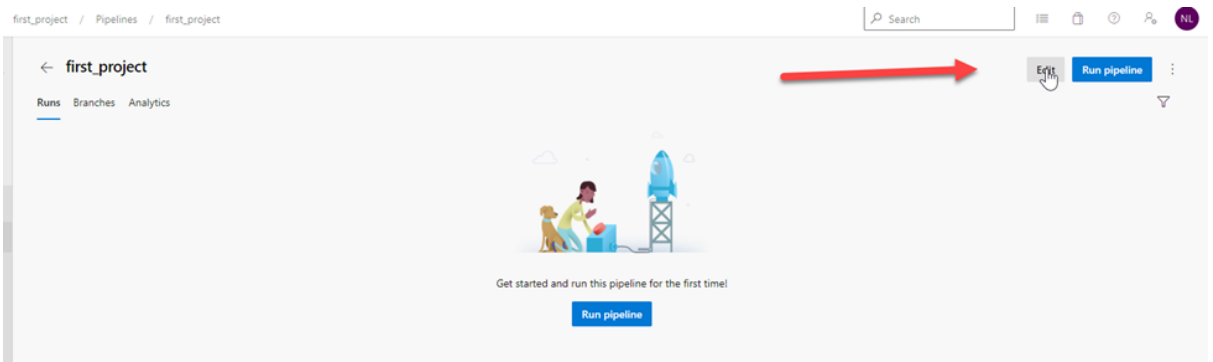
Continue



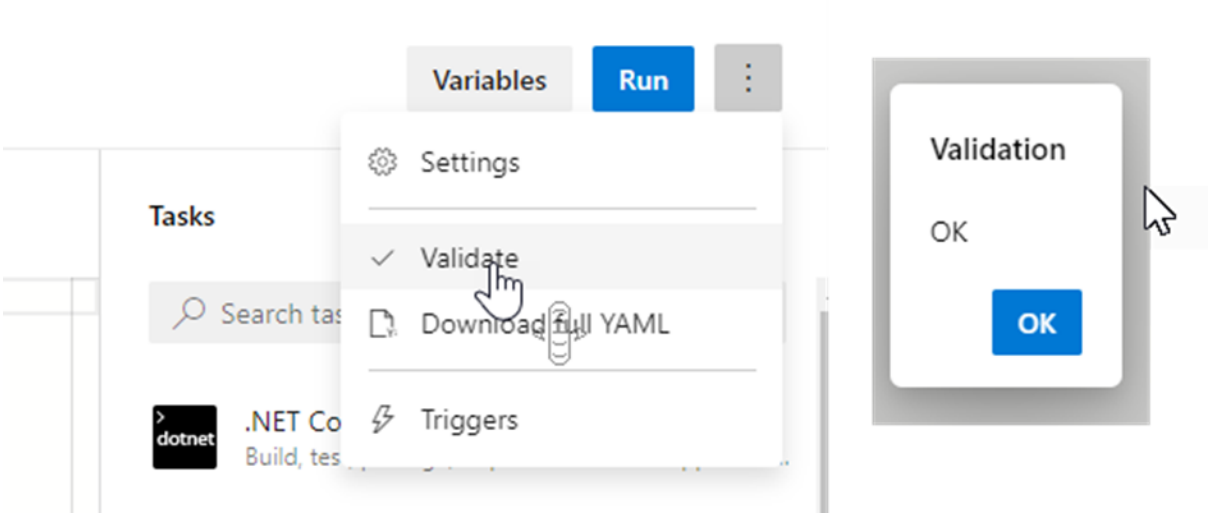
We have useful options



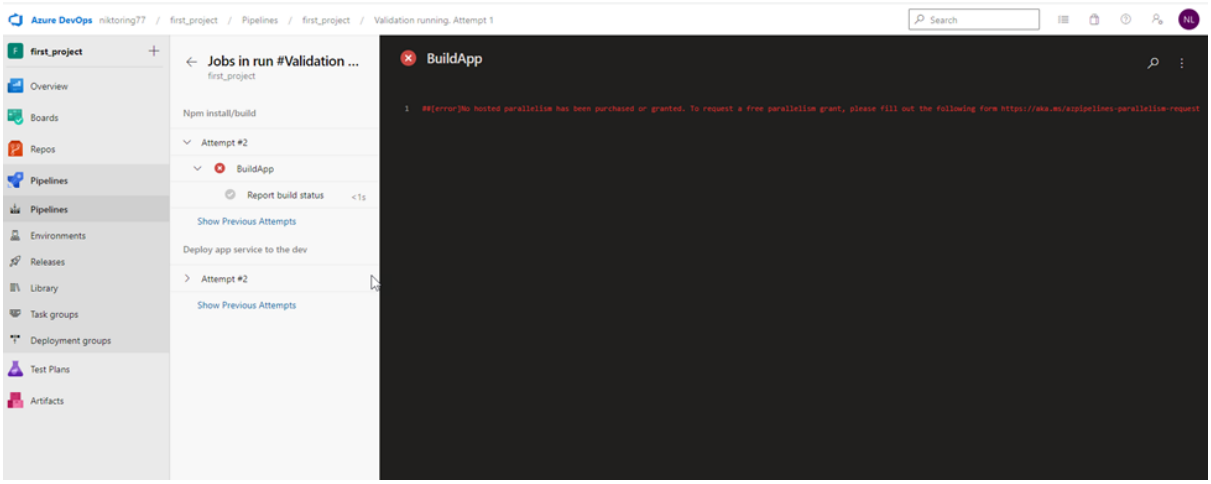
Edit



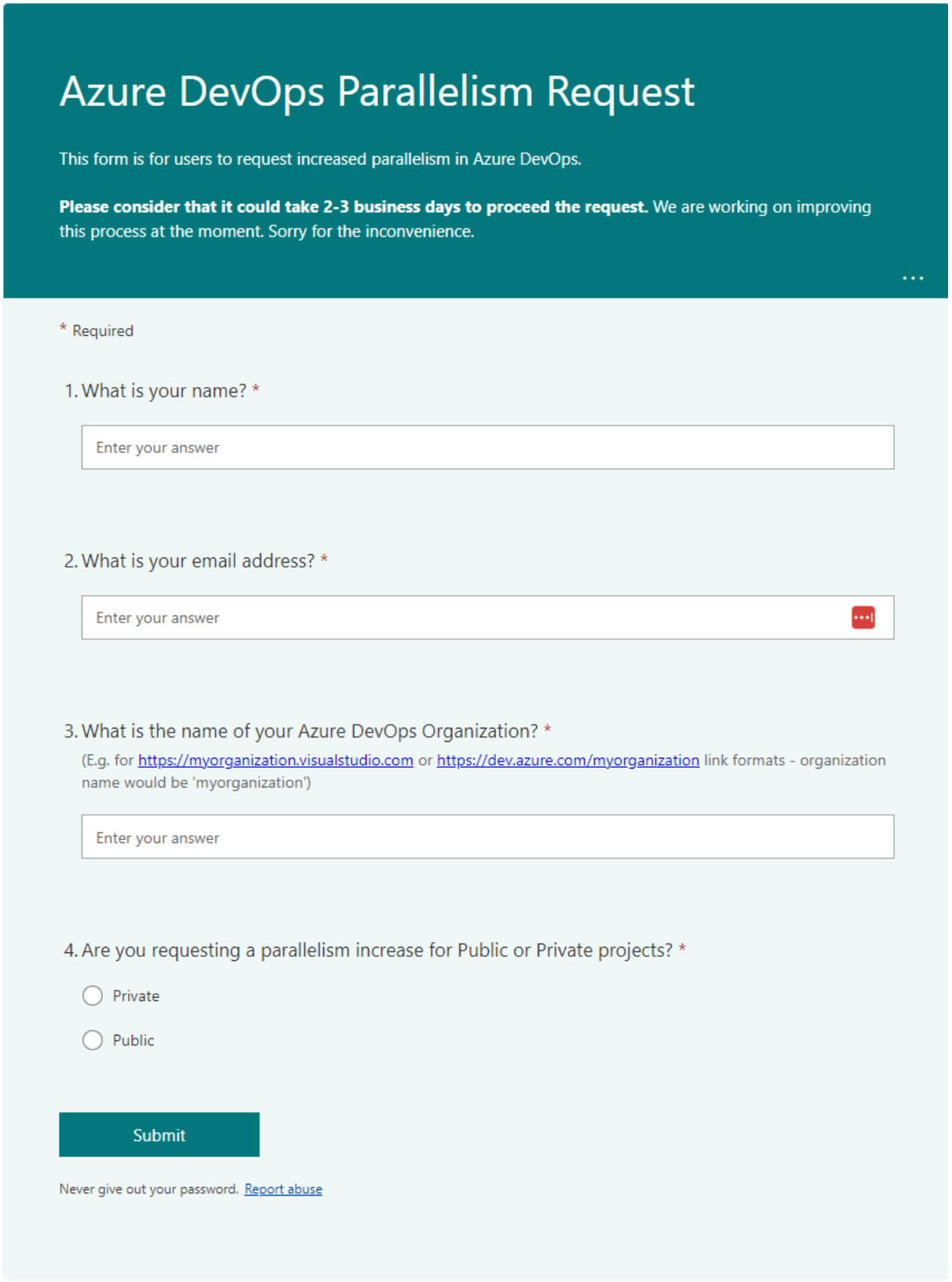
Check valid our file .yml



Run pipeline

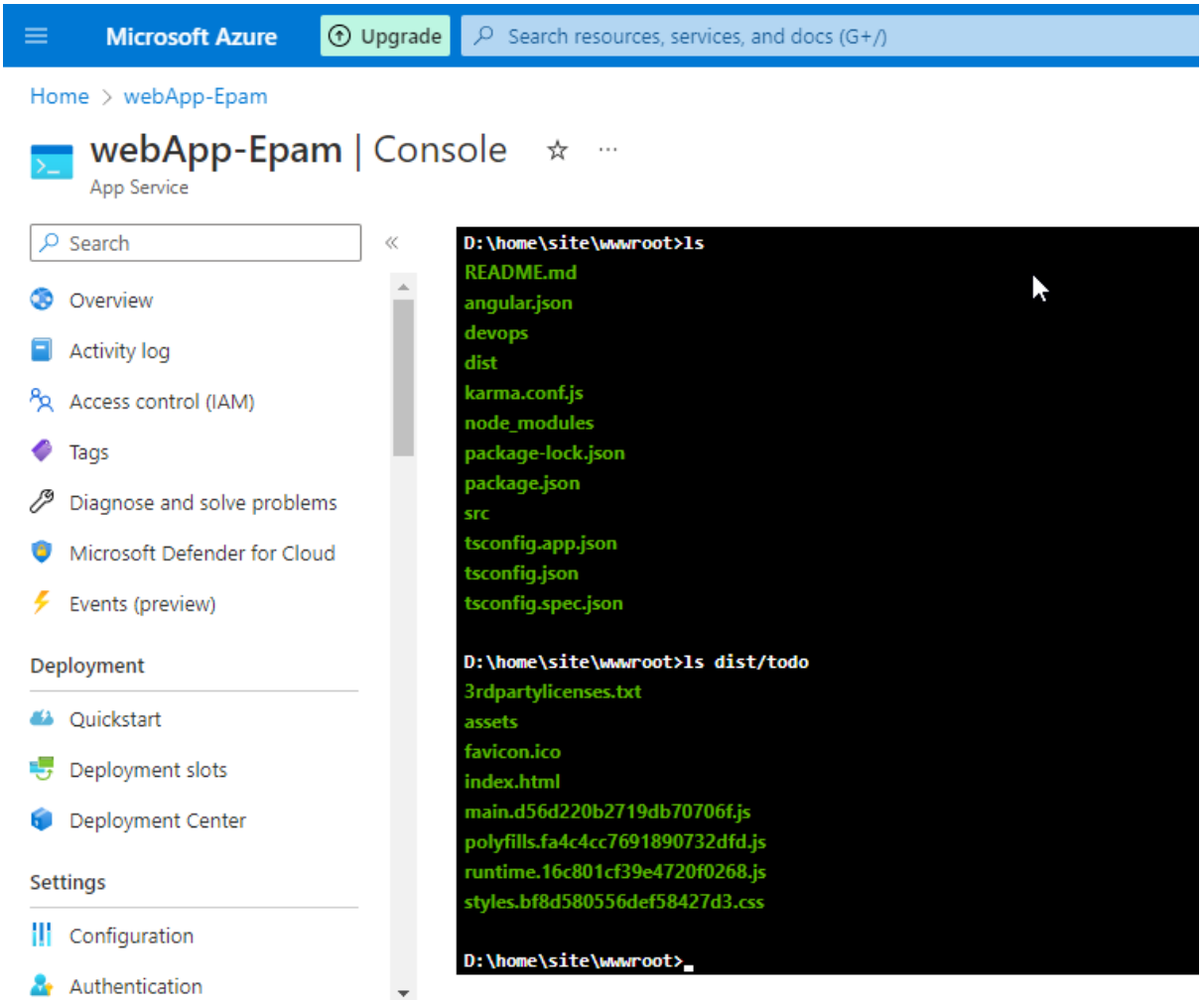


Send request
https://forms.office.com/pages/responsepage.aspx?id=v4j5cvGGr0GRqy180BHbR63mUWPIq7NEsFZhkyH8jChUMlM3QzdDMFZOMkVBWU5BWFM3SDI2QlRBSC4u



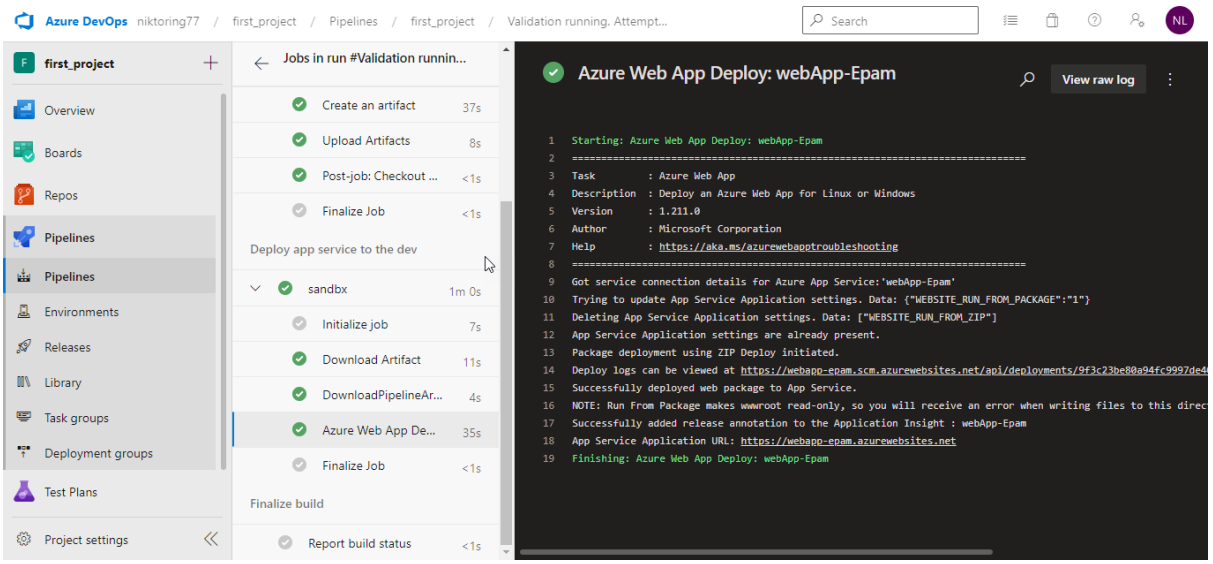
Approval

Where is code on VM in Web-App

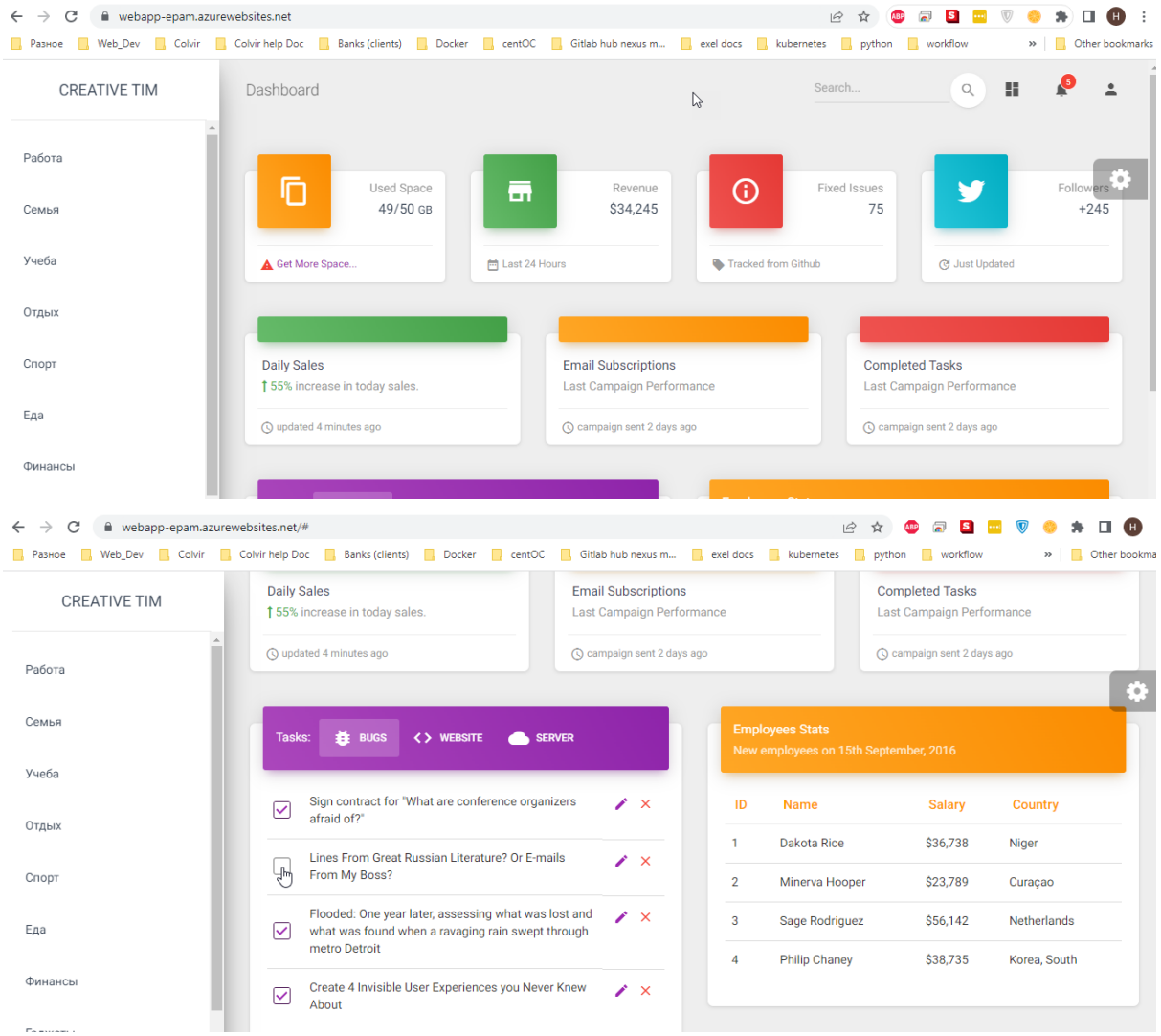


Successful pipeline after error bind with:

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



Show result



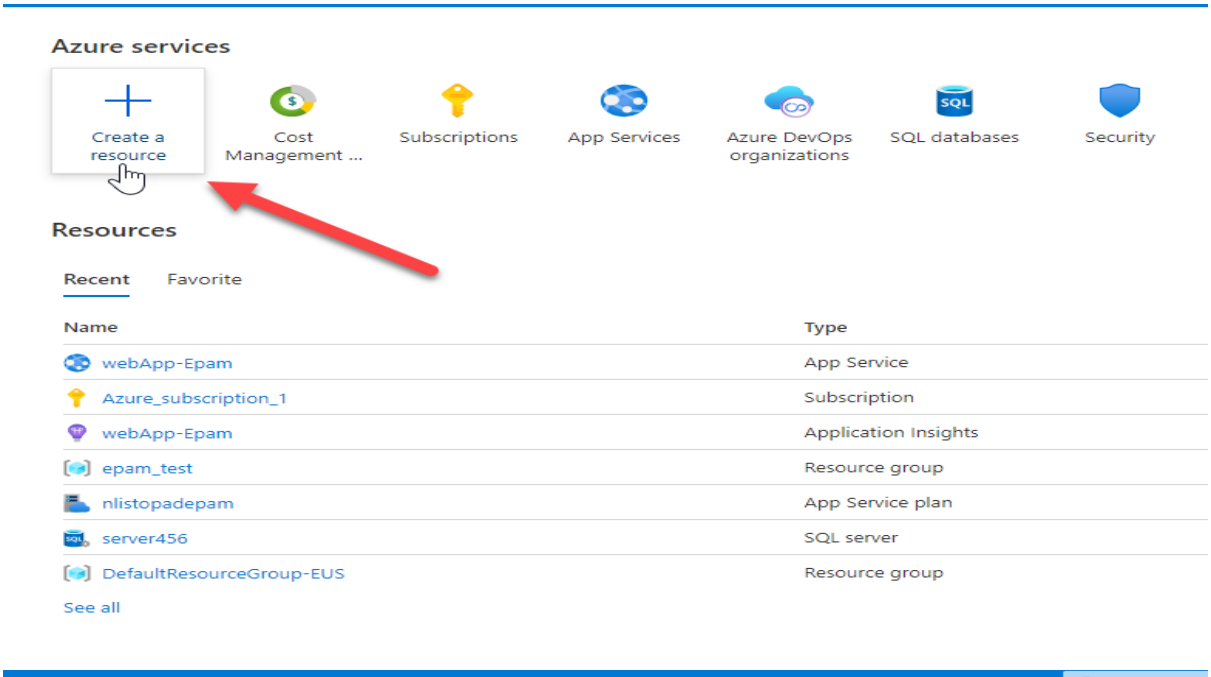
Part 2 – Configure a pipeline to deploy infrastructure

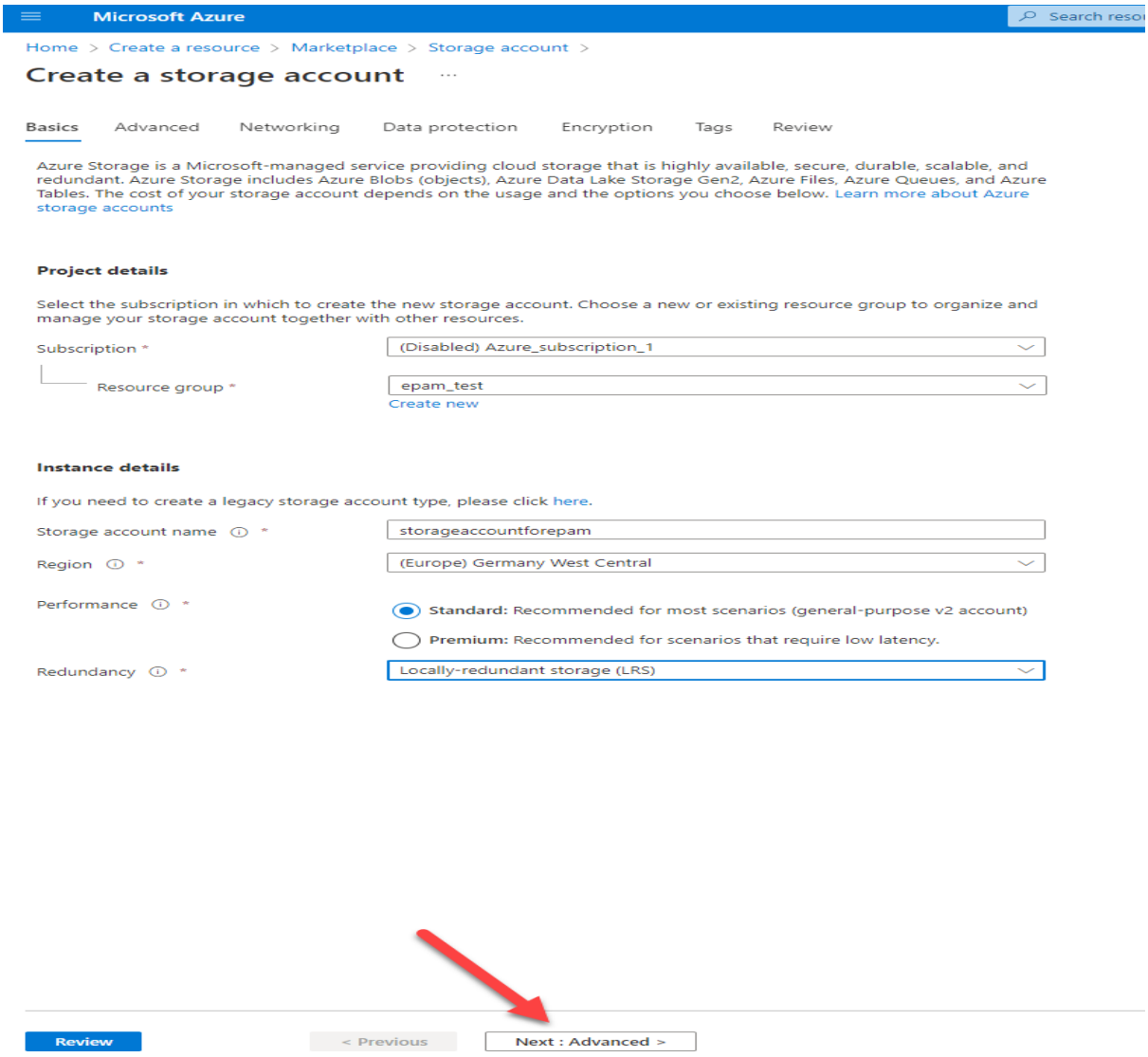
Below is describing on how to do it via terraform. If you want to use terraform you need to create service connection in manual way. Otherwise you won't be able to deploy your iac – Navigate to the last section

Terraform storage account

1. **Create a separate resource group and deploy azure storage account -** https://learn.microsoft.com/en-us/azure/storage/common/storage-account-create?tabs=azure-portal

Create storage account for some resource group!!!! Example for epam_test


Azure services
Create a resource
Cost Management ...
Subscriptions
App Services
Azure DevOps organizations
SQL databases
Security
Resources
Recent
Favorite
Name
Type
webApp-Epam
App Service
Azure_subscription_1
Subscription
webApp-Epam
Application Insights
epam_test
Resource group
nlistopadepam
App Service plan
server456
SQL server
DefaultResourceGroup-EUS
Resource group
See all


Microsoft Azure
Search reso
Home > Create a resource > Marketplace > Storage account >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review
Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. Learn more about Azure storage accounts
Project details
Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.
Subscription *
(Disabled) Azure_subscription_1
Resource group *
epam_test
Create new
Instance details
If you need to create a legacy storage account type, please click here.
Storage account name *
storageaccountforepam
Region *
(Europe) Germany West Central
Performance *
Standard: Recommended for most scenarios (general-purpose v2 account)
Premium: Recommended for scenarios that require low latency.
Redundancy *
Locally-redundant storage (LRS)
Review
< Previous
Next : Advanced >

Create a storage account ...

Basics | Advanced | Networking | Data protection | Encryption | Tags | Review

Basics

Subscription	Azure_subscription_1
Resource Group	epam_test
Location	germanywestcentral
Storage account name	storageaccountforepam
Deployment model	Resource manager
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Secure transfer	Enabled
Allow storage account key access	Enabled
Allow cross-tenant replication	Enabled
Default to Azure Active Directory authorization in the Azure portal	Disabled
Blob public access	Enabled
Minimum TLS version	Version 1.2
Permitted scope for copy operations (preview)	From any storage account
Enable hierarchical namespace	Disabled
Enable network file system v3	Disabled
Access tier	Hot
Enable SFTP	Disabled
Large file shares	Disabled

Networking

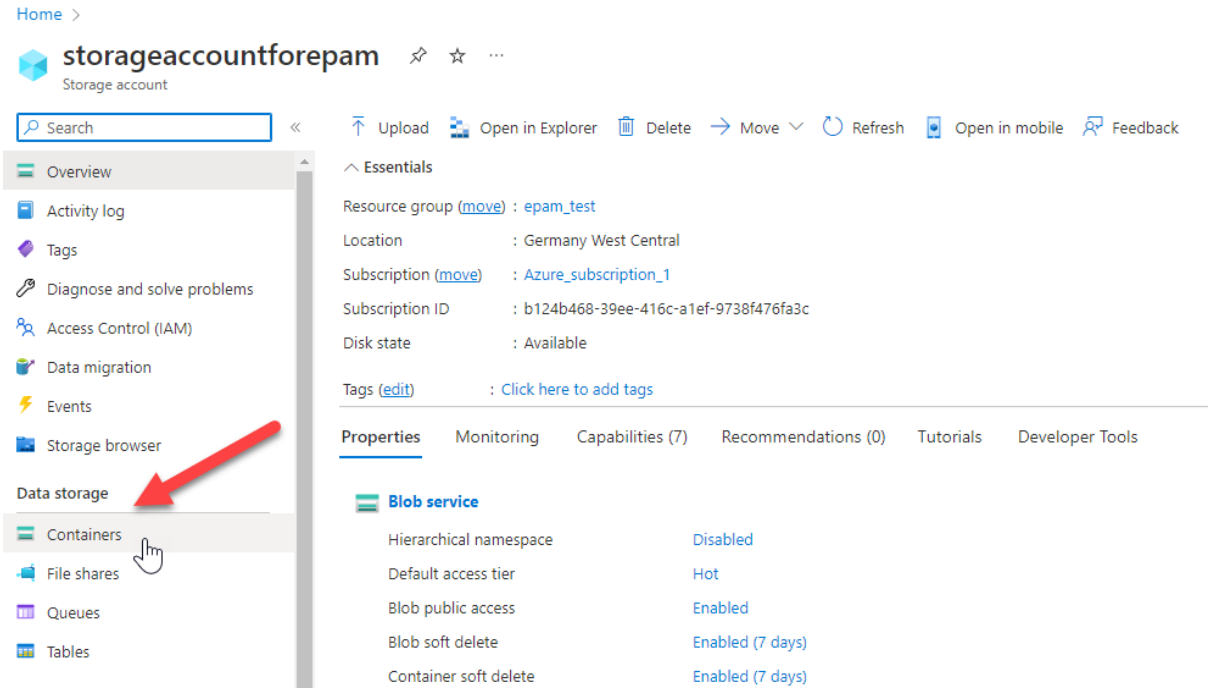
Network connectivity	Public endpoint (all networks)
Default routing tier	Microsoft network routing
Endpoint type	Standard

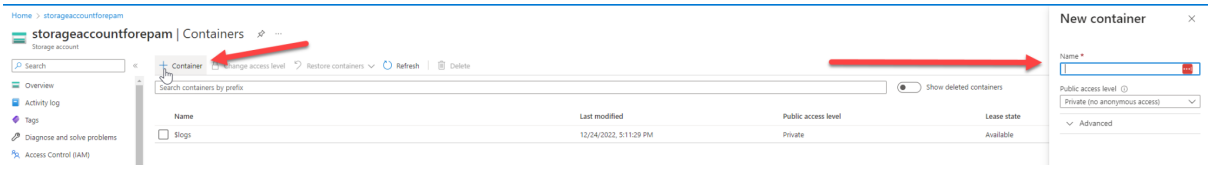
Data protection

Point-in-time restore	Disabled
Blob soft delete	Enabled
Blob retainment period in days	7
Container soft delete	Enabled
Container retainment period in days	7
File share soft delete	Enabled
File share retainment period in days	7
Versioning	Disabled

Create < Previous Next > Download a template for automation

2. Create a container with the name “tfstate” and remember the name. use portal settings

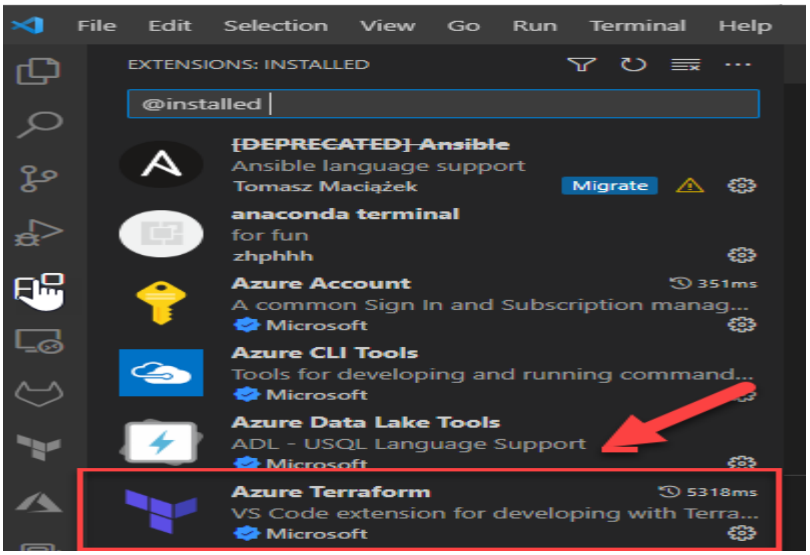


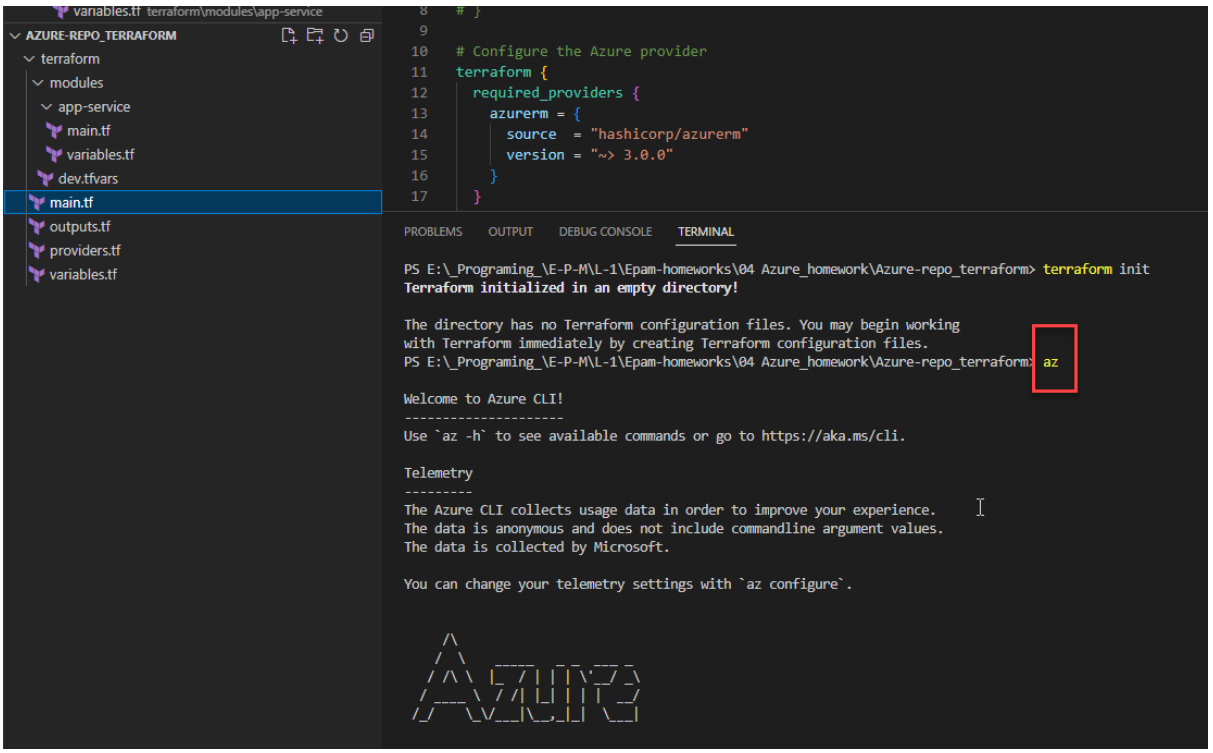


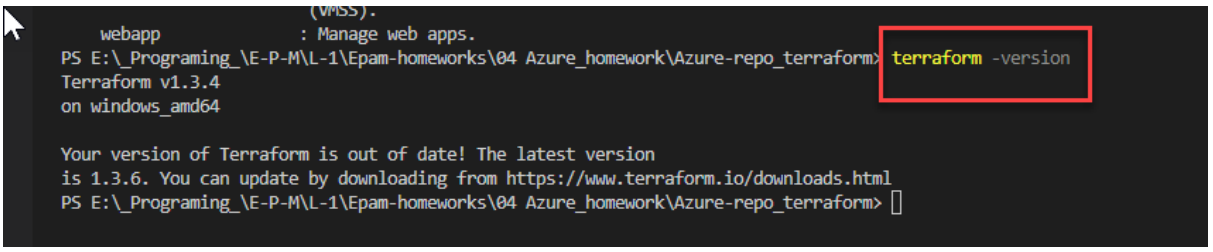
In this storage account you will be store your tf state file

Terraform preparation

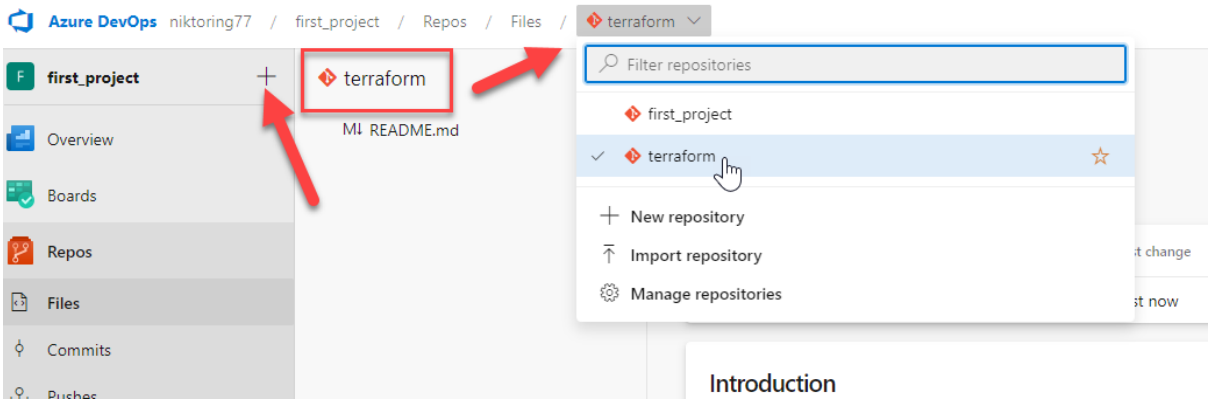
prepare vsCode





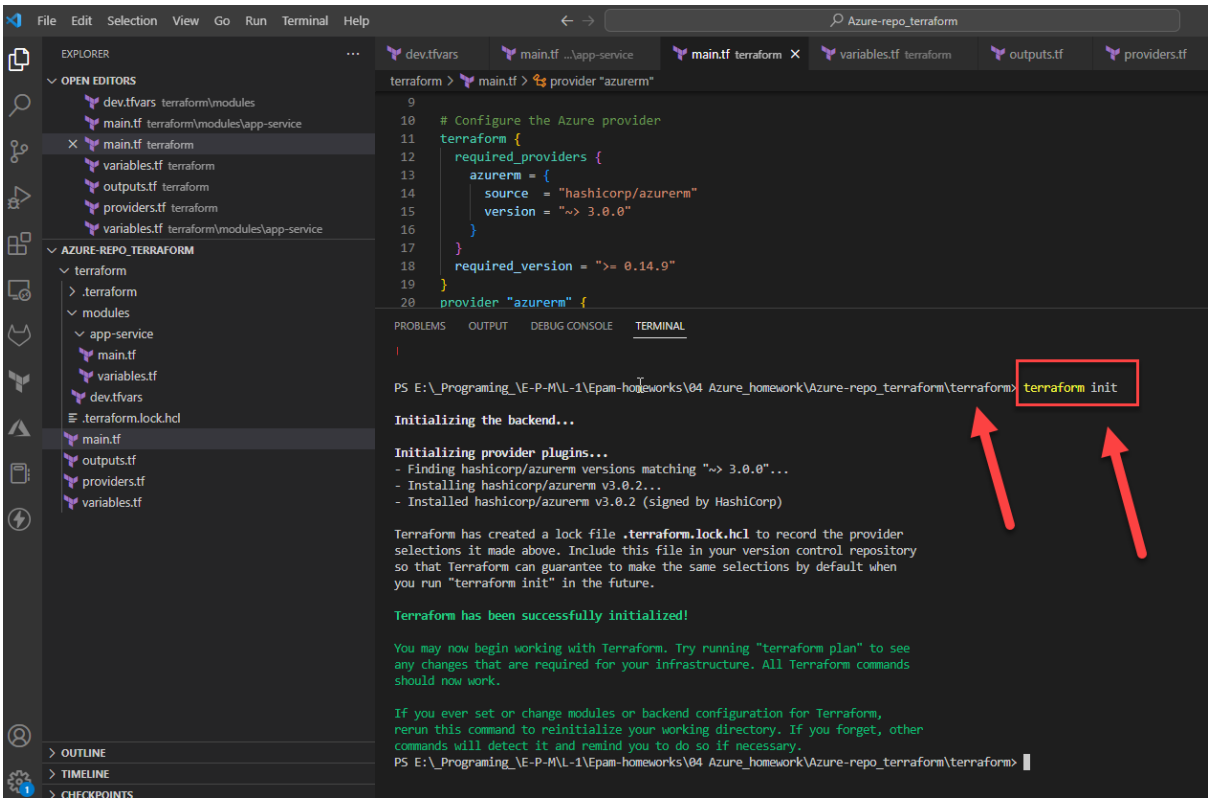


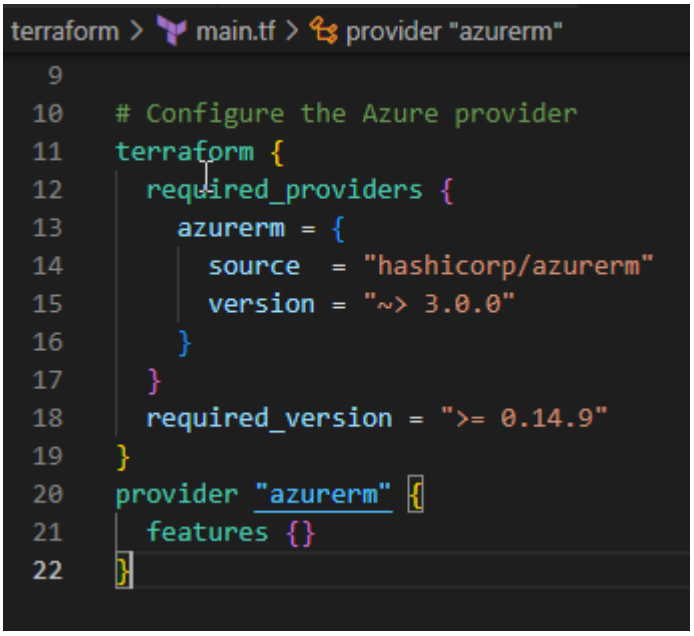
1. Create another repo to store devops code



2. Create a folder terraform

on local vsCode





cd terraform

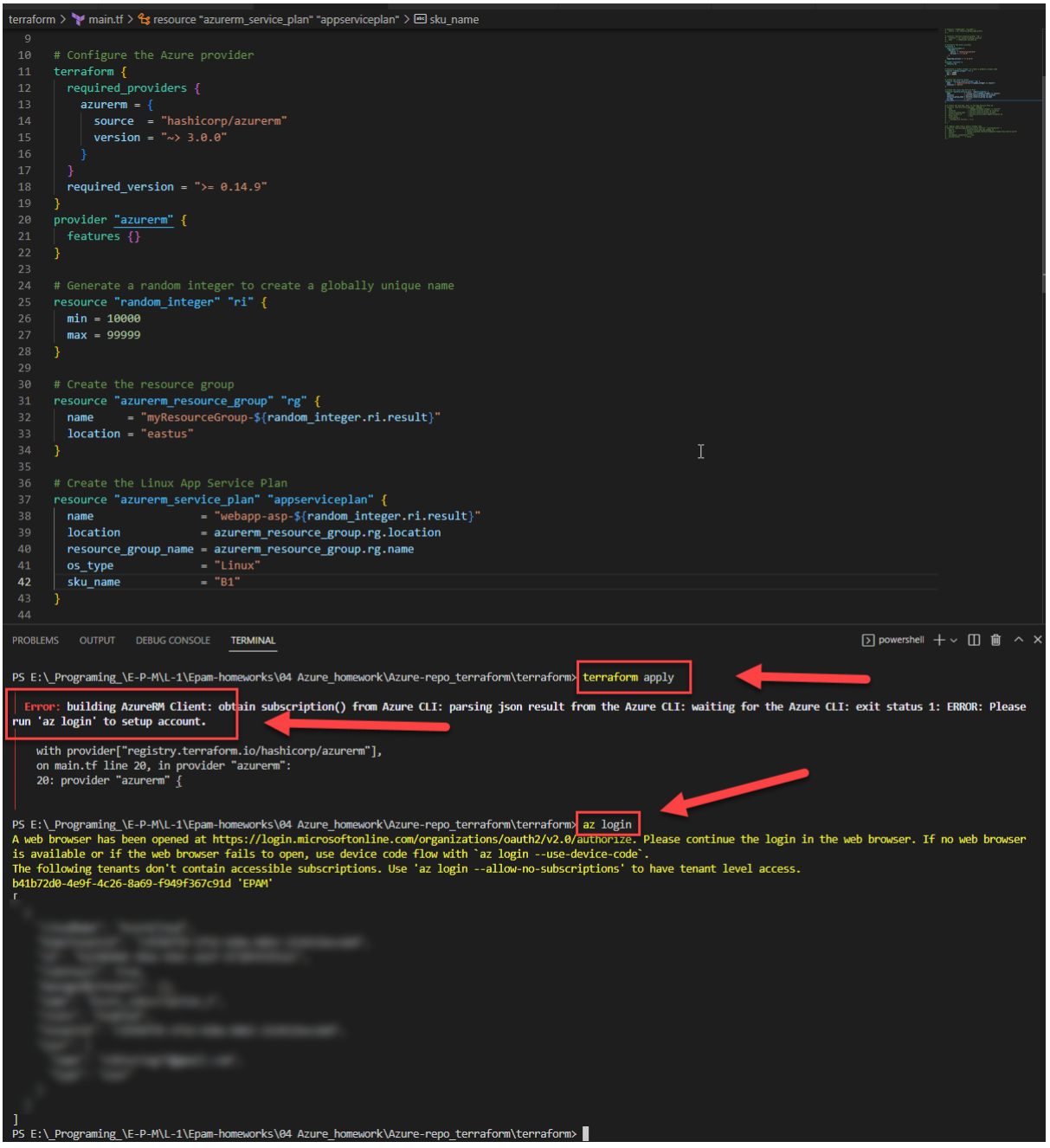
terraform init

3. Add app service implementation -

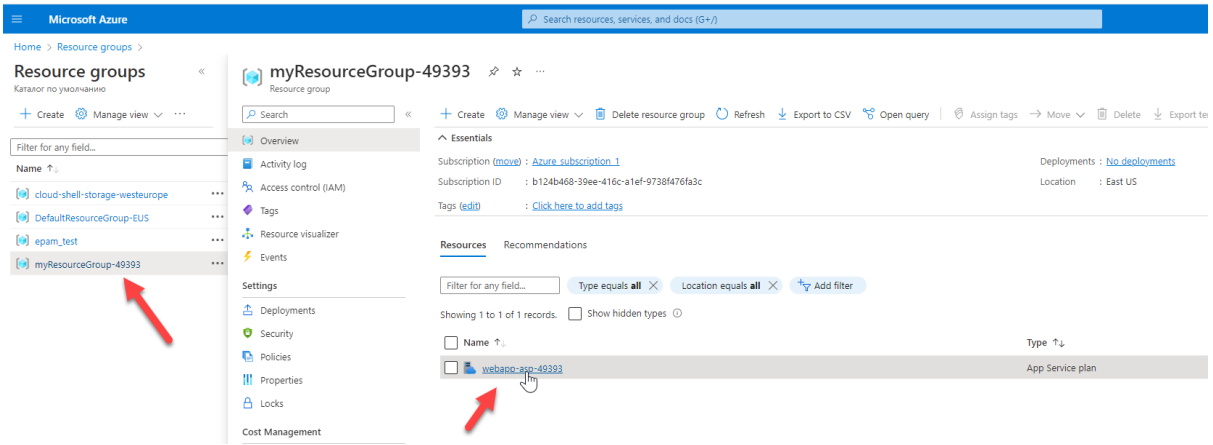
https://learn.microsoft.com/en-us/azure/app-service/provision-resource-terraform

az login because without login I can't apply and create resource and services!

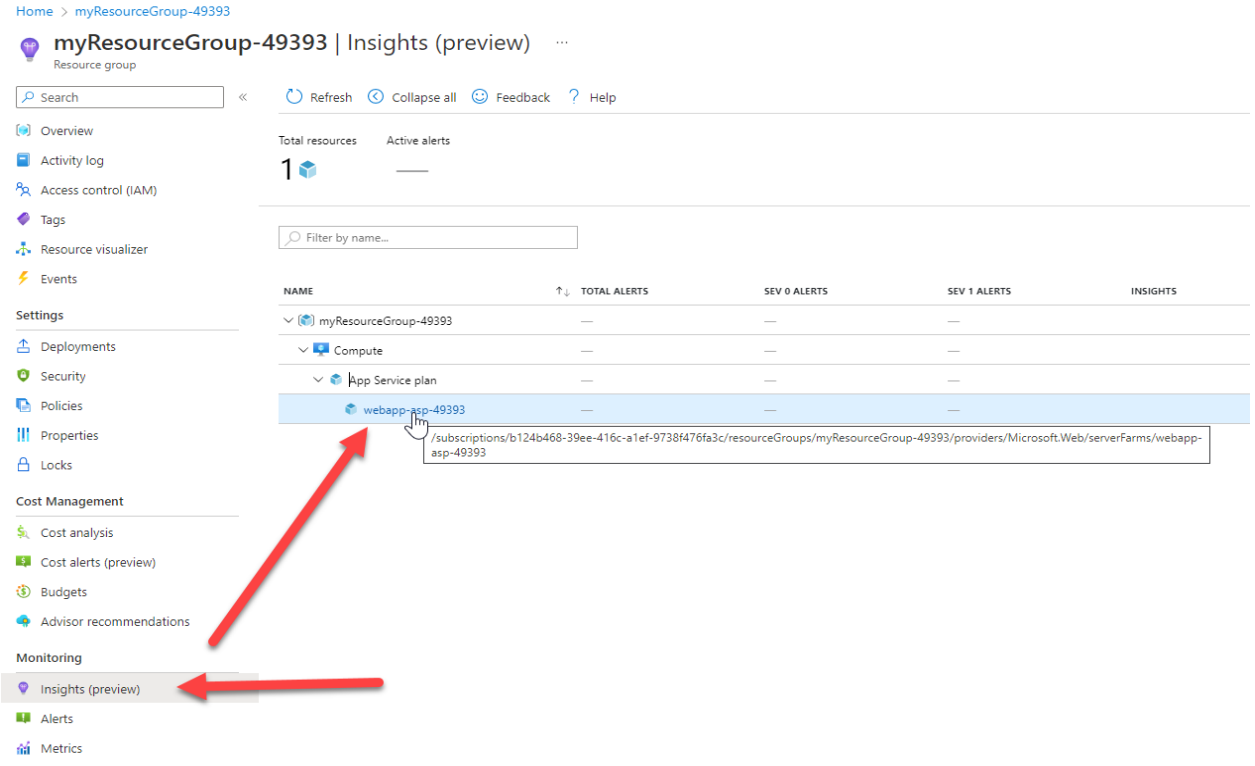
connect to your existing Azure account



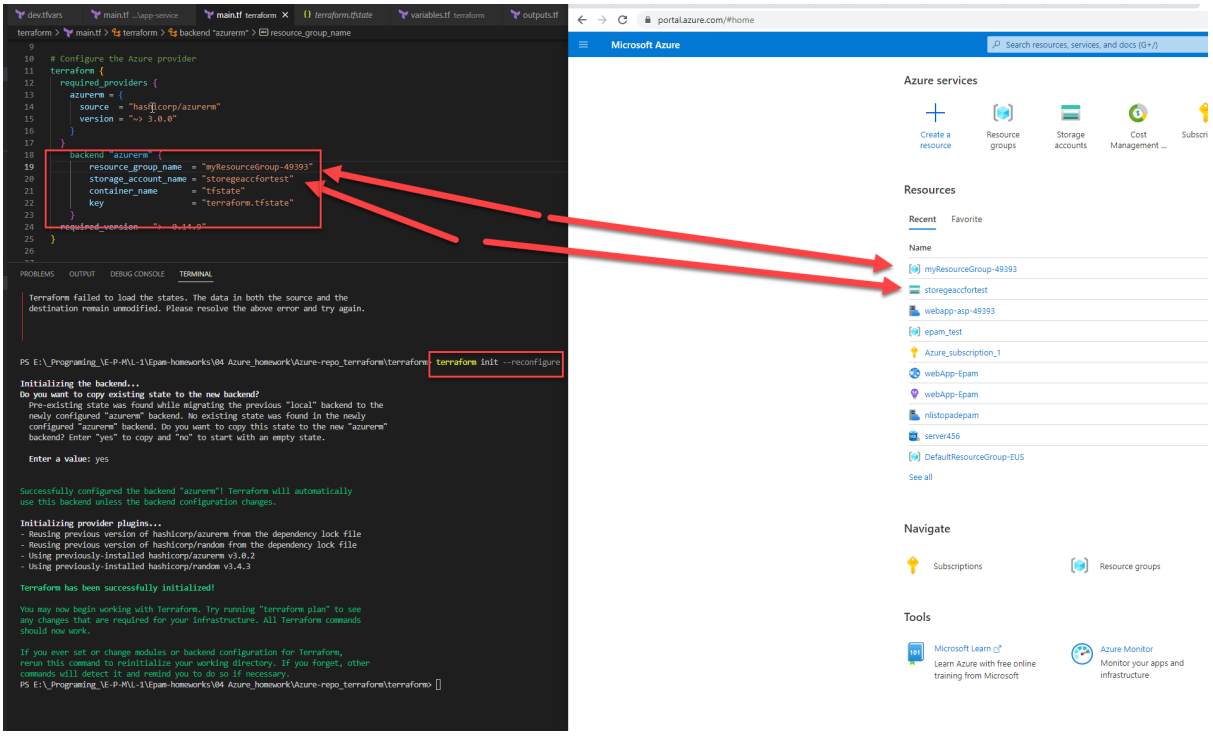
```
PS E:\_Programing_\E-P-M\L-1\Epam-homeworks\04 Azure_homework\Azure-repo_terraform\terraform> terraform apply

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
  + create

Terraform will perform the following actions:

  # azurerm_resource_group.rg will be created
  + resource "azurerm_resource_group" "rg" {
      + id       = (known after apply)
      + location = "eastus"
      + name     = (known after apply)
    }

  # azurerm_service_plan.appserviceplan will be created
  + resource "azurerm_service_plan" "appserviceplan" {
      + id                           = (known after apply)
      + kind                         = (known after apply)
      + location                     = "eastus"
      + maximum_elastic_worker_count = (known after apply)
      + name                         = (known after apply)
      + os_type                      = "Linux"
      + per_site_scaling_enabled     = false
      + reserved                     = (known after apply)
      + resource_group_name          = (known after apply)
      + sku_name                     = "B1"
      + worker_count                 = (known after apply)
    }

  # random_integer.ri will be created
  + resource "random_integer" "ri" {
      + id     = (known after apply)
      + max    = 99999
      + min    = 10000
      + result = (known after apply)
    }

Plan: 3 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?
  Terraform will perform the actions described above.
  Only 'yes' will be accepted to approve.

  Enter a value: yes

random_integer.ri: Creating...
random_integer.ri: Creation complete after 0s [id=49393]
azurerm_resource_group.rg: Creating...
azurerm_resource_group.rg: Creation complete after 3s [id=/subscriptions/b124b468-39ee-416c-a1ef-9738f476fa3c/resourceGroups/myResourceGroup-49393]
azurerm_service_plan.appserviceplan: Creating...
azurerm_service_plan.appserviceplan: Still creating... [10s elapsed]
azurerm_service_plan.appserviceplan: Still creating... [20s elapsed]
azurerm_service_plan.appserviceplan: Creation complete after 23s [id=/subscriptions/b124b468-39ee-416c-a1ef-9738f476fa3c/resourceGroups/myResourceGroup-49393/providers/
Microsoft.Web/serverfarms/webapp-asp-49393]

Apply complete! Resources: 3 added, 0 changed, 0 destroyed.
PS E:\_Programing_\E-P-M\L-1\Epam-homeworks\04 Azure_homework\Azure-repo_terraform\terraform>
```

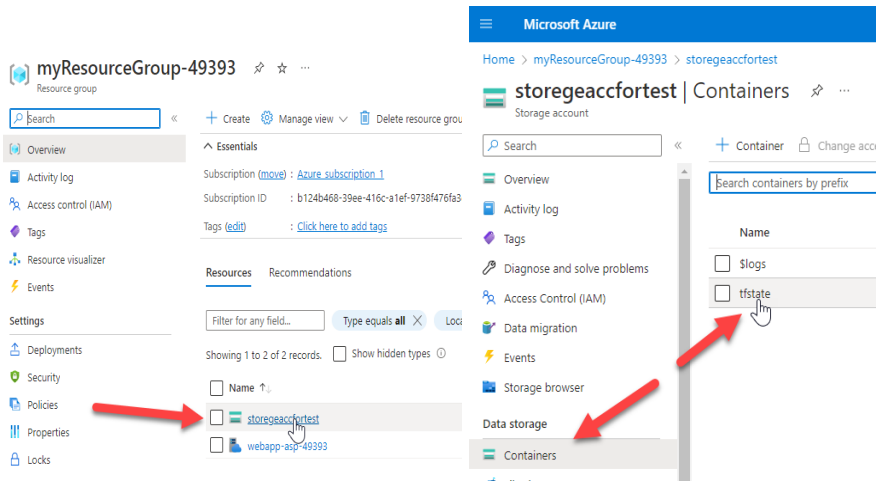


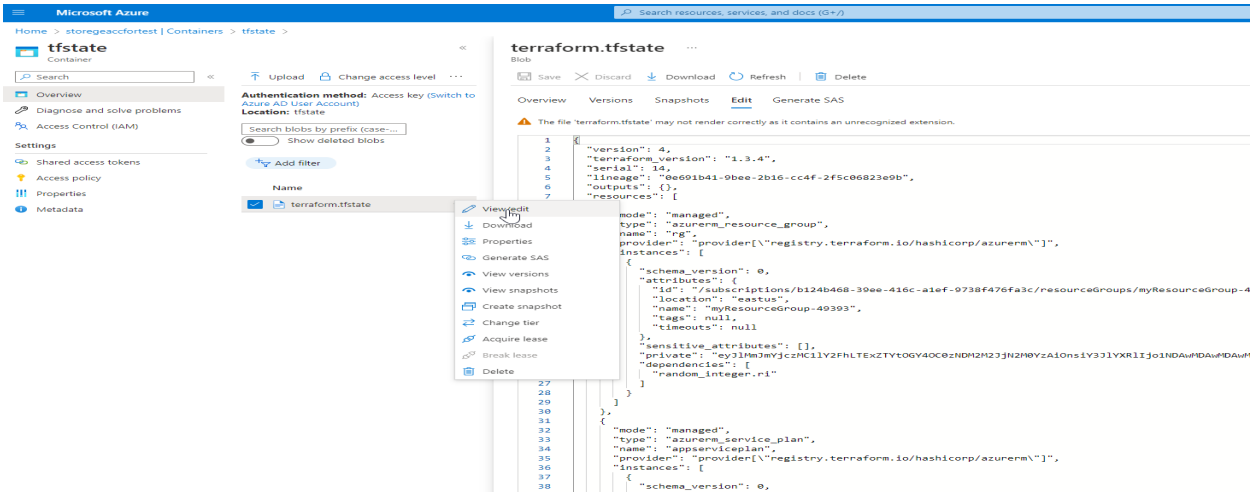
4. Integrate application insights with app service



5. Updated backend “azurerm” according to the guide - https://learn.microsoft.com/en-us/azure/developer/terraform/store-state-in-azure-storage?tabs=azure-cli



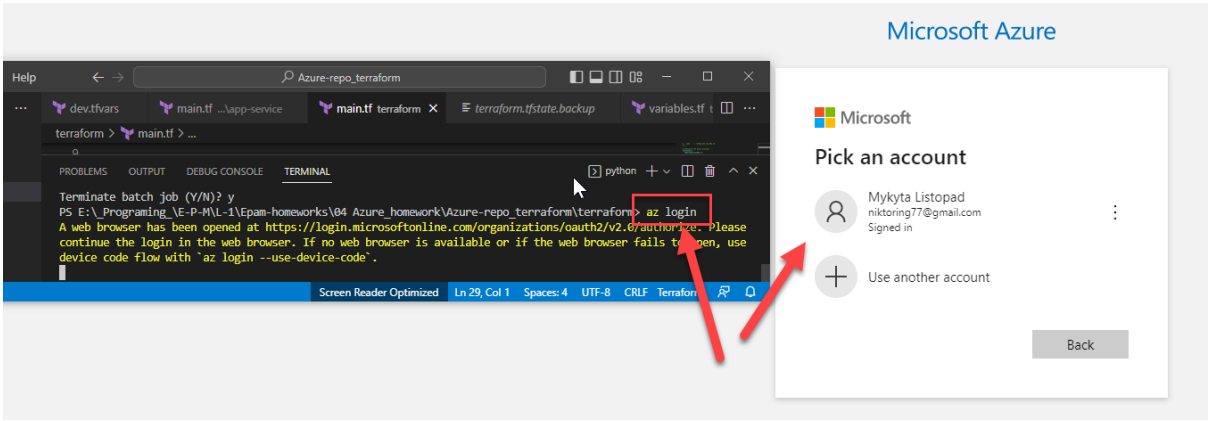




6. Run az login or Connect-AzAccount to connect the azure subscription from your local

az login

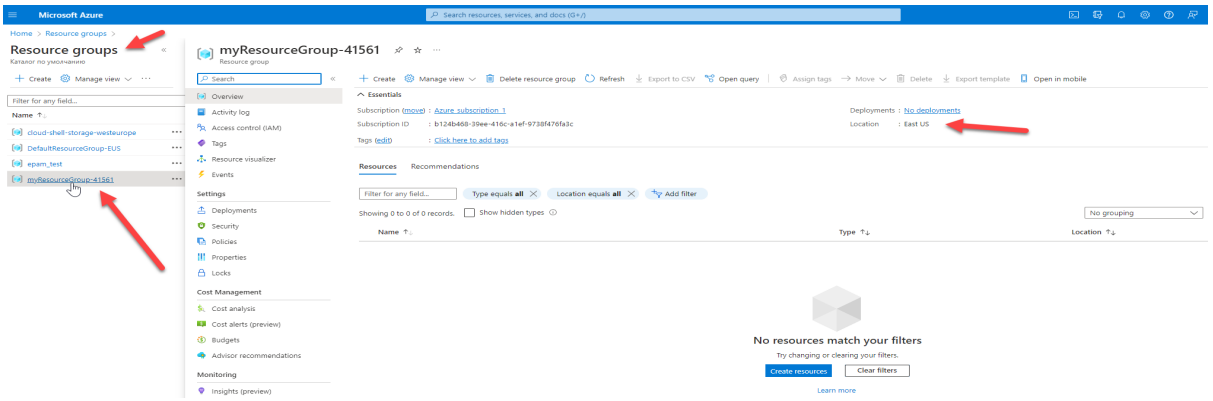
connect to your existing Azure account



7. Run terraform apply to deploy infrastructure

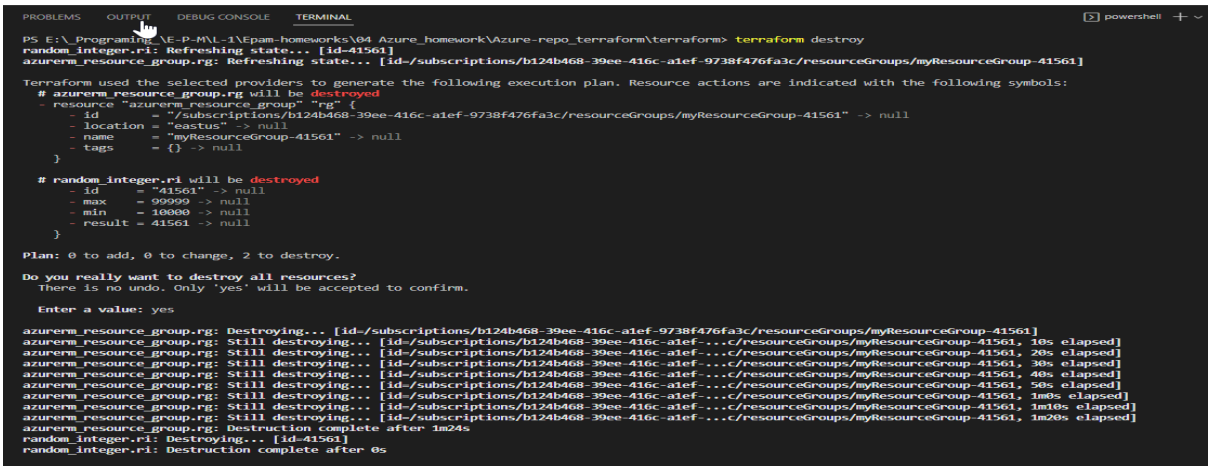
Important note: Use only freshest version of tf module like
https://registry.terraform.io/providers/hashicorp/azurerm/latest/docs/resources/windows_web_app

terraform apply create resource group in Azure cloud!



terraform destroy delete this group from cloud

Important note: Don't forget to destroy your application once completed



Create a terraform pipeline

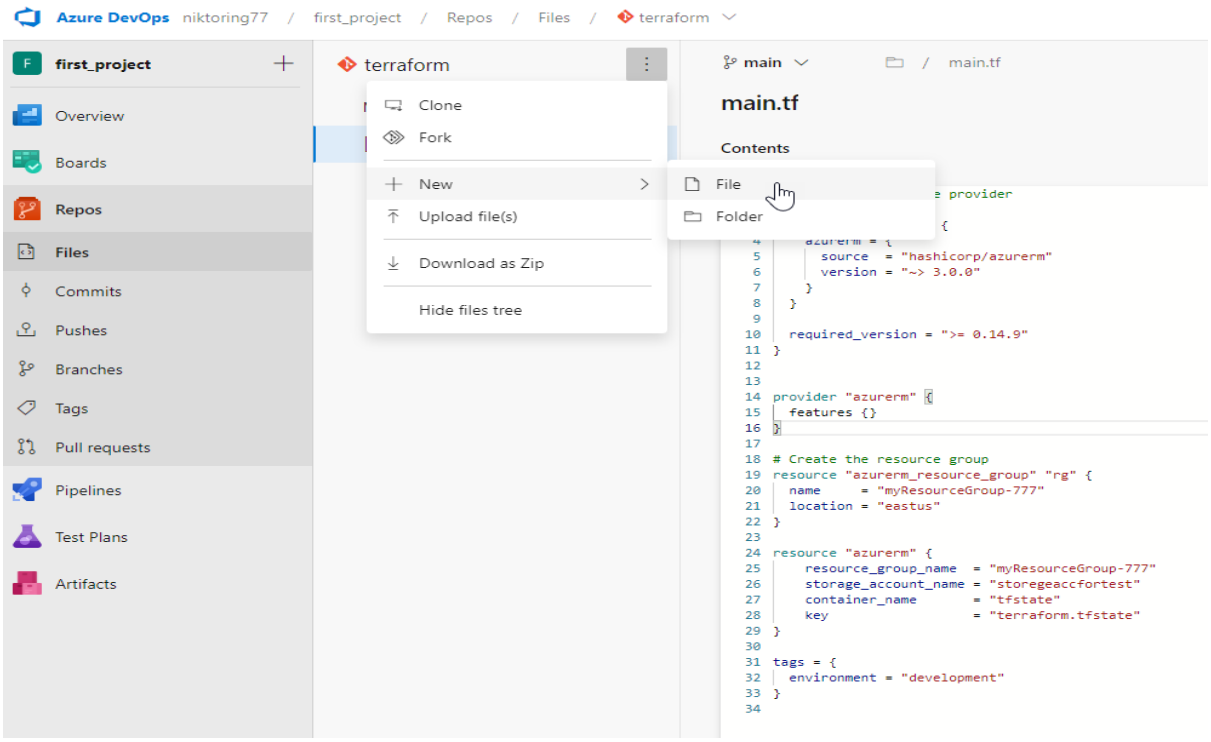
1. Create a yaml pipeline with the following steps: terraform install, terraform init, terraform plan/apply. Plan is an optional one

2. Inside yaml pipeline add trigger to main branch. The scenario – when main is updated, pipeline should run automatically - https://learn.microsoft.com/en-us/azure/devops/pipelines/yaml-schema/trigger?view=azure-pipelines

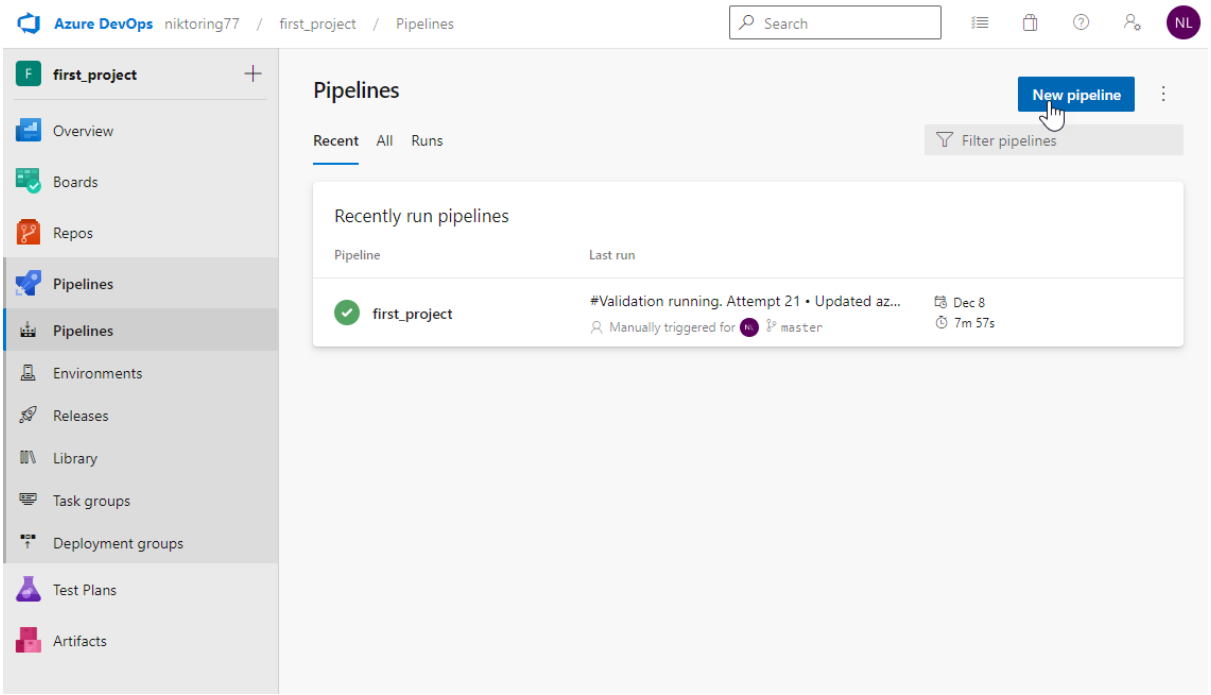
3. Added 3 steps – terraform install, terraform init, terraform plan/apply. Plan is an optional one. You may add it as 4th step

MANUIL

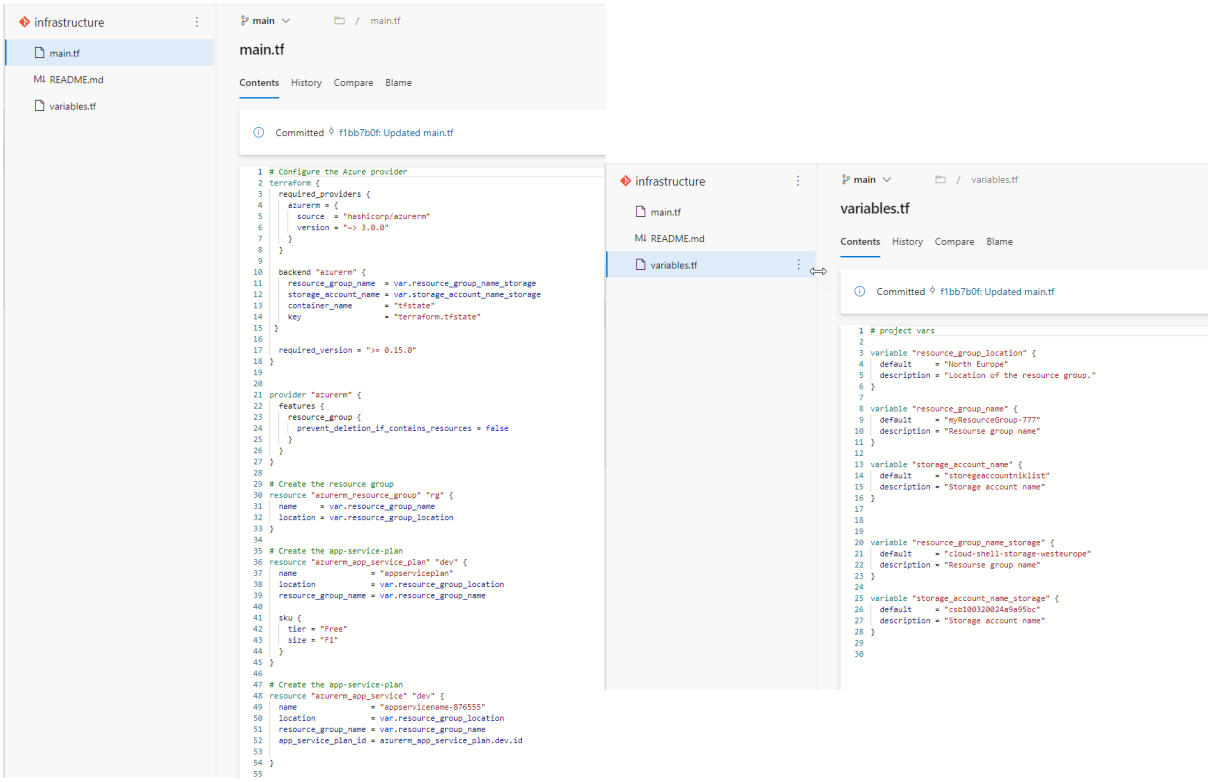
Create repo for terraform:



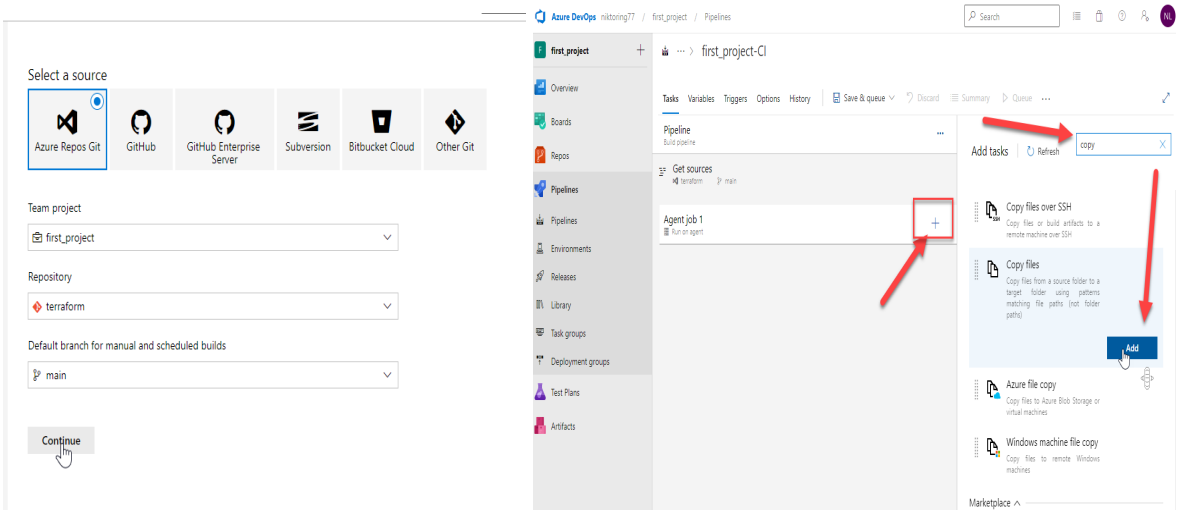
Create pipeline for artifact:



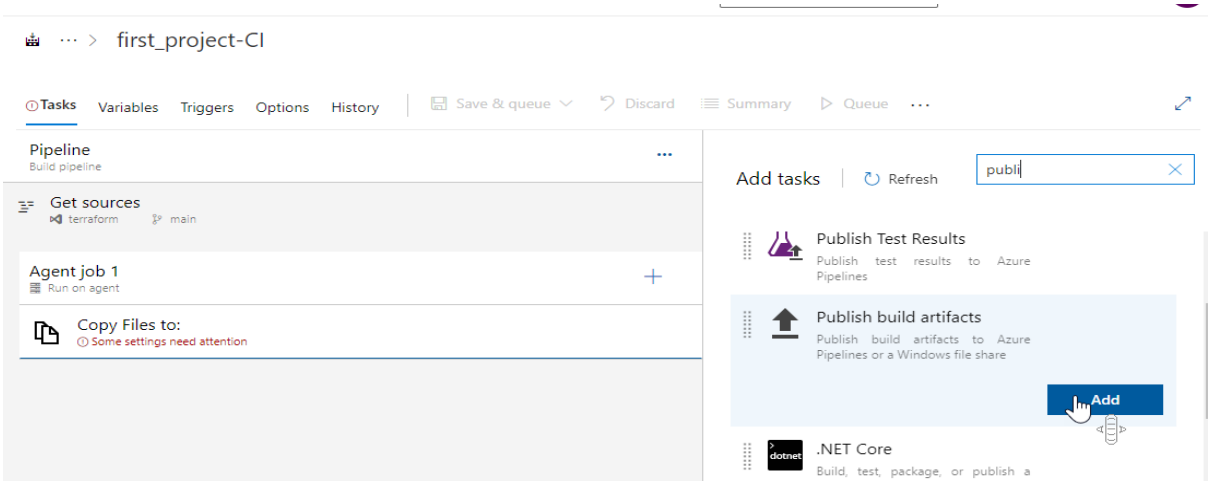
Another way to create an artifact for creating infrastructure and write state in existing (maybe some default group) group and storage account

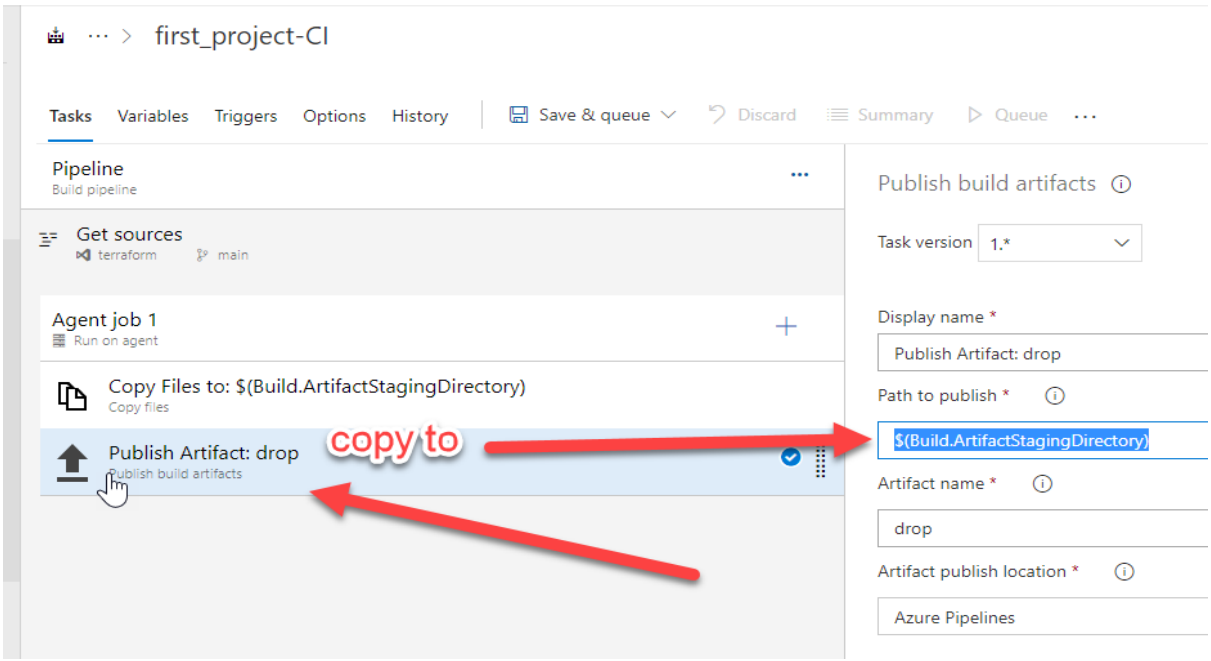


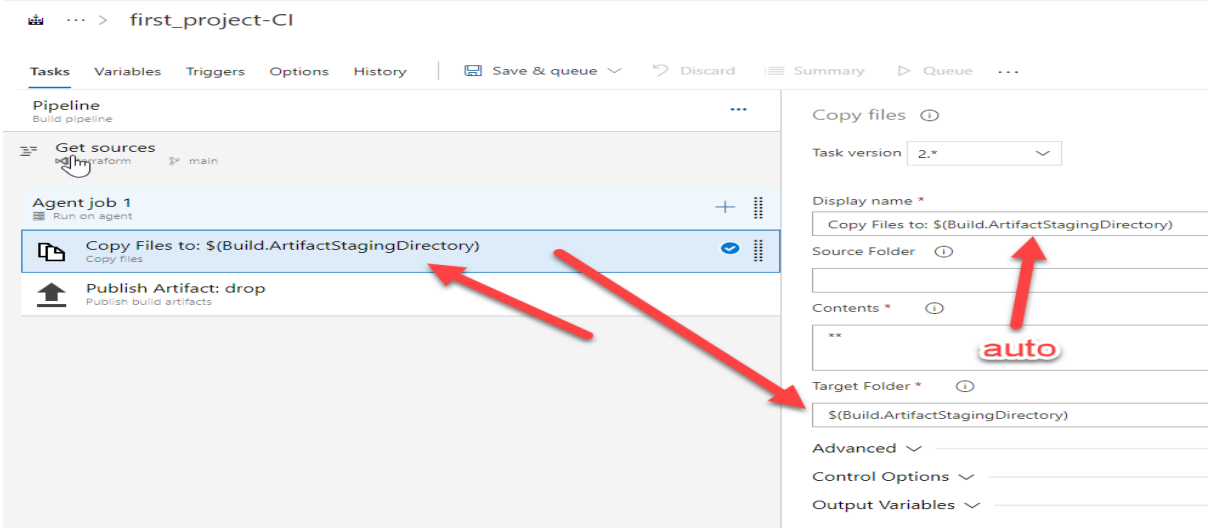
Use the classic editor to create a pipeline without YAML.

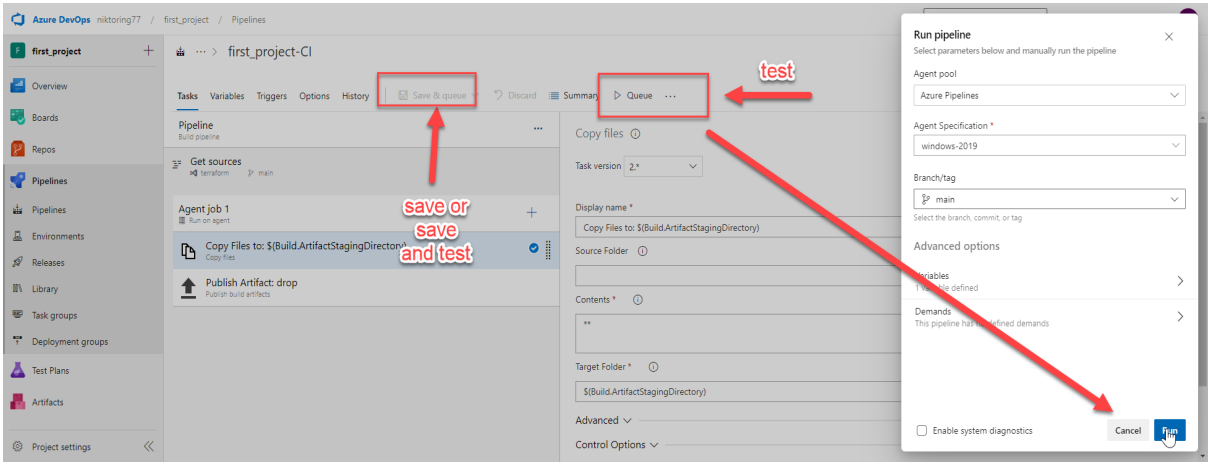


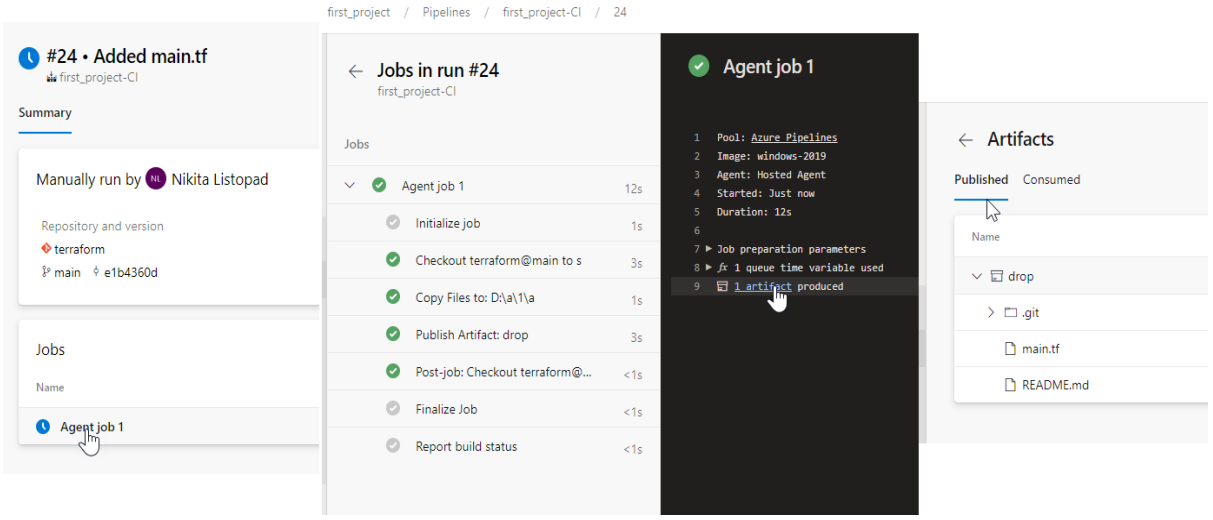
Empty job

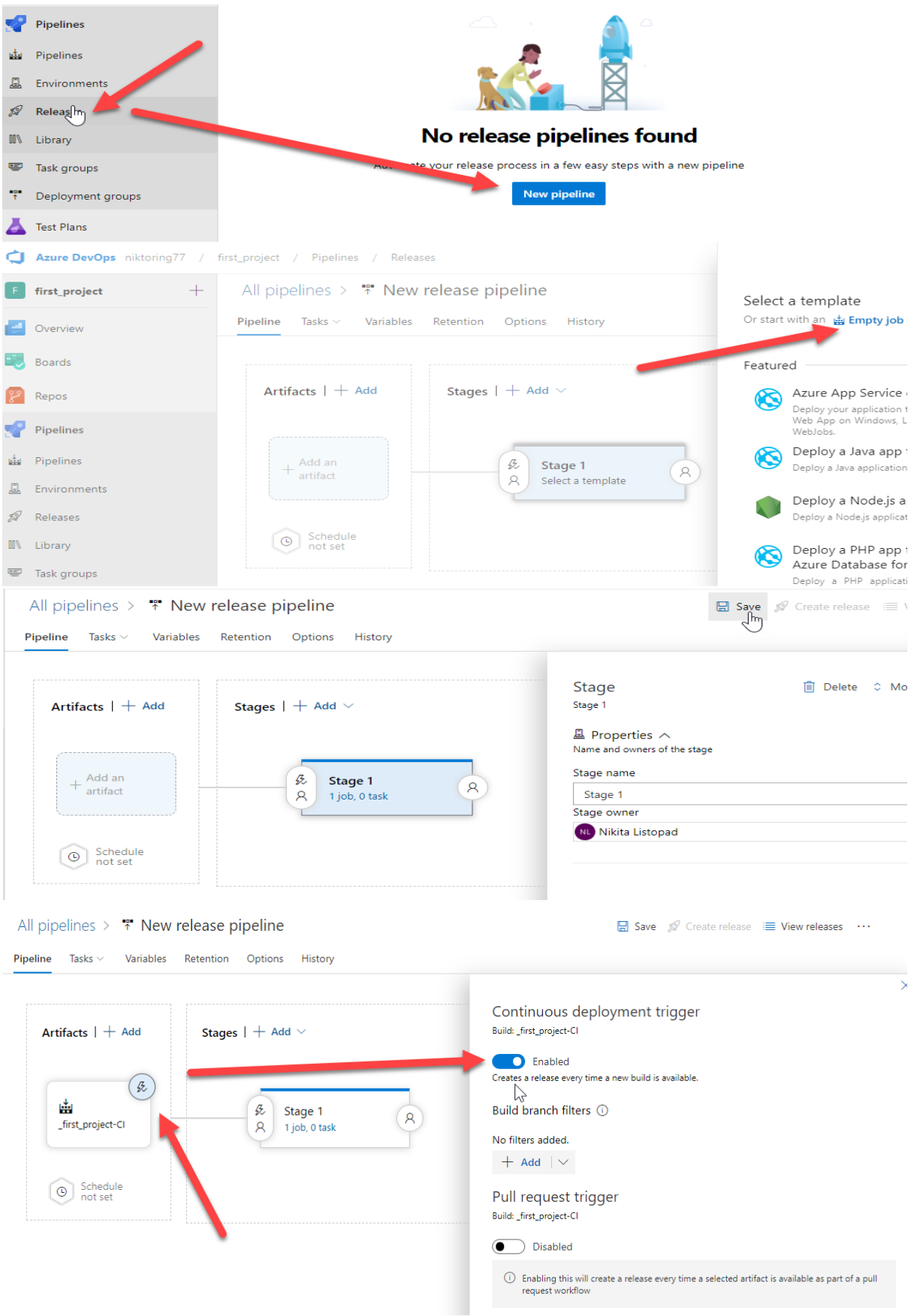

first_project-CI
Tasks
Variables
Triggers
Options
History
Save & queue
Discard
Summary
Queue
Pipeline
Build pipeline
Get sources
terraform
main
Agent job 1
Run on agent
Copy Files to:
Some settings need attention
Add tasks
Refresh
publi
Publish Test Results
Publish test results to Azure Pipelines
Publish build artifacts
Publish build artifacts to Azure Pipelines or a Windows file share
Add
.NET Core
Build, test, package, or publish a


first_project-CI
Tasks
Variables
Triggers
Options
History
Save & queue
Discard
Summary
Queue
Pipeline
Build pipeline
Get sources
terraform
main
Agent job 1
Run on agent
Copy Files to: $(Build.ArtifactStagingDirectory)
Copy files
Publish Artifact: drop
Publish build artifacts
copy to
Publish build artifacts
Task version
1.*
Display name *
Publish Artifact: drop
Path to publish *
$(Build.ArtifactStagingDirectory)
Artifact name *
drop
Artifact publish location *
Azure Pipelines

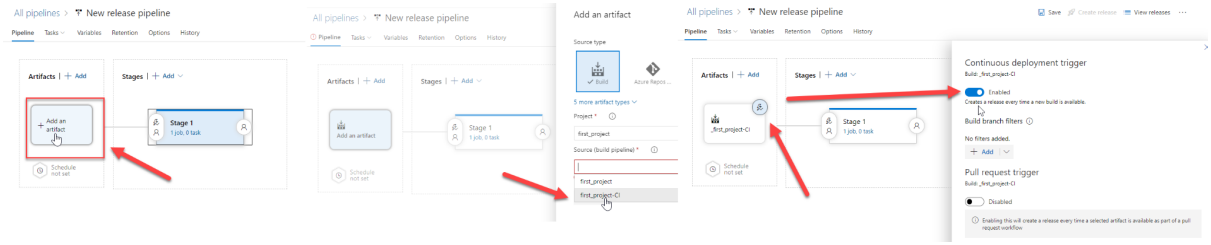

first_project-CI
Tasks
Variables
Triggers
Options
History
Save & queue
Discard
Summary
Queue
Pipeline
Build pipeline
Get sources
main
Agent job 1
Run on agent
Copy Files to: $(Build.ArtifactStagingDirectory)
Copy files
Publish Artifact: drop
Publish build artifacts
Copy files
Task version
2.*
Display name *
Copy Files to: $(Build.ArtifactStagingDirectory)
Source Folder
Contents *
**
auto
Target Folder *
$(Build.ArtifactStagingDirectory)
Advanced
Control Options
Output Variables

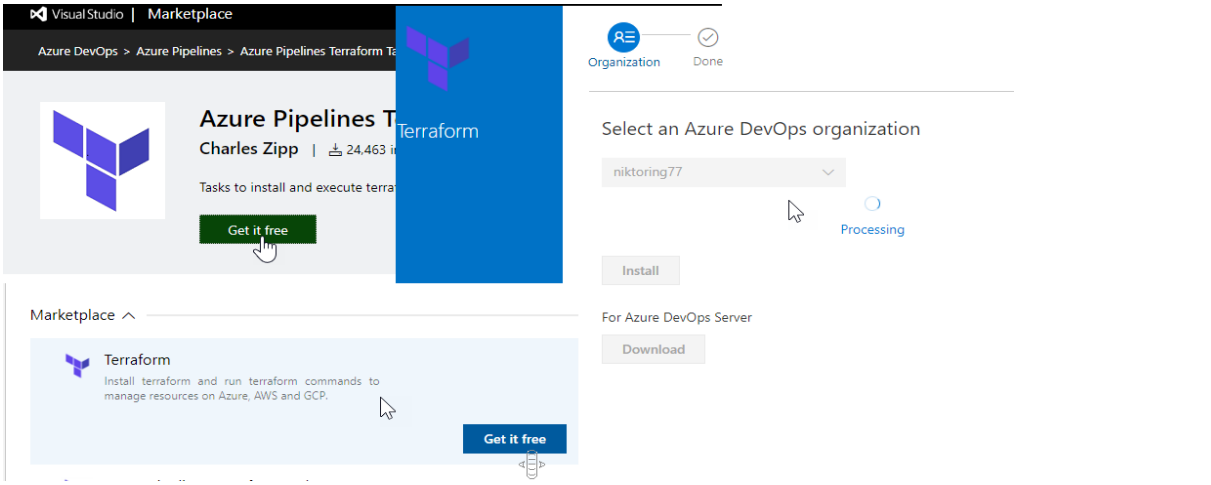

Azure DevOps
first_project
Pipelines
Overview
Boards
Repos
Pipelines
Environments
Releases
Library
Task groups
Deployment groups
Test Plans
Artifacts
Project settings
first_project-CI
Tasks
Variables
Triggers
Options
History
Save & queue
Discard
Summary
Queue
test
save or
save
and test
Pipeline
Get sources
Agent job 1
Copy Files to: $(Build.ArtifactStagingDirectory)
Publish Artifact: drop
Copy files
Task version
Display name *
Source Folder
Contents *
Target Folder *
$(Build.ArtifactStagingDirectory)
Advanced
Control Options
Run pipeline
Select parameters below and manually run the pipeline
Agent pool
Azure Pipelines
Agent Specification *
windows-2019
Branch/tag
main
Advanced options
Variables
Demands
Enable system diagnostics
Cancel
Run

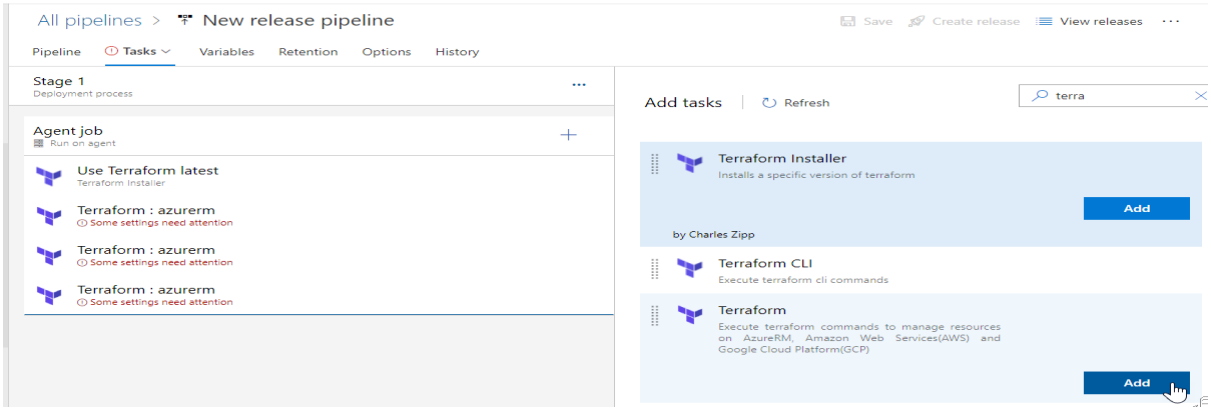

first_project / Pipelines / first_project-CI / 24
#24 • Added main.tf
first_project-CI
Summary
Manually run by Nikita Listopad
Repository and version
terraform
main e1b4360d
Jobs
Name
Agent job 1
Jobs in run #24
first_project-CI
Jobs
Agent job 1 12s
Initialize job 1s
Checkout terraform@main to s 3s
Copy Files to: D:\a\1\a 1s
Publish Artifact: drop 3s
Post-job: Checkout terraform@... <1s
Finalize Job <1s
Report build status <1s
Agent job 1
1 Pool: Azure Pipelines
2 Image: windows-2019
3 Agent: Hosted Agent
4 Started: Just now
5 Duration: 12s
7 Job preparation parameters
8 1 queue time variable used
9 1 artifact produced
Artifacts
Published
Consumed
Name
drop
.git
main.tf
README.md

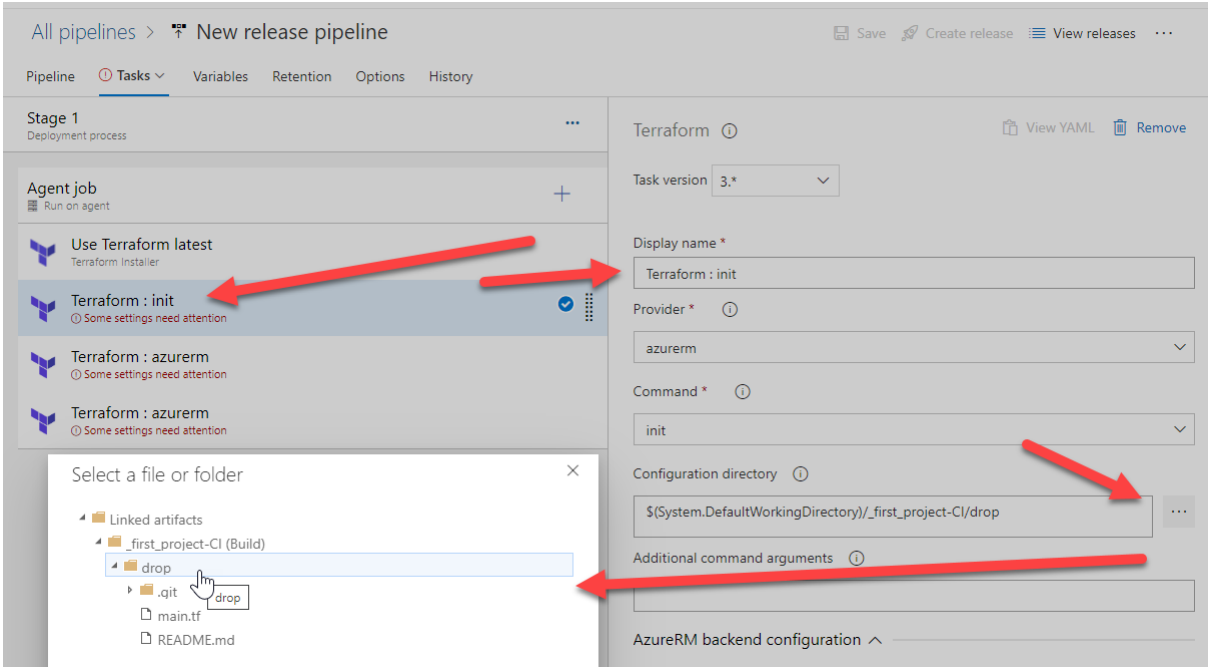


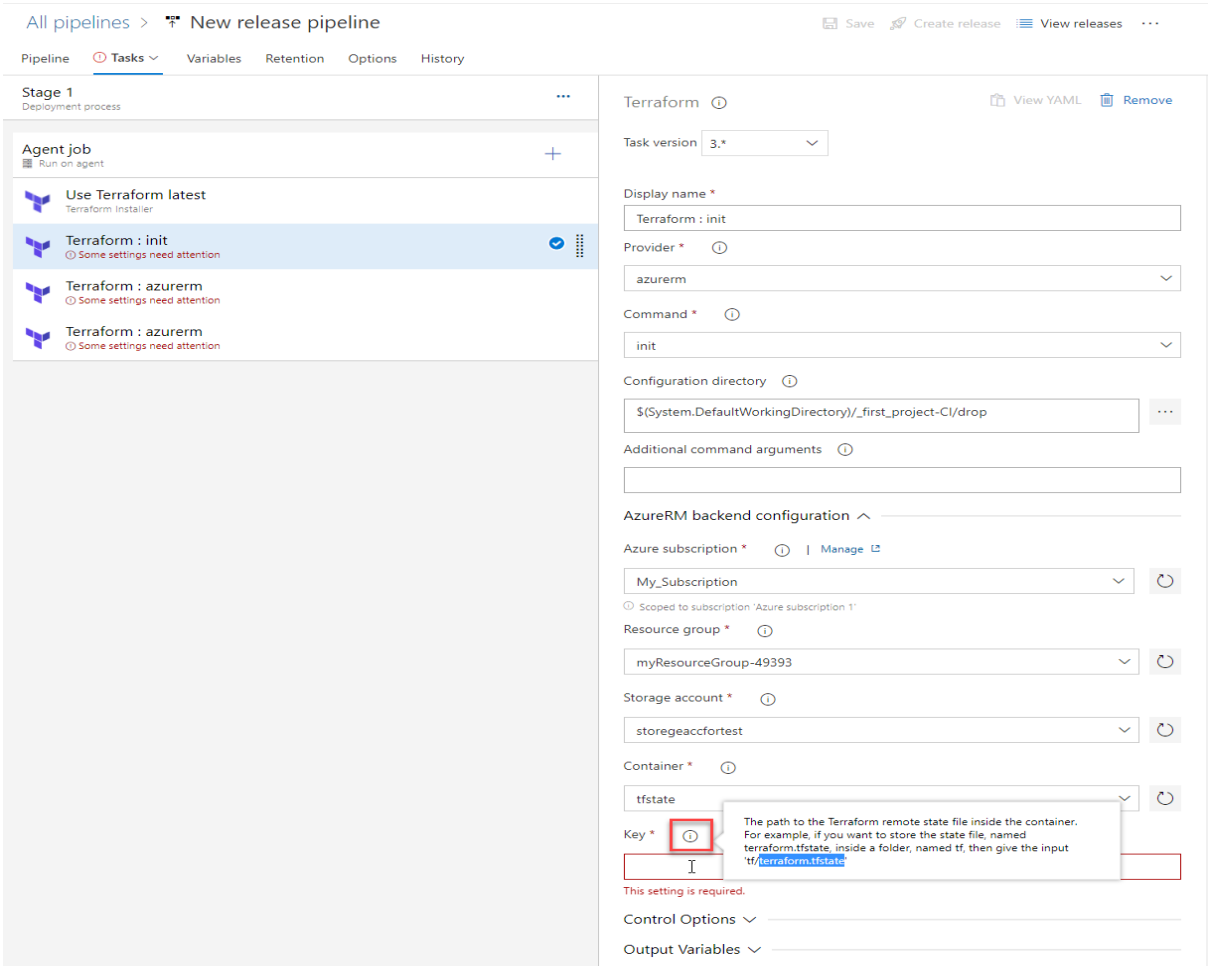
Enabling the trigger will create a new release every time a new build is available.

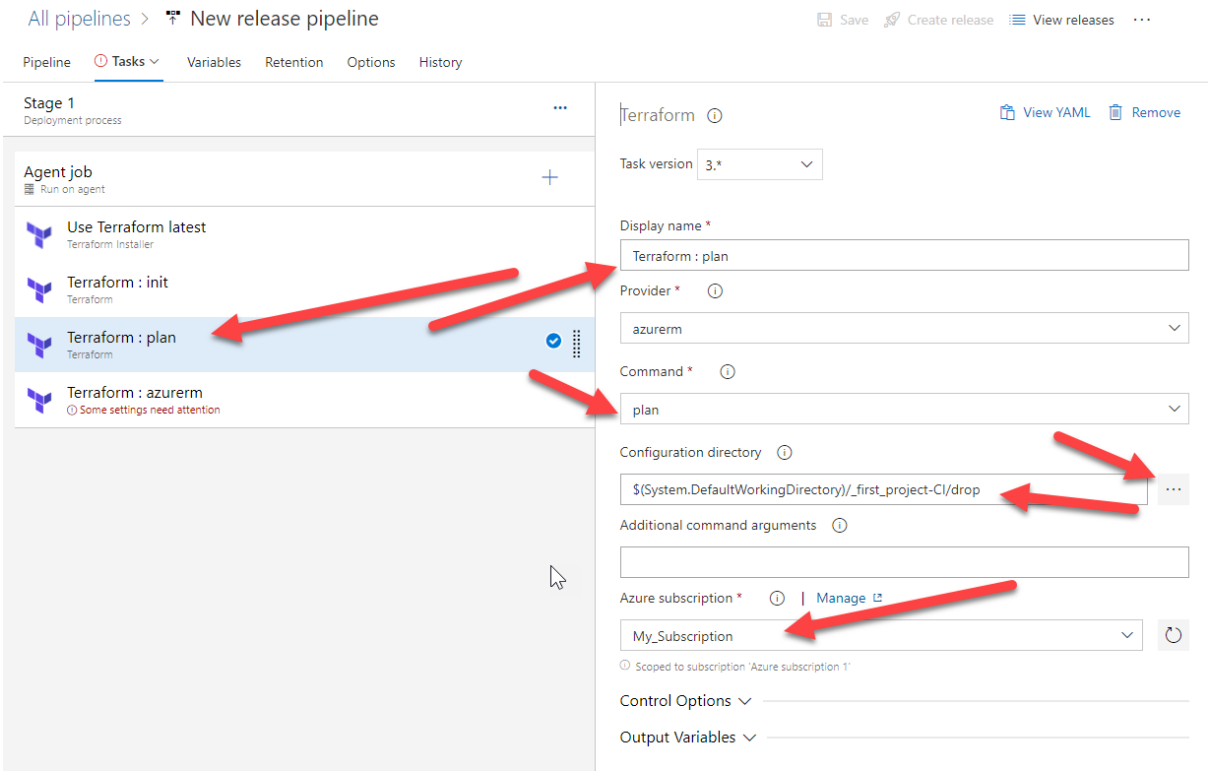



Visual Studio | Marketplace
Azure DevOps > Azure Pipelines > Azure Pipelines Terraform Ta
Azure Pipelines T
Charles Zipp | 24,463 i
Tasks to install and execute terra
Get it free
Terraform
Organization
Done
Select an Azure DevOps organization
niktoring77
Processing
Install
For Azure DevOps Server
Download
Marketplace
Terraform
Install terraform and run terraform commands to manage resources on Azure, AWS and GCP.
Get it free

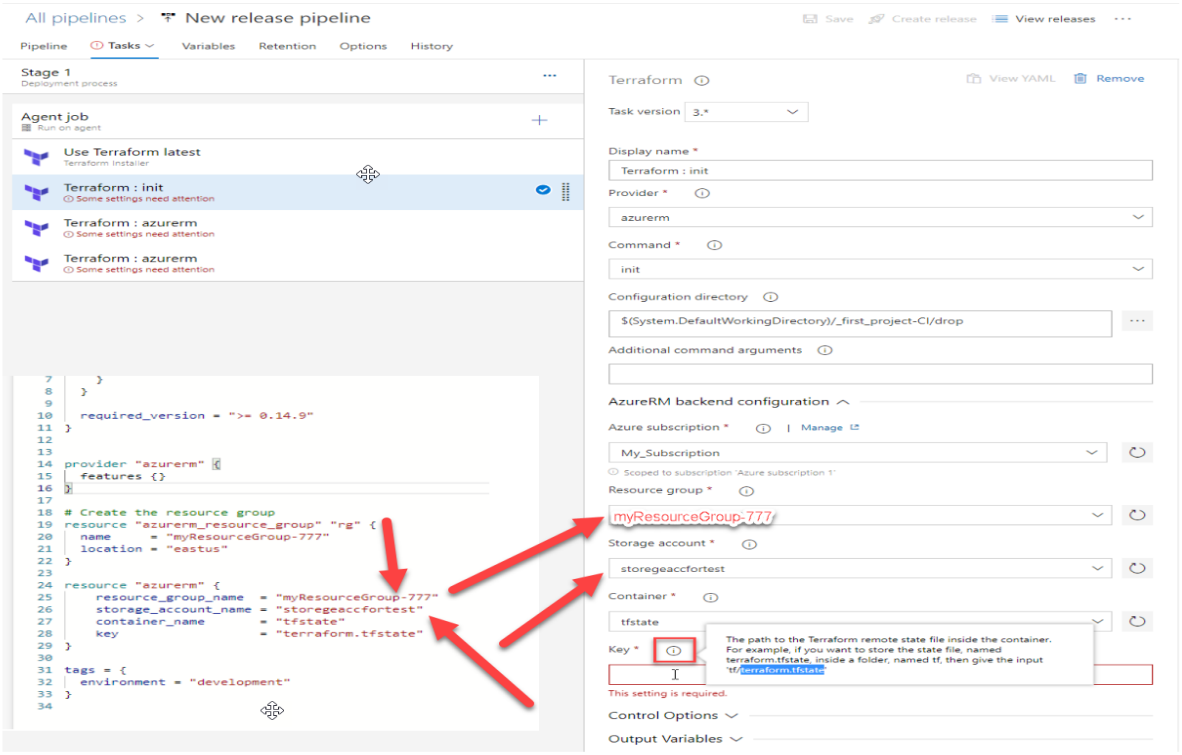

All pipelines > New release pipeline
Save
Create release
View releases
Pipeline
Tasks
Variables
Retention
Options
History
Stage 1
Deployment process
Agent job
Run on agent
Use Terraform latest
Terraform Installer
Terraform : azurerm
Some settings need attention
Terraform : azurerm
Some settings need attention
Terraform : azurerm
Some settings need attention
Add tasks
Refresh
terra
Terraform Installer
Installs a specific version of terraform
Add
by Charles Zipp
Terraform CLI
Execute terraform cli commands
Terraform
Execute terraform commands to manage resources on AzureRM, Amazon Web Services(AWS) and Google Cloud Platform(GCP)
Add


All pipelines > New release pipeline
Save
Create release
View releases
Pipeline
Tasks
Variables
Retention
Options
History
Stage 1
Deployment process
Agent job
Run on agent
Use Terraform latest
Terraform Installer
Terraform : init
Some settings need attention
Terraform : azurerm
Some settings need attention
Terraform : azurerm
Some settings need attention
Select a file or folder
Linked artifacts
_first_project-CI (Build)
drop
.git
main.tf
README.md
drop
Terraform
View YAML
Remove
Task version
3.*
Display name *
Terraform : init
Provider *
azurerm
Command *
init
Configuration directory
$(System.DefaultWorkingDirectory)/_first_project-CI/drop
Additional command arguments
AzureRM backend configuration

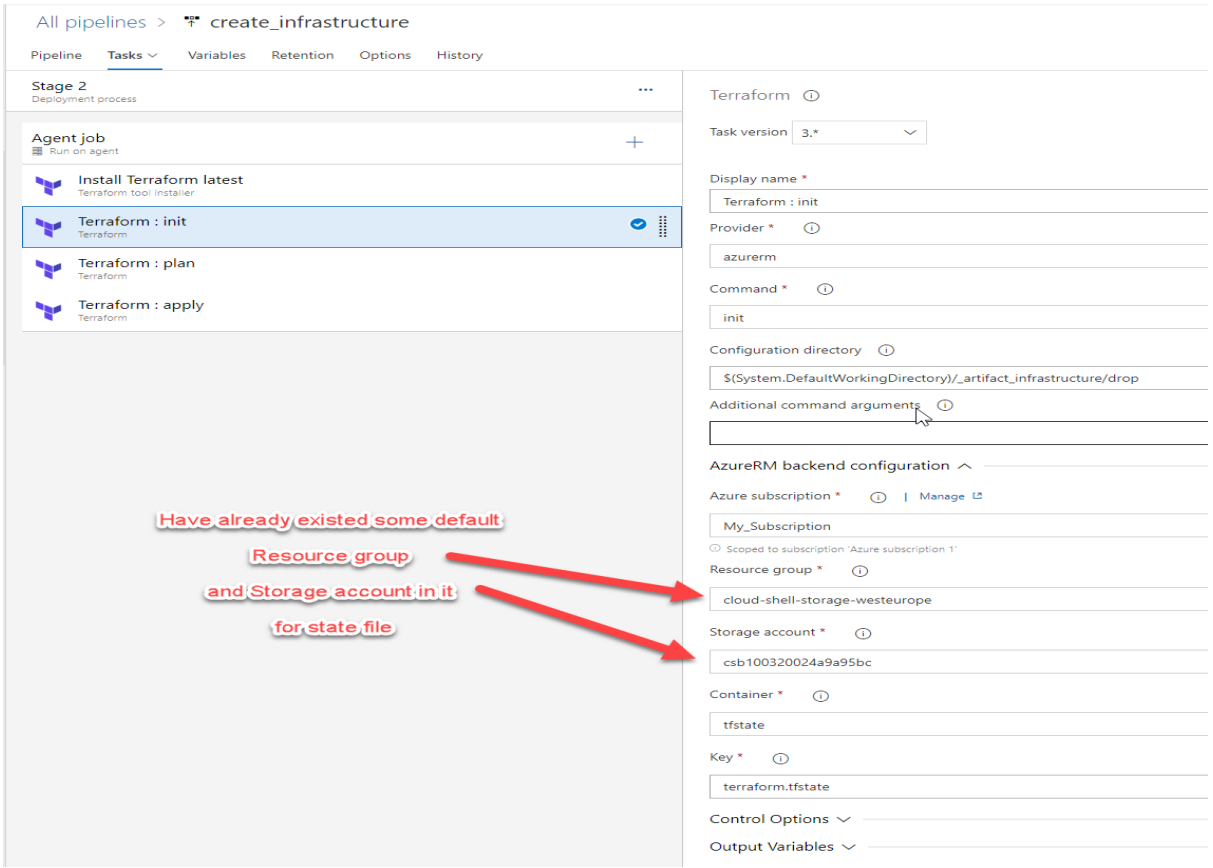

All pipelines > New release pipeline
Save
Create release
View releases
Pipeline
Tasks
Variables
Retention
Options
History
Stage 1
Deployment process
Agent job
Run on agent
Use Terraform latest
Terraform Installer
Terraform : init
Some settings need attention
Terraform : azurerm
Some settings need attention
Terraform : azurerm
Some settings need attention
Terraform
View YAML
Remove
Task version 3.*
Display name *
Terraform : init
Provider *
azurerm
Command *
init
Configuration directory
$(System.DefaultWorkingDirectory)/_first_project-CI/drop
Additional command arguments
AzureRM backend configuration
Azure subscription *
Manage
My_Subscription
Scoped to subscription 'Azure subscription 1'
Resource group *
myResourceGroup-49393
Storage account *
storegeaccfortest
Container *
tfstate
Key *
The path to the Terraform remote state file inside the container. For example, if you want to store the state file, named terraform.tfstate, inside a folder, named tf, then give the input 'tf/terraform.tfstate'.
This setting is required.
Control Options
Output Variables

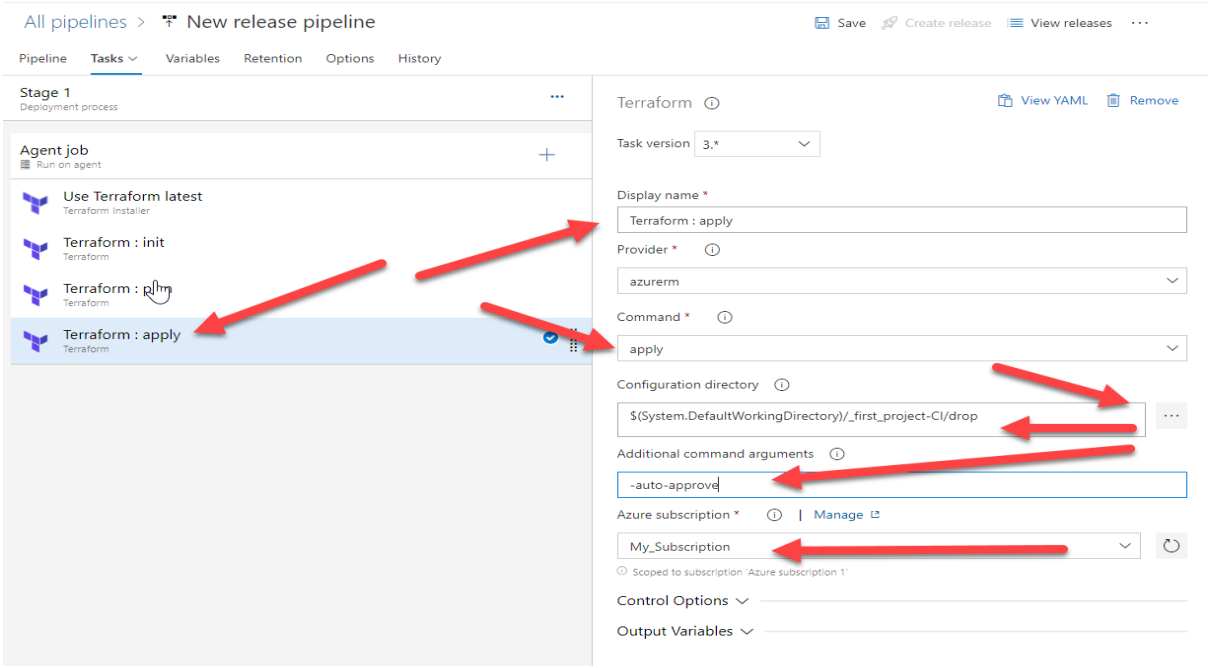

All pipelines > New release pipeline
Save
Create release
View releases
Pipeline
Tasks
Variables
Retention
Options
History
Stage 1
Deployment process
Agent job
Run on agent
Use Terraform latest
Terraform Installer
Terraform : init
Terraform
Terraform : plan
Terraform
Terraform : azurerm
Some settings need attention
Terraform
View YAML
Remove
Task version 3.*
Display name *
Terraform : plan
Provider *
azurerm
Command *
plan
Configuration directory
$(System.DefaultWorkingDirectory)/_first_project-CI/drop
Additional command arguments
Azure subscription *
Manage
My_Subscription
Scoped to subscription 'Azure subscription 1'
Control Options
Output Variables

Option 1

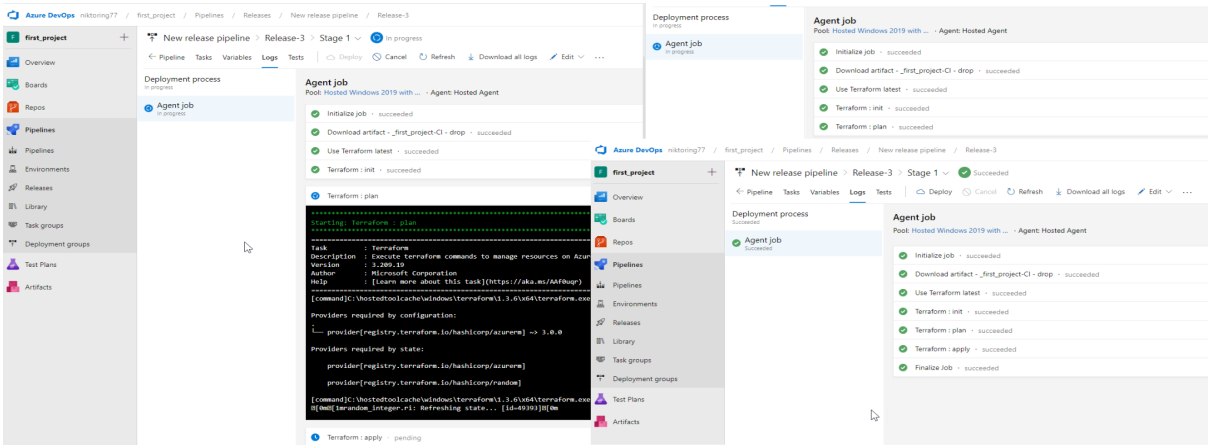


Option 2

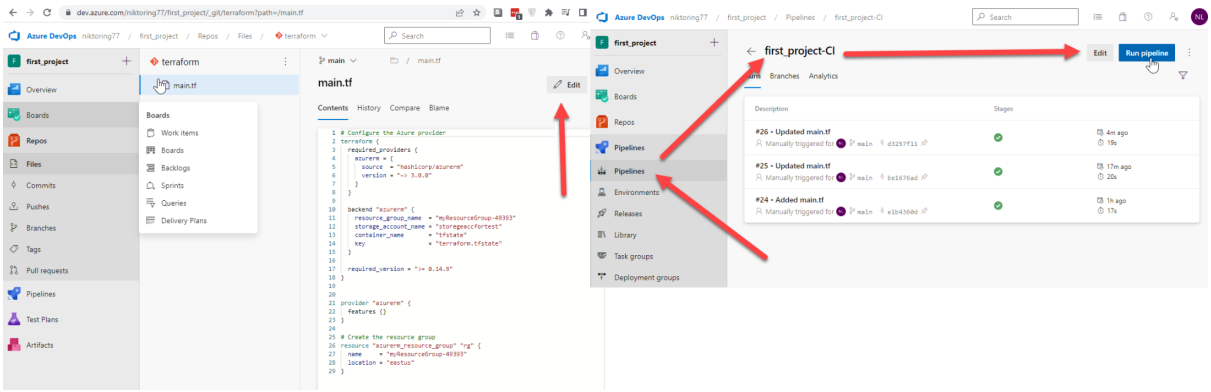




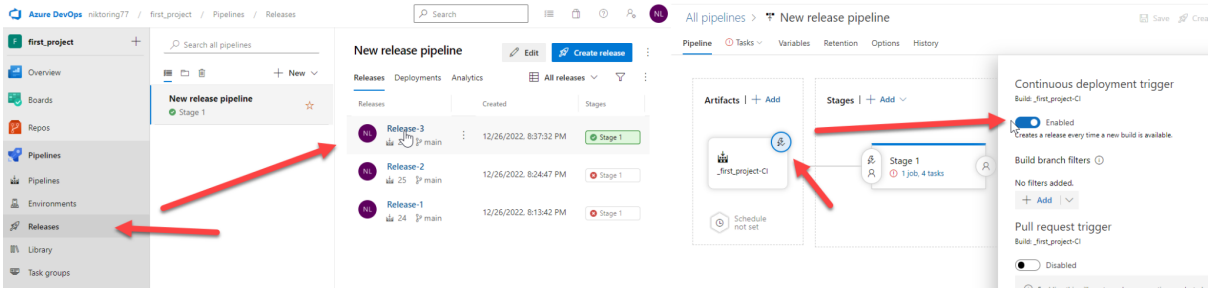
SAVE



when I fix, add, rewrite some to file **main.tf** and create **ARTIFACT**

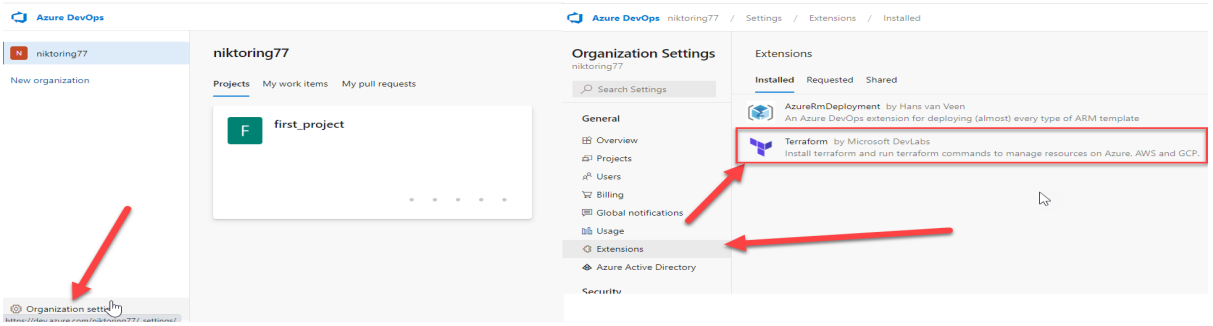


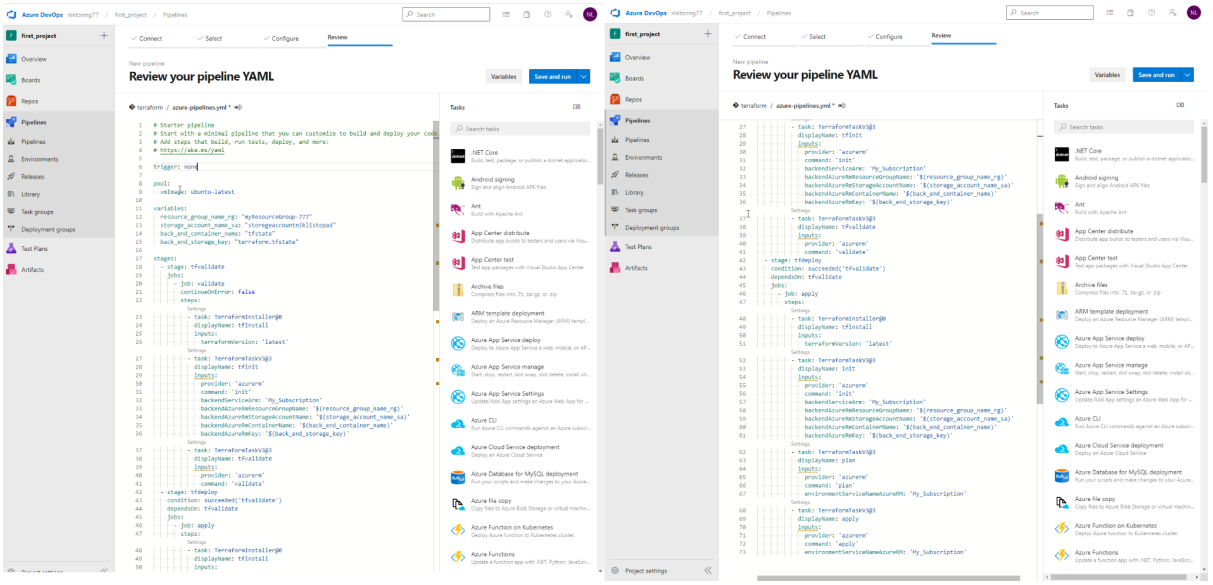
RELEASE start automatically

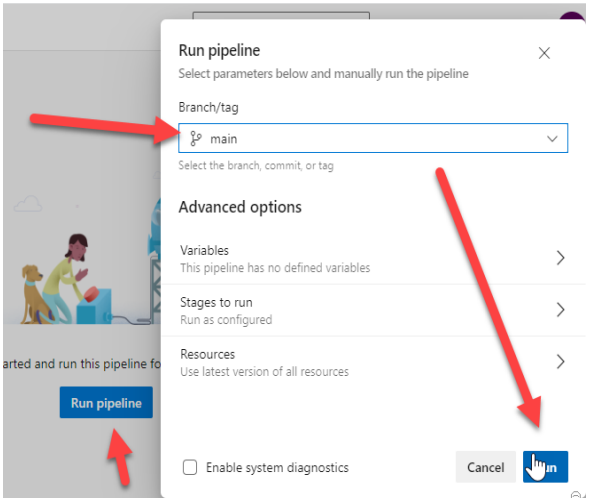


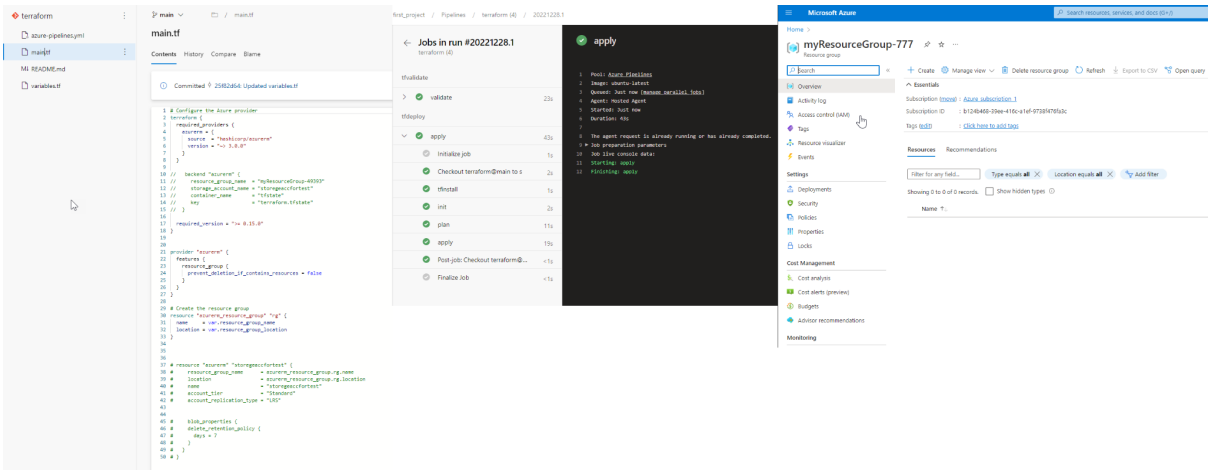
PIPELINE with .yaml file

Add the terraform extension from marketplace first of all

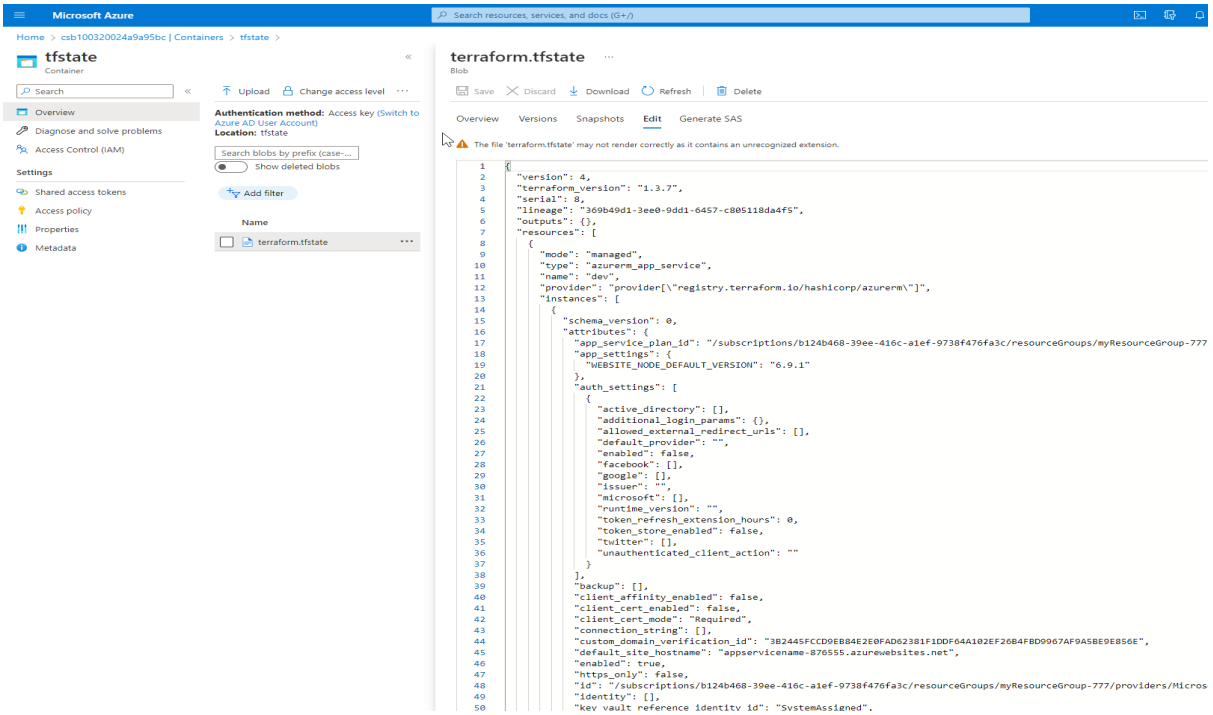




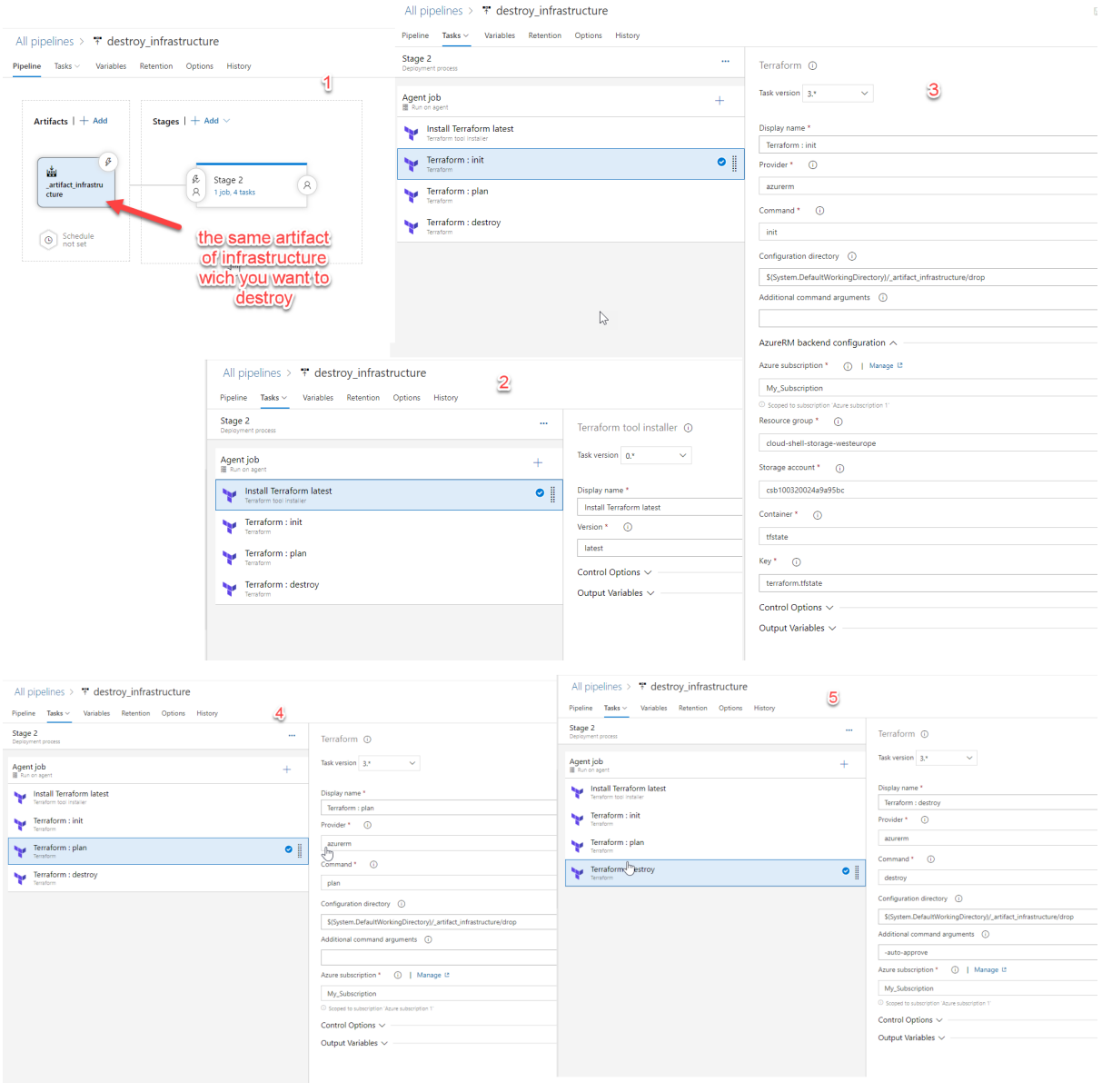




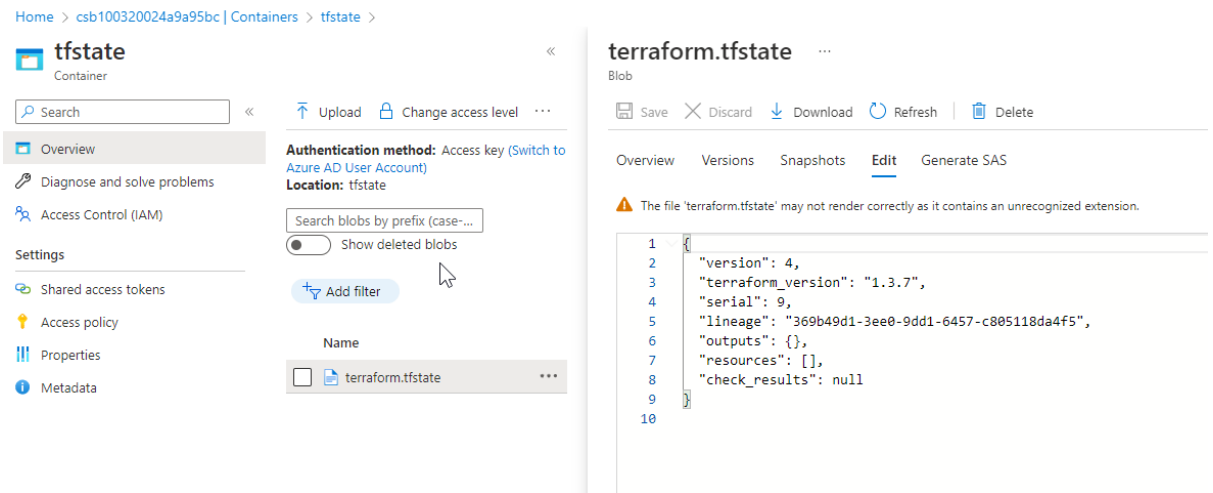
File view with a record of all were created entities



Destroy release of infrastructure



result in state file



Part 3 – Create a deploy pipeline to app service

1. Add yml pipeline to the application folder

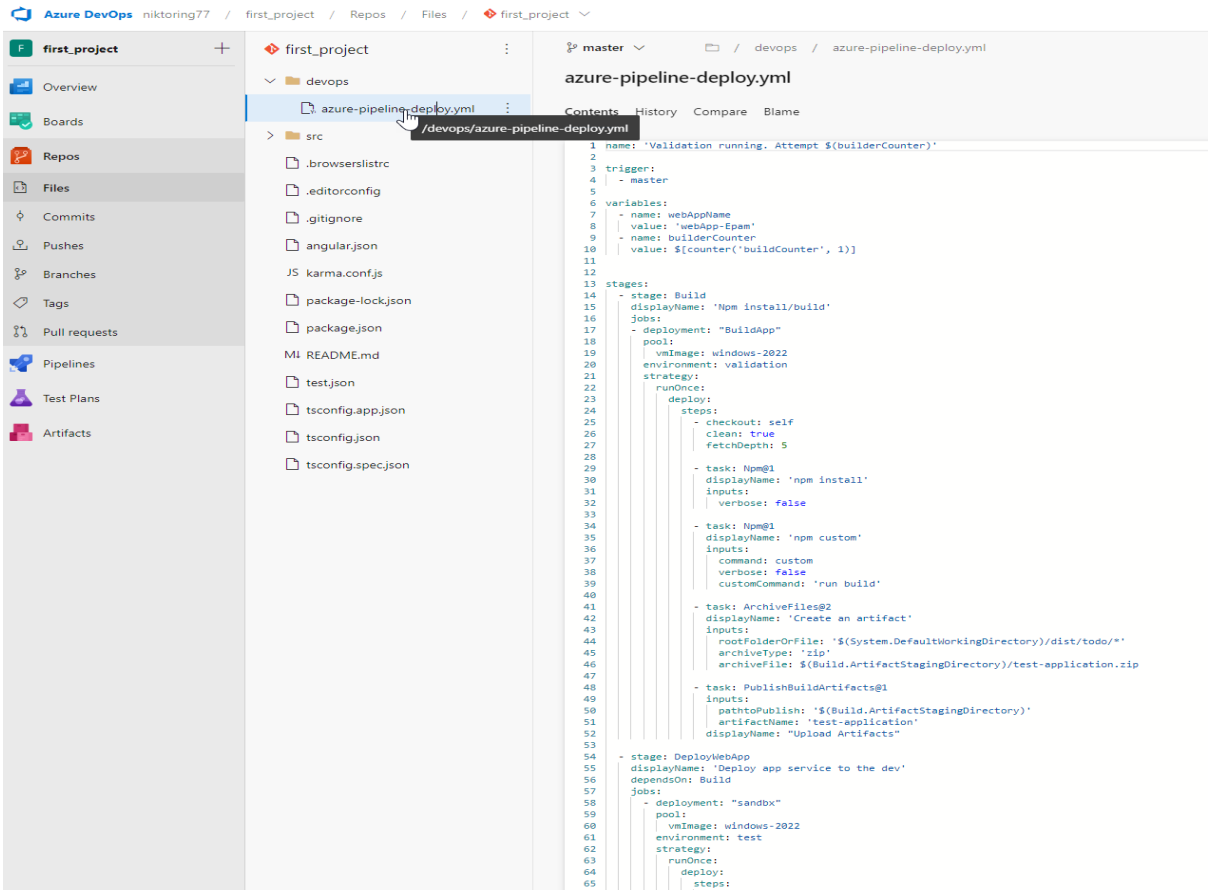
2. Your pipeline structure should contain 2 stages. 1st – build, create zip archieve, and publish an artifact. 2nd – download an artifact and deploy it to azure app service

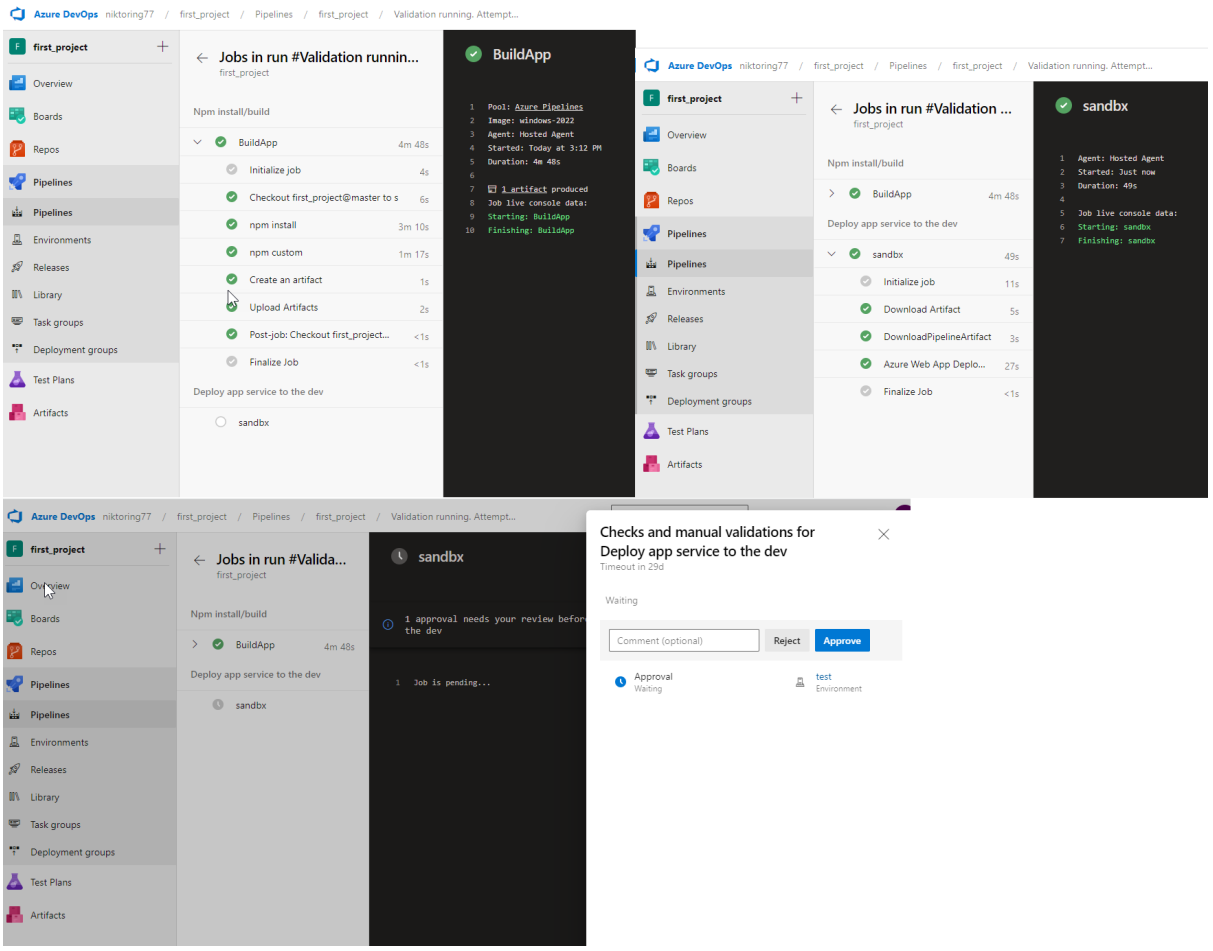
3. To deploy .zip to app service use azure app service deployment task

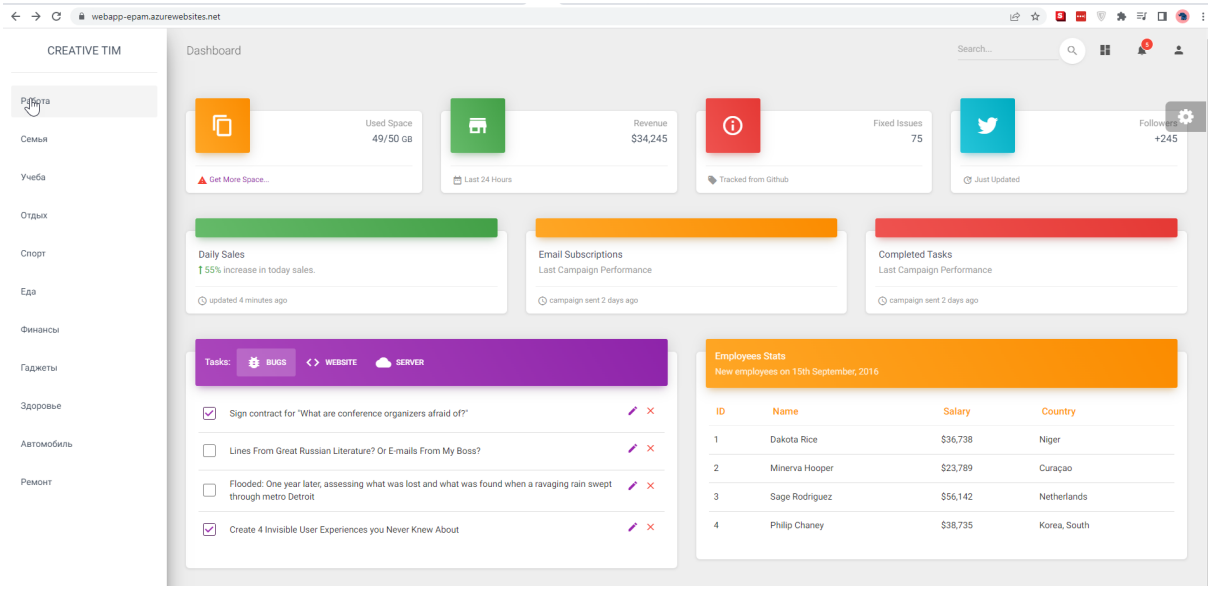
Service connection – manual way

https://4bes.nl/2019/07/11/step-by-step-manually-create-an-azure-devops-service-connection-to-azure/

Don't forget to grant access on the subscription level for your enterprise application (service principal)




Azure DevOps niktoring77 / first_project / Pipelines / first_project / Validation running. Attempt...
first_project
Overview
Boards
Repos
Pipelines
Pipelines
Environments
Releases
Library
Task groups
Deployment groups
Test Plans
Artifacts
Jobs in run #Validation runnin...
first_project
Npm install/build
BuildApp 4m 48s
Initialize job 4s
Checkout first_project@master to s 6s
npm install 3m 10s
npm custom 1m 17s
Create an artifact 1s
Upload Artifacts 2s
Post-job: Checkout first_project... <1s
Finalize Job <1s
Deploy app service to the dev
sandbx
BuildApp
Pool: Azure Pipelines
Image: windows-2022
Agent: Hosted Agent
Started: Today at 3:12 PM
Duration: 4m 48s
1 artifact produced
Job live console data:
Starting: BuildApp
Finishing: BuildApp
Jobs in run #Validation ...
Npm install/build
BuildApp 4m 48s
Deploy app service to the dev
sandbx 49s
Initialize job 11s
Download Artifact 5s
DownloadPipelineArtifact 3s
Azure Web App Deplo... 27s
Finalize Job <1s
sandbx
Agent: Hosted Agent
Started: Just now
Duration: 49s
Job live console data:
Starting: sandbx
Finishing: sandbx
Jobs in run #Valida...
1 approval needs your review before the dev
Job is pending...
Checks and manual validations for Deploy app service to the dev
Timeout in 29d
Waiting
Comment (optional)
Reject
Approve
Approval
Waiting
test
Environment


webapp-epam.azurewebsites.net
CREATIVE TIM
Работа
Семья
Учеба
Отдых
Спорт
Еда
Финансы
Гаджеты
Здоровье
Автомобиль
Ремонт
Dashboard
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
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

Azure CLI deploy required Azure resources
call az group create --location westeurop --name cloud-shell-storage-westeurope

call az storage account create --name csb100320024a9a95bc --resource-group
cloud-shell-storage-westeurope --location westeurop --sku Standard_LRS

call az storage container create --name terraform --account-name csb100320024a9a95bc

call az storage account keys list -g cloud-shell-storage-westeurope -n csb100320024a9a95bc

example 2
call az group create --location westeurop --name $(terraformstoragerg)

call az storage account create --name $(terraformstorageaccount) --resource-group
$(terraformstoragerg) --location westeurop --sku Standard_LRS

call az storage container create --name terraform --account-name $(terraformstorageaccount)

call az storage account keys list -g $(terraformstoragerg) -n $(terraformstorageaccount)

Azure PowerShell script: InlineScript
You can write your azure powershell scripts inline here.
You can also pass predefined and custom variables to this script using arguments

$key=(Get-AzureRmStorageAccountKey -ResourceGroupName $(cloud-shell-storage-westeurope)
-AccountName $(csb100320024a9a95bc)).Value[0]
Write-Host "##vso[task.setvariable variable=storagekey]$key"