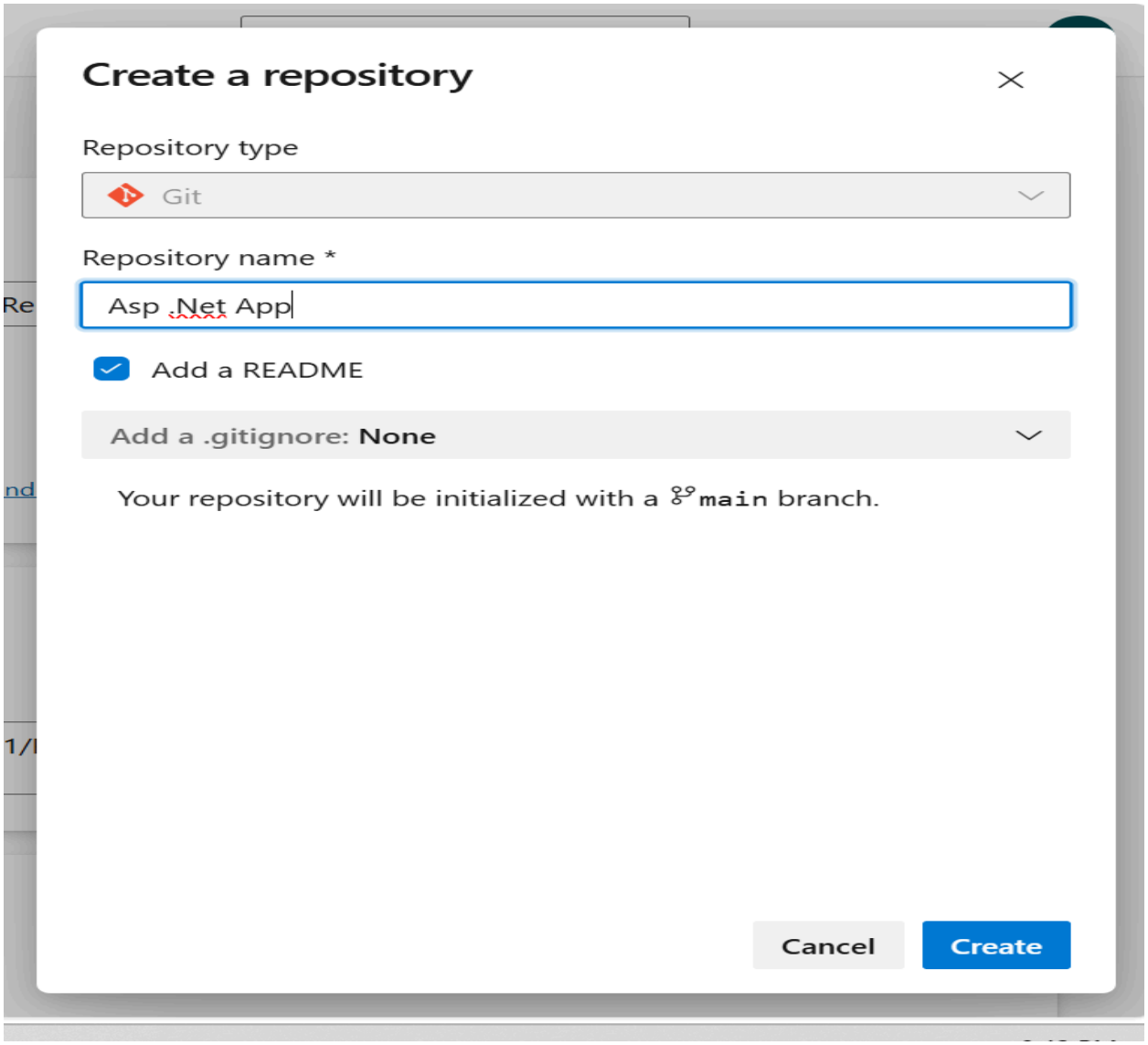
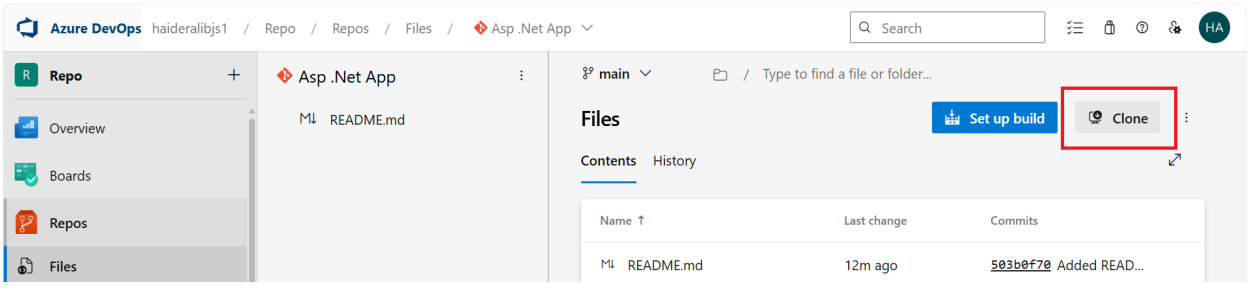
Asp Net App Pipeline on AzureDevops:

Create repository on AzureDevops

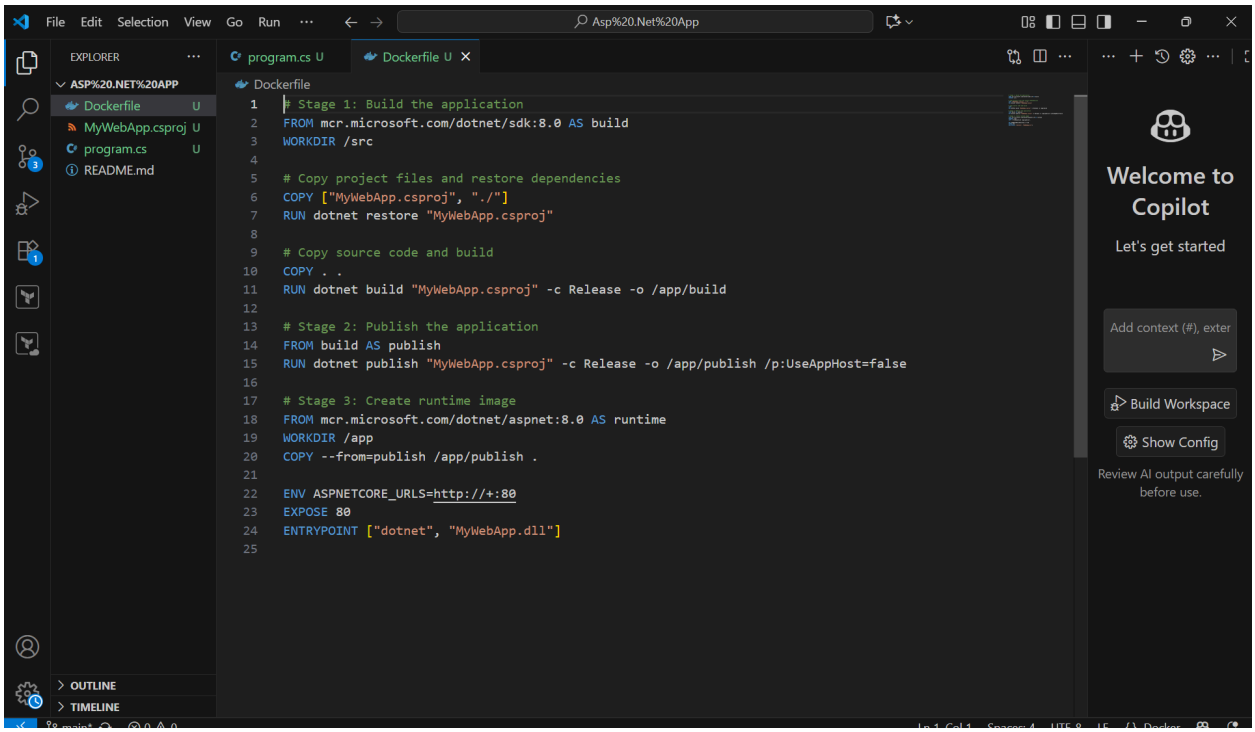


Click on the Clone button to add this repo on local machine



```
MINGW64:/c/Users/User/Downloads

User@LAPTOP-NS5GPVIA MINGW64 ~/Downloads
$ git clone https://haideralibjs1@dev.azure.com/haideralibjs1/Repo/_git/Asp%20.Net%20App
Cloning into 'Asp%20.Net%20App'...
remote: Azure Repos
remote: Found 3 objects to send. (14 ms)
Unpacking objects: 100% (3/3), 740 bytes | 35.00 KiB/s, done.
```

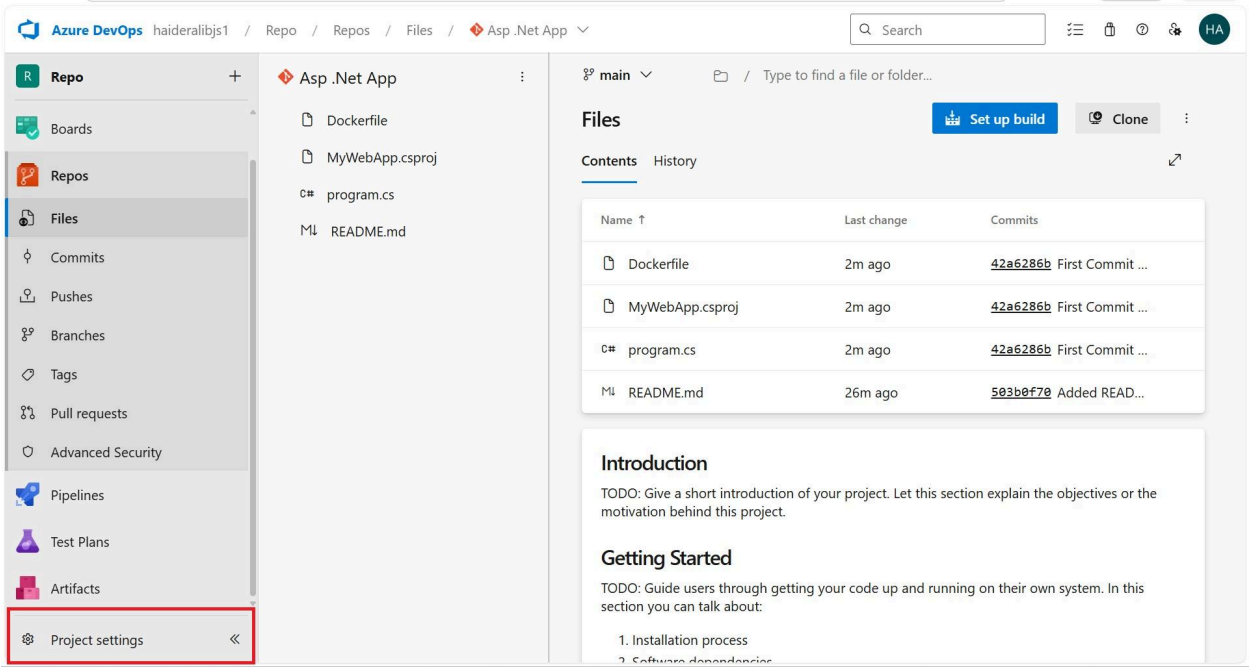
Create Dockerfile for Asp .Net Core App



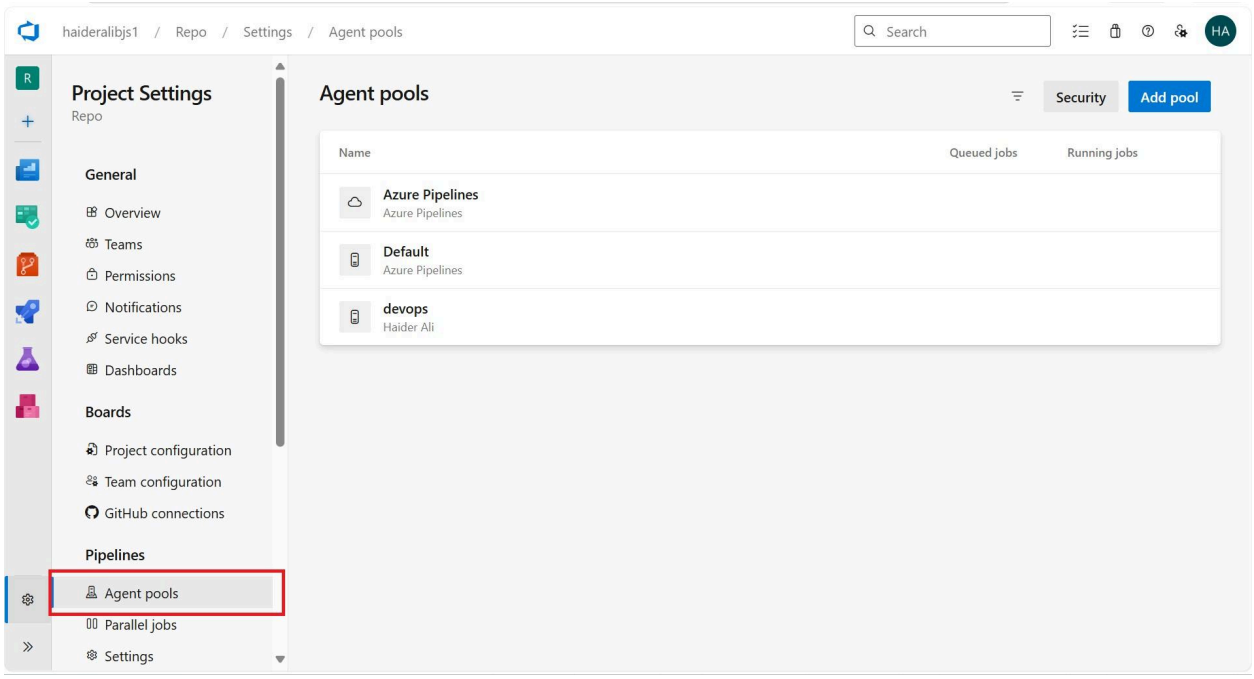
Push Code to Azure Devops

```
User@LAPTOP-NS5GPVIA MINGW64 ~/Downloads/Asp%20.Net%20App (main)
$ git add .
warning: in the working copy of 'Dockerfile', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'MyWebApp.csproj', LF will be replaced by CRLF the next time Git touches i
t
warning: in the working copy of 'program.cs', LF will be replaced by CRLF the next time Git touches it

User@LAPTOP-NS5GPVIA MINGW64 ~/Downloads/Asp%20.Net%20App (main)
$ git commit -m "First Commit"
[main 42a6286] First Commit
 3 files changed, 39 insertions(+)
 create mode 100644 Dockerfile
 create mode 100644 MyWebApp.csproj
 create mode 100644 program.cs

User@LAPTOP-NS5GPVIA MINGW64 ~/Downloads/Asp%20.Net%20App (main)
$ git branch
* main

User@LAPTOP-NS5GPVIA MINGW64 ~/Downloads/Asp%20.Net%20App (main)
$ git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 969 bytes | 323.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Analyzing objects... (5/5) (4 ms)
remote: Validating commits... (1/1) done (0 ms)
remote: Storing packfile... done (88 ms)
remote: Storing index... done (33 ms)
remote: Updating refs... done (96 ms)
To https://dev.azure.com/haideralibjs1/Repo/_git/Asp%20.Net%20App
   503b0f7..42a6286  main -> main

User@LAPTOP-NS5GPVIA MINGW64 ~/Downloads/Asp%20.Net%20App (main)
$
```

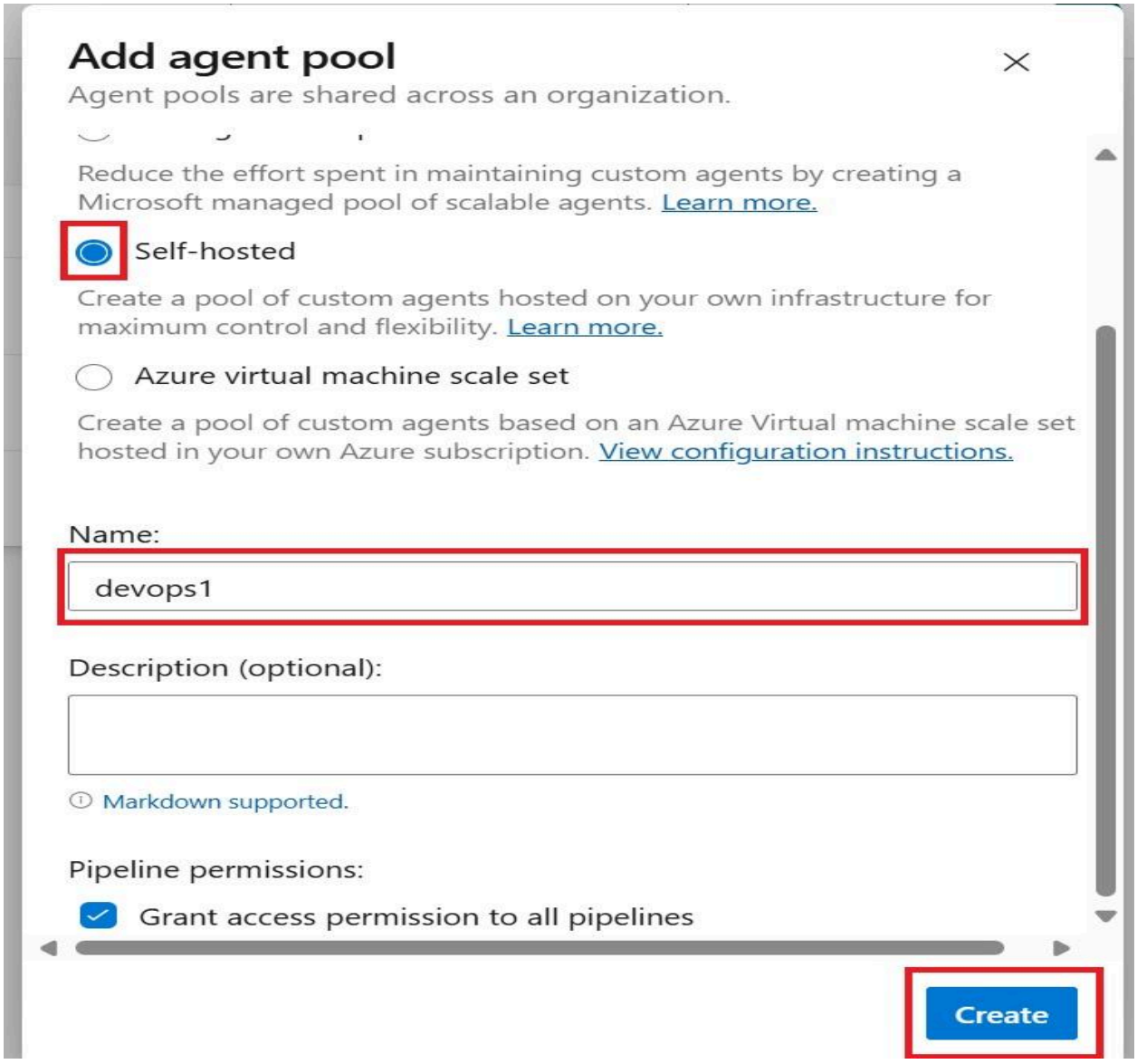
Add Agent:
Click on Project Settings



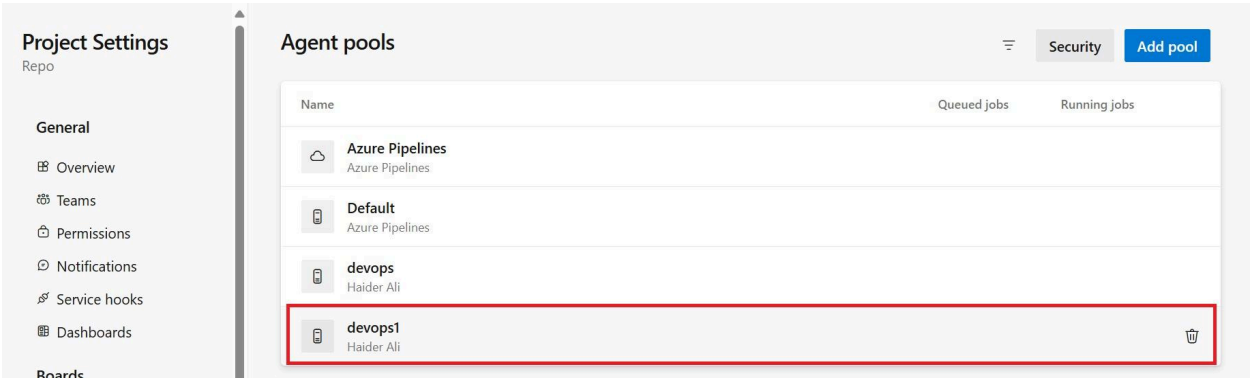
Add New Agent pools:

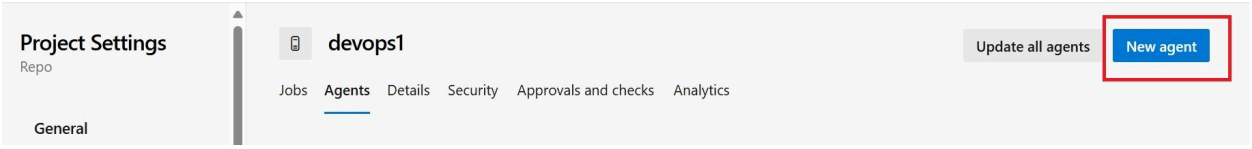


Add New Agent:

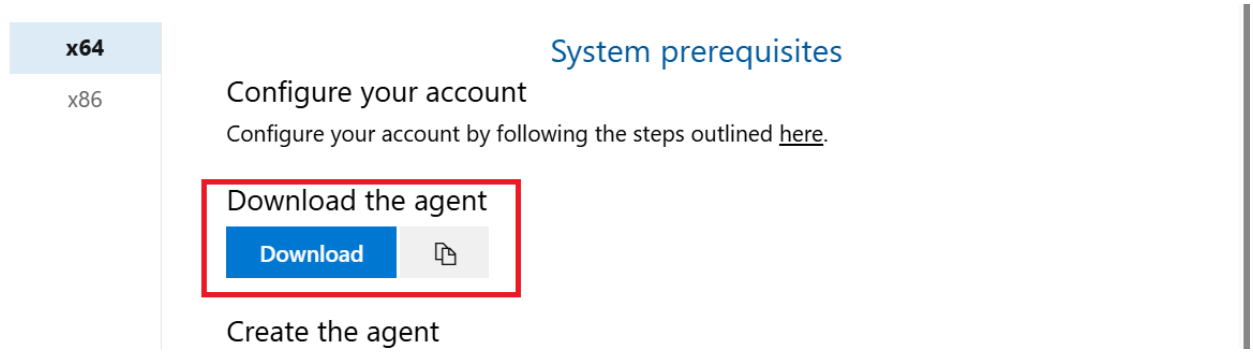


Click on Agent pools:

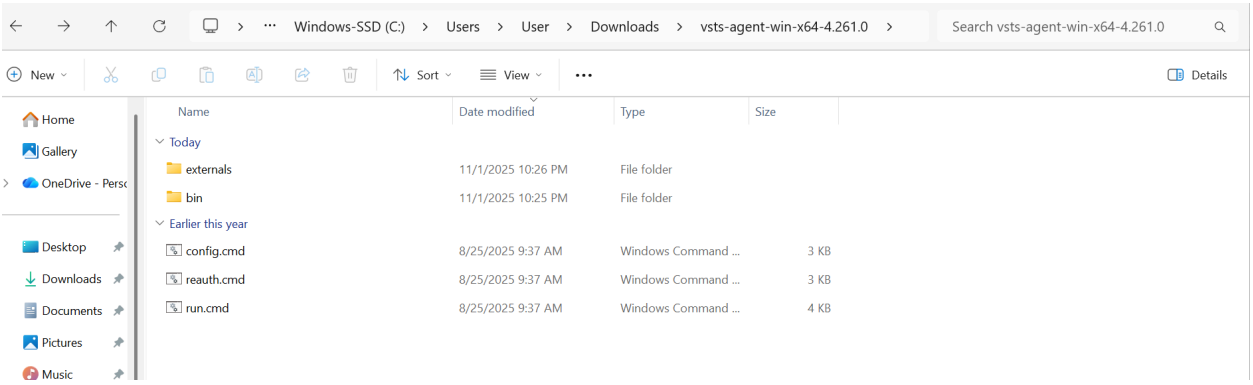


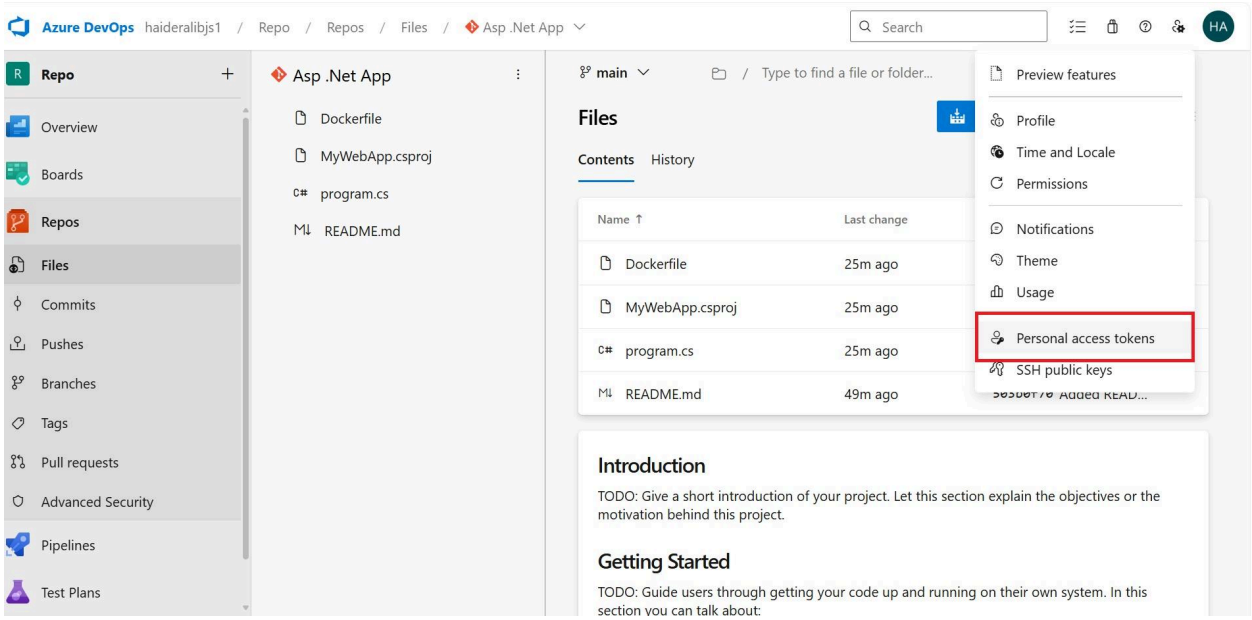


Download Agent:

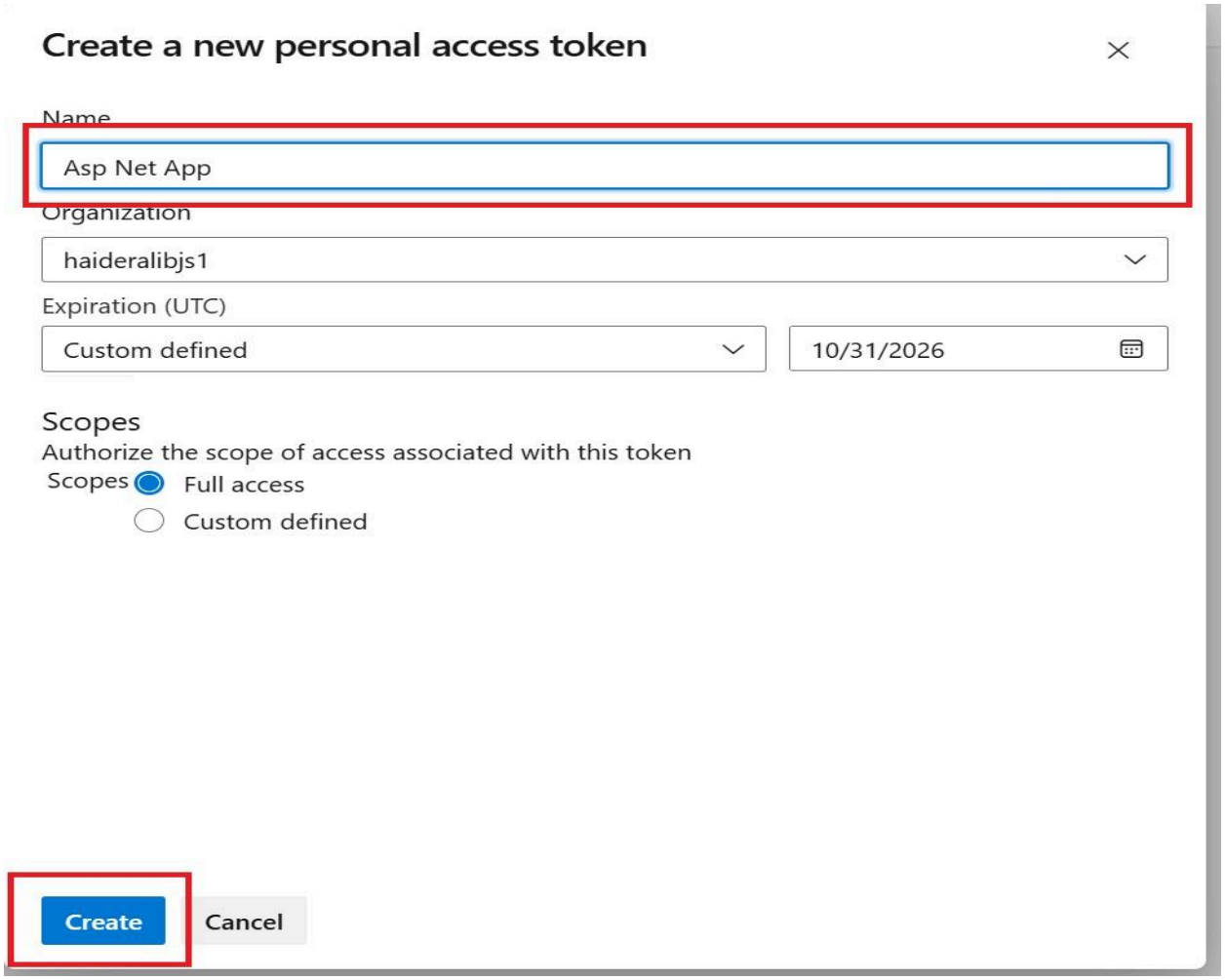


Extract this folder and open in cmd

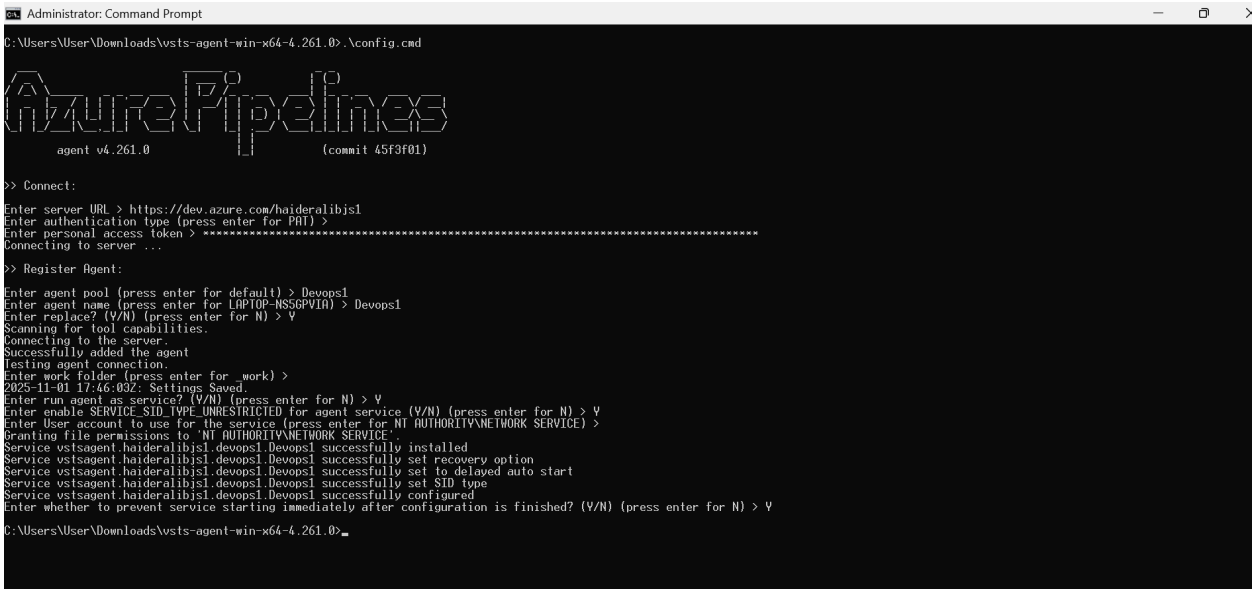




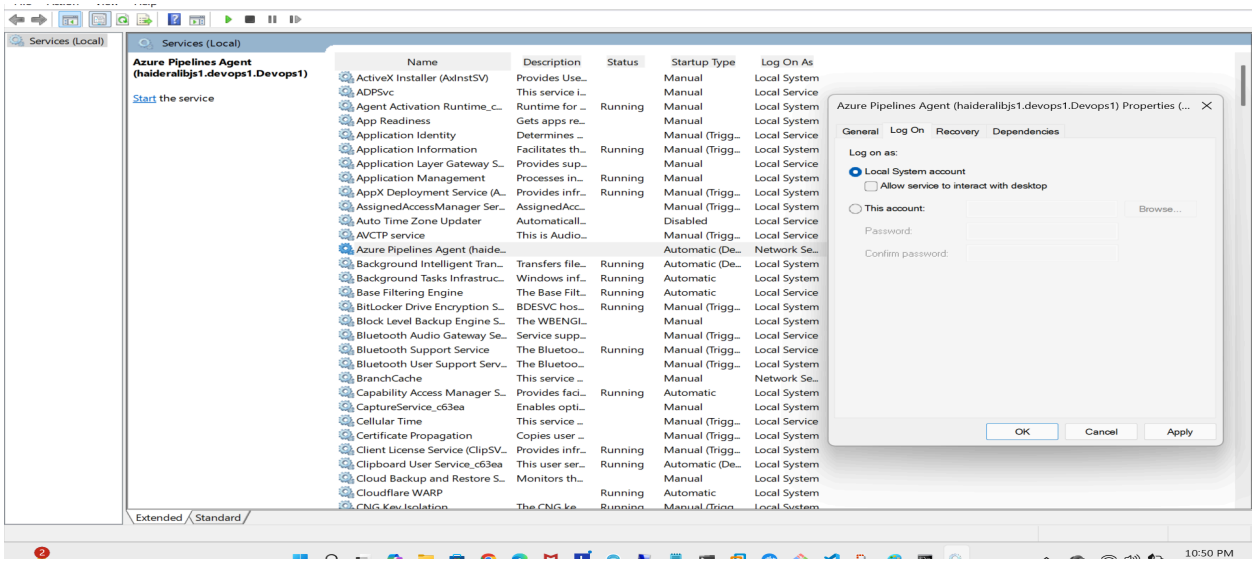
Create New Token:



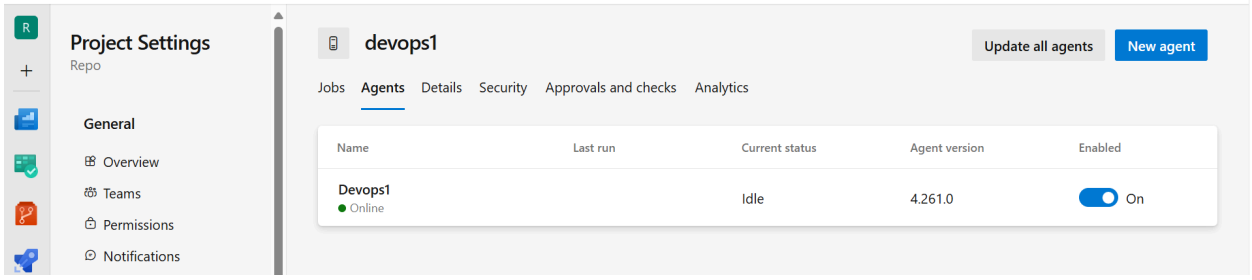
Add Agent:



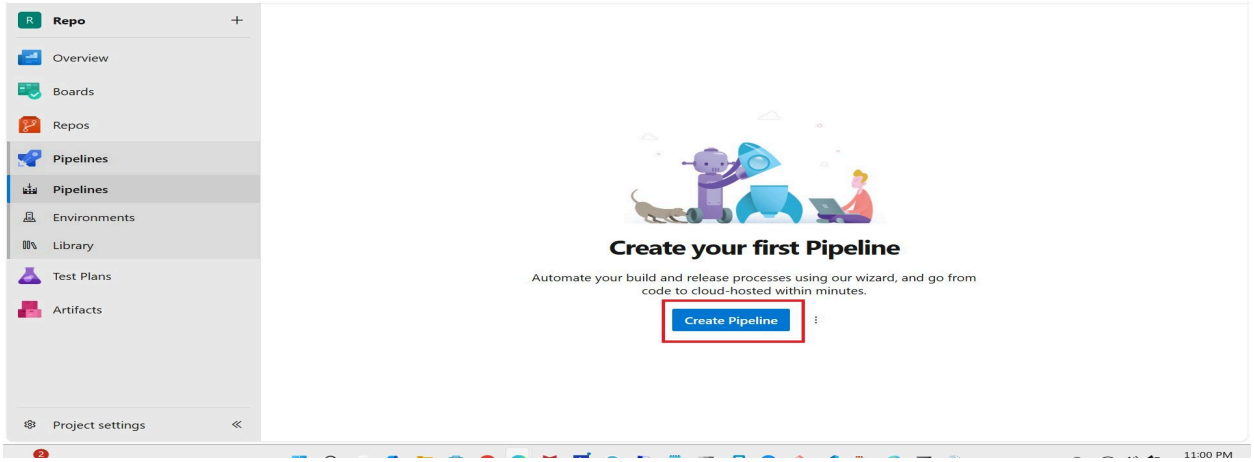
Switch Pipeline user to local on window:



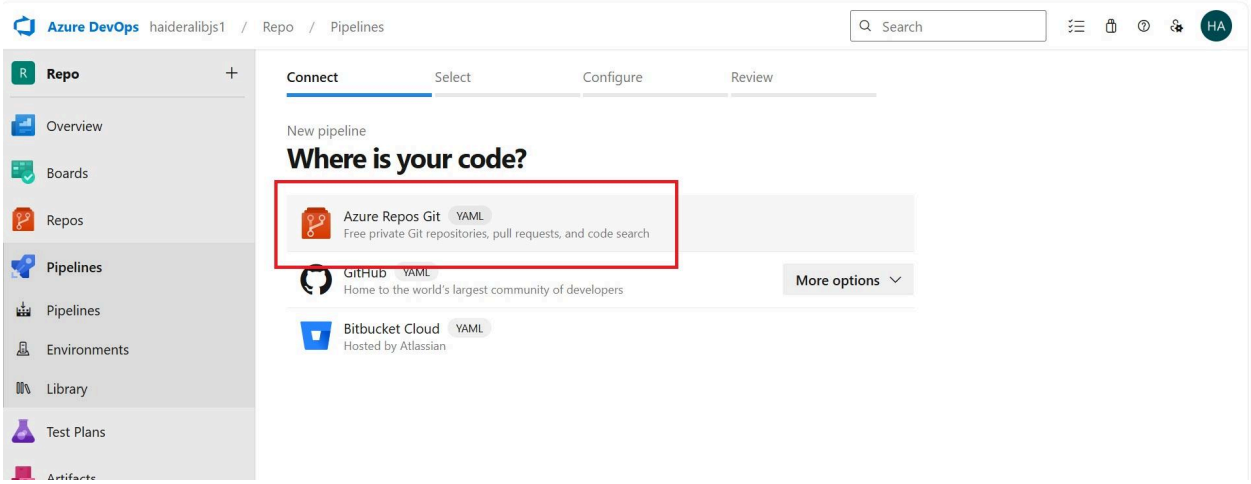
Check Agent is live



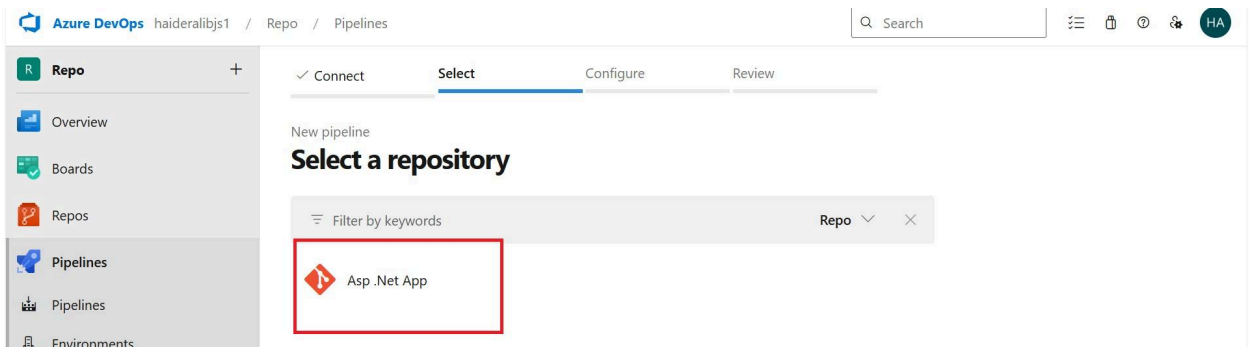
Create Pipeline

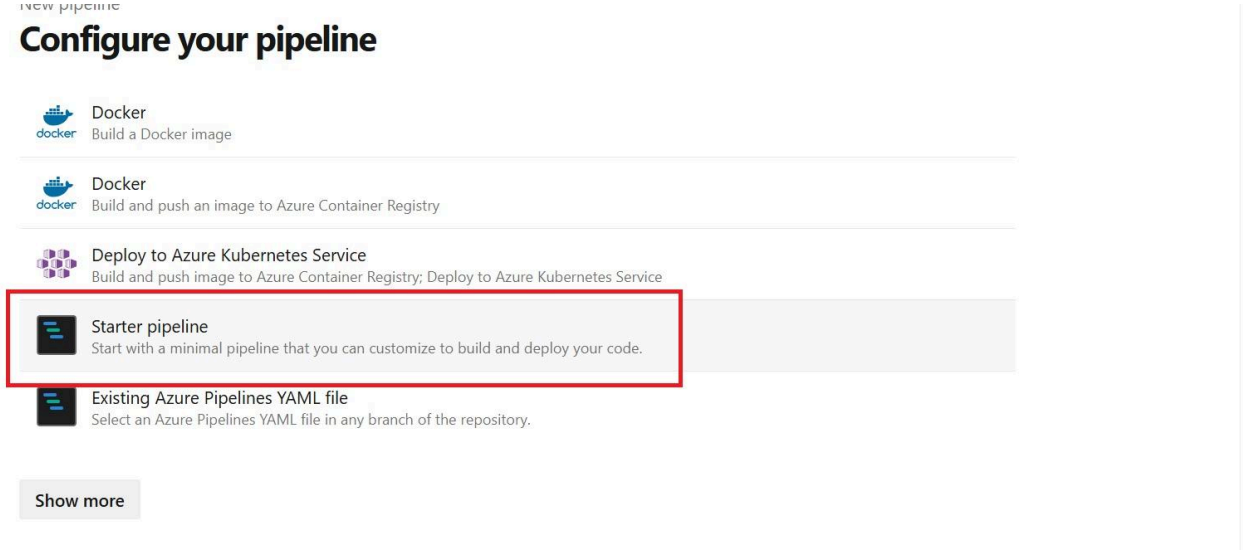


Select Azure Repos Git:



Select specific repo:



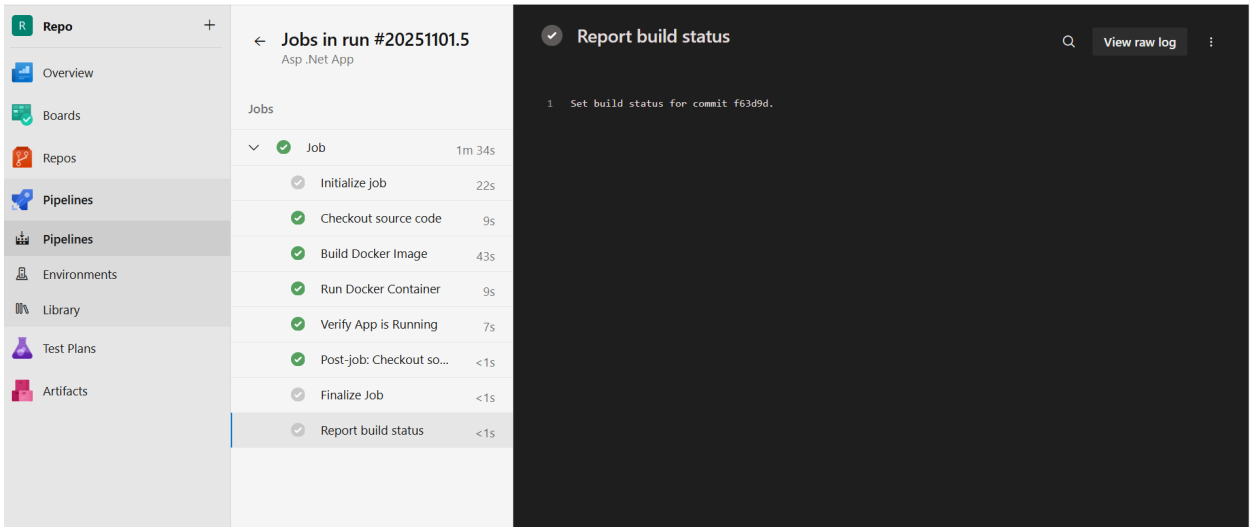


Add Pipeline:

Contents History Compare Blame

```yaml
trigger:
- main  # or your branch name

pool:
  name: devops1  # your self-hosted agent pool

steps:
# Step 1: Checkout source
- checkout: self
  displayName: 'Checkout source code'

# Step 2: Build Docker image
- script: |
    echo "Building Docker image..."
    docker build -t mywebapp .
  displayName: 'Build Docker Image'

# Step 3: Remove old container if exists & run new one
- script: |
    echo "Stopping and removing existing container (if any)..."
    docker rm -f mywebapp_container || echo "No existing container"
    echo "Running new container..."
    docker run -d -p 8080:80 -e ASPNETCORE_URLS=http://+:80 --name mywebapp_container mywebapp
  displayName: 'Run Docker Container'

# Step 4: Verify container is running
- powershell: |
    Write-Host "Listing running containers..."
    docker ps
    Write-Host "Testing application endpoint..."
    Invoke-WebRequest -Uri http://localhost:8080 -UseBasicParsing
  displayName: 'Verify App is Running'
```

Check Pipeline Run Successfully:



Check App Is Working Successfully: