

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 :

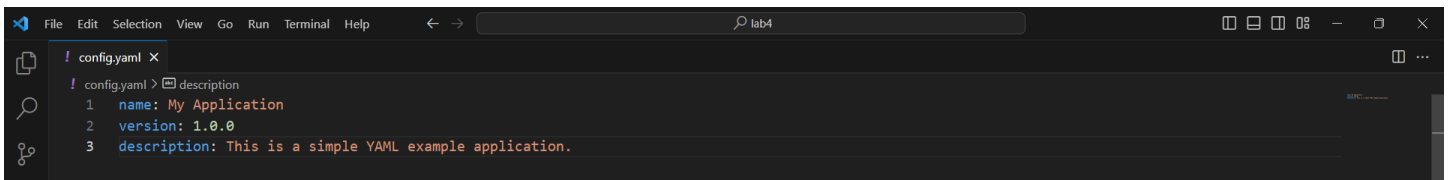
```
ajith@ItzMe: /mnt/e/Internsh x + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab1$ cd ..
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab2
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab2
ajith@ItzMe: /mnt/e/Internship/DevOps 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 :

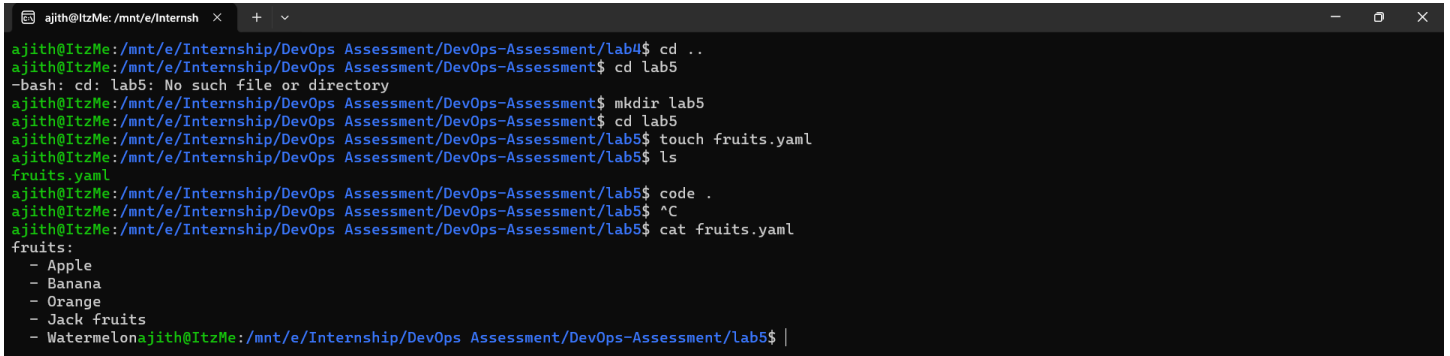
```
ajith@ItzMe: /mnt/e/Internsh x + v
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab3$ cd ..
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab4
ajith@ItzMe: /mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab4
ajith@ItzMe: /mnt/e/Internship/DevOps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



A screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The search bar at the top right contains the text 'lab4'. The file explorer on the left shows a file named 'config.yaml'. The main editor area displays the content of 'config.yaml' with the following text:

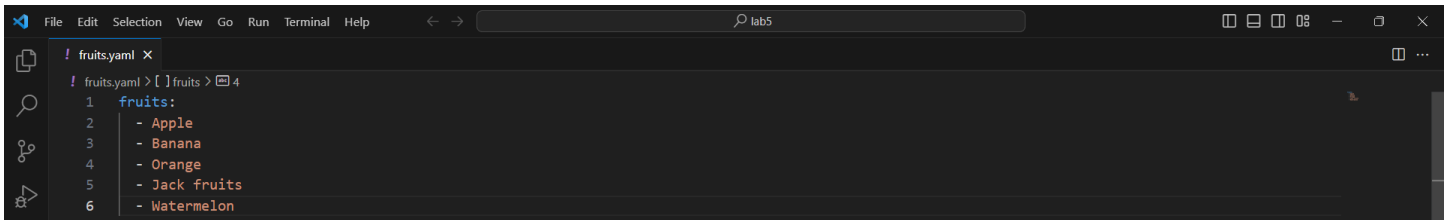
```
! config.yaml X
! config.yaml > description
1 name: My Application
2 version: 1.0.0
3 description: This is a simple YAML example application.
```

Lab 5: Working with Lists in YAML :



A screenshot of a terminal window with the title 'ajith@ItzMe: /mnt/e/Internsh'. The terminal shows the following commands and output:

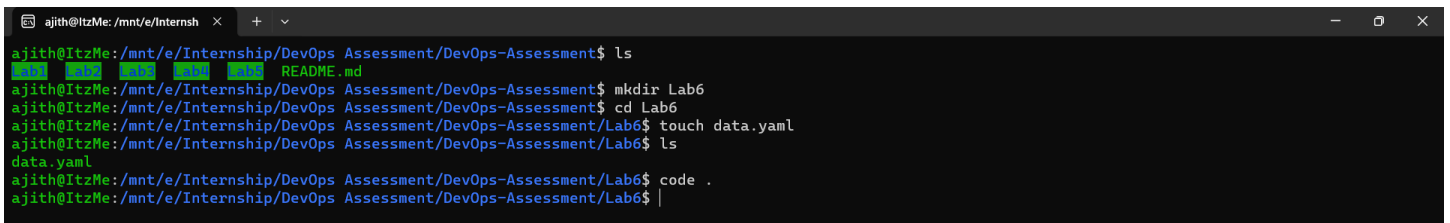
```
ajith@ItzMe:/mnt/e/Internship/DevOps Assessment/DevOps-Assessment/lab4$ cd ..
ajith@ItzMe:/mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd lab5
-bash: cd: lab5: No such file or directory
ajith@ItzMe:/mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir lab5
ajith@ItzMe:/mnt/e/Internship/DevOps 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$ |
```



A screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The search bar at the top right contains the text 'lab5'. The file explorer on the left shows a file named 'fruits.yaml'. The main editor area displays the content of 'fruits.yaml' with the following text:

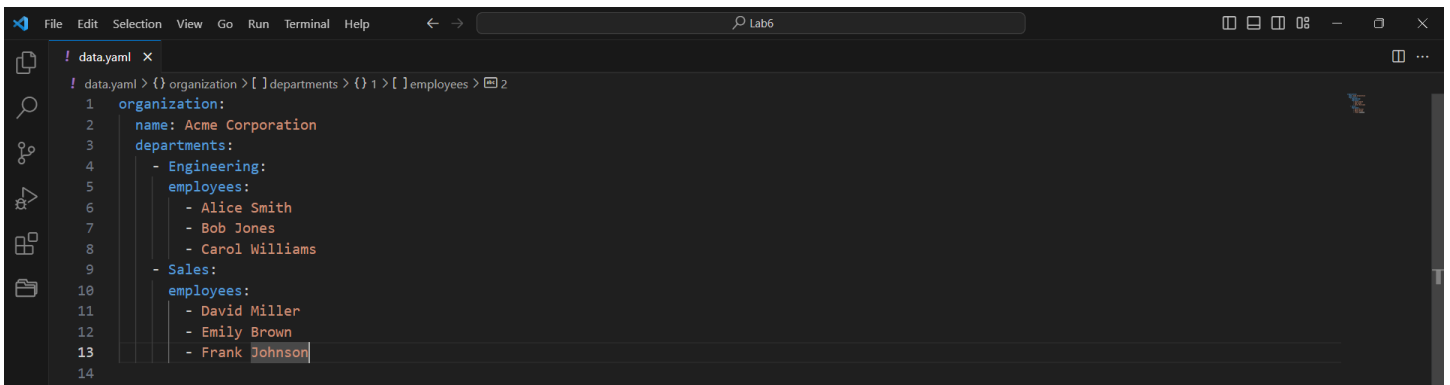
```
! fruits.yaml X
! fruits.yaml > [ ] fruits > 4
1 fruits:
2   - Apple
3   - Banana
4   - Orange
5   - Jack fruits
6   - Watermelon
```

Lab 6: Nested Structures in YAML :



A screenshot of a terminal window with the title 'ajith@ItzMe: /mnt/e/Internsh'. The terminal shows the following commands and output:

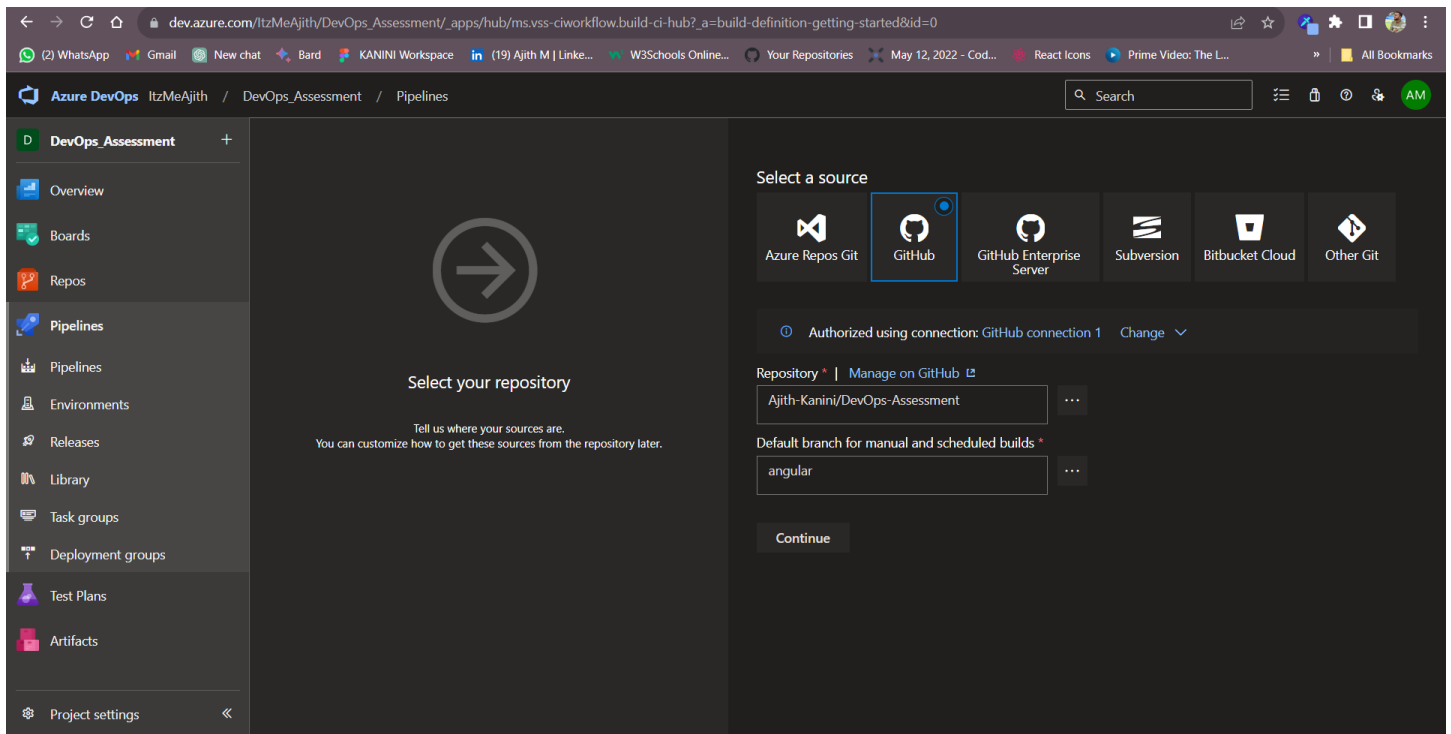
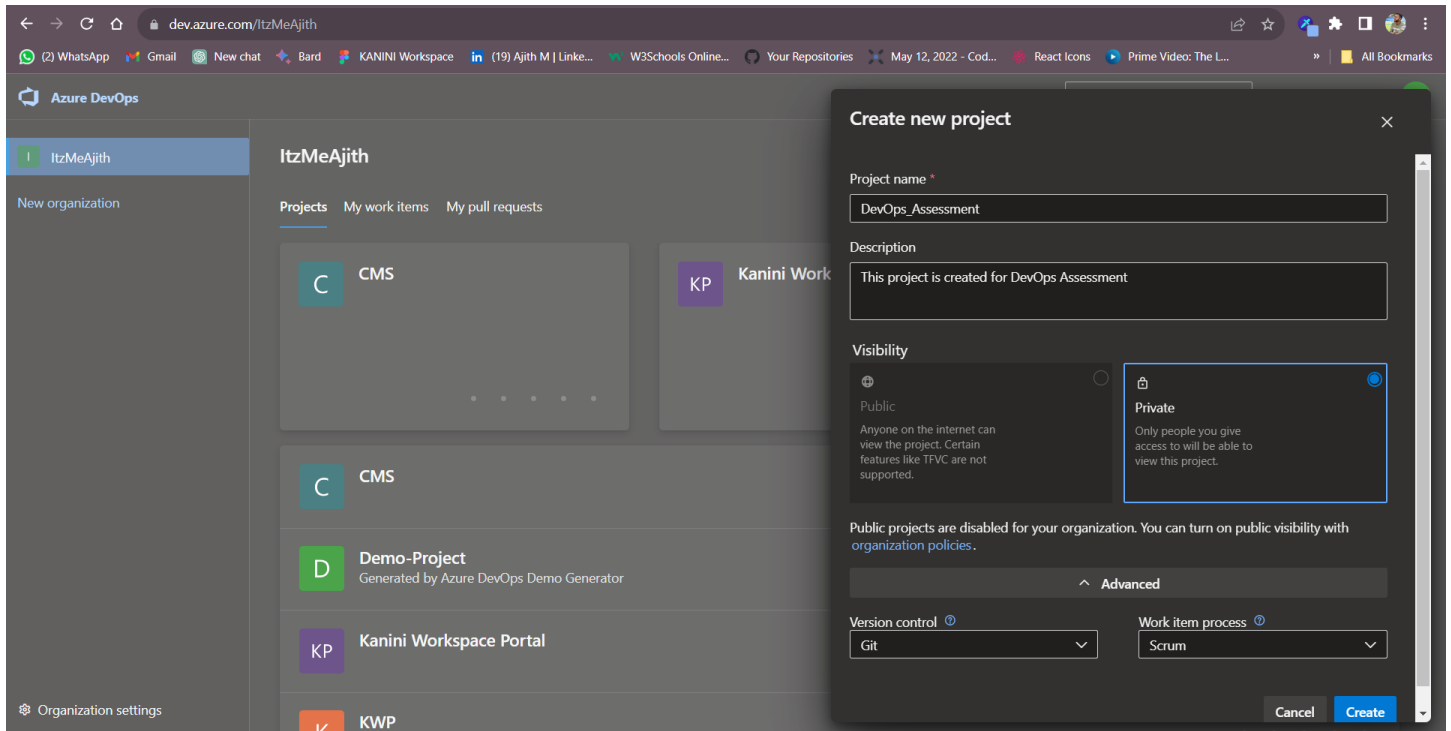
```
ajith@ItzMe:/mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ ls
README.md
ajith@ItzMe:/mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ mkdir Lab6
ajith@ItzMe:/mnt/e/Internship/DevOps Assessment/DevOps-Assessment$ cd Lab6
ajith@ItzMe:/mnt/e/Internship/DevOps Assessment/DevOps-Assessment/Lab6$ 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$ |
```



A screenshot of the Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The search bar at the top right contains the text 'Lab6'. The file explorer on the left shows a file named 'data.yaml'. The main editor area displays the content of 'data.yaml' with the following text:

```
! 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

| | |
|------------------------------|--------|
| 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 -----
13 "C:\WINDOWS\system32\cmd.exe" /D /E:ON /V:OFF /S /C "CALL "E:\Internship\agent\_work\temp\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

| | |
|---------------------------|--------|
| 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

Lab 8: Create YAML Azure CI Pipeline for React Application :

The screenshot shows the Azure DevOps web interface for a pipeline named "DevOps_Assessment". The main view is the "Summary" tab for build #20231023.3, which is a merged pull request (PR 17) titled "Set up CI with Azure Pipelines". The build status is "Succeeded".

Summary Details:

- Triggered by:** AM Ajith M (with a "View 17 changes" link)
- Repository and version:** DevOps_Assessment / react @ 81c4a6d9
- Time started and elapsed:** Today at 20:50, 1m 2s
- Related:** 0 work items, 0 artifacts
- Tests and coverage:** Get started

Warnings: 1 warning is displayed: "Directory 'E:\Internship\agent_work\17\17' is empty. Nothing will be added to build artifact 'ReactTest'." with a "Publish Artifact" link.

Jobs: A table showing the build jobs:

| Name | Status | Duration |
|--------------------------------------|-----------|----------|
| Initialize job | Succeeded | <1s |
| Checkout DevOps_Assessment | Succeeded | 6s |
| Install Node.js | Succeeded | 3s |
| Publish Artifact | Succeeded | <1s |
| npm install and build | Succeeded | 17s |
| npm test | Succeeded | 21s |
| Post-job: Checkout DevOps_Assessment | Succeeded | <1s |
| Finalize Job | Succeeded | <1s |
| Report build status | Succeeded | <1s |

The screenshot shows the detailed view of a job within the same build #20231023.3. The "Jobs in run #20231023.3" section lists the jobs and their durations:

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

The "Job" details section on the right shows the following information:

- Pool:** Default
- Agent:** Agent1
- Started:** Today at 20:50
- Duration:** 51s
- Job preparation parameters:** (expanded)

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

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#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

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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

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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

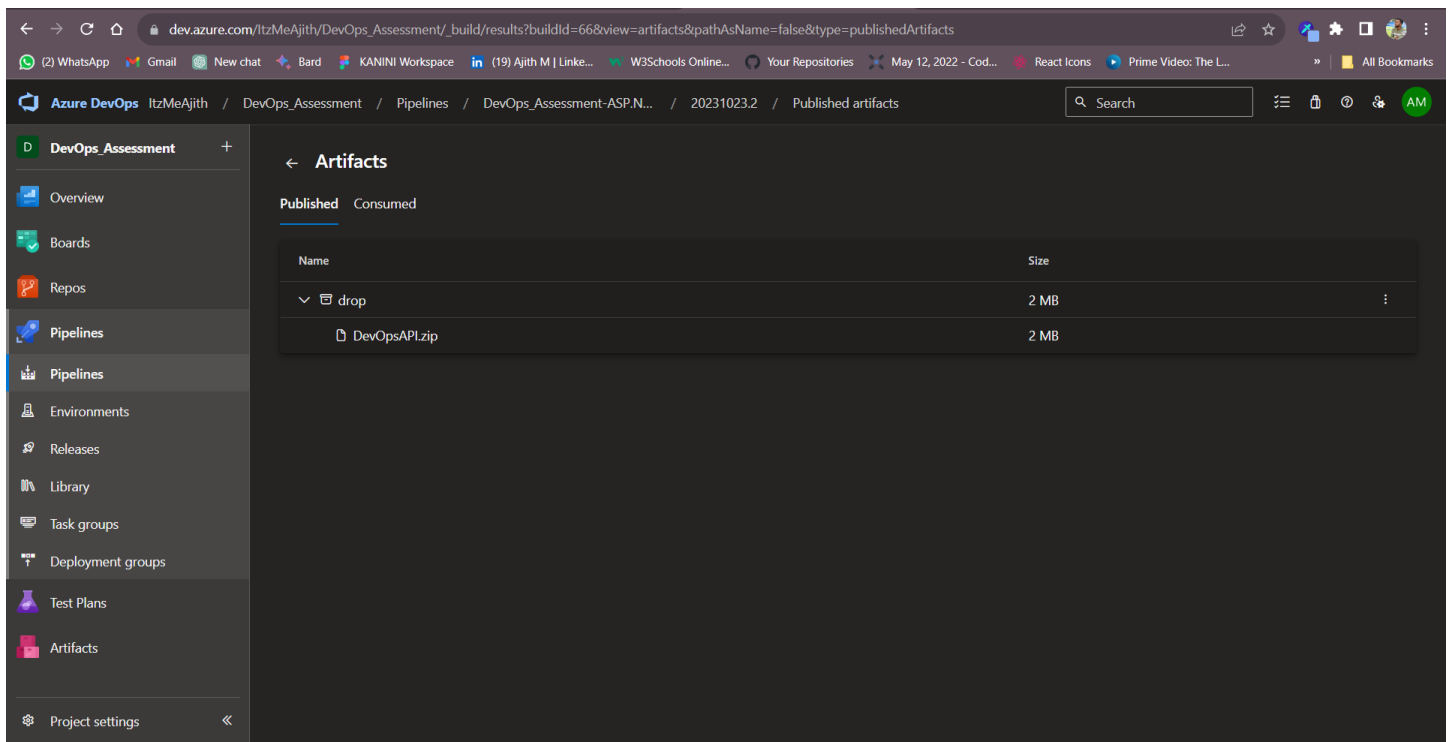
10 Active code page: 65001

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