

# DEVOPS – Final Assessment

## SECTION - I

### MCQs:

1. What does WSL stand for in the context of Windows? - **Windows System for Linux**
2. What is the primary goal of continuous integration (CI) in DevOps? - **Frequent integration of code changes**
3. In the Linux command line, what does the cd command do? - **Change the working directory**
4. Which of the following is not a Linux distribution? - **Docker**
5. What is Docker primarily used for in DevOps and containerization? - **Packaging and deploying applications in containers**
6. What is the primary purpose of Azure DevOps? - **Software development and delivery**
7. Which components are part of Azure DevOps? - **Azure Boards and Azure Pipelines**
8. How does Azure DevOps support version control in software development? - **It tracks changes in source code and manages versions.**
9. In Linux, what is the primary role of the root user? - **Administrative tasks with superuser privileges**
10. In Azure DevOps, which component is used to define, build, test, and deploy applications? - **Azure Pipelines**

## SECTION - II

### LAB :

#### Lab 1: File and Directory Management :

```
ajith@ItzMe: /mnt/e/Internsh x + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ pwd
/mnt/e/Internship/DevOps Assessment/DevOps-Assessment
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ ls
README.md
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab1
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ ls
README.md
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab1
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ touch Sample.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat Sample.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat>Sample.txt
Hii this is the sample text file created for Lab1^Z
[1]+  Stopped                  cat > Sample.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat Sample.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat>Sample.txt
Hii this is the sample text file created for Lab1^C
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat Sample.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat>Sample.txt
Hii this is the sample text file created for Lab1^C
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat Sample.txt
Hii this is the sample text file created for Lab1ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cp Sample.txt Sample_copy.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ ls
Sample.txt Sample_copy.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cat Sample_copy.txt
Hii this is the sample text file created for Lab1ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ mv Sample_copy.txt new_sample.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ ls
Sample.txt new_sample.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ |
```

## Lab 2: Permissions and Ownership :

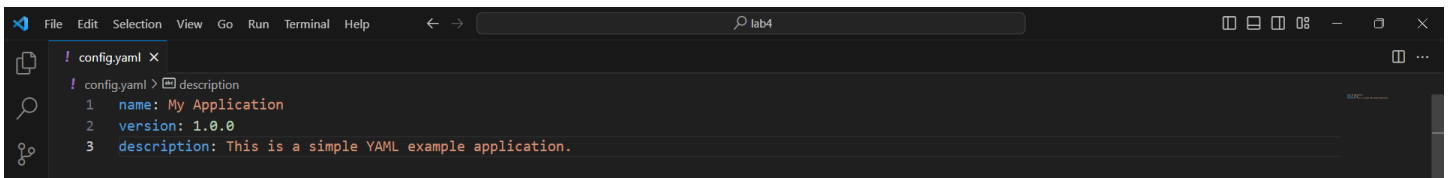
```
ajith@ItzMe: /mnt/e/Internsh x + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cd ..
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab2
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab2
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ ls
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ touch secret.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ ls
secret.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ chmod 600 secret.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ cat>secret.txt
Hii this is secret fileajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ cat secret.txt
Hii this is secret fileajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ ls -l
total 0
-rwxrwxrwx 1 ajith ajith 23 Oct 20 10:58 secret.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ useradd Hari
useradd: Permission denied.
useradd: cannot lock /etc/passwd; try again later.
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ sudo useradd Hari
[sudo] password for ajith:
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ chown Hari secret.txt
chown: changing ownership of 'secret.txt': Operation not permitted
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ sudo chown Hari secret.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ ls -l
total 0
-rwxrwxrwx 1 ajith ajith 23 Oct 20 10:58 secret.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ ls -n
total 0
-rwxrwxrwx 1 1000 1000 23 Oct 20 10:58 secret.txt
```

## Lab 3: Text Processing with Command Line Tools :

```
ajith@ItzMe: /mnt/e/Internsh x + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab2$ cd ..
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ ls
Lab1 Lab2 README.md
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab3
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ ls
Lab1 Lab2 Lab3 README.md
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab3
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ touch random.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ ls
random.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ cat>random.txt
This is the sample text file created for lab3 and this is the some random textsajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ cat random.txt
This is the sample text file created for lab3 and this is the some random textsajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ grep lab3 random.txt
This is the sample text file created for lab3 and this is the some random texts
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ grep text random.txt
This is the sample text file created for lab3 and this is the some random texts
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ grep ^t random.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ grep ^T random.txt
This is the sample text file created for lab3 and this is the some random texts
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ sed -i 's/random/new random/g' random.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ cat random.txt
This is the sample text file created for lab3 and this is the some new random textsajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ wc random.txt
0 17 83 random.txt
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$
```

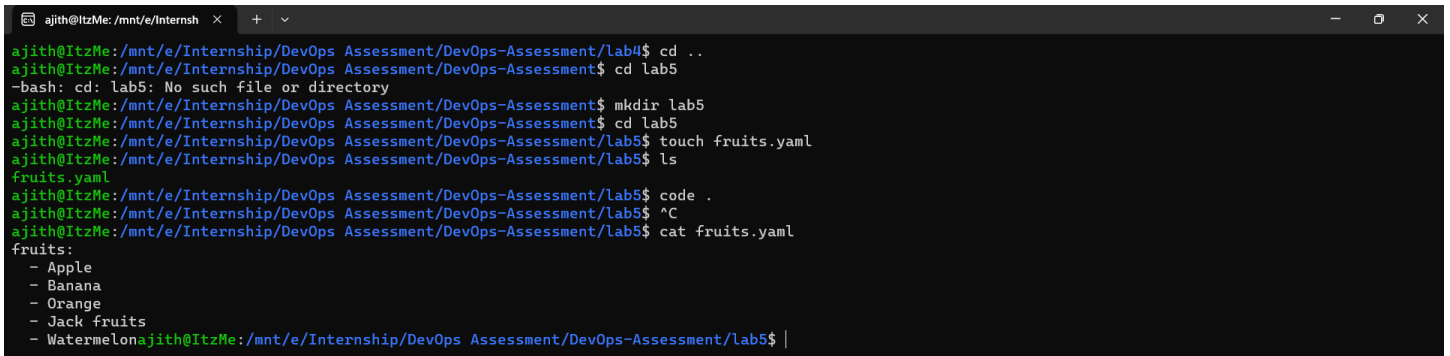
## Lab 4: Creating a Simple YAML File :

```
ajith@ItzMe: /mnt/e/Internsh x + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ cd ..
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab4
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab4
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab4$ ls
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab4$ touch config.yaml
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab4$ ls
config.yaml
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab4$ code .
```

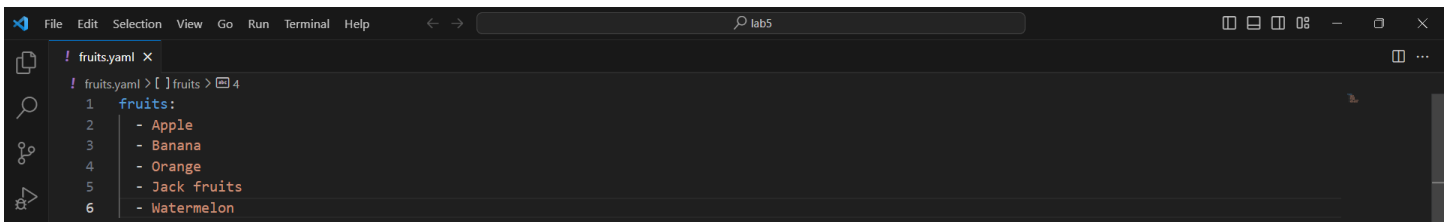


```
! config.yaml X
! config.yaml > description
1 name: My Application
2 version: 1.0.0
3 description: This is a simple YAML example application.
```

## Lab 5: Working with Lists in YAML :

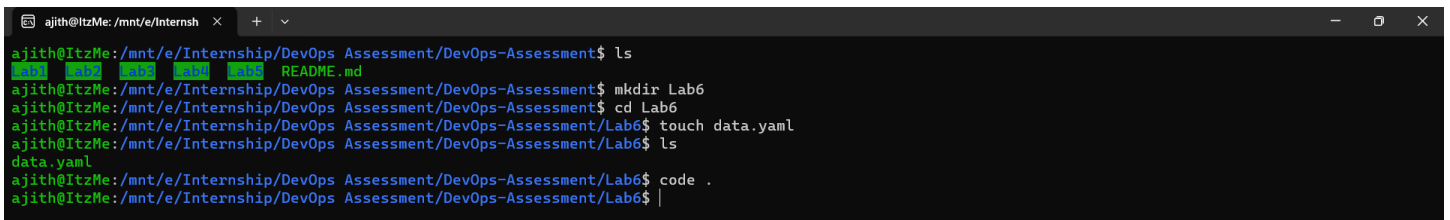


```
ajith@ItzMe: /mnt/e/Internsh X + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab4$ cd ..
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd lab5
-bash: cd: lab5: No such file or directory
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir lab5
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd lab5
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab5$ touch fruits.yaml
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab5$ ls
fruits.yaml
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab5$ code .
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab5$ ^C
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab5$ cat fruits.yaml
fruits:
- Apple
- Banana
- Orange
- Jack fruits
- Watermelonajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab5$ |
```

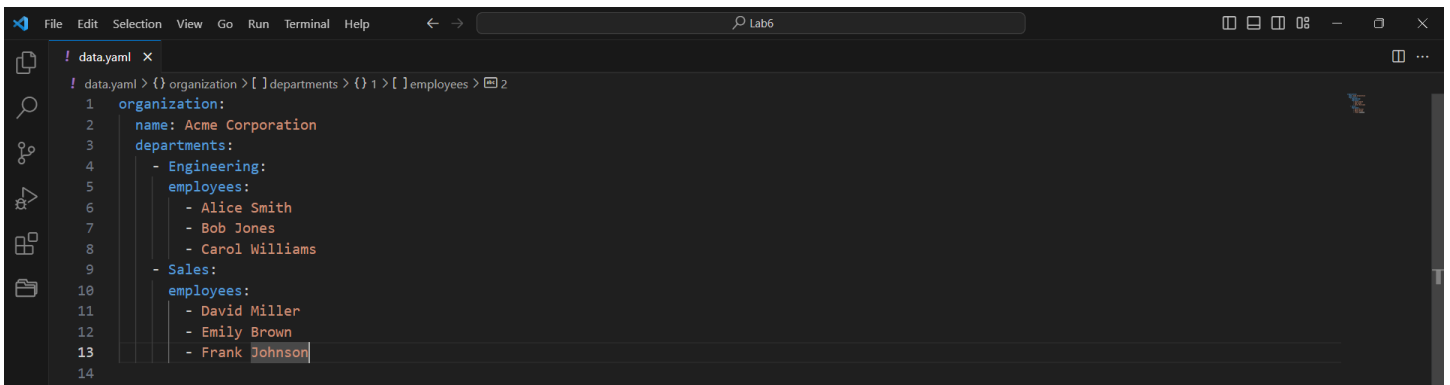


```
! fruits.yaml X
! fruits.yaml > [ ] fruits > 4
1 fruits:
2   - Apple
3   - Banana
4   - Orange
5   - Jack fruits
6   - Watermelon
```

## Lab 6: Nested Structures in YAML :

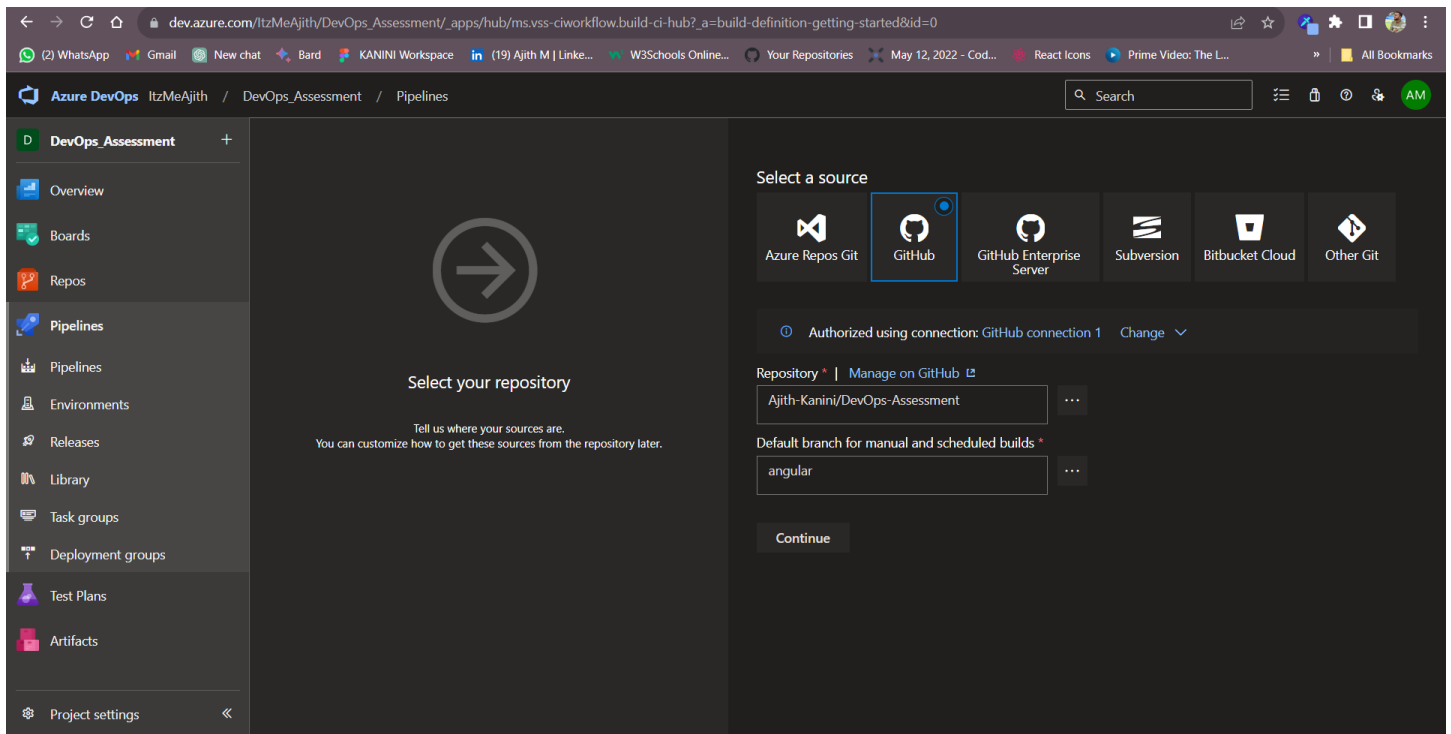
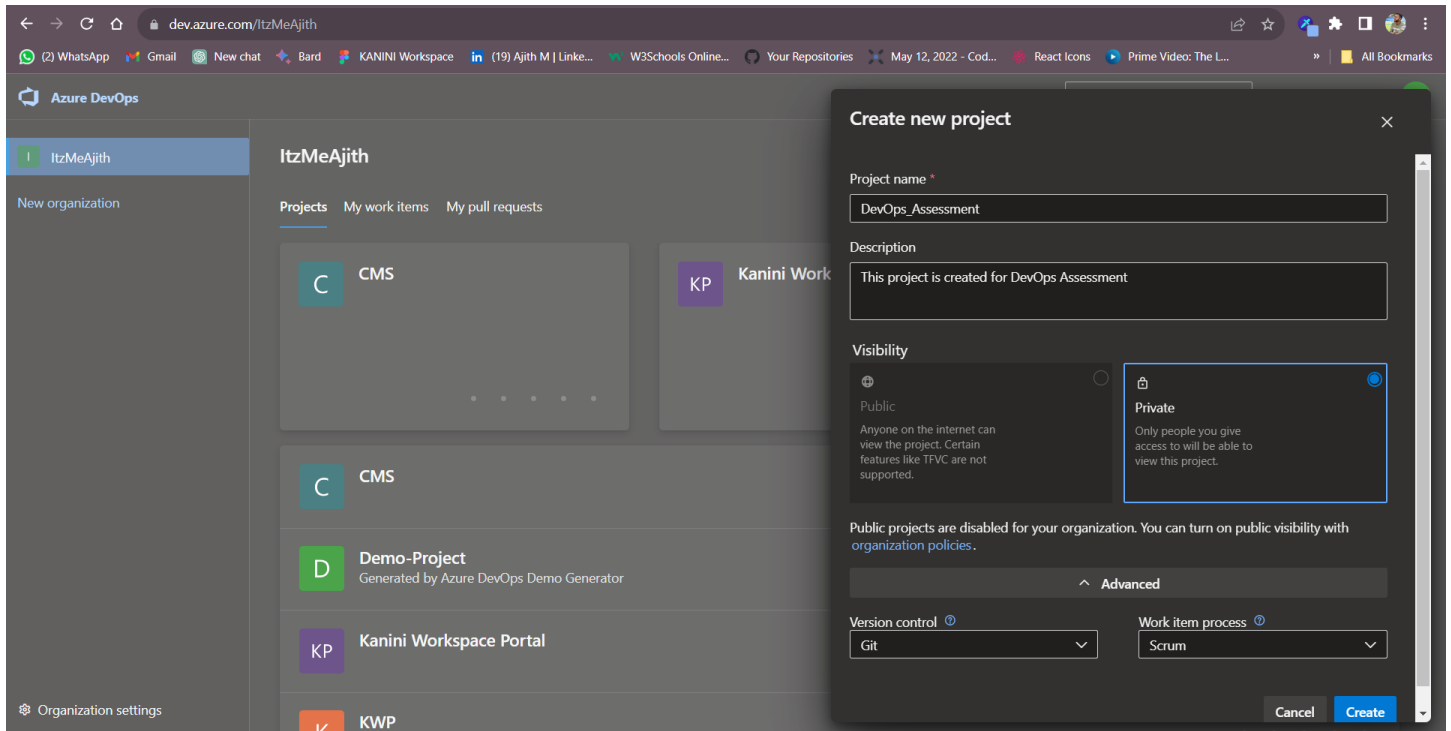


```
ajith@ItzMe: /mnt/e/Internsh X + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ ls
README.md
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab6
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab6
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab6$ touch data.yaml
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab6$ ls
data.yaml
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab6$ code .
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab6$ |
```



```
! data.yaml X
! data.yaml > { } organization > [ ] departments > { } 1 > [ ] employees > 2
1 organization:
2   name: Acme Corporation
3   departments:
4     - Engineering:
5       employees:
6         - Alice Smith
7         - Bob Jones
8         - Carol Williams
9     - Sales:
10      employees:
11        - David Miller
12        - Emily Brown
13        - Frank Johnson
14
```

## Lab 7: Create Classic Azure CI Pipeline for Angular Application :



dev.azure.com/ItzMeAjith/DevOps\_Assessment/\_apps/hub/ms.vss-ciworkflow.build-ci-hub?\_a=create-build-definition&id=0&repository=Ajith-Kanini%2FDevOps-Assessment&bran...

Azure DevOps ItzMeAjith / DevOps\_Assessment / Pipelines

CI pipeline to build an Angular appli...

Tasks Variables Triggers Options History Save & queue Discard Summary Queue

Pipeline Build pipeline

Get sources Ajith-Kanini/DevOps-Assessment angular

Install Dependencies. Run on agent

npm install npm

Run Unit Tests npm

Task version 1.\*

Display name \* npm install

Command \* install

Working folder that contains package.json Lab7/angularProject

Custom registries and authentication

Advanced Control Options Output Variables

dev.azure.com/ItzMeAjith/DevOps\_Assessment/\_apps/hub/ms.vss-ciworkflow.build-ci-hub?\_a=create-build-definition&id=0&repository=Ajith-Kanini%2FDevOps-Assessment&bran...

Azure DevOps ItzMeAjith / DevOps\_Assessment / Pipelines

CI pipeline to build an Angular appli...

Tasks Variables Triggers Options History Save & queue Discard Summary Queue

Pipeline

Repos

Files angular

Commits

Pushes

Branches

Tags

Pull requests

Advanced Security

Display name \* Run Unit Tests

Command \* custom

Working folder that contains package.json Lab7/angularProject

Command and arguments \* ng test --single-run=true

Custom registries and authentication

Control Options

Output Variables

Product settings

https://dev.azure.com/ItzMeAjith/\_git/DevOps\_Assessment

dev.azure.com/ItzMeAjith/DevOps\_Assessment/\_build/results?buildId=47&view=logs&\_id=275f1d19-1bd8-5591-b06b-07d489ea915a&\_t=40b1ee41-44d6-5bba-aa04-4b76a5c732e5

Azure DevOps ItzMeAjith / DevOps\_Assessment / Pipelines / CI pipeline to build an Angu... / 47

Jobs in run #47  
CI pipeline to build an Angular application.

Jobs	Duration
Install Dependencies.	1m 43s
Initialize job	<1s
Checkout Ajith-Kanini/...	8s
npm install	26s
Command Line Script	1m 7s
Post-job: Checkout Ajith-...	

Command Line Script

```
1 Starting: Command Line Script
2 -----
3 Task : Command line
4 Description : Run a command line script using Bash on Linux and macOS and cmd.exe on Windows
5 Version : 2.229.0
6 Author : Microsoft Corporation
7 Help : https://docs.microsoft.com/azure/devops/pipelines/tasks/utility/command-line
8 -----
9 Generating script.
10 Script contents: shell
11 ng test
12 ----- Starting Command Output -----
13 "C:\WINDOWS\system32\cmd.exe" /D /E:ON /V:OFF /S /C "CALL "E:\Internship\agent\_work\958a60b9-39d0-4fd1-8fde-dd7ae675ae1e.cmd""
14 - Generating browser application bundles (phase: setup)...
15 ✓ Browser application bundle generation complete.
16 20 10 2023 13:41:09.523:WARN [karma]: No captured browser, open http://localhost:9876/
17 20 10 2023 13:41:09.545:INFO [karma-server]: Karma v6.4.2 server started at http://localhost:9876/
18 20 10 2023 13:41:09.545:INFO [launcher]: Launching browsers Chrome with concurrency unlimited
19 20 10 2023 13:41:09.557:INFO [launcher]: Starting browser Chrome
20 20 10 2023 13:41:10.372:INFO [Chrome 118.0.0.0 (Windows 10)]: Connected on socket yp_o52rJ6P_MCoYxAAAB with id 90320673
21 Chrome 118.0.0.0 (Windows 10): Executed 0 of 3 SUCCESS (0 secs / 0 secs)
22 Chrome 118.0.0.0 (Windows 10): Executed 1 of 3 SUCCESS (0 secs / 0.156 secs)
23 Chrome 118.0.0.0 (Windows 10): Executed 2 of 3 SUCCESS (0 secs / 0.173 secs)
24 Chrome 118.0.0.0 (Windows 10): Executed 3 of 3 SUCCESS (0 secs / 0.189 secs)
25 Chrome 118.0.0.0 (Windows 10): Executed 3 of 3 SUCCESS (0.201 secs / 0.189 secs)
26 TOTAL: 3 SUCCESS
```

dev.azure.com/ItzMeAjith/DevOps\_Assessment/\_build/results?buildId=53&view=logs&\_id=275f1d19-1bd8-5591-b06b-07d489ea915a&\_t=d9da7763-9240-5687-a21e-dab36b0f8a46

Azure DevOps ItzMeAjith / DevOps\_Assessment / Pipelines / CI pipeline to build an Angu... / 53

Jobs in run #53  
CI pipeline to build an Angular application.


Jobs	Duration
Install Dependencies.	2m 26s
Initialize job	<1s
Checkout Ajith-Kanini/...	10s
npm install	27s
build	53s
npm custom	53s
Post-job: Checkout Aji...	<1s
Finalize Job	<1s

npm custom

```
21 ; node version = v18.12.2
22 ; npm local prefix = E:\Internship\agent\_work\12\s\Lab7\angularProject
23 ; npm version = 9.8.1
24 ; cwd = E:\Internship\agent\_work\12\s\Lab7\angularProject
25 ; HOME = C:\Users\Redbeast
26 ; Run "npm config ls -l" to show all defaults.
27 C:\WINDOWS\system32\cmd.exe /D /S /C ""C:\Program Files\nodejs\npm.cmd" test"
28 - Generating browser application bundles (phase: setup)...
29 ✓ Browser application bundle generation complete.
30 ✓ Browser application bundle generation complete.
31
32 > angular-project@0.0.0 test
33 ✓ Browser application bundle generation complete.
34 > ng test --watch=false
35
36 20 10 2023 16:15:46.786:INFO [karma-server]: Karma v6.4.2 server started at http://localhost:9876/
37 20 10 2023 16:15:46.790:INFO [launcher]: Launching browsers Chrome with concurrency unlimited
38 20 10 2023 16:15:46.794:INFO [launcher]: Starting browser Chrome
39 20 10 2023 16:15:47.645:INFO [Chrome 118.0.0.0 (Windows 10)]: Connected on socket 0D0DMKwAf1b0KkjJAAAB with id 58819402
40 Chrome 118.0.0.0 (Windows 10): Executed 0 of 3 SUCCESS (0 secs / 0 secs)
41 Chrome 118.0.0.0 (Windows 10): Executed 1 of 3 SUCCESS (0 secs / 0.133 secs)
42 Chrome 118.0.0.0 (Windows 10): Executed 2 of 3 SUCCESS (0 secs / 0.156 secs)
43 Chrome 118.0.0.0 (Windows 10): Executed 3 of 3 SUCCESS (0 secs / 0.173 secs)
44 Chrome 118.0.0.0 (Windows 10): Executed 3 of 3 SUCCESS (0.19 secs / 0.173 secs)
45 TOTAL: 3 SUCCESS
46 Finishing: npm custom
```

Karma v 6.4.2 - connected; test: complete; DEBUG

Chrome 118.0.0.0 (Windows 10) is idle

 Jasmine 4.6.0 Options

3 specs, 0 failures, randomized with seed 47457 finished in 0.223s

AppComponent

- should create the app
- should have as title 'angularProject'
- should render title

32°C  
Haze


Search

ENG IN

1:42 PM  
10/20/2023

Karma v 6.4.2 - connected; test: complete; DEBUG

Chrome 118.0.0.0 (Windows 10) is idle

 Jasmine 4.6.0 Options

3 specs, 0 failures, randomized with seed 16595 finished in 0.102s

AppComponent

- should create the app
- should have as title 'angularProject'
- should render title

32°C  
Haze

Search

ENG IN

1:42 PM  
10/20/2023





dev.azure.com/ltzMeAjith/DevOps\_Assessment/\_build/results?buildId=64&view=logs&j=12f1170f-54f2-53f3-20dd-22fc7dff55f9&t=5ca77c8-9b10-50ef-b5c7-ca89c63e1c86

Azure DevOps ltzMeAjith / DevOps\_Assessment / Pipelines / DevOps\_Assessment / 20231023.3

DevOps\_Assessment

Overview  
Boards  
Repos  
Pipelines  
Pipelines  
Environments  
Releases  
Library  
Task groups  
Deployment groups  
Test Plans  
Artifacts  
Project settings

< Jobs in run #20231023.3  
DevOps\_Assessment

Jobs

Job	Duration
Initialize job	<1s
Checkout DevOps Asse...	6s
Install Node.js	3s
Publish Artifact	<1s
npm install and build	17s
npm test	21s
Post-job: Checkout De...	<1s
Finalize Job	<1s
Report build status	<1s

npm test

Description : Run a command line script using Bash on Linux and macOS and cmd.exe on Windows  
Version : 2.229.0  
Author : Microsoft Corporation  
Help : https://docs.microsoft.com/azure/devops/pipelines/tasks/utility/command-line

Generating script.

Starting Command Output

```
"C:\WINDOWS\system32\cmd.exe" /D /E:ON /V:OFF /S /C "CALL "E:\Internship\agent_work\_temp\edffb896-4da8-43b7-9738-41693b764e34.cmd""
npm WARN saveError ENOENT: no such file or directory, open 'E:\Internship\agent_work\17\s\package.json'
npm WARN notsup Unsupported engine for readable-stream@4.4.2: wanted: {"node": "12.22.0 || ^14.17.0 || >=16.0.0"} (current: {"node": "
npm WARN notsup Not compatible with your version of node/npm: readable-stream@4.4.2
npm WARN enoent ENOENT: no such file or directory, open 'E:\Internship\agent_work\17\s\package.json'
npm WARN s No description
npm WARN s No repository field.
npm WARN s No README data
npm WARN s No license field.
+ test@3.3.0
added 70 packages from 21 contributors and audited 70 packages in 18.089s
53 packages are looking for funding
  run "npm fund" for details
found 0 vulnerabilities
Finishing: npm test
```

## Lab 9: Create CI Pipeline for .NET Core Application with MS Unit Test

dev.azure.com/ltzMeAjith/DevOps\_Assessment/\_build/results?buildId=66&view=results

Azure DevOps ltzMeAjith / DevOps\_Assessment / Pipelines / DevOps\_Assessment-ASP.N... / 20231023.2

DevOps\_Assessment

Overview  
Boards  
Repos  
Pipelines  
Pipelines  
Environments  
Releases  
Library  
Task groups  
Deployment groups  
Test Plans  
Artifacts  
Project settings

#20231023.2 • api  
DevOps\_Assessment-ASP.NET Core-CI

Run new

This run is being retained as one of 3 recent runs by newapi (Branch). View retention leases

Summary Code Coverage

Manually run by AM Ajith M View 2 changes

Repository and version	Time started and elapsed	Related	Tests and coverage
DevOps_Assessment newapi f8ebe868	Today at 21:19 48s	0 work items 1 published; 1 consumed	Get started

Warnings 1

Project file(s) matching the specified pattern were not found.  
Test

Jobs

Name	Status	Duration
------	--------	----------

Show desktop

dev.azure.com/ItzMeAjith/DevOps\_Assessment/\_build/results?buildId=66&view=logs&j=275f1d19-1bd8-5591-b06b-07d489ea915a

Azure DevOps ItzMeAjith / DevOps\_Assessment / Pipelines / DevOps\_Assessment-ASP.N... / 20231023.2

DevOps\_Assessment

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Project settings

Jobs in run #20231023.2  
DevOps\_Assessment-ASP.NET Core-CI

Jobs

Agent job 1	40s
Initialize job	10s
Checkout DevOps Asse...	4s
Restore	8s
Build	9s
Test	<1s
Publish	3s
Publish Artifact	1s
Post-job: Checkout De...	<1s
Finalize Job	<1s
Report build status	<1s

Agent job 1

```
1 Pool: Default
2 Agent: Ajithagent
3 Started: Today at 21:19
4 Duration: 40s
5
6 Job preparation parameters
7 3 queue time variables used
8 1 artifact produced
```

dev.azure.com/ItzMeAjith/DevOps\_Assessment/\_build/results?buildId=66&view=logs&j=275f1d19-1bd8-5591-b06b-07d489ea915a&t=05e1178d-ace1-5303-4b1c-37d45a041dd1

Azure DevOps ItzMeAjith / DevOps\_Assessment / Pipelines / DevOps\_Assessment-ASP.N... / 20231023.2

DevOps\_Assessment

Overview

Boards

Repos

Pipelines

Pipelines

Environments

Releases

Library

Task groups

Deployment groups

Test Plans

Artifacts

Project settings

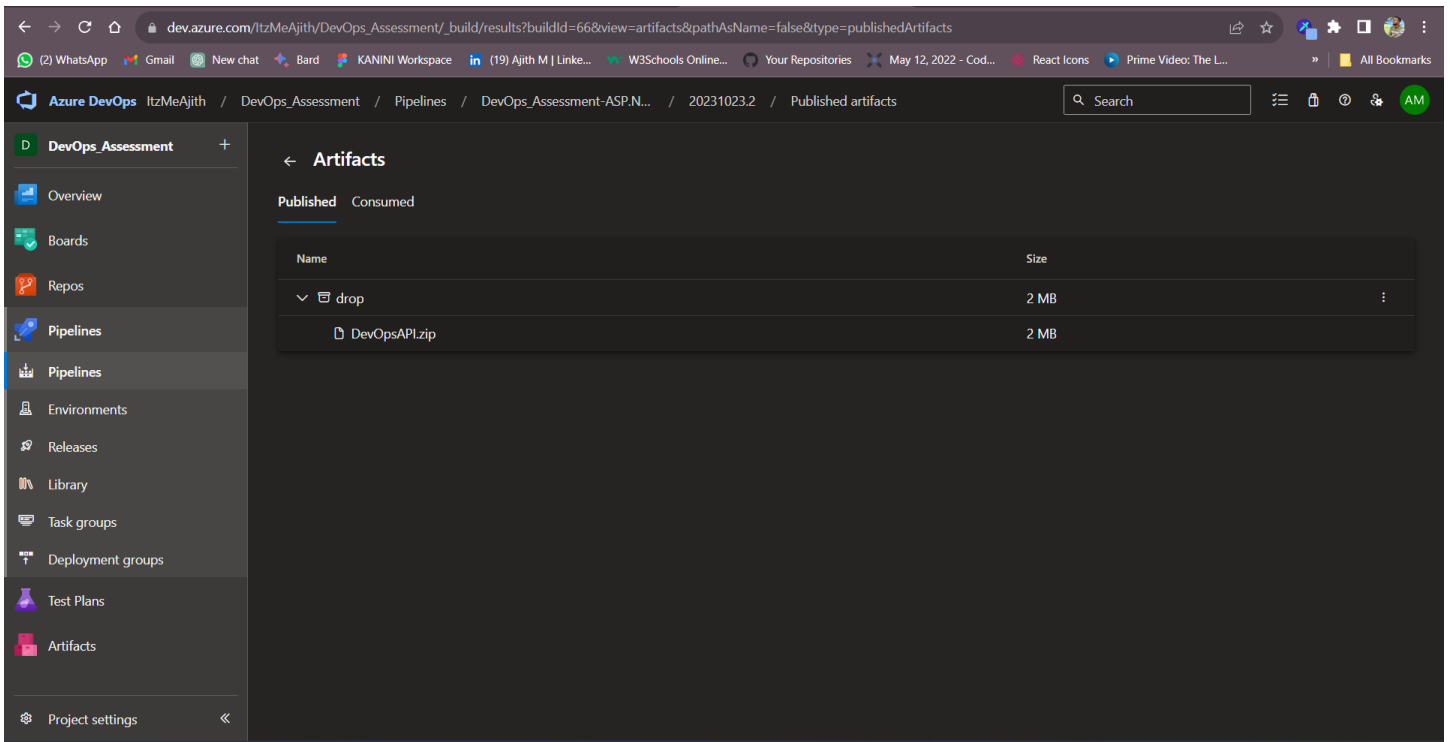
Jobs in run #20231023.2  
DevOps\_Assessment-ASP.NET Core-CI

Jobs

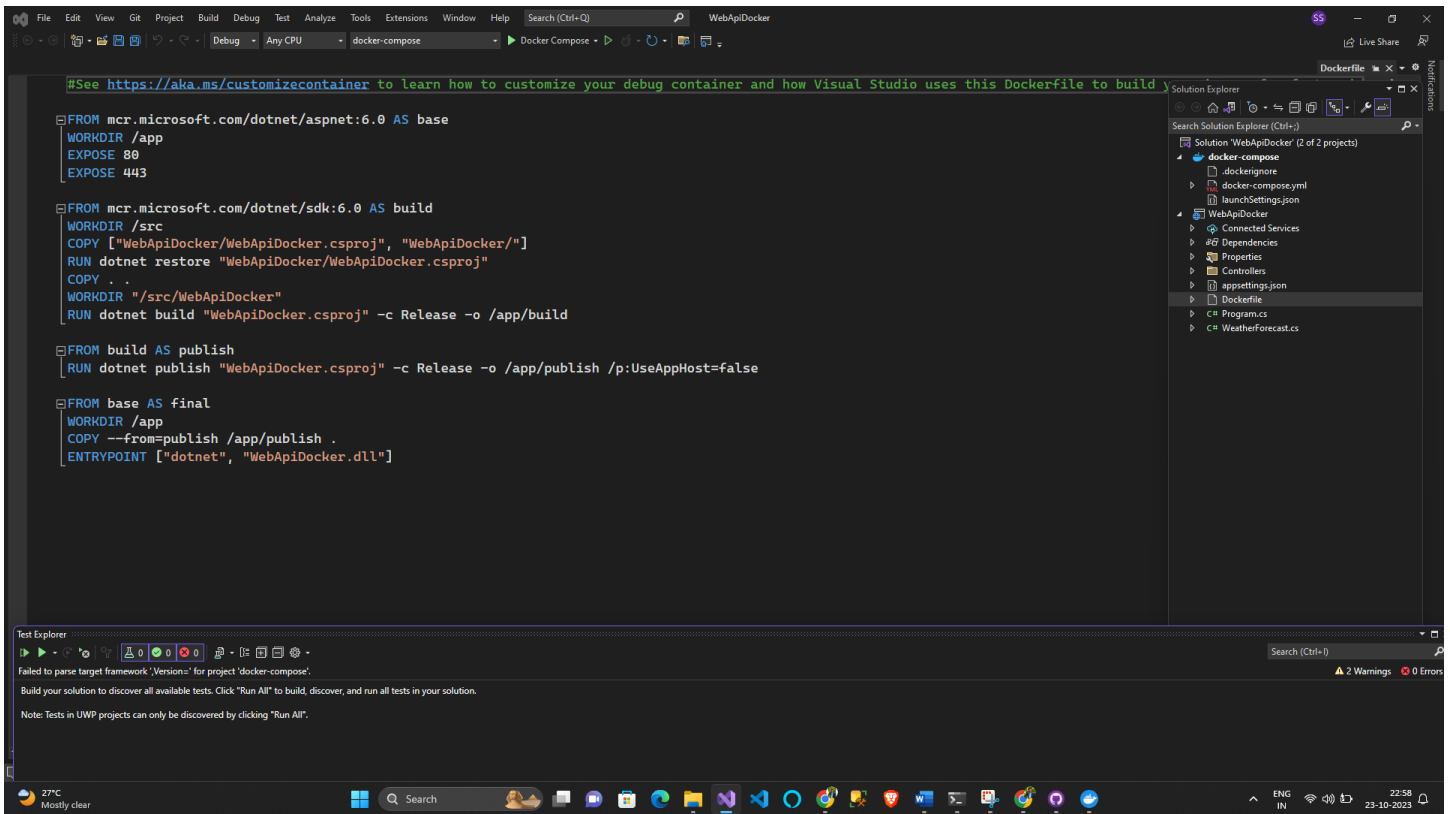
Agent job 1	40s
Initialize job	10s
Checkout DevOps Asse...	4s
Restore	8s
Build	9s
Test	<1s
Publish	3s
Publish Artifact	1s
Post-job: Checkout De...	<1s
Finalize Job	<1s
Report build status	<1s

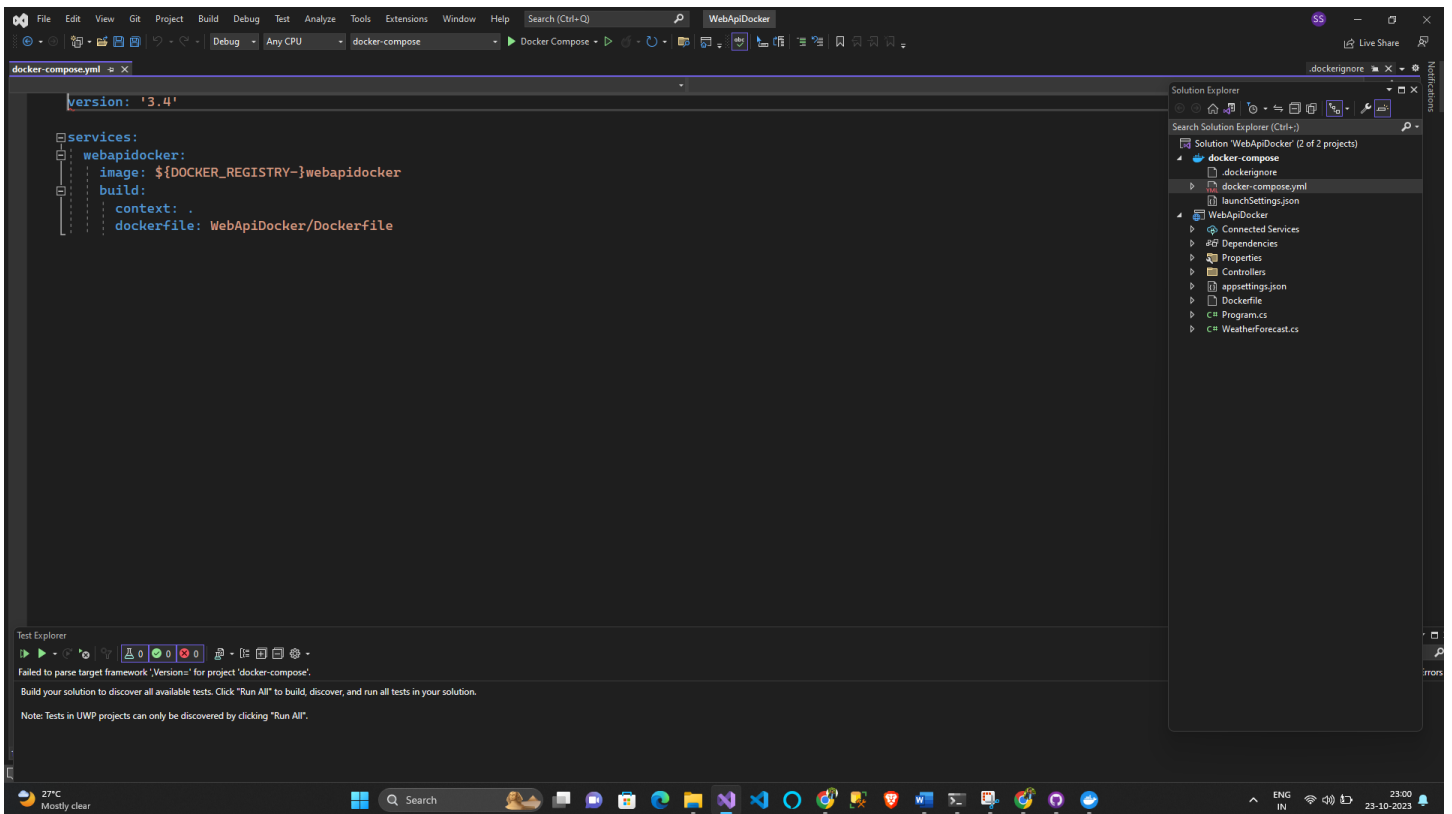
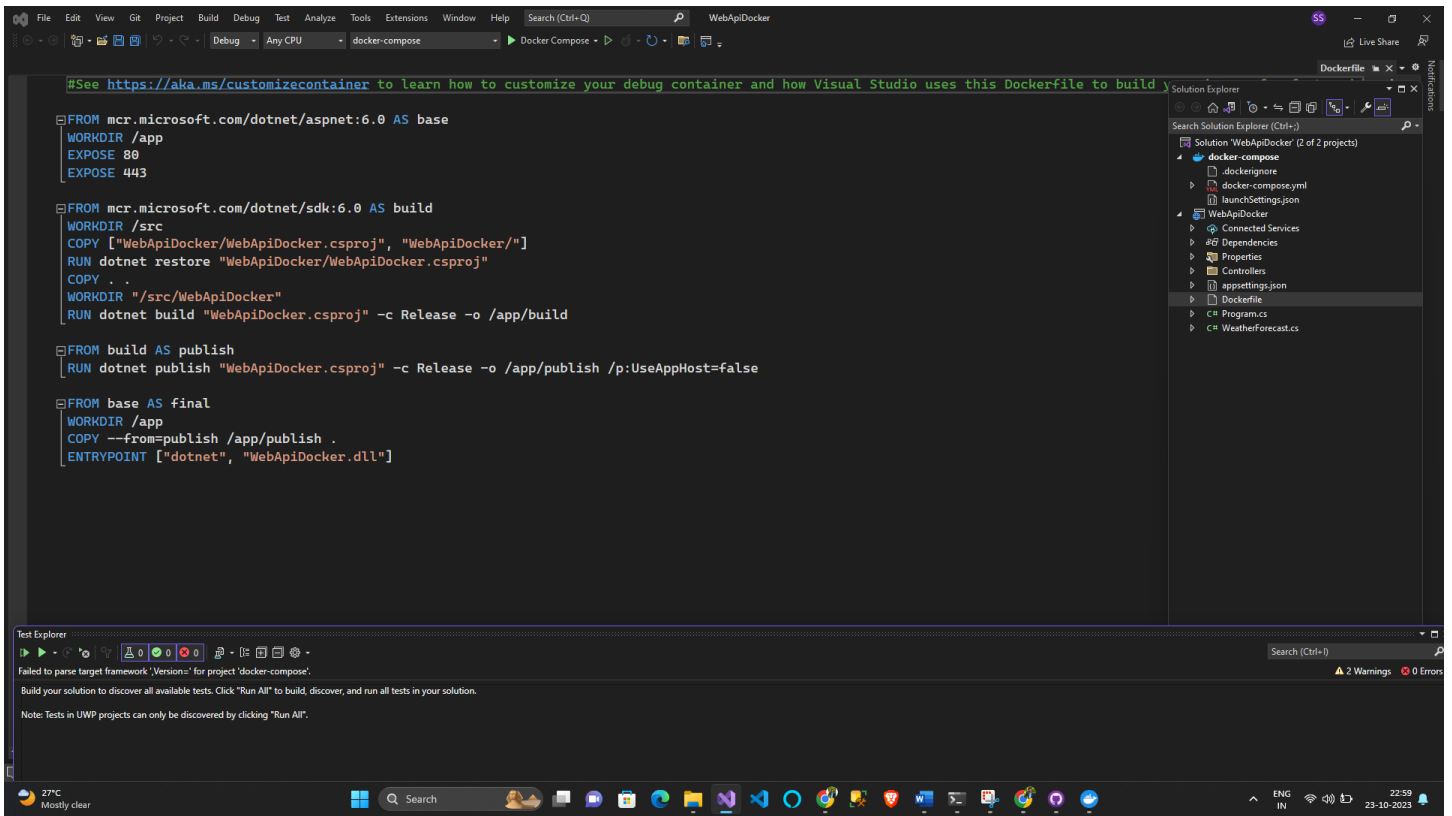
Test

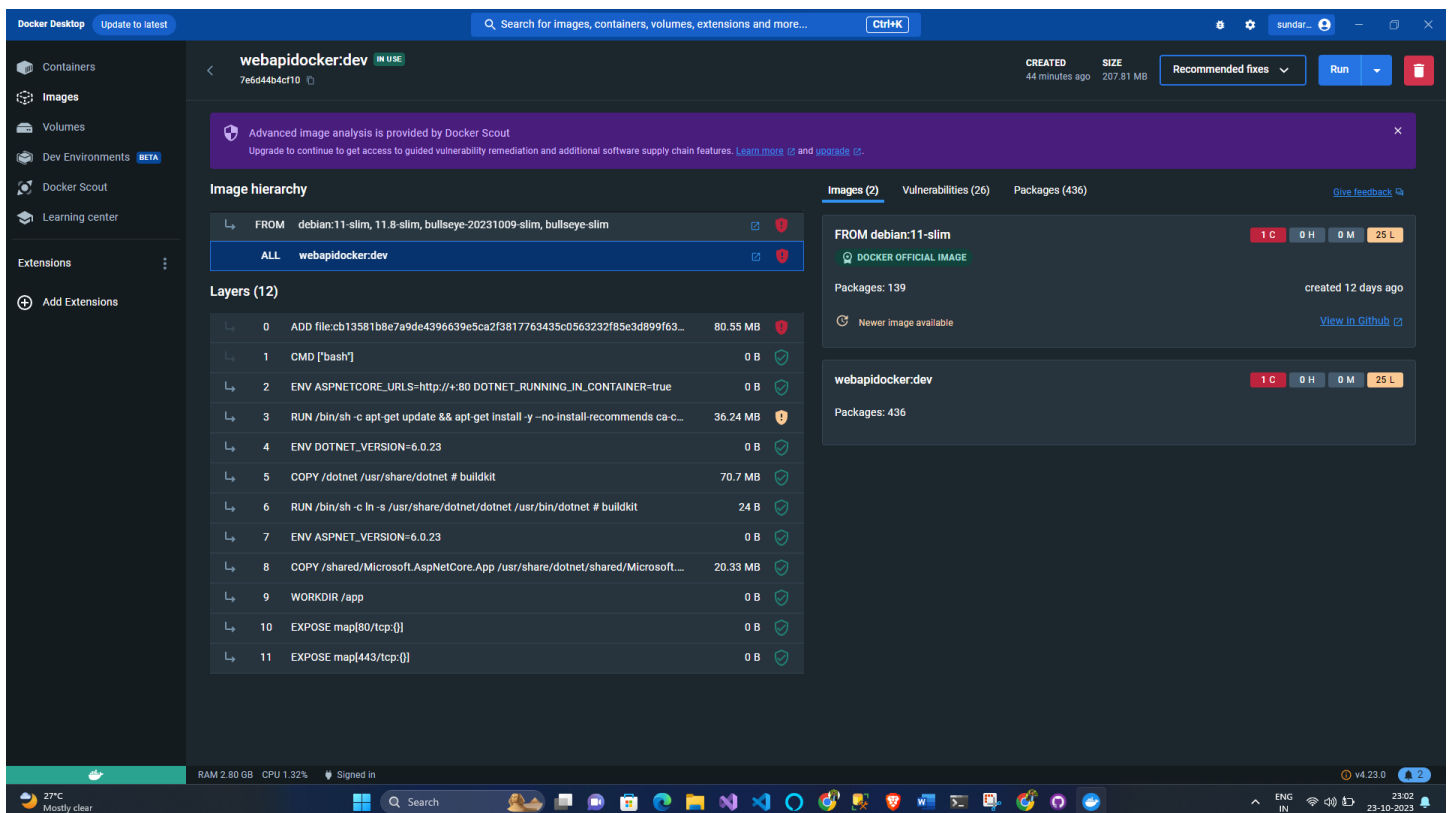
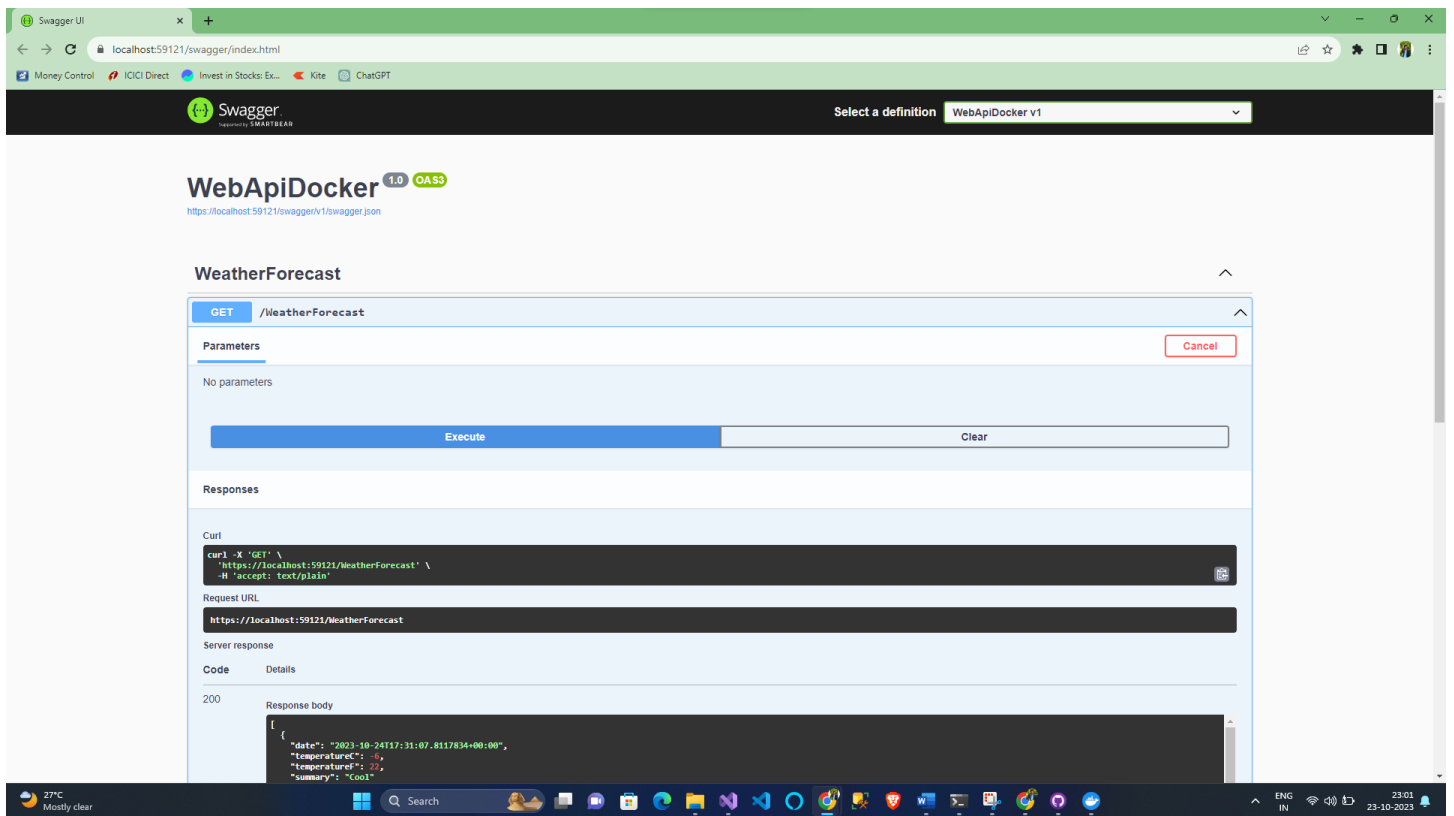
```
1 Starting: Test
2 -----
3 Task      : .NET Core
4 Description : Build, test, package, or publish a dotnet application, or run a custom dotnet command
5 Version    : 2.221.0
6 Author     : Microsoft Corporation
7 Help       : https://docs.microsoft.com/azure/devops/pipelines/tasks/build/dotnet-core-cli
8 -----
9 C:\Windows\system32\chcp.com 65001
10 Active code page: 65001
11 Info: .NET Core SDK/runtime 2.2 and 3.0 are now End of Life(EOL) and have been removed from all hosted agents. If you're using these SD
12 ##[warning]Project file(s) matching the specified pattern were not found.
13 Info: Azure Pipelines hosted agents have been updated and now contain .Net 5.x SDK/Runtime along with the older .Net Core version which
14 Finishing: Test
```



## Lab 10: Creating a Docker Image for a .NET Core Web API and Running it in Rancher Desktop







Rancher Desktop

File Edit View Help

RANCHER DESKTOP

General

Port Forwarding

Images

Troubleshooting

Diagnostics

Extensions

Images

Delete1 selected

All imagesFilter

Image	Tag	Image ID	Size
<input type="checkbox"/> docker/welcome-to-docker	latest	912b66cd46e	13.4MB
<input type="checkbox"/> foodportaldevops	dev	5d745f6ff840	208MB
<input type="checkbox"/> mcr.microsoft.com/dotnet/aspnet	<none>	559a4d20c10e	208MB
<input type="checkbox"/> mcr.microsoft.com/dotnet/aspnet	6.0	0fa00441382d	208MB
<input checked="" type="checkbox"/> webapidocker	dev	7e6d44b4cf10	208MB

27°C  
Mostly clear

ENG  
IN

23:03  
23-10-2023