

# Azure Devops



By:Mostafa Mahmoud Bahgat

LinkedIn:<https://www.linkedin.com/in/mostafamahmoudbahgat>

## Azure Devops

ال Integrated Features بيوفر تساعدك في العمل developing and . deploying software project

# Azure DevOps



Azure Boards



Azure Repos



Azure Pipelines



Azure Test Plans



Azure Artifacts

• Planning and Tracking work Tools لعمل issues وال Code defects	Azure Boards
بيوفر Git repositories or Team Foundation Version Control (TFVC) لعمل source control	Azure Repos
بيوفر continuous support build and release services لـ Applications integration and delivery	Azure Pipelines
بيقدم مجموعة tools لعمل testing Applications	Azure Test Plans
هو package Management بمسمح بمشاركة Maven packages زمي ال npm وال NuGet	Azure Artifacts

هي فقط زي box او حاجه بجمع فيها الشاريغ الخاصه بعضها Azure Organization connect groups of related projects, and help to scale up your enterprise

Microsoft      Mostafa Mahmoud      Sign out



Mostafa Mahmoud      [Edit profile](#)



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[Create new organization](#)

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Visual Studio Dev Essentials

Get everything you need to build and deploy your app on any platform.

[Use your benefits](#)

Organizations Pending Deletion - [Expand](#)

بدخل على ال **Azure Devops** وابدا ب **Create New Organization**

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## Almost done...

Name your Azure DevOps organization \*

dev.azure.com/ AzureDevops2025

We'll host your projects in

Europe

Enter the characters you see

New      Audio

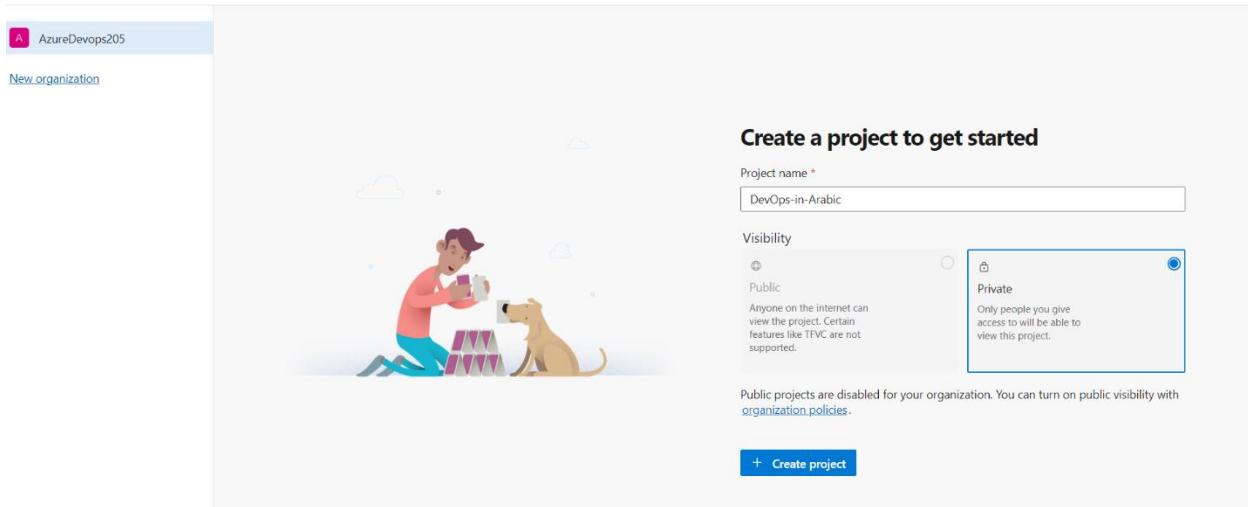


WON3y

Continue

Name و اختر region

--



بعد انشاء ال organization ببدا في انشاء ال project

Azure DevOps AzureDevops205 / DevOps-in-Arabic / Overview / Summary

Search

Private Invite

D DevOps-in-Arabic

DevOps-in-Arabic

Overview

Summary

Dashboards

Wiki

Boards

Repos

Pipelines

Test Plans

Artifacts

Welcome to the project!

No stats are available at this moment  
Setup a service to see project activity.

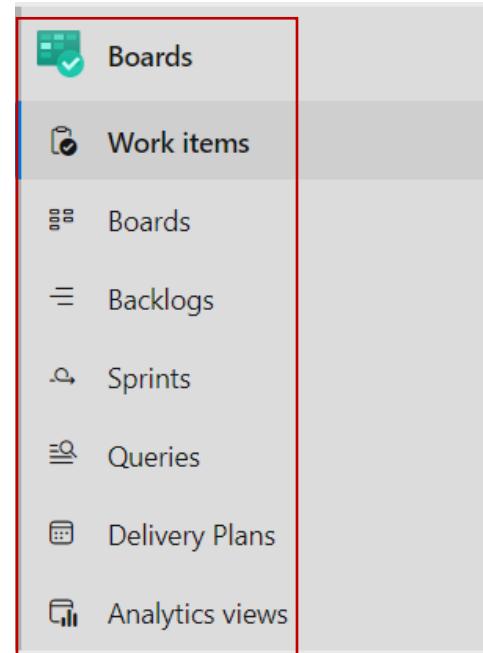
Project stats

Boards Repos Pipelines Test Plans Artifacts

Project settings

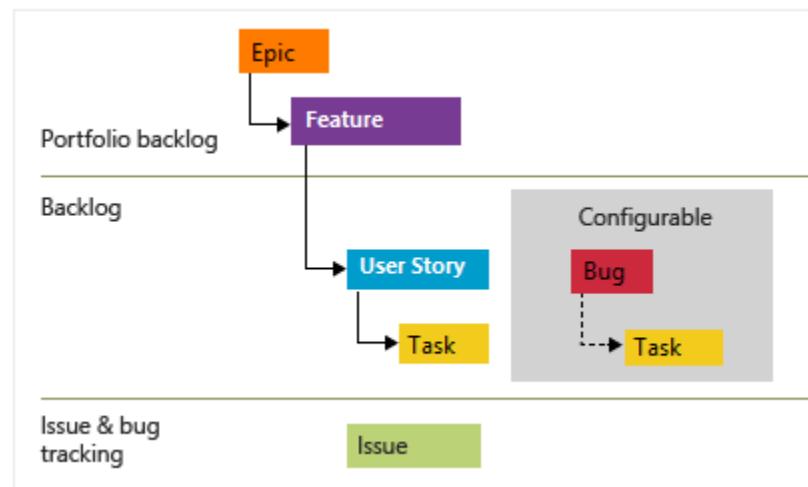
وبكدا بقى عندي اول project في ال Azure devops

هنبدأ بال Azure Boards : يقدم مجموعة من ال Tools لعمل issues وال Code defects وال



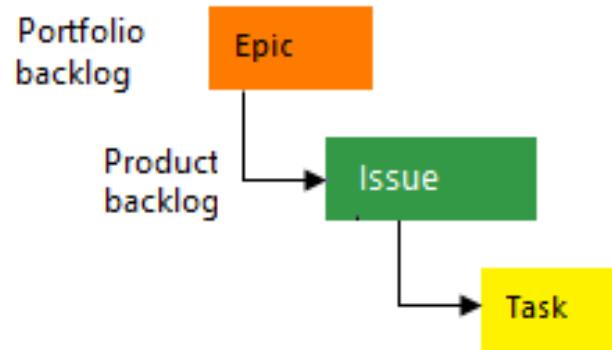
ال Work items : من خلاله بعمل Requirements track وال Features وال bug وال code defects وكمان risk issues وال bug وال code defects وكمان risk issues وكل دا بناء علي نوع ال developing Agile-Basic-scrum-CMMI هما work item

: Agile Process-



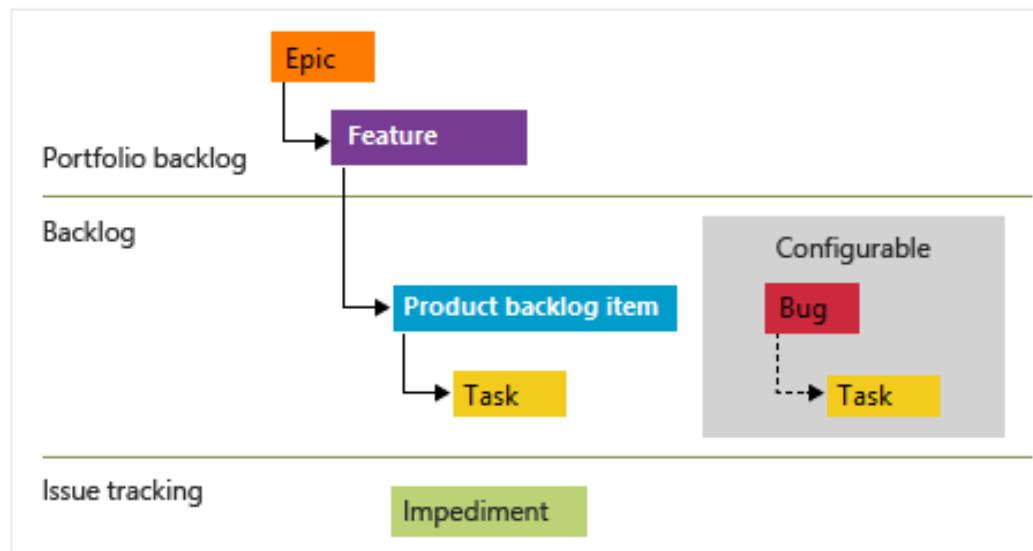
- يستخدم ال work track user story and tasks
- يستخدم ال code defects track Bugs
- يستخدم ال large scenarios group works features وال Epics

## : Basic Process-



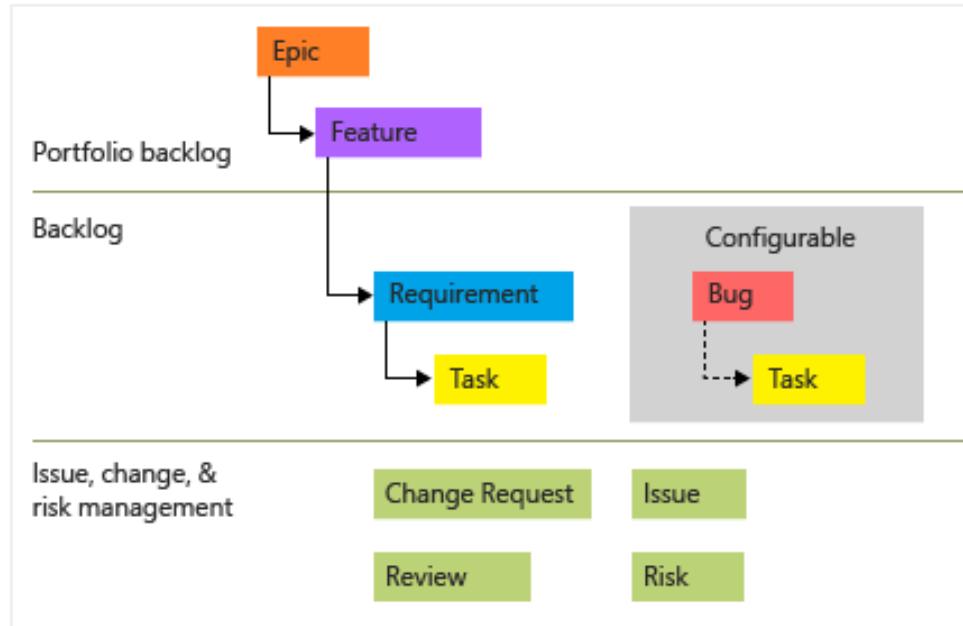
- يستخدم ال work track عشان اعمل لـ Issues and tasks
- يستخدم ال large scenarios group works في ال features وال Epics

## : scrum Process-



- يستخدم ال work track Product backlog items and tasks
- يستخدم ال code defects track Bugs
- يستخدم ال large scenarios group works في ال features وال Epics

## : CMMI Process-



- يستخدم ال work track Requirements and tasks عشان اعمل لـ
- يستخدم ال work track Bugs عشان اعمل لـ code defects
- يستخدم ال work track Features وال Epics لـ large scenarios

## : Backlogs-2

من خلاها بعمل Project Plan لـ requirement بتعني عن طريق اضافه ال user story او ال work items prioritized list بـ عندي ونقدر نقول انها هندا نعمل tasks user story و feature لـ create

The screenshot shows the Azure DevOps interface for the 'DevOps-in-Arabic' project. On the left, the navigation bar includes 'Overview', 'Boards', 'Backlogs' (selected), 'Sprints', 'Queries', 'Delivery Plans', 'Analytics views', 'Repos', 'Pipelines', 'Test Plans', and 'Project settings'. The main area displays the 'Backlog' tab under 'DevOps-in-Arabic Team'. A central banner says 'Get started with your product backlog' with a 'New Work Item' button. To the right, a 'Planning' panel is open, showing 'Features' and 'Stories' sections, and a 'DevOps-in-Arabic Team Backlog' with three iterations: Iteration 1 (Current), Iteration 2, and Iteration 3.

عشان ابدا اضيف Backlog بروح علي Backlog وبختار ال Backlog ومنها ابدا اضيف ال user story ولا need هي ولا work item

The screenshot shows the 'Backlog' tab for the 'DevOps-in-Arabic Team'. A new work item is being created, with the title 'The First Feature' highlighted. The 'Planning' panel is visible on the right, showing the backlog and iteration details.

هنا بضيف Feature

The screenshot shows the 'Backlog' tab for the 'DevOps-in-Arabic Team'. The newly added 'Feature' titled 'The First Feature' is now listed in the backlog table, which includes columns for Order, Work Item Type, Title, State, Effort, and Bl.

كدا ال feature تم اضافتها وعشان اضيف تحتها ال user story بضغط علي علامه ال plus

هنا بعمل لـ **create** user story و هنا في حاجه اسمها **story point** دي ال الخاصة  
بال كلها user story

وفي حاجه اسمها **Priority** و دي **rating** من حيث الاهمية

كدا ال user story تم اضافتها وعشان اضيف تحتها ال tasks بضغط علي علامة ال plus

هنا بضيف ال task و يوجد فيها :

Priority
1
2
3
4

من حيث الاهمية Task rating لـ Priority

Activity
Deployment
Design
Development
Documentation
Requirements
Testing

ال team هو ال task هيشتغل على ال Activity دى

## Effort (Hours)

Original Estimate

5

Remaining

3

Completed

2

دي ال effort بتاع ال task hours ال بتكون بال task hours دي هتاخد كام ساعه وخلصت منهم كام ساعه  
وفاضل كام ساعه

The screenshot shows the Azure DevOps Backlog view for the 'DevOps-in-Arabic' project. On the left, the navigation bar includes 'Overview', 'Boards', 'Backlogs' (which is selected), 'Work items', 'Sprints', 'Queries', 'Delivery Plans', and 'Analytics views'. The main area displays a table of work items under the 'Backlog' tab. The table has columns for Order, Work Item Type, Title, State, Effort, and Business Value. There are two features listed: 'The First Feature' (ID 1) and 'The Second Feature' (ID 2). Each feature contains multiple user stories and tasks. A yellow arrow points from the text above to the 'Effort' column in the table. To the right of the table, there is a 'Planning' panel titled 'DevOps-in-Arabic Team Backlog' with sections for 'Iteration 1', 'Iteration 2', and 'Iteration 3', each showing planned effort and tasks.

كدا تم اضافه ال Backlogs بتاعتنا مكونه من 2 feature كل feature مكونه من 3 tasks كل task مكونه من user story

### : Sprints -3

هنا بستخدم حاجه اسمها ال iteration عشان ابدأ اعمل work Plan لل Team خلال فترة زمنية معينة.

ف لو عندي مثلا user story 4 بداخلهم ال tasks ممكن اوزع كل tasks على مختلفة وكل iteration ليه فترة معينة يخلص فيها .

The screenshot shows the Azure DevOps Taskboard interface. On the left, there's a sidebar with navigation links like Overview, Boards, Backlogs, Sprints (which is selected), Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Project settings. The main area displays a taskboard with columns for New, Active, Resolved, and Closed tasks. A specific task, "9 The first task in user story N2 F1", is selected and has a context menu open. The menu includes options like Open, Edit title, Move to iteration, Delete, New branch..., and others. The "Move to iteration" option is highlighted, and its submenu shows "Current Iteration 1" (which is also highlighted) and "FUTURE ITERATIONS" (Iteration 2 and Iteration 3). Other tasks visible include "11 The third task in User Story N1" and "5 The first task in user story N1 F1".

هروح على ال sprint واسوف ال user story ال تحتاج اخليها في iteration معينة واعملها move لـ iteration دي

Azure DevOps - DevOps-in-Arabic Team - Boards - Sprints

Taskboard Backlog Capacity Analytics + New Work Item Column Options

Iteration 1 Current Person: All Set dates

Iteration 1 (Current), Iteration 2 (Future), Iteration 3 (Future), New Sprint

هنا بعمل iteration create على sprint جديد بروح من ال sprint العمل

## New Sprint

Name \*

Start \* End \*

10/1/2024 10/16/2024

Location \*

DevOps-in-Arabic

Select existing iteration

Create Cancel

بختار ال Name وقت بدا وانتهاء ال Iteration وال location

Azure DevOps Boards backlog view. The backlog card for 'user story N1 F1' is shown, assigned to 'Mostafa Mahmoud'. The backlog is divided into four iterations:

- Iteration 4**: Current, Planned Effort: 17, 12 working days.
- Iteration 1**: Planned Effort: 11.
- Iteration 2**: Planned Effort: 5.
- Iteration 3**: Planned Effort: 17.

وبكدا اكون قسمت ال 4 iteration على 4 user story وعشان تعرضها بالطريقه دي من backlog هتخترar

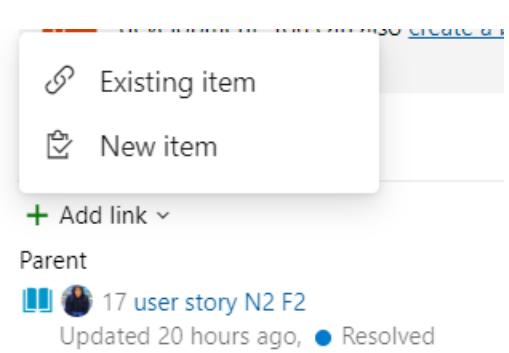
Azure DevOps Capacity tab. Capacity settings for 'Mostafa Mahmoud' and 'Team days off' are displayed:

- User: Mostafa Mahmoud, Days off: 0 days, Activity: Development, Capacity per day: 0.
- Team days off: 0 days. Note: These days off apply to the whole team.

ال Capacity بحدد ايام العمل والاجازات

The screenshot shows the Azure DevOps interface for a project named "DevOps-in-Arabic". The left sidebar is open, showing options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, and Project settings. The main area displays a work item titled "TASK 20\* 20 The Third task in user story N2 F2". The task is Unassigned, New, and New. It is part of the "DevOps-in-Arabic" area and "DevOps-in-Arabic\Iteration 3" iteration. The task has a priority of 2, an activity of 2, and an effort of 5 hours. It is integrated into a build. A note on the right says: "To track releases associated with this work item, go to Releases and turn on deployment status reporting for Boards in your pipeline's Options menu. Learn more about deployment status reporting." Below the task details, there is a "Discussion" section and a "Related Work" section which lists another user story.

في حاجه اسمها link في ال task وهي اني بعمل link بين ال task دي و حاجه تانيه ممكن تكون feature او user story او bug او



وقدر تعمل create item جديد عشان تعمله link معه او انك تختار item موجود اصلا

## Add link

X

You are adding a link from:

📍 14 The first task in user story N1 F2  
Updated 17 minutes ago, • New

Link type

Child

Work items to link

Enter ID or search for work items

- >User Story 13: user story N1 F2
- Task 11: The third task in User Story N1
- Task 10: The second task in User Story N2
- Task 9: The first task in user story N2
- User Story 8: user story N2 F1
- Task 20: The Third task in user story N2 F2
- Task 19: The second task in user story N2 F2
- Task 18: The first task in user story N2 F2
- User Story 17: user story N2 F2

Showing 17 suggestions

دا ال existing link ودا لو هتعمل مع حاجه موجوده قبل كدا

--

## Add link

X

You are adding a link from:

📍 📅 14 The first task in user story N1 F2  
Updated 17 minutes ago, • New

Link type

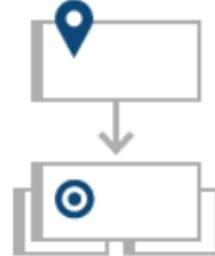
Child

● Work item type

Bug

Title

First Bug



Comment

OK

Cancel

دي لو هتعمل item جدي وتعمله link معه فمثلاً هعمل link لـ task دا bug بالـ

--

Iteration 4

Current

9/13/2024 - 9/30/2024

Planned Effort: 17

12 working days

1 3 1



بعد الـ create الـ item الـ عملته الـ هو الـ bug ببيظهر عادي لك اي item انا عملته قبل كدا

: Boards or kanban -4

هي tool بستخدمها عشان اعمل work item Manage لـ project track progress واعمل new-active-resolved-closed 4 Type وبيكون عندي

New	Active	Resolved	Closed
8 user story N2 F1 Mostafa Mahmoud State: New	4 user story N1 F1 Mostafa Mahmoud State: Active	17 user story N2 F2 Mostafa Mahmoud State: Resolved	13 user story N1 F2 Mostafa Mahmoud State: Closed
5	11	17	17
0/3	0/3	0/3	0/3

ال New دي ال tasks دى ابيتم اضافتها

ال Active دي ال tasks دى شغال عليها حاليا

ال Resolved دي ال tasks دى انت حلتها

ال Closed دي tasks دى انت حلتها واتسلمت وتم الانتهاء منها

New	Active	Resolved	Closed
8 user story N2 F1 Mostafa Mahmoud State: New	4 user story N1 F1 Mostafa Mahmoud State: Active	17 user story N2 F2 Mostafa Mahmoud State: Resolved	13 user story N1 F2 Mostafa Mahmoud State: Closed
5	11	17	17
0/3	0/3	0/3	0/3

في boards خاصه بال setting

## Settings

The screenshot shows the 'Fields' section of the 'User Story' card type settings. On the left, a sidebar lists categories: Tests, Board, Columns \*, Swimlanes \*, Card reordering, Status badge, General, Backlogs, Working days, and Working with bugs. The 'Fields' section title is 'Show the important information to your team. Fields are editable directly on the card.' It contains a 'Core fields' group with checked options for 'Show ID' and 'Show Assigned To as' (set to 'Avatar and full name (default)'). Below this are additional fields: 'Show Story Points' (checked) and 'Show Tags' (checked). A 'Save and close' button is at the bottom right.

دي ال Boards settings بال خاصة

## Settings

The screenshot shows the 'Columns' section of the board settings. The sidebar has 'Board' selected. The main area displays columns: New, Active, Resolved, Stage (highlighted in yellow), and Closed. A 'Column name' field is set to 'Stage'. Under 'Work in progress limit', a value of '5' is entered. A checkbox for 'Split column into doing and done' is unchecked. A 'State mapping' section is present but empty. A 'Save and close' button is at the bottom right.

stage Type columns زياده عن ال 4 وهذا صفت واحد زياده وسميتها

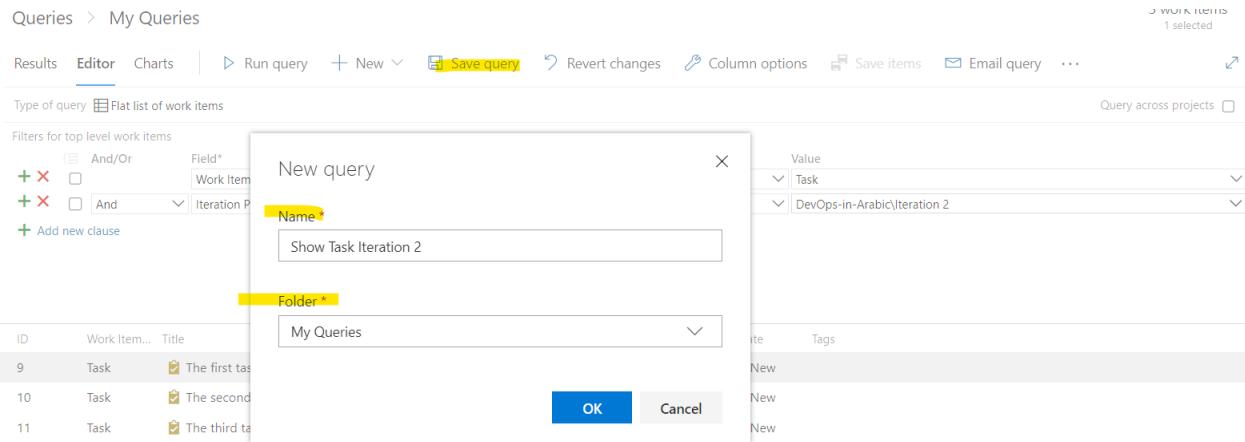
## بعمل من خلالها project Filters لـ Queries -5

The screenshot shows the Azure DevOps 'Queries' page for the 'DevOps-in-Arabic' project. The sidebar on the left is collapsed. The main area shows a query titled 'My Queries'. The filter bar at the top has 'Type of query' set to 'Flat list of work items'. The 'Filters for top level work items' section contains two clauses: 'Work Item Type = User Story' and 'State = Active'. Below the filters, a table lists one work item: ID 4, Work Item Type 'User Story', Title 'user story N1 F1', Assigned To 'Mostafa Mahmoud', State 'Active'.

ف هنا مثلا بقوله اعرضلي ال نوعها user story وال status بقاعدتها active

The screenshot shows the Azure DevOps 'Queries' page for the 'DevOps-in-Arabic' project. The sidebar on the left is collapsed. The main area shows a query titled 'My Queries'. The filter bar at the top has 'Type of query' set to 'Flat list of work items'. The 'Filters for top level work items' section contains two clauses: 'Work Item Type = Task' and 'Iteration Path = DevOps-in-Arabic\Iteration 2'. Below the filters, a table lists three work items: ID 9, Task, Title 'The first task in user story N2', Assigned To 'Mostafa Mahmoud', State 'New'. ID 10, Task, Title 'The second task in User Story N2', Assigned To 'Mostafa Mahmoud', State 'New'. ID 11, Task, Title 'The third task in User Story N1', Assigned To 'Mostafa Mahmoud', State 'New'.

هنا مثلا بقوله اعرضلي ال نوعها tasks ال موجوده في iteration 2



ممكن اعمل save لـ query بحيث ممكن ارجع له في اي وقت من غير ما اكتبه تاني

--

## Queries

Favorites All | + New query | E New folder | ↗ Import Work Items

Title

▼ My Queries

Assigned to me

Followed work items

Show Task Iteration 2

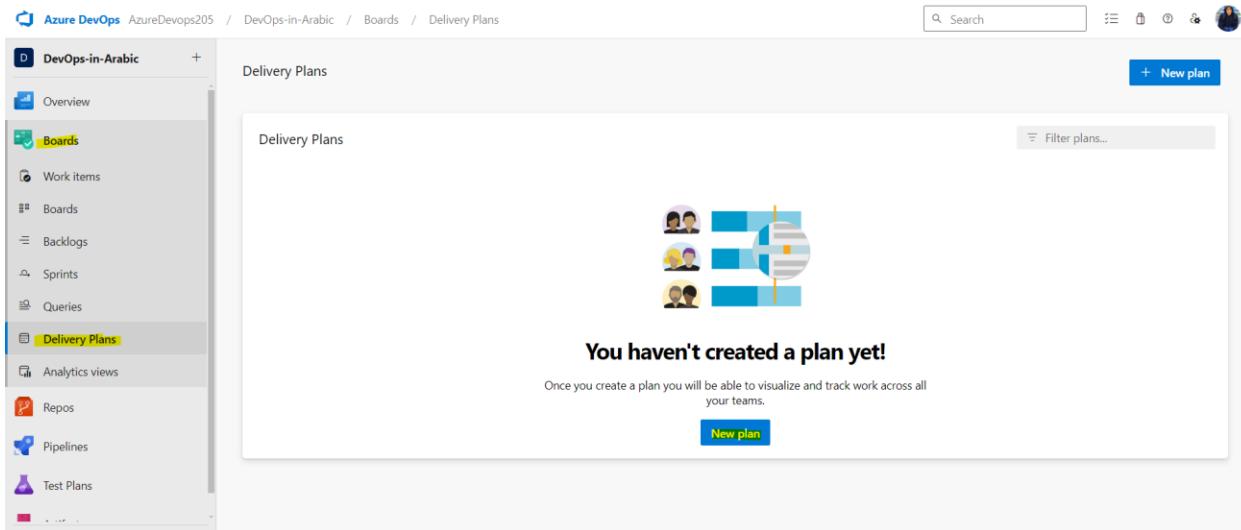
▼ Shared Queries

No items in this folder.

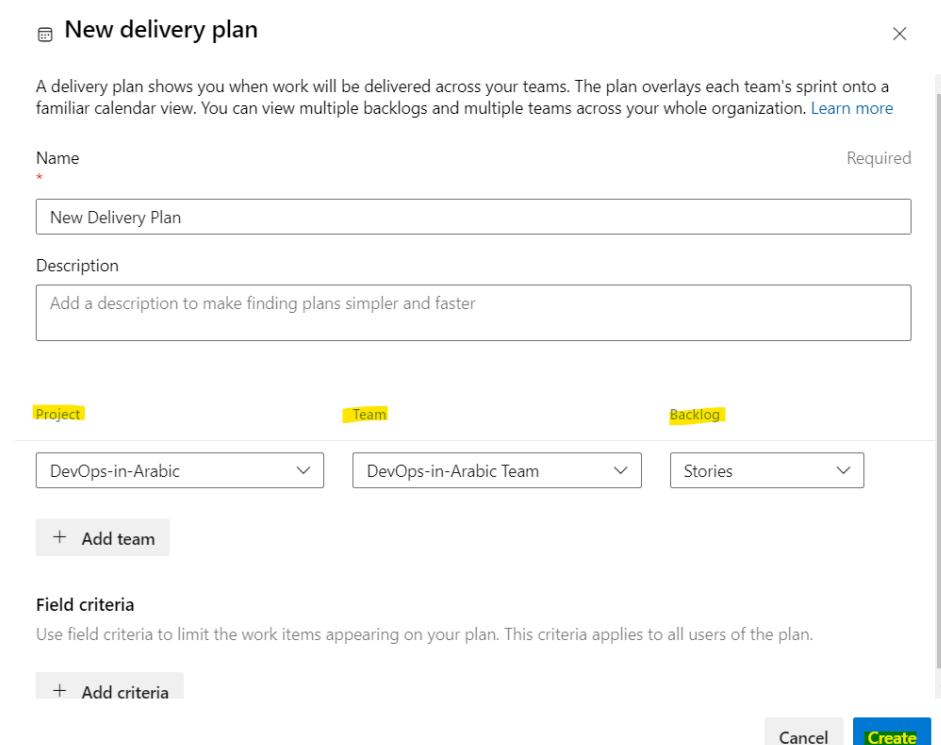
ودي كل ال queries ال بتعلمه save

## : Delivery Plan -6

دي من خلالها بقدر اعرف الوقت الي هيتم فيه تسليم ال task بتعرض في شكل Callender



هنا بعمل add plan



حدد ال backlog وال team وال project

هنا بيعرضها في شكل calendar

Team	Month	10_2020	11_2020	12_2020	01_2021	02_2021
Azure DevOps Features	November 2020	3 Feature	5 Feature	15 Feature	31 Feature	9 Feature
Azure Pipelines Stories	November 2020	28 User Story	18 User Story	17 User Story	22 User Story	30 User Story
Azure Release Stories	December 2020	1 Bug				
Azure Artifacts Stories	January 2021	1 User Story				
	February 2021					

بتكون بالشكل دا فالآخر

## : Analytics Views -7

Create filtered views of simple boards data for Power BI reporting

عمل من خلالها طريقة عرض لاعداد تقارير ال Power BI

The screenshot shows the 'Analytics views' page in Azure DevOps. The left sidebar has a 'Analytics views' section highlighted. The main area displays a table of analytics views:

Name	Description	Last modified by
My Views		
Bugs - All history by month	All Bugs for the entire team project. All history with monthly int...	Mostafa Mahmoud updated 13 hours ago
Shared Views		
Bugs - Last 26 weeks	All Bugs for the entire team project. Last 26 weeks of history wi...	
Bugs - Last 30 days	All Bugs for the entire team project. Last 30 days of history wit...	
Bugs - Today	All Bugs for the entire team project. No history.	
Stories - All history by month	All Stories for the entire team project. All history with monthly i...	
Stories - Last 26 weeks	All Stories for the entire team project. Last 26 weeks of history ...	
Stories - Last 30 days	All Stories for the entire team project. Last 30 days of history wi...	
Stories - Today	All Stories for the entire team project. No history.	
Tasks - All history by month	All Tasks for the entire team project. All history with monthly in...	
Tasks - Last 26 weeks	All Tasks for the entire team project. Last 26 weeks of history wi...	

ثانياً هنكلم عن Azure Repo

## Azure Repositories



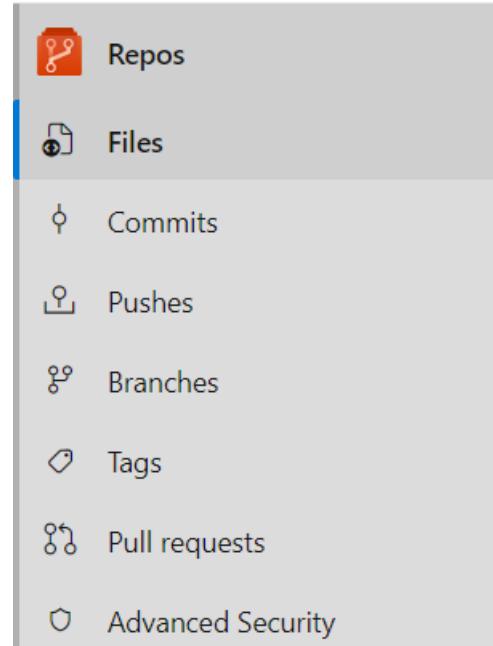
## Azure Repos

هو عبارة عن **Code Manage** لعمل **Version Control tools** بتاعك.  
وال **changes** هو عبارة عن **software** بيديك تعمل **Track** لـ **Version Control** ال حصلت  
علي ال **Code**

تقدير تشووف تلخيص **Git and Github** من هنا :

ال **Azure Repo** بيتوفر نوعين من ال **Version Control** وهما :  
distributed version control Git-  
centralized version control Team Foundation Version Control (TFVC)-

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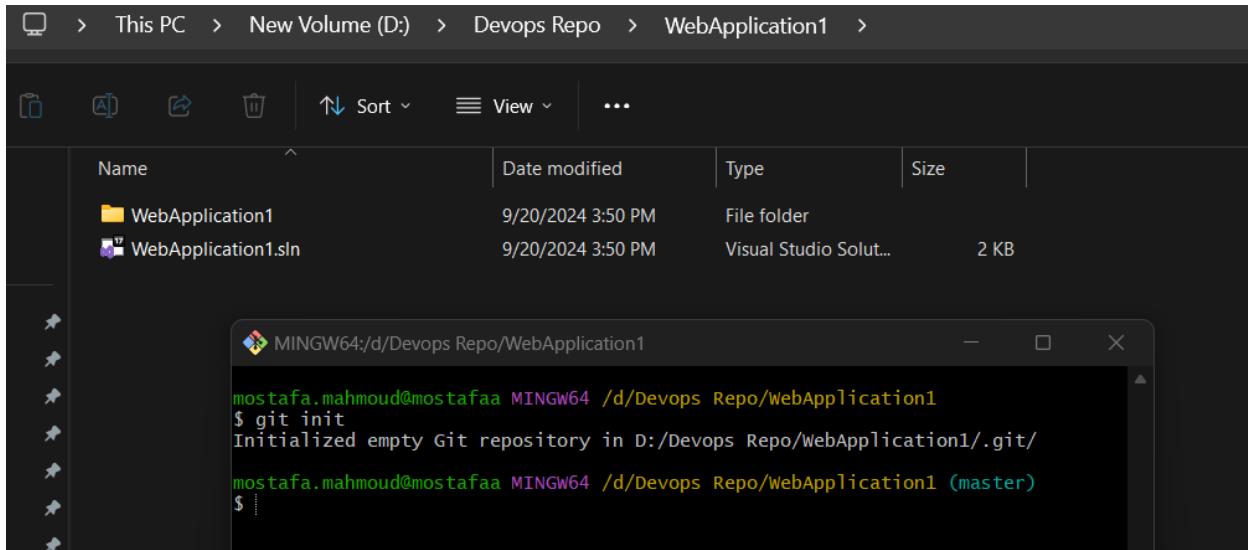


ال : Files

هتسخدم ال Azure Repo لو عندك ال code على Clone to your computer و هتاخد منه على ال Local عندك clone

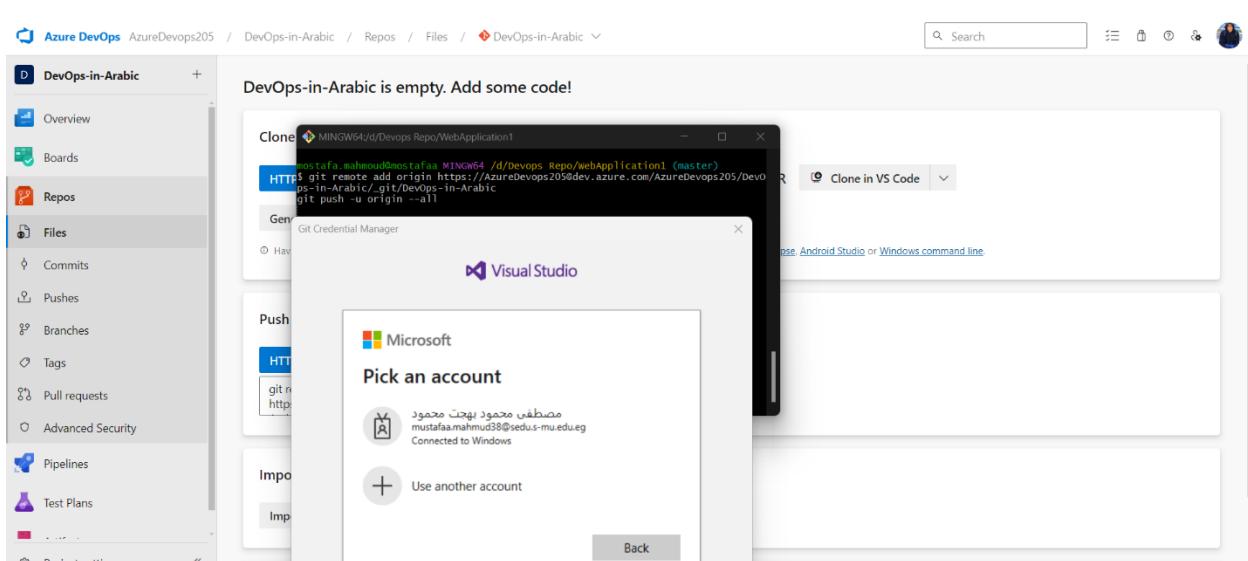
والعكس هتسخدم ال Push an existing from command-line لو عاوز ترفع ال code بتعالك من ال local لـ Azure repo

طيب دلوقت مثلا عندي project على ال local و عاوز اعمله Push على ال Azure repo



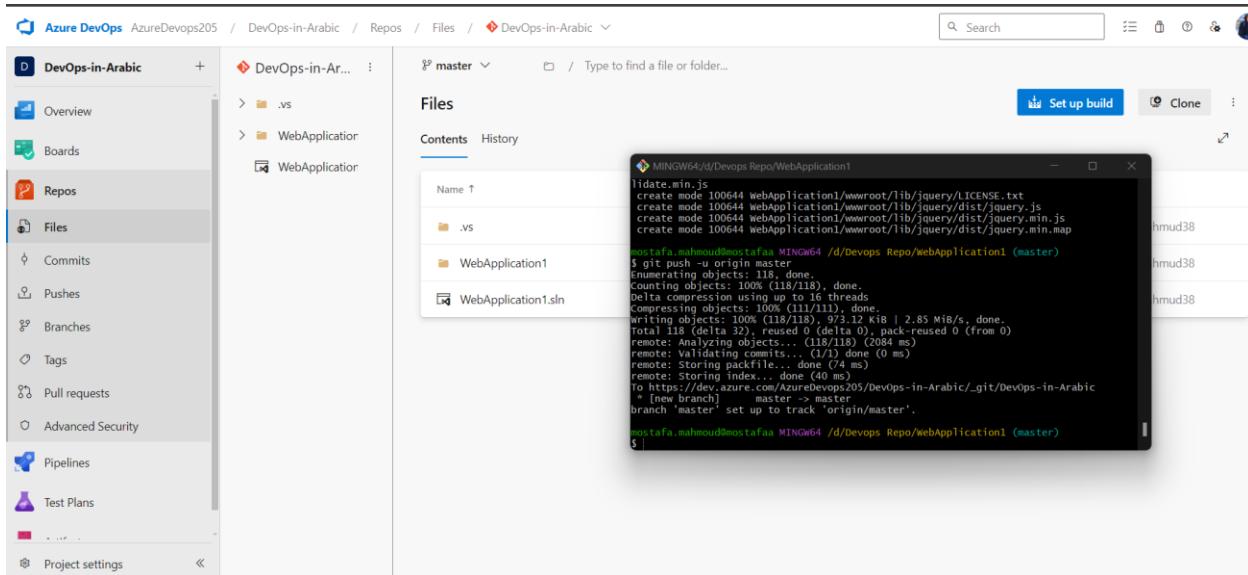
هنا هستخد ال Git Bash

فعمل git init او لا



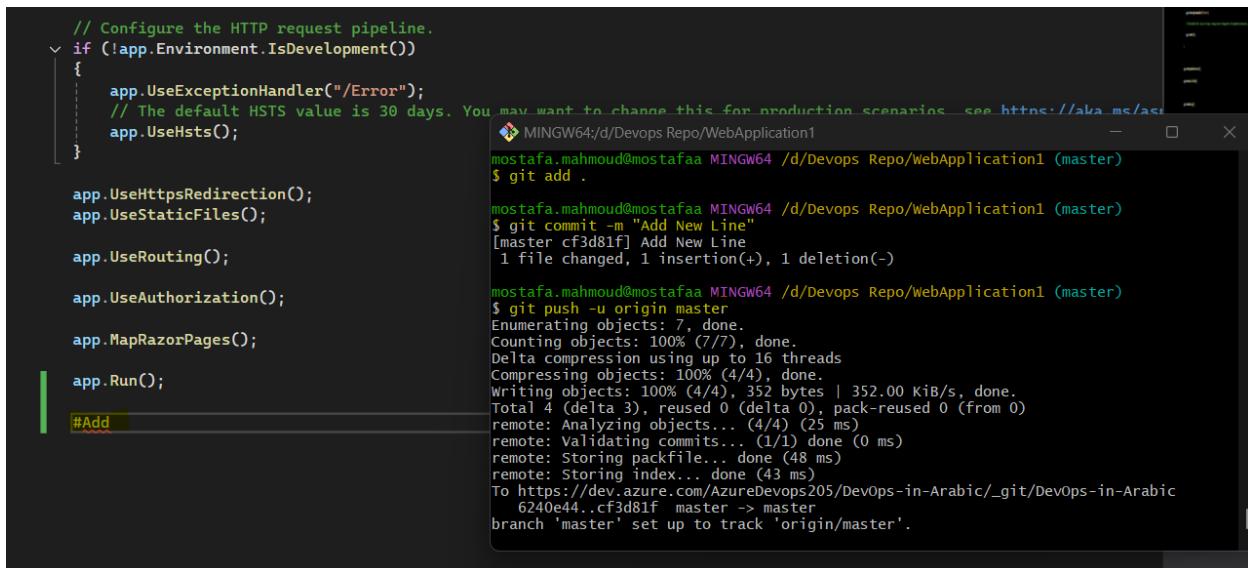
بعد كدا باخد ال Command الي موجوده على ال Azure واكتبها في ال Git Bash

هيطلب منك ال Auth مع Azure



وبكدا هتلaci ال project تم رفعه على ال Azure Repo

ال commit



هنا مثلا عملت تعديل على ال code باضافه السطر دا : #Add

ف انا عاوز ارفع التعديل دا واخليه يظهر على ال Azure Repo

ف اول حاجه هعمل ال . git add وبعد كدا اعمل commit للتعديل الجديد ال عملته وبعد كدا اعمل للتعديلات دي على ال branch Push بتاعي

--

The screenshot shows the Azure DevOps interface for a repository named 'DevOps-in-Arabic'. The left sidebar is open, showing options like Overview, Boards, Repos (selected), Files, Commits (selected), Pushes, Branches, Tags, Pull requests, and Advanced Security. The main area displays the commit history for the 'master' branch. It includes a graph view and a detailed list of commits:

Commit	Author	Date
Add New Line	cf3d81fe mustafa.mahmud38	Today at 4:21 PM
Initial commit for WebApplication1	6240e441 mustafa.mahmud38	Today at 4:20 PM
Add .vs folder to .gitignore	3d733e25 mustafa.mahmud38	Today at 4:20 PM
Initial commit for WebApplication1	d06f4d24 mustafa.mahmud38	Today at 4:03 PM

وبكدا التعديل هيظهر ولو روحت على ال commits هتلaci ال عمله

ال : Pushes

The screenshot shows the Azure DevOps interface for the same repository. The left sidebar is open, showing Overview, Boards, Repos (selected), Files, Commits, Pushes (selected), Branches, Tags, Pull requests, and Advanced Security. The main area displays the push history for the 'master' branch. It lists three updates:

- Updated to cf3d81fe: Add New Line
- Updated to 6240e441: Initial commit for WebApplication1
- Created at d06f4d24: Initial commit for WebApplication1

يعملني List بكل ال pushes ال حصلت وبيرتها من الجديد للقديم وهذا ظهرلي ال push ال لسه حاصل حاليا الخاص باضافه السطر الجديد.

## :Branches

A screenshot of the Azure DevOps interface showing the 'Branches' page for a repository named 'DevOps-in-Arabic'. The left sidebar shows navigation options like Overview, Boards, Repos, Files, Commits, Pushes, and Branches. The 'Branches' option is selected and highlighted in yellow. The main area displays a table of branches with one entry: 'master'. The table includes columns for Branch, Author, Authored..., Behind | Ahead, Status, and Pull ... . A search bar at the top right allows searching for branch names.

هعمل New Branch

A screenshot of the 'Create a branch' dialog box overlaid on the Azure DevOps Branches page. The dialog has a title 'Create a branch'. It contains fields for 'Name \*' (with 'Testing' entered) and 'Based on' (with 'master' selected). There is also a 'Work items to link' section with a dropdown menu. At the bottom are 'Cancel' and 'Create' buttons.

بضيف اسم لـ branch وبختار هو هيكون Based على انهي

Azure DevOps Branches page showing two branches: master and Testing.

Branch	Co...	Author	Authored...	Behind   Ahead	Status	Pull ...
master	a0321b1	mustafaa.ma...	18m ago			
Testing	a0321b1	mustafaa.ma...	18m ago	0   0		

هتلacie ظهر معاك في ال branches

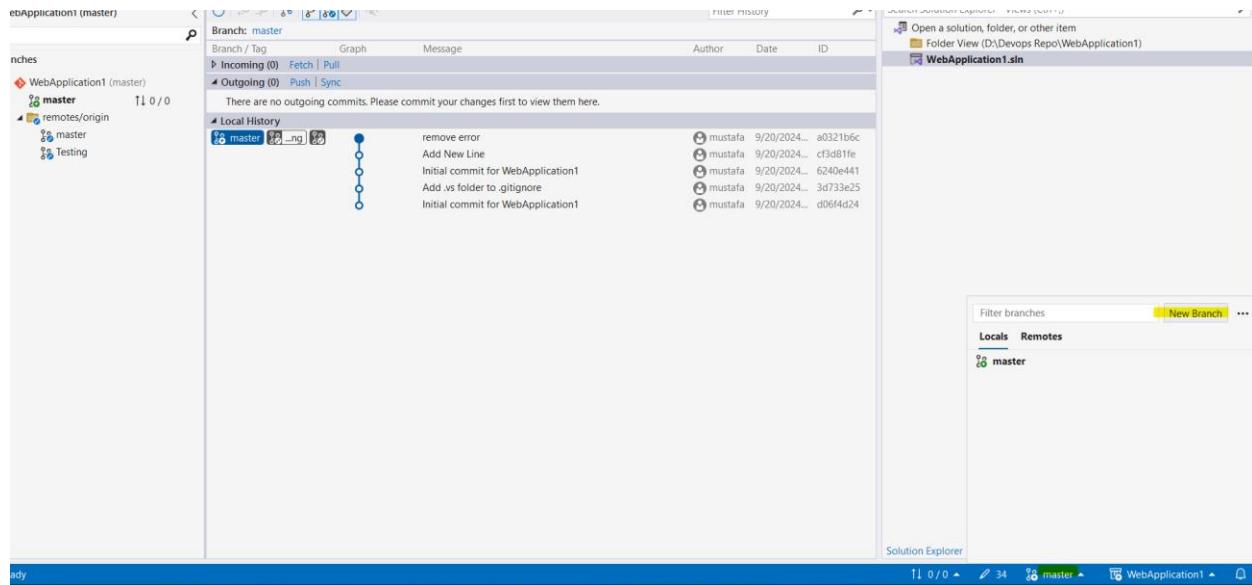
```
mostafa.mahmoud@mostafaa MINGW64 /d/Devops Repo/WebApplication1 (master)
$ git fetch
From https://dev.azure.com/AzureDevops205/DevOps-in-Arabic/_git/DevOps-in-Arabic
 * [new branch]      Testing    -> origin/Testing
```

طيب عشان يظهر معاك في ال local ؟ هتلacie تم اضافته

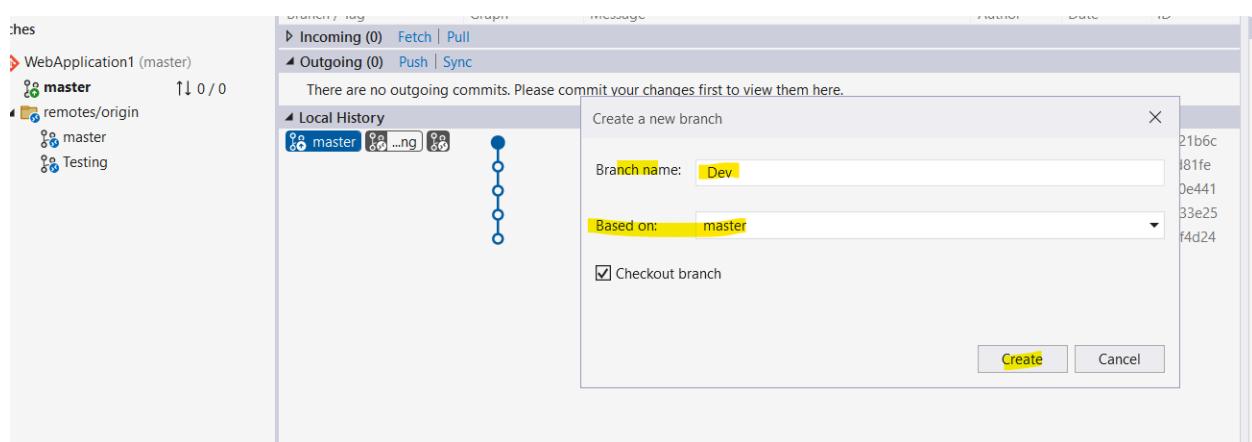
Visual Studio Local History for WebApplication1 (master) showing commit history:

- Incoming (0) Fetch | Pull
- Outgoing (0) Push | Sync
- Local History (5 commits):
  - remove error
  - Add New Line
  - Initial commit for WebApplication1
  - Add .vs folder to .gitignore
  - Initial commit for WebApplication1

و هتلacie ظهر معاك visual studio



طيب هنعمل local Branch جديد على ال visual studio



هنا ندخل اسم ونقول له هو branch على انهي based

```

mostafa.mahmoud@mostafaa MINGW64 /d/Devops Repo/WebApplication1 (Dev)
$ git branch
* Dev
  master

mostafa.mahmoud@mostafaa MINGW64 /d/Devops Repo/WebApplication1 (Dev)
$ git checkout Dev
Already on 'Dev'
M     .vs/WebApplication1/v17/.suo
M     .vs/WebApplication1/v17/DocumentLayout.json
A     WebApplication1/bin/Debug/net8.0/WebApplication1.deps.json
A     WebApplication1/bin/Debug/net8.0/WebApplication1.dll
A     WebApplication1/bin/Debug/net8.0/WebApplication1.exe
A     WebApplication1/bin/Debug/net8.0/WebApplication1.pdb
A     WebApplication1/bin/Debug/net8.0/WebApplication1.runtimeconfig.json
A     WebApplication1/bin/Debug/net8.0/WebApplication1.staticwebassets.runtime.json
A     WebApplication1/bin/Debug/net8.0/appsettings.Development.json
A     WebApplication1/bin/Debug/net8.0/appsettings.json

```

وعشان نخلية يضاف فوق علي ال Azure Repo هنعمل

```

mostafa.mahmoud@mostafaa MINGW64 /d/Devops Repo/WebApplication1 (Dev)
$ git push -u origin Dev
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://dev.azure.com/AzureDevops205/DevOps-in-Arabic/_git/DevOps-in-Arabic
 * [new branch]      Dev -> Dev
branch 'Dev' set up to track 'origin/Dev'.

```

وبعد كدا هنعمل git push علي ال branch علی ال عملناه

Branch	Co...	Author	Authored...	Behind   Ahead	Status	Pull ...
Dev	a0321bf	mustafaa.ma...	40m ago	0   0		
master	a0321bf	mustafaa.ma...	40m ago			★
Testing	a0321bf	mustafaa.ma...	40m ago	0   0		

بعد كدا هنلاقي ظهر علي ال Azure repo

طيب لو محتاج اعمل Policies على branch معين عشان مدش يقدر يعمل Merge على Branch غير لما يحصل Pull requests ويتم الموافقه عليه :

Azure DevOps - AzureDevops205 / DevOps-in-Arabic / Repos / Branches / DevOps-in-Arabic

**Branches**

Mine All Stale

Branch	Co...	Author	Authored...	Behind   Ahead	Status	Pull ...
Dev	a0321bd	mustafaa.ma...	Yesterday	0 0		
master	a0321bd	mustafaa.ma...	Yesterday	0 0		
Testing	a0321bd	mustafaa.ma...	Yesterday	0 0		

New branch

Search branch name

- + New branch
- 33 New pull request
- Delete branch
- View files
- View history
- Compare branches
- Set as compare branch
- Set as default branch
- Lock
- Branch policies** (highlighted)
- Branch security

بروح ال branch واختار ال Policies ال عاوز اعمل عليها支 Policies

AzureDevops205 / DevOps-in-Arabic / Settings / Repositories

**Testing**

Settings Policies Security Approvals and checks

**Branch Policies**

Note: If any required policy is enabled, this branch cannot be deleted and changes must be made via pull request.

On

Require a minimum number of reviewers  
Require approval from a specified number of reviewers on pull requests.

Minimum number of reviewers

Allow requestors to approve their own changes

Prohibit the most recent pusher from approving their own changes

Allow completion even if some reviewers vote to wait or reject

When new changes are pushed:

Require at least one approval on every iteration. [Learn more](#)

Require at least one approval on the last iteration

Reset all approval votes (does not reset votes to reject or wait)

Reset all code reviewer votes

بعد كدا هروح على Policies واشوف اي ال Policies ال محتاج اطبقها

هنا بحدد عدد ال reviewers : Require a minimum number of reviewers-1 حدد 2 فلازم شخصين يعملا review يعني لو

: Allow requestors to approve their own changes-2

كدا بسمح للشخص ال عمل ال requests Approve لنفسه

: Prohibit the most recent pusher from approving their own changes-3

بمنع اخر شخص عمل Push انه يعمل Approve لـ changes ال عملها

: Allow completion even if some reviewers vote to wait or reject-4

بسمح بدمج التغييرات حتى لو بعض ال reviewers قام بالرفض او الانتظار

: When new changes are pushed-5

هنا بيحدد كيفيه التعامل مع المواقفات بعد المراجعة الاولية وفيها اكتر من حاجه:

: Require at least one approval on every iteration-

لما يكون فيه تغييرات جديدة لازم يتم الموافقه عليها علي الاقل من شخص واحد

: Require at least one approval on the last iteration-

يتطلب موافقه واحده علي التغييرات النهائية بعض النظر عن التغييرات السابقة

Reset all approval votes (does not reset votes to reject or wait)-

Reset all code reviewer votes-

الاثنين دول يعني لازم اعاده تعين عند حدوث تغييرات جديدة

---



#### Check for linked work items

Encourage traceability by checking for linked work items on pull requests.

Required

Block pull requests from being completed unless they have at least one linked work item.

Optional

Warn if there are no linked work items, but allow pull requests to be completed.



#### Check for comment resolution

Check to see that all comments have been resolved on pull requests.

Required

Block pull requests from being completed while any comments are active.

Optional

Warn if any comments are active, but allow pull requests to be completed.



#### Limit merge types

Control branch history by limiting the available types of merge when pull requests are completed.

بعد كدا في policies تانيه زي مثلا :

: Check for linked work items-1

هنا عشان اقدر اعمل لـ Work Item Management tracking

هنا بحد لازم يكون ال work item مرتبط ب requests ولا لا

: Check for comment resolution-2

هنا بتاكد من حل جميع ال comments قبل اكمال ال pull request

: لو عاوز احدد نوع Merge : Limit merge types-3

review و change عشان اعمل pull requests لـ create pull requests Git repo في ال code merge

The screenshot shows the Azure DevOps interface for managing pull requests. The left sidebar is titled 'DevOps-in-Arabic' and includes links for Overview, Boards, Repos (which is selected), Files, Commits, Pushes, Branches, Tags, Pull requests (which is also selected), Advanced Security, Pipelines, and Test Plans. The main content area is titled 'Pull requests' and shows a table with columns: Pull Request ID, Created by, Assigned to, and Target branch. A search bar at the top right contains the text 'Search'. Below the table, there is a message: 'Currently, no pull requests need your attention' with a small icon of three people connected by arrows. A blue button labeled 'New pull request' is located at the bottom right of the main content area.

لو عاوز اعمل pull requests بروح علي ال repo وبختار ال New pull requests ثم

The screenshot shows the 'New pull request' page. The left sidebar is identical to the previous one. The main content area is titled 'New pull request' and shows a dropdown menu with 'Dev' selected under 'From' and 'master' selected under 'into'. A message below the dropdown states: 'There are no changes to merge between the selected branches.' A blue 'New pull request' button is visible at the bottom right.

بحدد ال 2 و هنا هعمل merge من ال Dev الى ال Master لكن مفيش اي تغيير في ال code وبالتالي مفيش تغييرات يتعلماها

طيب ازاي اعین شخص واخليه يعمل review ؟

> Automatically included reviewers  
Designate code reviewers to automatically include when pull requests change certain areas of code.

1

Filter



من ال policies branch Policies ال الخاصه بال branch عاوز تعمل عليه ال policies

--

## Add new reviewer policy

X

### Reviewers



### Policy requirement

Optional

Required

### For pull request affecting these folders



Leave blank to include the specified reviewers on all pull requests

### Completion options

Allow requestors to approve their own changes

### Activity feed message



Save

Cancel

reviewers هتحدد ال

: policy requirement في ال

لو هتختر optional pull requests كدا ال reviewes مش شرط انهم يوافقوا لاقمال ال

لو هتختار ال Required Approve هنا لازم يتم ال Approve لاكمال ال pull requests في ال folder : لو عاوز تحدد folder معين من ال repos عشان هو دا بس ال يطبق عليه

ال Allow requestors to approve their own changes دى لو فعلتها كدا ال بيعمل ال Pull request vote to approve من حقه انه Pull request ال هو عمله

--

The screenshot shows a settings page for GitHub. At the top, there's a section titled "Automatically included reviewers" with a count of 1. Below it, a note says "Designate code reviewers to automatically include when pull requests change certain areas of code." There are three buttons: "Enabled" (disabled), "Reviewers ↑" (which is selected), and "Path filter". Below these buttons, there's a toggle switch labeled "On" which is turned on, and a list of reviewers. The first reviewer listed is "Mostafa Mahmoud" with the status "Required".

بعد كدا هيظهر لك ال reviewers ال لازم هما ال يعملوا Approve

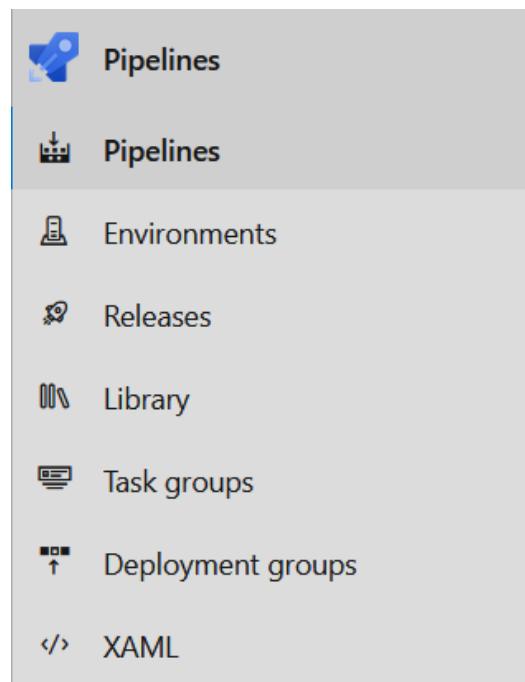
ثالثاً ال Azure devops pipelines



هو جزء من ال Azure devops وظيفته :  
that automatically builds, tests, and deploys code projects.  
يجمع بين ال continuous integration, continuous testing, continuous delivery

--

يتكون من :



هنا هبذا اعمل ال pipeline بتاعي : pipelines-1

The screenshot shows the Azure DevOps Pipelines interface. On the left, there's a sidebar with various project navigation options like Overview, Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, Deployment groups, and XAML. The 'Pipelines' option is selected. The main area is titled 'Pipelines' and shows a 'Recently run pipelines' section. It includes tabs for 'Recent', 'All', and 'Runs'. A 'New pipeline' button is located in the top right corner. There's also a 'Filter pipelines' search bar.

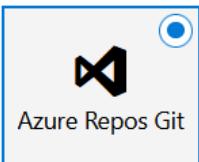
من New Pipeline هختار ثم pipelines pipelines

The screenshot shows the 'New Pipeline' setup process. The left sidebar has the same navigation as the previous screenshot. The main area is titled 'New pipeline' and has four tabs: 'Connect' (which is selected), 'Select', 'Configure', and 'Review'. Below the tabs, the heading 'Where is your code?' is displayed. A list of code sources is shown, each with a icon, name, and 'YAML' link. The sources include: Azure Repos Git (Free private Git repositories, pull requests, and code search), Bitbucket Cloud (Hosted by Atlassian), GitHub (Home to the world's largest community of developers), GitHub Enterprise Server (The self-hosted version of GitHub Enterprise), Other Git (Any generic Git repository), and Subversion (Centralized version control by Apache). A note at the bottom says 'Use the classic editor to create a pipeline without YAML.'

هبيدا يسألني عن مكان ال code

هنبدا نشتغل بالطريقه ال classic

Select a source



Azure Repos Git



TFVC



Github



Github Enterprise  
Server



Subversion



Bitbucket Cloud



Other Git

Team project



Repository



Default branch for manual and scheduled builds



Continue

هیسالک عن مكان ال code

## Select a template

Or start with an  [Empty job](#)

 Search

### 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.



#### Android

Build, test, sign, and align an Android APK.



#### ASP.NET

Build and test an ASP.NET web application.



#### Azure Web App for ASP.NET

Build, package, test, and deploy an ASP.NET Azure Web App.



#### Docker container

Build a Docker image and push it to a container registry.



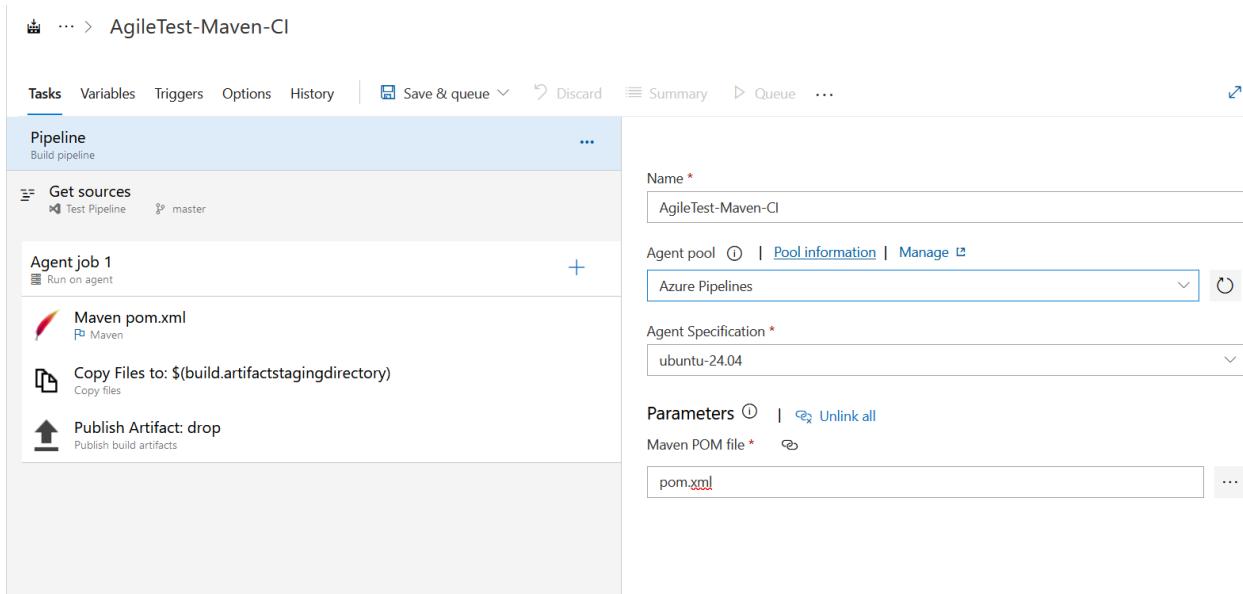
#### Maven

Build and test a Java project with Apache Maven.

هنا لو هتبني انت كل حاجه هتخтар ال **empty job**

او ممكن تختار **project** جاهز علي حسب ال **template** بتاعك

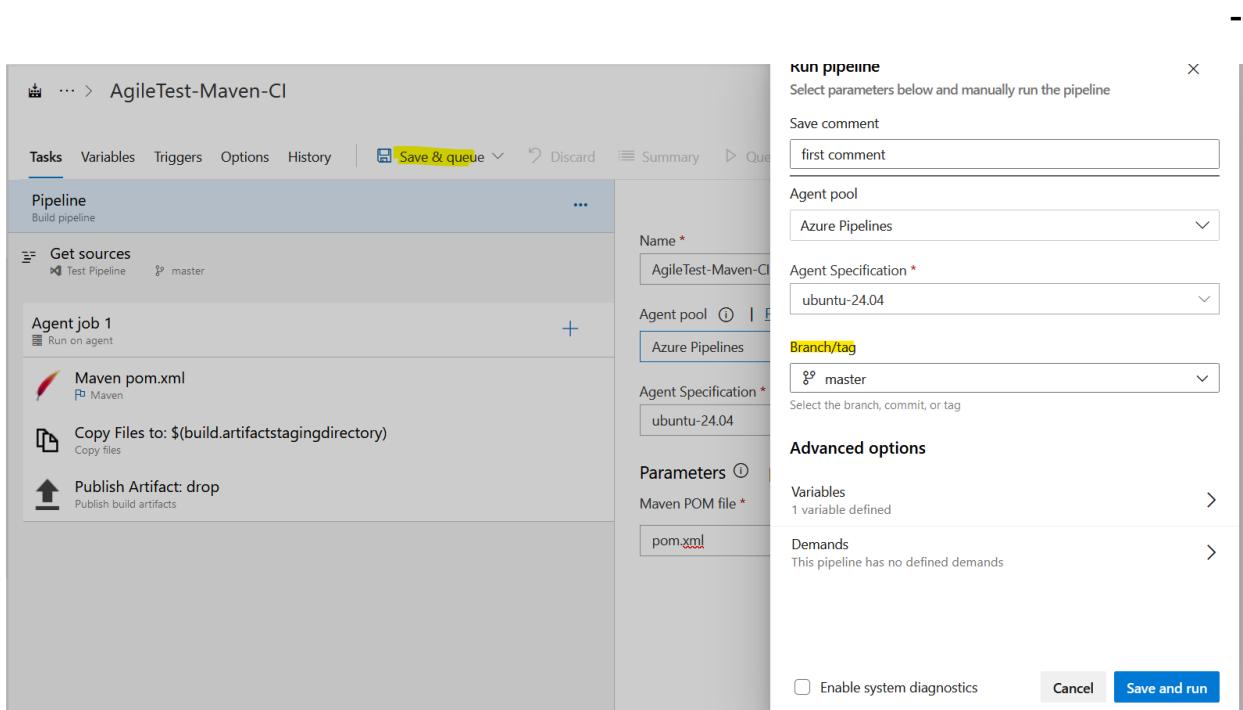
--



هنا اختار ال maven template الخاص بال

ال self-hosted agent فيه نوعين ال azure host agent او

هنا اختارت ال azure وبالتحديد ال ubuntu



بعد م خلصت هدا اعمل Run من save and queue بعد كدا بيسالني عن ال branch وفالآخر  
اضغط save and run

Manually run by M mostafa.mahmoud

View change

Repository and version

Test Pipeline

master ↗ 72109bfd

Time started and elapsed

Today at 2:23 PM

<1s

Related

0 work items

1 consumed

Tests and coverage

Get started

Errors 1

No hosted parallelism has been purchased or granted. To request a free parallelism grant, please fill out the following form <https://aka.ms/azpipelines-parallelism-request>

20240928.1

بس هنا مش هيكل و هيدي error لان لازم اكون باعت Microsoft mail اني عاوز استخدم agent عشان اعمل ال run دا

طيب هنتكلم عن انواع ال agent و ازاي نعمل : self-hosted agent

ال agent انت بتستخدمه عشان تعمل build او deploy لـ code بتعمل بتاعك بستخدام ال azure pipelines و على الاقل بتحتاج agent واحد وال agent بيعمل job واحد في كل مره .

انواع ال agent :

والنوع دا هيكون موجود فقط علي managed by Microsoft : Microsoft-hosted agents -1

Azure DevOps Services

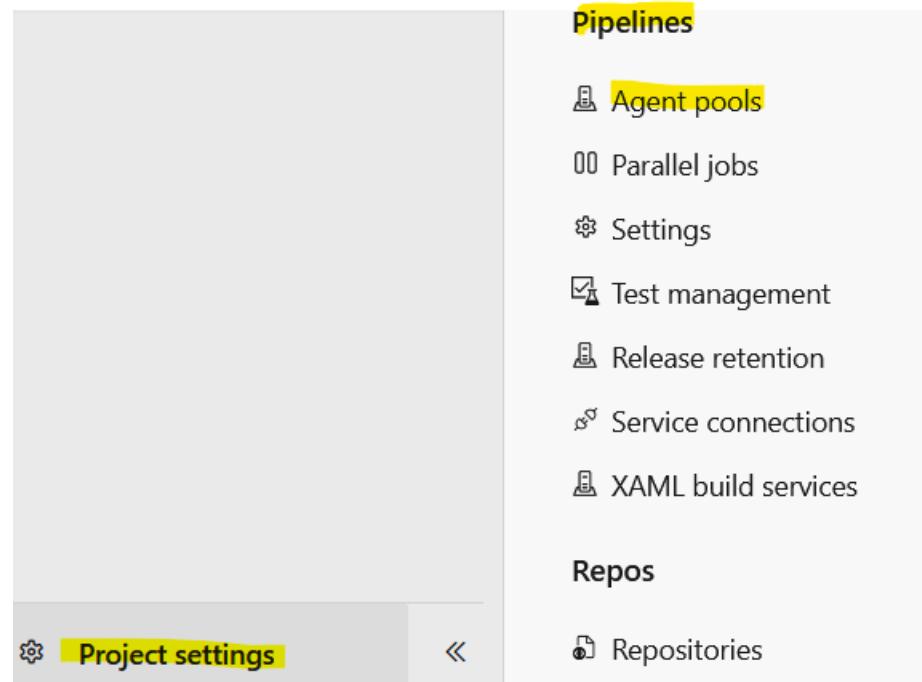
والنوع دا هيكون موجود manage, hosted on your VMs : Self-hosted agents -2

Azure DevOps Server و Azure DevOps Services

self-hosted agents : يعتبر Azure Virtual Machine Scale Set agents -3 لكن من خلال Azure DevOps والنوع دا موجود فقط علي Azure Virtual Machine Scale Sets Services

--

ازاي ابدا اعمل ال self-hosted agent



من ال agent pools هتروح علي ال pipelines ومنها هتختار ال project settings

This screenshot shows the 'Agent pools' configuration screen. It has a header with 'Agent pools', 'Security', and a blue 'Add pool' button. Below the header is a table with two rows. The first row contains a cloud icon, the name 'Azure Pipelines', and the text 'Azure Pipelines'. The second row contains a folder icon, the name 'Default', and the text 'Azure Pipelines'. To the right of the table are three buttons: 'Queued jobs', 'Running jobs', and another 'Running jobs' button. At the bottom right of the screen is a blue 'Add pool' button.

من ال Add pool هعمل Agent pools جديد

## Add agent pool

X

Agent pools are shared across an organization.

Pool to link:

New     Existing

Pool type:

Self-hosted



A pool of agents that you set up and manage on your own to run jobs. [Learn more.](#)

Name:

Self-hosted agent

Description (optional):

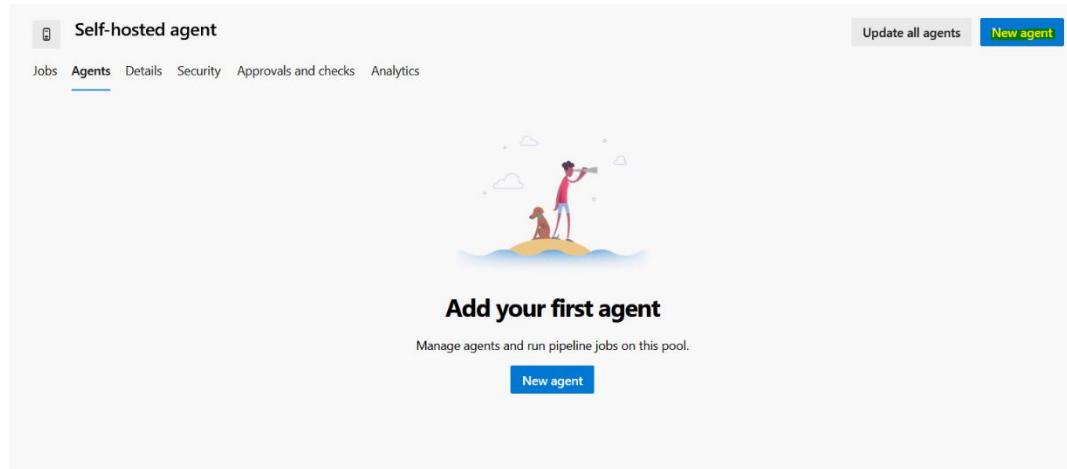
ⓘ Markdown supported.

Pipeline permissions:

Grant access permission to all pipelines

Create

هختار نوع ال pool انها self-hosted و يعمل create



كدا عملت ال pool بتاعتي لكن لسه مفهاش اي agent هبذا اعمل new agent

The screenshot shows a "Get the agent" guide for Linux. It includes tabs for Windows, macOS, and Linux, with the Linux tab selected. On the left, there's a sidebar for "x64" architecture with options: arm, arm64, and RHEL6. The main content area has sections for "System prerequisites", "Configure your account", "Download the agent" (with "Download" and "Get" buttons), "Create the agent" (with a terminal window showing command: `~/myagent$ tar zxvf ~/Downloads/vsts-agent-linux-x64-3.244.1.tar.gz`), "Configure the agent" (with a "Detailed instructions" link), "Optional run the agent interactively" (with a terminal window showing command: `~/myagent$ ./config.sh`), and "Optional run the agent as a service" (with a terminal window showing command: `~/myagent$ ./run.sh`).

بتختار ال OS و بتبدأ تتبع الخطوات ال هو كتبهالك

```
[root@oracle Downloads]# ls  
vsts-agent-linux-x64-3.244.1.tar.gz  
[root@oracle Downloads]#
```

عملت download لـ agent

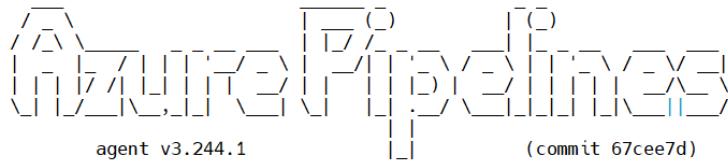
--

```
[root@oracle Downloads]# mkdir ~/myagent && cd ~/myagent  
[root@oracle myagent]# tar zxvf ~/Downloads/vsts-agent-linux-x64-3.244.1.tar.gz  
./  
./run.sh  
./env.sh  
./externals/  
./externals/node/  
./externals/node/share/  
./externals/node/share/man/  
./externals/node/share/man/man1/  
./externals/node/share/man/man1/node.1  
./externals/node/share/systemtap/  
./externals/node/share/systemtap/tapset/  
./externals/node/share/systemtap/tapset/node.stp
```

عملت extract لـ vsts-agent-linux-x64-3.244.1.tar.gz و عملت dir جديد اسمه myagent

--

```
[devopsuser@oracle myagent]$ ./config.sh
```



#### >> End User License Agreements:

[Building](#) sources from a TFVC repository requires accepting the Team Explorer Everywhere End User License Agreement. Building sources from Git repositories.

A copy of the Team Explorer Everywhere license agreement can be found at:  
</home/devopsuser/myagent/license.html>

Enter (Y/N) Accept the Team Explorer Everywhere license agreement now? (press enter for N) >

>> Connect:

```
Enter server URL > https://dev.azure.com
Enter authentication type (press enter for .)
Enter personal access token > *****
Connecting to server ...
```

>> Register Agent:

```
Enter agent pool (press enter for default) > Self-hosted agent
Enter agent name (press enter for oracle) >
Scanning for tool capabilities.
Connecting to the server.
Successfully added the agent
Testing agent connection.
Enter work folder (press enter for _work) >
2024-09-28 12:17:48Z: Settings Saved.
[devopsuser@oracle myagent]$ █
```

عمل Run لـ agent و هيبدا يسالني على ال config الخاصه بال agent زى ال URL وال Auth files واسم ال pool ال عندي واسم ال agent هيكون اي بعد م ينزل وال dir ال هيبدا يرمي فيه ال files على ال vm دى

Self-hosted agent		Update all agents	New agent		
Jobs	Agents	Details	Security	Approvals and checks	Analytics
Name	Last run	Current status	Agent version	Enabled	
oracle ● Online		Idle	3.244.1	<input checked="" type="checkbox"/> On	

وبکدا ال Agent هیكون تم اضافته ومتاح انك تستخدمه لـ pipeline

Pipeline

Build pipeline

Get sources

Agent job 1

Maven pom.xml

Copy Files to: \$(build.artifactstagingdirectory)

Publish Artifact: drop

Name \* AgileTest-Maven-Cl

Agent pool Self-hosted agent

Parameters Maven POM file \* pom.xml

هترجع على ال project ال احنا عاملينه وهنخلي ال agent pool تكون ال احنا لسه عملناها وهي ال Self-hosted agent

← Jobs in run #20240928.3

Maven-Cl

Jobs

Agent job 1 2m 44s

Initialize job 47s

Checkout Test Pipeline... 5s

Maven pom.xml 1m 46s

Copy Files to: /home/... <1s

Publish Artifact: drop 2s

Post-job: Checkout Test... 1s

Finalize Job <1s

Report build status <1s

Report build status

Set build status for commit 72109b.

وبكدا ال pipeline اشتغل على ال self-hosted

طيب لو عاوز اخلي ال build يحصل pull request بحيث لو حصل Automatic وتم ال pull request بيشتغل :

من ال Repo هتخтар ال Pipeline ال بتعمل عليه ال Build Validation و هتروح علي ال Policies

#### Add build policy

Build pipeline \*

Path filter (optional)

#### Trigger

Automatic (whenever the source branch is updated)

Manual

#### Policy requirement

Required  
Build must succeed in order to complete pull requests.

Optional  
Build failure will not block completion of pull requests.

#### Build expiration

Immediately when master is updated

After 1 hours if master has been updated

Never

بعد كدا بتختار ال Pipeline بتاعك وال trigger تخليه Automatic

**Build Validation** 1

Validate code by pre-merging and building pull request changes.

Enabled	Name ↑	Path filter	Trigger	Inheritance
<input checked="" type="checkbox"/> On	<b>Auto Pipeline</b> Optional		Automatic Expires after 1 hour	

وبکذا خلينا ال Automatic Pipeline يكون

**Auto pipeline**

Active !1450 M mostafa.mahmoud proposes to merge new-feature-branch into master

**Overview** Files Updates Commits

No required checks  
1 optional check not yet run

Auto Pipeline Auto Pipeline queued

No merge conflicts  
Last checked Just now

Description

Your commit message

هنا عملت Automatic pipeline و عطول pull request شغل ال

**Jobs**

- Agent job 1 35s
  - Initialize job 8s
  - Checkout Test Pipeline... 2s
  - Maven pom.xml 20s
  - Copy Files to: /home/... <1s
  - Publish Artifact: drop 1s
  - Post-job: Checkout Te... <1s
  - Finalize Job <1s
  - Report build status <1s

```

1 Pool: self-hosted
2 Queued: Today at 2:00 PM [manage_parallel_jobs]
3 Agent: self-hosted agent
4 Started: Just now
5 Duration: 35s
6
7 The agent request is already running or has already completed.
8 ▶ Job preparation parameters
30 ▶ 7 queue time variables used
39 ┌ 1 artifact produced
40 ┌ 100% tests passed
41 Job live console data:
42 Starting: Agent job 1
43 Async Command Start: DetectDockerContainer
44 Async Command End: DetectDockerContainer
45 Async Command Start: DetectDockerContainer
46 Async Command End: DetectDockerContainer
47 Finishing: Agent job 1
  
```

طيب لو محدث اخلي ال pipeline يحصله run لما يحصل اي تغيير في ال master مش لازم يحصل ال : pull request

The screenshot shows the Azure Pipelines interface. On the left, there's a sidebar with 'Overview', 'Boards', 'Repos', and two 'Pipelines' sections. The second 'Pipelines' section is highlighted with a yellow background. The main area is titled 'Pipelines' with tabs for 'Recent', 'All', and 'Runs'. A 'New pipeline' button is at the top right. Below it is a 'Filter pipelines' search bar. The 'Recently run pipelines' section lists a single entry: 'Maven-Cl' with a green checkmark, status '#20241002.1 • Auto pipeline', and details 'PR automated for M 1450' and 'Last run 8m ago'. There are edit and delete icons to the right.

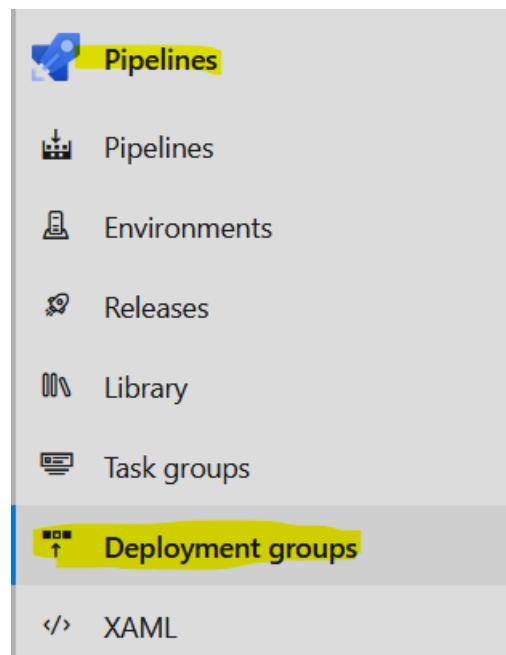
من ال pipeline بتاعتنا هنروح نعمل edit

This screenshot shows the 'Triggers' configuration for the 'Maven-Cl' pipeline. At the top, there are tabs for 'Tasks', 'Variables', 'Triggers' (which is selected and highlighted in yellow), 'Options', and 'History'. Below the tabs are sections for 'Continuous integration', 'Scheduled', and 'Build completion'. Under 'Continuous integration', there's a 'Test Pipeline' section with an 'Enabled' checkbox checked. To the right, under 'Test Pipeline', there are checkboxes for 'Enable continuous integration' and 'Batch changes while a build is in progress'. There are also 'Branch filters' and 'Path filters' sections. The 'Branch filters' section shows a dropdown for 'Type' set to 'Include' and a dropdown for 'Branch specification' set to 'master'. A '+ Add' button is available for both filters.

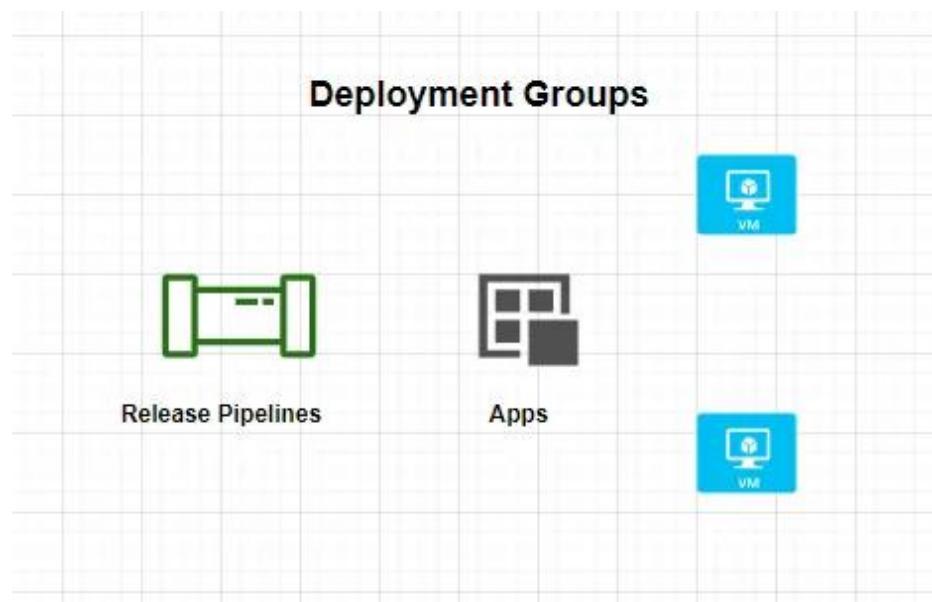
بعد كدا من ال Triggers هنفع ال CI ونختار ال Branch كدا ال تغير في ال Branch هيعمل Run لـ Pipeline

This screenshot shows the 'Runs' page with a table of recent pipeline runs. The columns are 'Description' and 'Stages'. The first run is for '#20241002.2 • Updated pom.xml' with a status of 'Just now' and a duration of '6s'. The second run is for '#20241002.1 • Auto pipeline' with a status of '15m ago' and a duration of '50s'. Both rows show details like 'Batched CI for M master' and commit hash '15b732e2' or '8ec5847e'.

بمجرد ما عملت تعديل على ال Brache Run حصله pipeline بشكل Automatic



ال Deployment Groups : هي مجموعه من ال servers تستخدم كوسيله لتنظيم وادارة عملية ال deploy على البنية التحتية الخاصة بك سواء ال cloud on-prem servers او .



مكوناته :

- 1 ال Agents : ودا المسئوال عن تنفيذ ال Tasks وال deploy على ال Servers
- 2 ال Tags : عشان لو هتعمل Tags لحاجه معينه
- 3 ال Deployment Targets : دي ال servers ال هيتم ال deploy عليها

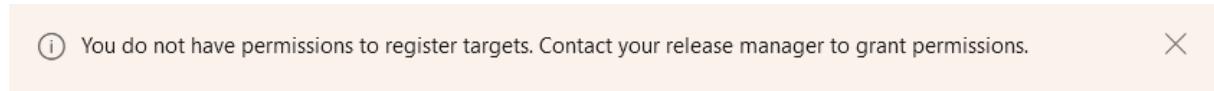
طیب از ای ابد اعمل ال : Deployment groups

The screenshot shows the Azure DevOps Pipelines interface. On the left, there's a sidebar with various navigation options: Overview, Boards, Repos, Pipelines, Pipelines (selected), Environments, Releases, Library, Task groups, Deployment groups (selected), and XAML. The main area is titled 'Deployment groups' and contains tabs for 'Groups' (selected) and 'Available pools'. There are buttons for 'New', 'Security', and 'Help'. A search bar at the top right says 'Search deployment gro...'. The table below has columns for 'Name', 'Target status', and 'Deployment status'. A single row is shown with a minus sign icon.

من ال Deployment groups هتختار ال pipelines وتعمل New Group

The screenshot shows a 'Create Deployment group' form. At the top, it says 'Deployment groups > MydeployGroup\*'. Below that is a 'Deployment group name' field containing 'MydeployGroup'. There's a large 'Description' field with a placeholder 'Enter description...'. At the bottom is a blue 'Create' button.

بعد کدا هتدیله create name وتعمل



Type of target to register:

Windows

System prerequisites

Windows

Linux

```
If(-NOT ([Security.Principal.WindowsPrincipal]::GetCurrent() ).IsInRole([Security.Principal.WindowsBuiltInRole] "Administrator")){ throw "Run command in an administrator PowerShell prompt"};If($PSVersionTable.PSVersion -lt (New-Object System.Version("3.0"))){ throw "The minimum version of Windows PowerShell that is required by the script (3.0) does not match the currently running version of Windows PowerShell." };If(-NOT (Test-Path $env:SystemDrive\azagent)){mkdir $env:SystemDrive\azagent}; cd $env:SystemDrive\azagent; for($i=1; $i -lt 100; $i++){if($destFolder="A"+$i.ToString();if(-NOT (Test-Path ($destFolder))){mkdir $destFolder;cd $destFolder;break;}}; $agentZip="$PWD\agent.zip"; $DefaultProxy=[System.Net.WebRequest]::DefaultWebProxy;$securityProtocol=@(); $securityProtocol+=([Net.ServicePointManager]::SecurityProtocol);
```

بعد كدا بتحدد هو windows ولا Linux

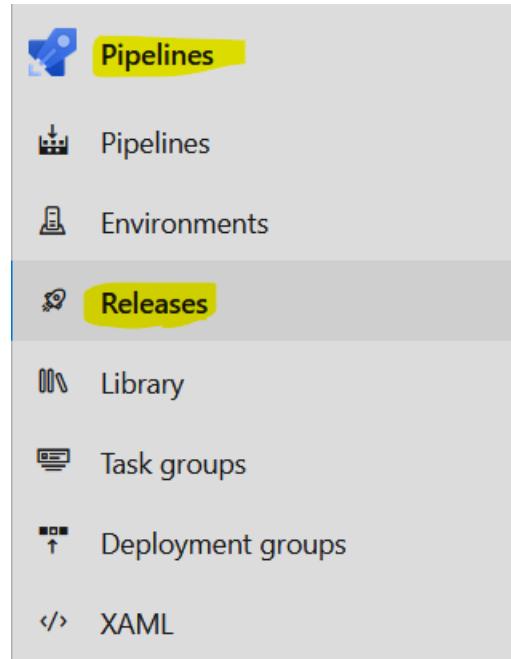
Deployment groups

Groups	Available pools	+ New	Security	Help	
Name			Target status		Deployment status
—					
MydeployGroup			1 Online		1 Never deployed

بعد م بتاخذ ال commands دي وتكلبها على ال server فبيتم اضافته في ال Deeply group

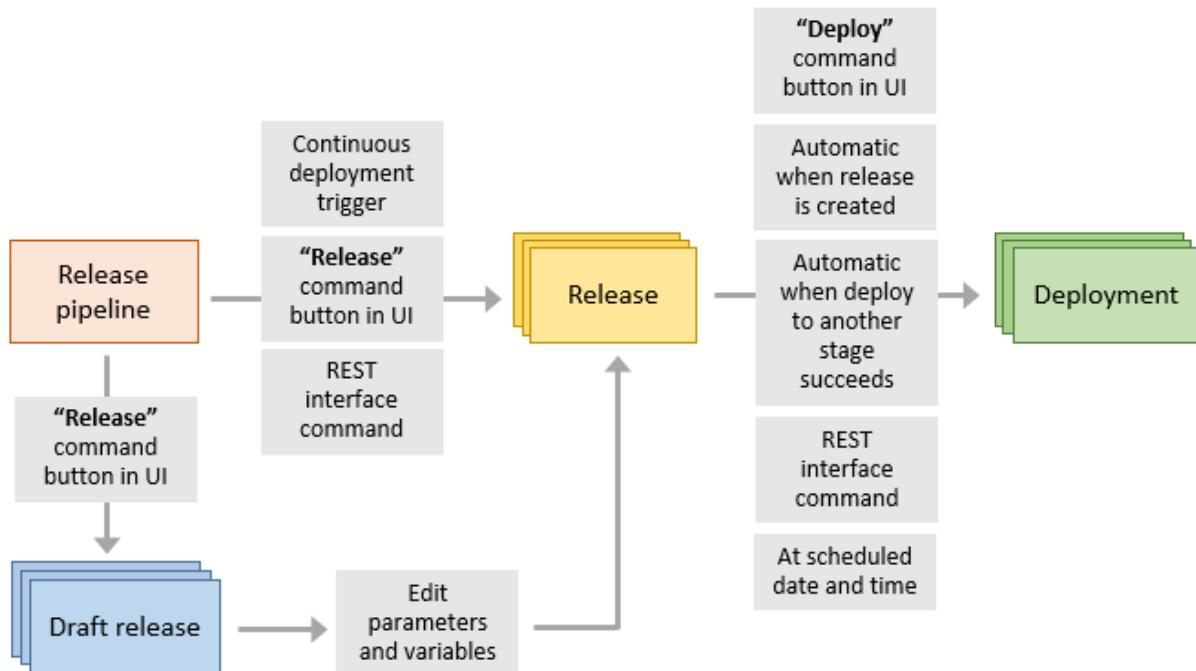
Deployment groups > MydeployGroup	Details	Targets	Save	Share	Security	Help
<span>✓ Healthy (1)</span>						
devops						

لو دخلت في ال deploy group دي ف هتلacci كل ال servers ال تم اضافتهم وهنا انا اضفت app واحد اسمه devops وال devops يتبعه tags server



## ال Releases

تستخدم لإدارة وإطلاق إصدارات البرمجيات في البيئات المختلفة (مثل testing، development، production). تعتبر Releases أداة لتحويل الكود الذي تم بناؤه من خلال Build Pipeline إلى حزم برمجية جاهزة للنشر، ثم نشرها في بيئات متعددة بشكل تلقائي.



A **release** is a construct that holds a versioned set of artifacts specified in a CI/CD pipeline. It includes a snapshot of all the information required to carry out all the tasks and actions in the release pipeline, such as stages, tasks, policies such as triggers and approvers, and deployment options. There can be multiple releases from one release pipeline, and information about each one is stored and displayed in Azure Pipelines for the specified retention period.

A **deployment** is the action of running the tasks for one stage, which can include running automated tests, deploying build artifacts, and whatever other actions are specified for that stage. Initiating a release starts each deployment based on the settings and policies defined in the original release pipeline. There can be multiple deployments of each release even for one stage. When a deployment of a release fails for a stage, you can redeploy the same release to that stage. To redeploy a release, simply navigate to the release you want to deploy and select deploy.

مكونات :

Stage-1 : يمثل بيئه او خطوه محددة في عملية ال deployment مثل عمل لل production على بيئه معينه زي ال App testing او

Artifacts-2 : هي ال Packages او الملفات التي تم انشاءها خلال مرحله ال Build ، وهي ما يتم نشره لاحقا (دي ملفات ال App)

Tasks-3 : دي ال tasks او هيتم تنفيذها في مرحله معينه .

Approvals-4 : اقدر اعمل Approvals عشان اخلي شخص معين يراجع ويعمل Approvals عشان ال deployment في مرحله معينه وبالاخص ال production

Triggers-5 : ممكن اعمل Trigger لـ Automatic deploy بشكل当满足某个条件时触发部署 . build اكمال ال

طيب ازاي ابد اعمل releases ؟

Azure DevOps NTDotNet / AgileTest / Pipelines / Releases

Search

- Overview
- Boards
- Repos
- Pipelines
- Environments
- Releases**
- Library
- Task groups
- Deployment groups
- XAML
- Test Plans

No release pipelines found

Automate your release process in a few easy steps with a new pipeline

New pipeline

من ال New releases هنختار ثم pipeline

All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

You cannot save a release pipeline that contains zero stages.

Artifacts | + Add

Add an artifact

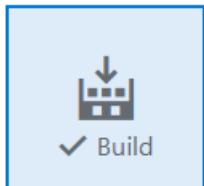
Schedule not set

Stages | + Add

+ Add a stage

هيكون عندي ال stages Artifacts وال

Source type



Build



Azure Repos ...



Github



TFVC

[5 more artifact types ▾](#)

Project \* ⓘ

 ▼

Source (build pipeline) \* ⓘ

 ▼

Default version \* ⓘ

 ▼

Source alias \* ⓘ

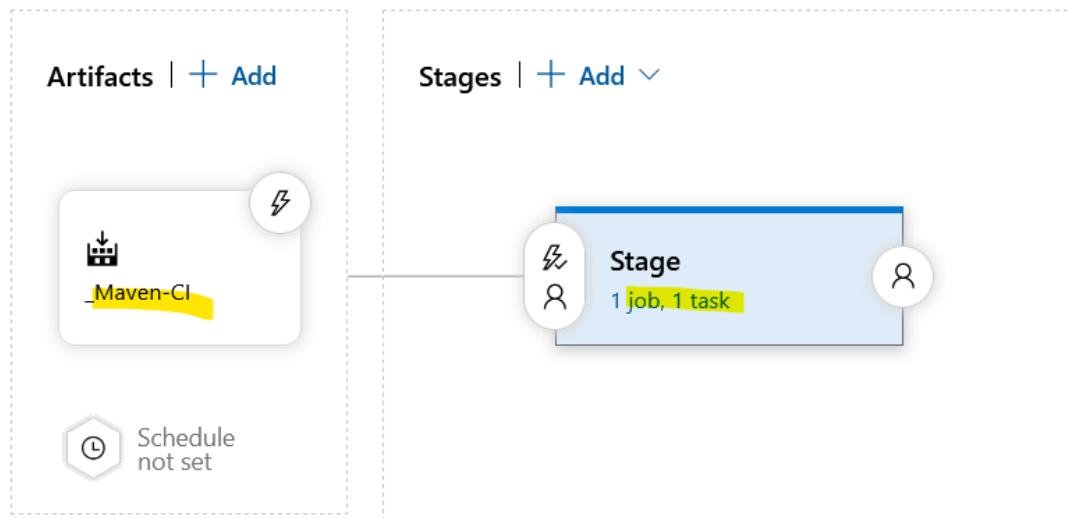
( ⓘ ) The artifacts published by each version will be available for deployment in release pipelines. The latest successful build of **Maven-Cl** published the following artifacts: **drop**.

Add

في ال project هختار ال Pipeline بتاعي وال Artifacts ال شغال عليه

## All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

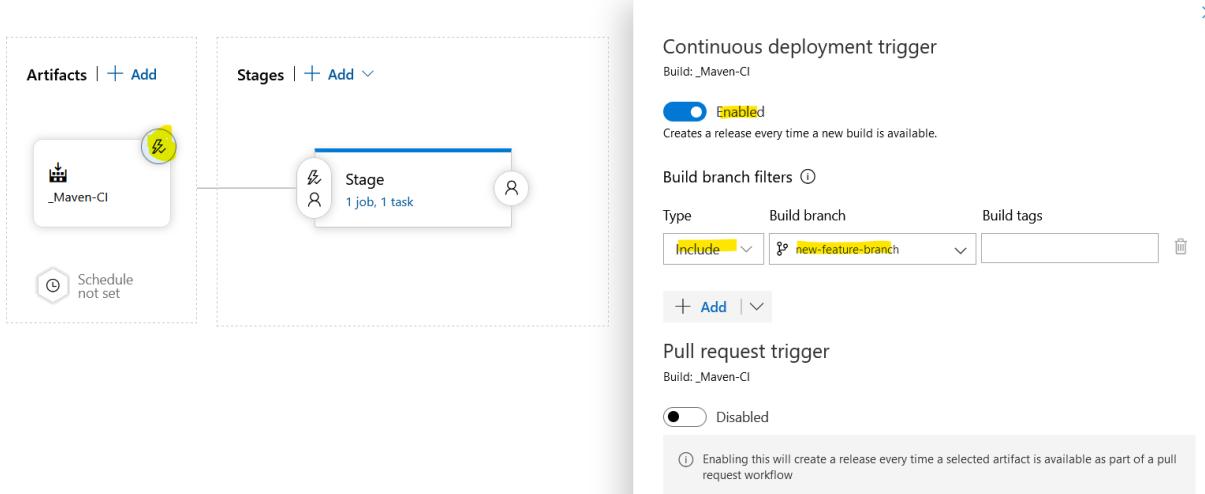


وفي ال Agent هختار ال tasks ببناتي وال stages

## All pipelines > New release pipeline

 Save  Create release  View releases ...

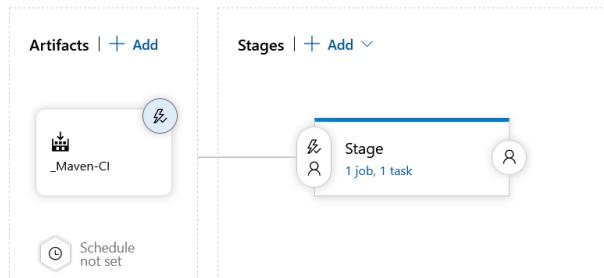
Pipeline Tasks Variables Retention Options History



بعد كدا بعمل enable لـ CD trigger

All pipelines > **New release pipeline**

Pipeline Tasks Variables Retention Options History



بعد كدا بتعمل **create releases**

## Create a new release

New release pipeline

⚡ Pipeline ^

Click on a stage to change its trigger from automated to manual.

---  
Stage

Stages for a trigger change from automated to manual. ⓘ

✓ Stage

artifact Artifacts ^

Select the version for the artifact sources for this release

Source alias	Version
--------------	---------

_Maven-Cl	20241002.2
-----------	------------

Release description

Create

Cancel

بتختار ال **trigger** ال هي ال **stage** ال عملناها

↑ New release pipeline > Release-1

Pipeline Variables History + Deploy ⏺ Cancel ⏴ Refresh Edit ...

**Release**

Manually triggered  
by M mostafa.mahmoud  
10/3/2024, 10:20 AM

Artifacts

↓ \_Maven-Cl  
20241002.2  
master

**Stages**

Stage  
○ Not deployed

Deploy Logs

بعد كدا بنتفتح ال releases هتلaciها بشكل دا هتروح علي ال Stage وتعمل Deploy

--

## Stage

Deploy release

[Overview](#)   [Commits](#)   [Work Items](#)

To be deployed (Deploying for the first time)

Release-1

## Artifacts



## Comment

test\_releases

[Deploy](#)

[Cancel](#)

بِتَكْبِيلْ Comment وَتَضْغِطْ

New release pipeline > Release-2 > Stage < In progress

[Pipeline](#)   [Tasks](#)   [Variables](#)   [Logs](#)   [Tests](#)   [Deploy](#)   [Cancel](#)   [Refresh](#)

## Deployment process

In progress

### Agent job

In progress

### Agent job

Pool: self-hosted · Agent: self-hosted agent

#### Initialize job

```
*****
Starting: Initialize job
*****
Agent name: 'self-hosted agent'
Agent machine name: 'devops'
Current agent version: '3.244.1'
Agent running as: 'mostafa'
Prepare release directory.
ReleaseId=2, TeamProjectId=c035a9c0-6231
Release folder: /home/mostafa/myagent/_v
Environment variables available are below
ReleaseDefinition) by replacing "_" with
in the ReleaseDefinition;
```

ال Run pipeline هيدا يتعلمه

↑ New release pipeline > Release-3 ▾

Pipeline Variables History + Deploy Cancel Refresh Edit ...

Release	Stages
<p>Manually triggered by M mostafa.mahmoud 10/3/2024, 11:11 AM</p> <p>Artifacts</p> <p> _Maven-Cl 20241002.2 master</p>	<p>Stage ✓ Succeeded on 10/3/2024, 11:12 AM</p>

خلاص کدا خلاص و عمل کل ال Tasks ای کانت موجوده

--

Branches	Pipelines
Mine All Stale	<p> Maven-Cl build #20241002.2 succeeded ✓ continuous-integration/build/Maven-Cl</p> <p> New release pipeline continuous-deployment/release/New release pipeline ✓</p>

ولو روحت علی ال Branches هتلaciيها انها هي اخر حاجه تمت بالفعل .

طيب لو عاوز اضيف ال deployment Group ال عملتها قبل كدا ؟

All pipelines > New release pipeline

Pipeline Tasks Variables Retention Options History

Stage Deployment process

Agent job Run on agent

...

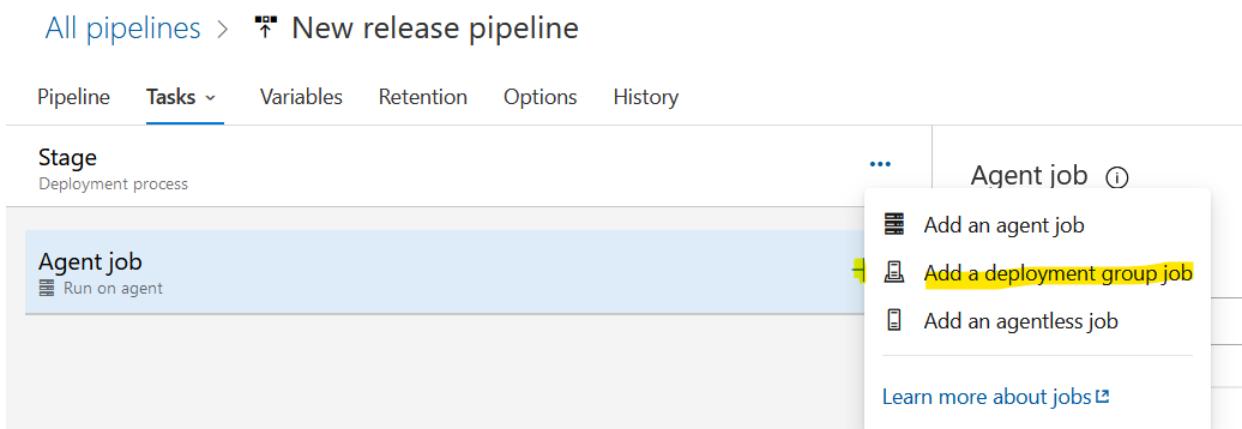
Agent job

Add an agent job

Add a deployment group job

Add an agentless job

Learn more about jobs



هتعمل Edit لـ Releases وفي ال Tasks على ال Agent Job هتعمل Add Deployment Group Job

All pipelines > New release pipeline

Save Create release View releases ...

Pipeline Tasks Variables Retention Options History

Stage Deployment process

Agent job Run on agent

Deployment group job Run on deployment group

...

Deployment group job

Remove

Display name \*

Deployment group job

Deployment targets ^

Deployment group \*

MydepolyGroup

Required tags

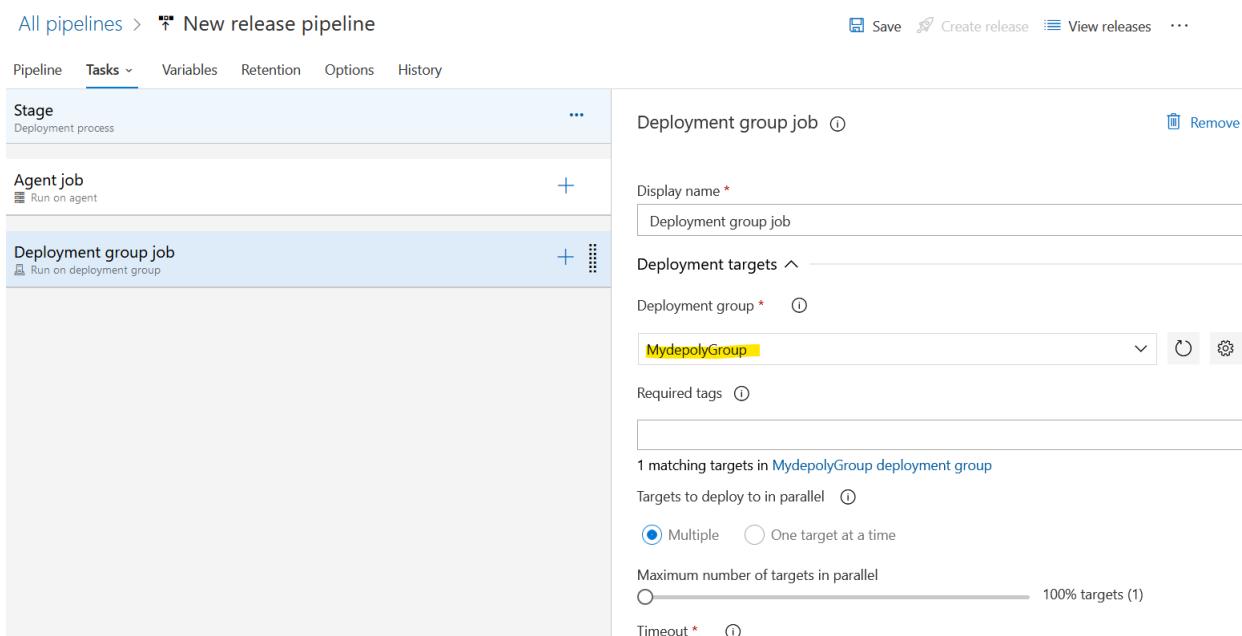
1 matching targets in MydepolyGroup deployment group

Targets to deploy to in parallel

Multiple One target at a time

Maximum number of targets in parallel

Timeout \*



هنا هتحتار ال Deployment Group ال عندك

## All pipelines > New release pipeline

Pipeline **Tasks**  Variables Retention Options History

### Stage

Deployment process

...

### Agent job

 Run on agent

+



### Deployment group job

 Run on deployment group

+

ال Tasks مثلا ال هتنفذ اني هعمل Install لـ Docker على ال Group دي

Deployment process  
In progress

 Agent job  
Succeeded

 Deployment group job  
In progress

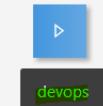
Deployment group job  
Deployment group: MydeployGroup

0 PENDING

0 SUCCEEDED

0 FAILED

1 IN-PROGRESS



هنا بينفذ ال tasks على ال Deployment Group

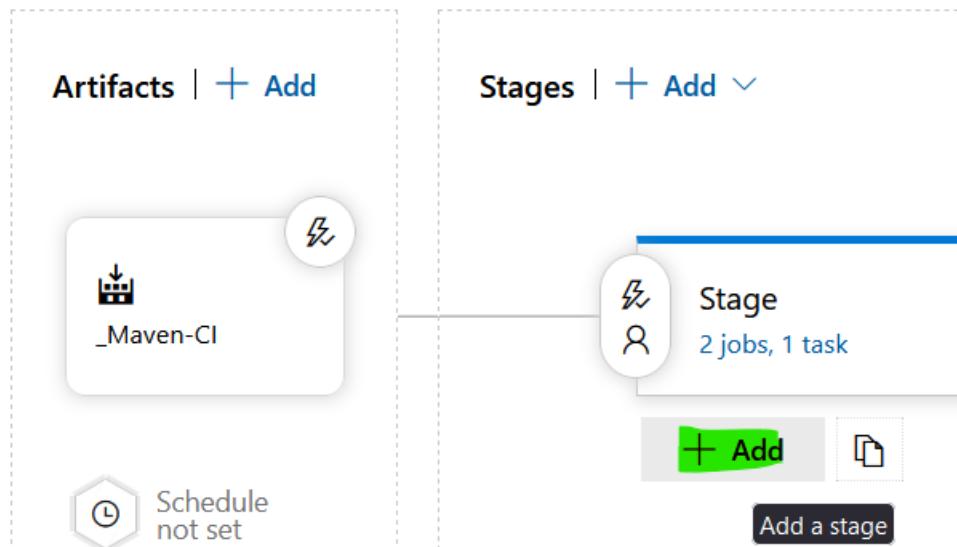
The screenshot shows the Azure DevOps Pipeline interface. At the top, it says "New release pipeline > Release-4 > Stage < Succeeded". Below this, there are tabs for Pipeline, Tasks, Variables, Logs (which is selected), Tests, Deploy, Cancel, Refresh, Download all logs, Edit, and more. On the left, under "Deployment process", there are two items: "Agent job" (Succeeded) and "Deployment group job" (Succeeded). The main area is titled "Agent job" and shows a pool of "self-hosted" agent. It lists four tasks: "Initialize job" (succeeded), "Download artifact - \_Maven-Cl - drop" (succeeded), "Install Docker 17.09.0-ce" (succeeded), and "Finalize Job" (succeeded).

## کدا خلاص ال Deployment

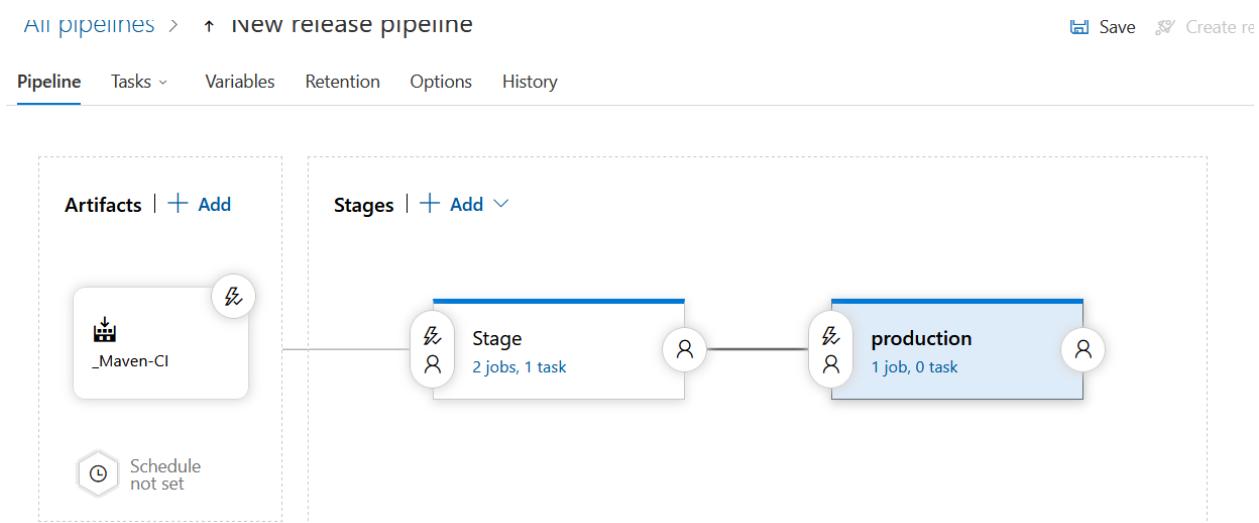
```
[mostafa@devops ~]$ cd /home/mostafa/myagent/_work/_tool/docker-stable/
[mostafa@devops docker-stable]$ ls
17.9.0-ce
[mostafa@devops docker-stable]$ /home/mostafa/myagent/_work/_tool/docker-stable/17.9.0-ce/x64/docker --version
Docker version 17.09.0-ce, build afdb6d4
[mostafa@devops docker-stable]$
```

لو رونا علي ال Targets ال موجود في ال Deployment Group وبالتحديد في ال path `_work` هنلاقي في ال Tool ان ال Docker بالفعل اتمله  
ودا مثل بسيط جدا علي ال Deployment group Pipeline وال Pipeline

طيب كل دا علي ال Stage ف ازاي ابدا ارفع الكلام دا علي ال Live او ال production



هنه عمل اول حاجه Add stage جديده



هسمي ال Stage دی Production واي حاجه قبل م تتعمل علي ال Production هتتعمل علي ال Stage

## Create a new release

X

New release pipeline

### Pipeline ^

Click on a stage to change its trigger from automated to manual.



Stages for a trigger change from automated to manual. ⓘ

#### Stage (+1)

- Select all
- Stage
- production

Source alias	Version	▼
_Maven-CI	20241002.2	

Release description

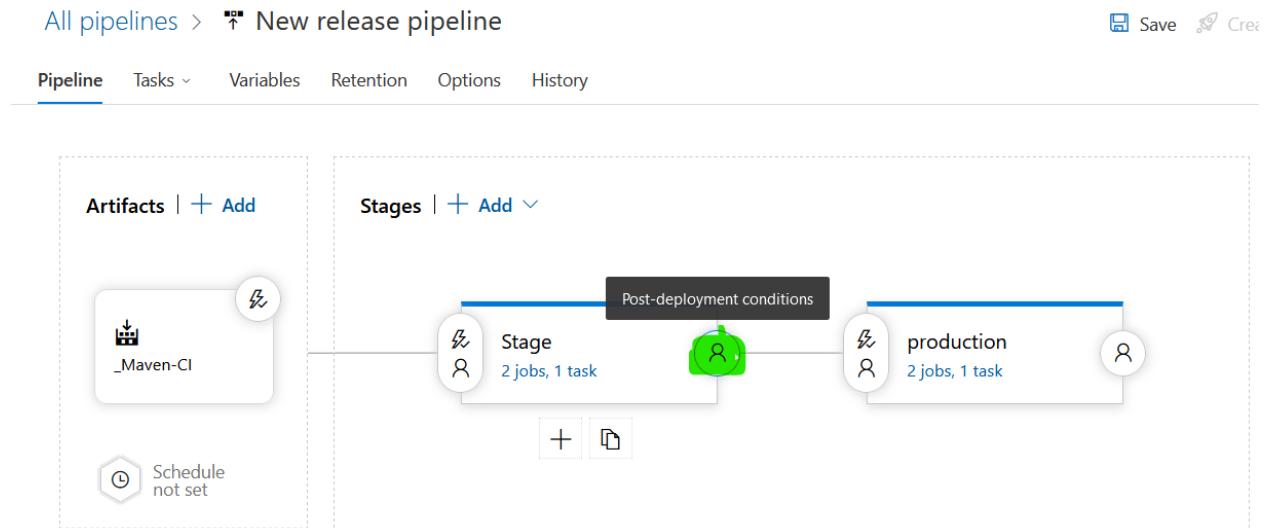
Create

Cancel

هذا عمل create Releases

--

طيب عاوزين مفيش حاجه تحصل علي ال Approve غير لما حد يعمل Production يعني دلوقت في حصل علي ال Stage المفروض هيرح عطول يحصل علي ال Production ف انا عاوز امنع الكلام دا يحصل اه علي ال Stage لكن ال Deployment ميحصلش علي Production غير لما فيه Approve يحصل :



من هنا هتضغط على العالمه دي ال اسمها post-deployment conditions

The screenshot shows the 'Post-deployment conditions' configuration dialog. It has sections for 'Approver' (set to 'mostafa.mahmoud'), 'Timeout' (set to 30 days), and 'Approval policies'. The 'Gates' section is disabled. The 'Enabled' toggle switch is turned on.

هتعمل Approve و هتختر الشخص ال هيعمل Enable

↑ New release pipeline > Release-8 ▾

Pipeline Variables History | + Deploy ▾ Cancel Approve multiple Refresh Edit ...

Release	Stages
<p>Manually triggered by mostafa.mahmoud 10/3/2024, 12:35 PM</p> <p>Artifacts  _Maven-Cl 20241002.2 master</p>	<p>Stage Pending approval</p> <p>View approval</p> <p>  </p> <p>production Not deployed</p>

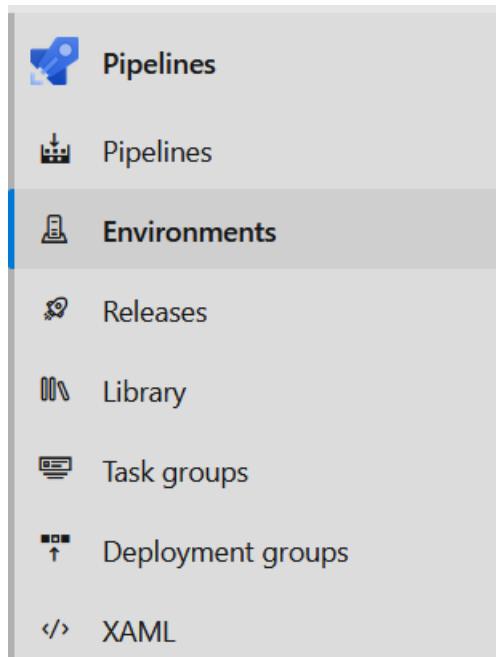
هیکون محتاج Approve عشان یتعمله . Department

↑ New release pipeline > Release-8 ▾

Pipeline Variables History | + Deploy ▾ Cancel Refresh Edit ...

Release	Stages
<p>Manually triggered by mostafa.mahmoud 10/3/2024, 12:35 PM</p> <p>Artifacts  _Maven-Cl 20241002.2 master</p>	<p>Stage Succeeded</p> <p>on 10/3/2024, 12:38 PM</p> <p>production Succeeded</p> <p>on 10/3/2024, 12:39 PM</p>

وبکدا ال deployment تم



ال Environments : تمثل Groups من resources التي تقوم بعمل App deployment لـ .  
بتعاونك عليها ، مثل ال VM او K8s او اي infra تانية .

ال benefits الخاصة بيها :

- Deployment history
- Traceability of commits and work items
- Diagnostic resource health
- Security

طيب ازاي تعمله create

A screenshot of the Azure DevOps Pipelines interface. On the left, there's a sidebar with various navigation items: Overview, Boards, Repos, Pipelines, Environments (which is currently selected), Releases, Library, Task groups, Deployment groups, and XAML. The main area has a title "Create your first environment" with a sub-instruction "Manage deployments, view resource status and get full end to end traceability". Below this is a blue "Create environment" button. To the right of the button is a cartoon illustration of a painter and a dog.

فی ال new env هتعمل env

## New environment

X

Name ⓘ

Staging

Description ⓘ

Describe the environment

Resource

None  
You can add resources later

Kubernetes  
Add Kubernetes namespace

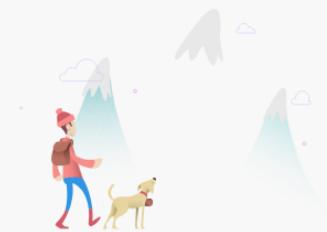
Virtual machines  
Manage virtual machines

Create

بتديله name

← myenv

Deployments Approvals and checks



**Get started!**

Your environment is ready to use in pipeline YAML  
environment: myenv

To get full end to end traceability per resource

Add resource

وهنا بتبدا تضيف ال Resource

--

## Add resource

Resource



Kubernetes

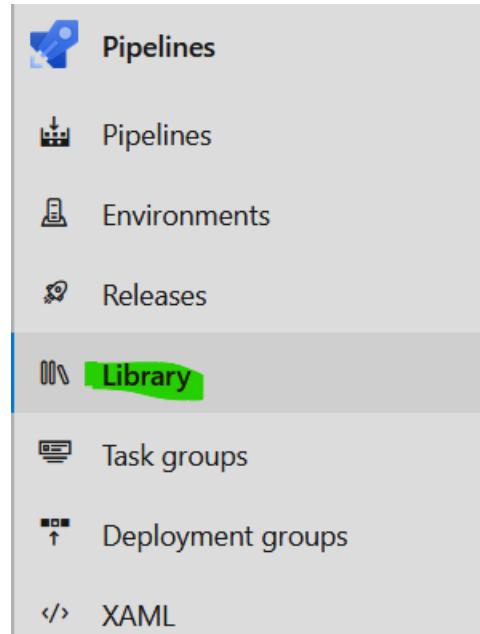
Add Kubernetes namespace



Virtual machines

Manage virtual machines

تقدر تضيف VM او K8s



ال Library :

library assets اکثر استخدم ال collection of assets هي  
project multiple pipelines في ال  
بنتكون من :

Library

Variable groups Secure files

values and secrets : بخزن فيها Variable groups

هـي store files الـ secure way : Secure files

can use across project pipelines without having to commit them to your repository.

طـيـب اـزـاي اـعـملـه ؟ Create

Library

Variable groups Secure files + Variable group ⚡ Security ⚡ Help

(x)

New variable group

Create groups of variables that you can share across multiple pipelines.

+ Variable group

Learn more about variable groups.

Azure Pipelines sidebar:

- Overview
- Boards
- Repos
- Pipelines
- Environments
- Releases
- Library
- Task groups
- Deployment groups
- XAML

من ال library هروح على ال New variable groups وهمل

Library > My var Group\*

Variable group Save Clone Security Pipeline permissions Approvals and checks Help

Properties

Variable group name

My var Group

Description

Link secrets from an Azure key vault as variables ⓘ

Variables

Name ↑	Value	⋮
testing	test	⋮

+ Add

عملت variables link موجود في ال Azure Key هنا تقدر تعمل

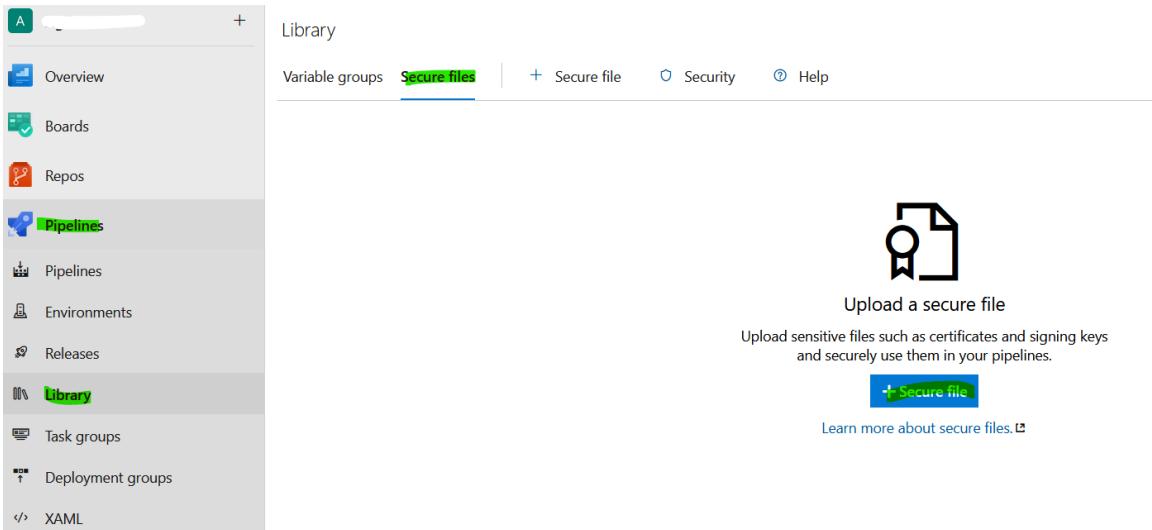
## Library

Variable groups Secure files + Variable group Security Help

Name ↴	Date modified	Modified by
--------	---------------	-------------

fx My var Group	just now	 mostafa.mahmoud
-----------------	----------	---

كدا عملنا variable



The screenshot shows the Azure DevOps Library interface. On the left is a sidebar with navigation links: Overview, Boards, Repos, Pipelines, Pipelines (selected), Environments, Releases, Library (selected), Task groups, Deployment groups, and XAML. The main area is titled 'Library' and contains tabs for 'Variable groups' (selected) and 'Secure files'. Below the tabs is a table with columns: 'Name ↴', 'Date modified', and 'Modified by'. A single entry is listed: 'fx My var Group' (modified just now by mostafa.mahmoud). To the right of the table is a large 'Upload a secure file' button with a document icon, and a note: 'Upload sensitive files such as certificates and signing keys and securely use them in your pipelines.' There is also a link 'Learn more about secure files.'

هذا لو عاوز تعمل New secure file من ال Library هتروج على secure file وتعمل New secure file على ال Library هنقولك اعمل Browse على ال files بناعنك

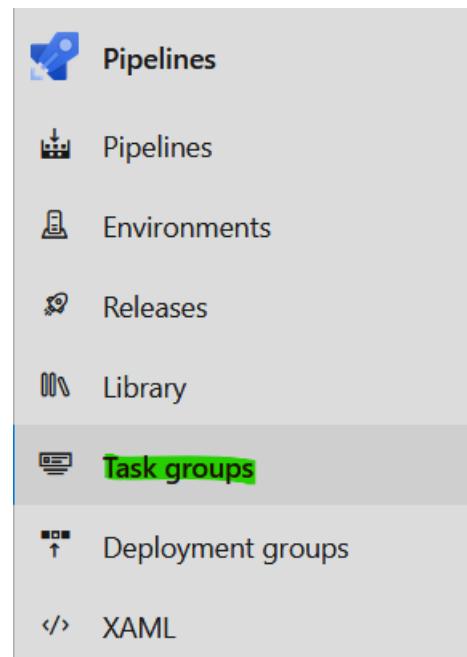
## Library

Variable groups Secure files + Secure file Security Help

Name ↴	Date modified	Modified by
--------	---------------	-------------

s.png	just now	 mostafa.mahmoud
-------	----------	---

وهذا كدا عملنا secure file



## ال : Tasks Groups

بجمع اکثر من Group في tasks عشان اکثر استخدمها في اکثر من Pipelines او حتى لو هي متقعره بعملها عطول ف هنا يجي فائدة ال tasks group انها بتتوفر عليا بدل انها اكتب ال tasks في كل مره

## طيب ازاي اعملها : Create

The screenshot shows the Azure Pipelines interface for a pipeline named "Get sources" targeting the "master" branch. An "Agent job 1" is listed under "Run on agent". A context menu is open over the "Use NuGet" task, with the "Create task group" option highlighted in green. Other options in the menu include "Enable selected task(s)", "Disable selected task(s)", "Remove selected task(s)", and "Clone task(s)". Below the menu, other tasks are listed: "NuGet restore", "Build solution", "Test Assemblies", "Publish symbols path", and "Publish Artifact". Each task has a checkmark icon and a three-dot ellipsis button.

- Enable selected task(s)
- Disable selected task(s)
- Remove selected task(s)
- Clone task(s)

+ Create task group

- Manage task group

Agent job 1	Run on agent	<input checked="" type="checkbox"/>	...
Use NuGet	NuGet tools	<input checked="" type="checkbox"/>	...
NuGet restore	NuGet	<input checked="" type="checkbox"/>	...
Build solution	Visual Studio build	<input checked="" type="checkbox"/>	...
Test Assemblies	Visual Studio Test	<input checked="" type="checkbox"/>	...
Publish symbols path	Index sources and publish symbols	<input checked="" type="checkbox"/>	...
Publish Artifact	Publish build artifacts	<input checked="" type="checkbox"/>	...

وانت بتعمل ال tasks اول مره تحدد ال tasks ال عاوزها تكون في ال Group وتعمل Task Group

## Create task group

Name \*

Description

Category ⓘ

هندیله name و تعمل Create

--

ASP.NET-CI

Task group task Group NuGet 4.4 has been created.

Tasks Variables Triggers Options History Save & queue Discard ...

Pipeline Build pipeline

Get sources pipelines-dotnet-core master

Agent job 1 Run on agent +

Task group: task Group NuGet 4.4 task Group NuGet 4.4

NuGet restore NuGet

هتلacie موجود معنك

Task groups > task Group NuGet 4.4

Tasks History References Refresh Save Export ...

task Group NuGet 4.4

Version 1.\*



Use NuGet 4.4.1

NuGet tool installer

Export هتعلمه

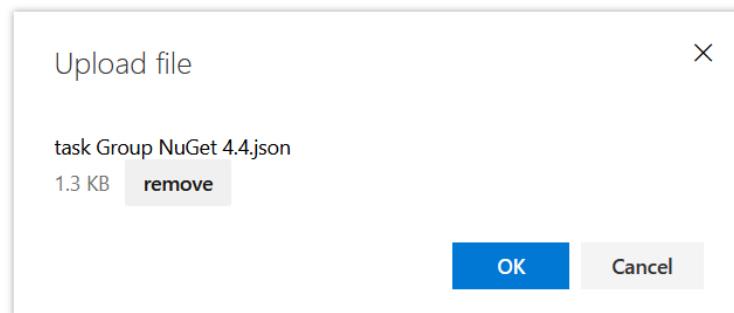
 Task groups |  Import  Security

Name ↑	Modified by
task Group NuGet	mostafa.mahmoud
task Group NuGet 4.4	mostafa.mahmoud

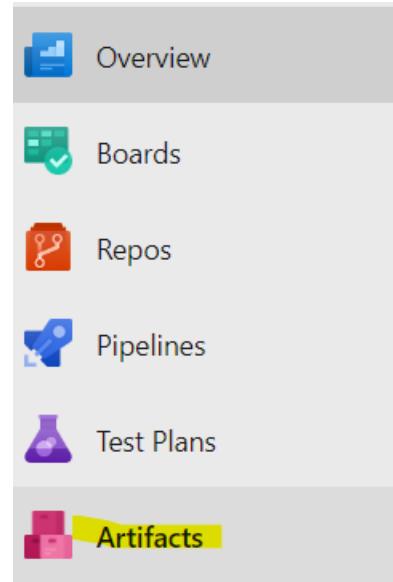
هتلقيه ظهر معالك في ال Task Groups

 Task groups |  Import  Security

Name ↑	Modified by
task Group NuGet	mostafa.mahmoud
task Group NuGet 4.4	mostafa.mahmoud



وتقدر تعمله Import من جهازك



ال : Azure Artifacts

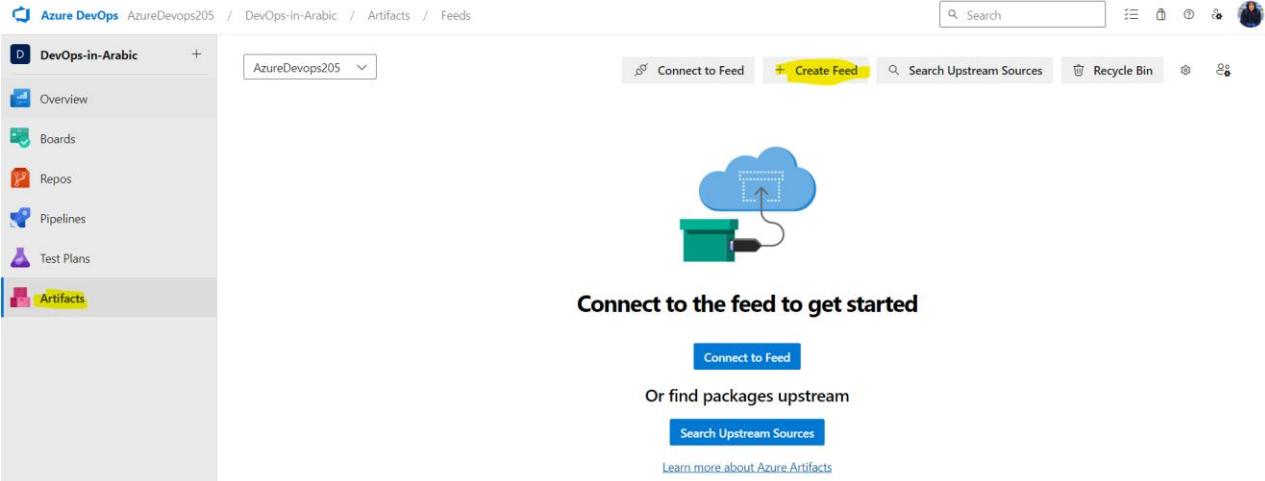
NuGet Maven packages زی ال package Management بیسمح بمشاركة ال و ال npm وال

لیه بستخمه : هو بیسهول علیا اني اعمل manage لل dependencies من مكان واحد زی مثلما:

- Publish packages to feeds and share them within teams, across organizations, or publicly.
- Consume packages from various feeds and public registries like NuGet.org or npmjs.com.
- Use supported package types include NuGet, npm, Python, Maven, Cargo, and Universal Packages.

طیب ازایی ابدا اعمل ? Create

اول حاجه بنعمل Feed وال Feed دا هو المستودع ال هيكون فيه ال Packages



The screenshot shows the Azure DevOps interface for managing artifacts. On the left, there's a sidebar with options like Overview, Boards, Repos, Pipelines, Test Plans, and Artifacts (which is currently selected). The main area has a heading "Connect to the feed to get started" with a "Connect to Feed" button. Below it, there's a section for finding packages upstream with a "Search Upstream Sources" button and a link to "Learn more about Azure Artifacts". At the top right, there are buttons for "Create Feed" (highlighted in yellow), "Search", "Recycle Bin", and other account-related options.

من Artifacts Feed هنعمل create

## Create new feed

Feeds host your packages and let you control permissions.

myfeed

### Visibility

Members of your Microsoft Entra tenant

Any member of your Microsoft Entra tenant can view the packages in this feed

Members of AzureDevops205

Any member of your organization can view the packages in this feed

Specific people

Only users you grant access to can view the packages in this feed

### Upstream sources

Include packages from common public sources

For example: nuget.org, npmjs.com

### Scope

Project: DevOps-in-Arabic (Recommended)

The feed will be scoped to the DevOps-in-Arabic project.

Organization

Cancel

Create

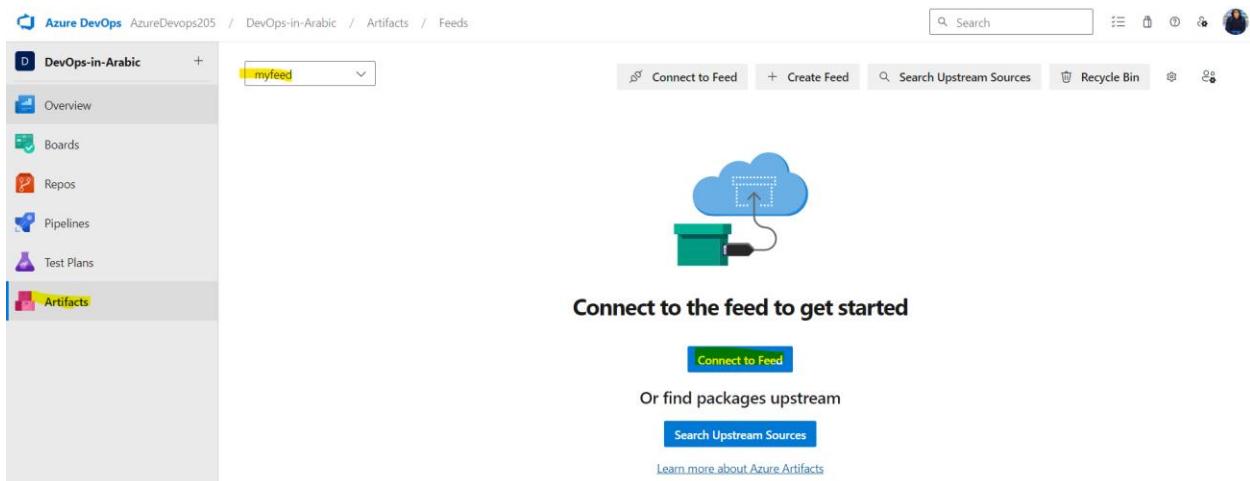
اول حاجه هي ال name الخاص بال Feed دا  
 ثانيا ال visibility : مين ال هيقدر يشوف ال feed دي  
 Microsoft Members of your Microsoft Entra tenant  
 لو اختارت دا اي حد في ال Members of AzureDevops205  
 organization هنا اي حد في ال organization  
 يقدر يوصلها Entra tenant

Members of AzureDevops205  
 هنا هتعمل users permission ل معينه هي ال تقدر توصل لـ fees  
 ثالثا ال Upstream sources من public sources include packages  
 عشان لو فيه packages عدك معتمده علي NuGet.org أو npmjs.com

رابعا ال Scope : هنا بتحدد ال feed دا خاصه بال Project دا فقط ولا لكل ال Organization

--

طيب ازاي ابدا اعمل feed مع Connect ؟

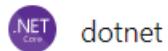


من ال Artifacts هنفتح ال feed بتاعتك وتعمل connect to feed

--

← Connect to feed  
myfeed

NuGet



dotnet



NuGet.exe



Visual Studio

npm



npm

Maven



Maven



Gradle

Python



PIP

pip

هتختار ال Project Java هو Maven لان ال packages ال محتاجها وانا هنا اختارت Maven

[Get the tools](#)[Command line reference](#)

ⓘ First time using Azure Artifacts with Maven on this machine?

[Get the tools](#)

## Project setup

Add the repo to **both** your pom.xml's <repositories> and <distributionManagement> sections

```
<repository>
  <id>myfeed</id>
  <url>https://pkgs.dev.azure.com/AzureDevops205/DevOps-in-Arabic/_packaging/myfeed/maven/v1</url>
  <releases>
    <enabled>true</enabled>
  </releases>
  <snapshots>
    <enabled>true</enabled>
  </snapshots>
</repository>
```

Add or edit the settings.xml file in \${user.home}/.m2

```
<settings xmlns="http://maven.apache.org/SETTINGS/1.0.0"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.0.0
                              https://maven.apache.org/xsd/settings-1.0.0.xsd">
  <servers>
    <server>
      <id>myfeed</id>
      <username>AzureDevops205</username>
      <password>PERSONAL ACCESS TOKEN</password>
    </server>
  </servers>
</settings>
```

ف بېبىدأ يقولك ازاي تىدا تجهىز ال Package دى

```
[mostafa@devops Test%20Pipeline]$ mvn install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< helloworld:helloworld >-----
[INFO] Building Hello world sample web app 1.0-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ war ]-----
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.pom (8.2 kB at 6.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.pom (8.2 kB at 6.7 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/39/maven-plugins-39.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/39/maven-plugins-39.pom (8.1 kB at 82 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/39/maven-parent-39.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/39/maven-parent-39.pom (48 kB at 358 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/29/apache-29.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/apache/29/apache-29.pom (21 kB at 247 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.3.1/maven-resources-plugin-3.3.1.jar (31 kB at 392 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.13.0/maven-compiler-plugin-3.13.0.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-compiler-plugin/3.13.0/maven-compiler-plugin-3.13.0.pom

[INFO]
[INFO] -----[ tests ]-----
[INFO] T E S T S
[INFO] -----
[INFO] Running MyTest
I am covered
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.303 s -- in MyTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- jacoco:0.8.2:report (report) @ helloworld ---
[INFO] Loading execution data file /home/mostafa/Test%20Pipeline/target/jacoco.exec
[INFO] Analyzed bundle 'Hello world sample web app' with 1 classes
[INFO]
[INFO] --- war:3.4.0:war (default-war) @ helloworld ---
```

بعد كدا بتعمل Install maven command عن طريق ال path في ال project بال الخاص

```
[INFO] Installing /home/mostafa/Test%20Pipeline/target/helloworld.war to /home/mostafa/.m2/repository/org/apache/maven/plugins/maven-war-plugin/3.4.0/maven-war-plugin-3.4.0.war
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 35.381 s
[INFO] Finished at: 2024-10-04T08:26:23-04:00
[INFO]
[INFO] mostafa@devops Test%20Pipeline]$ mvn deploy
[INFO] Scanning for projects...
[INFO]
[INFO] -----< helloworld:helloworld >-----
[INFO] Building Hello world sample web app 1.0-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ war ]-----
```

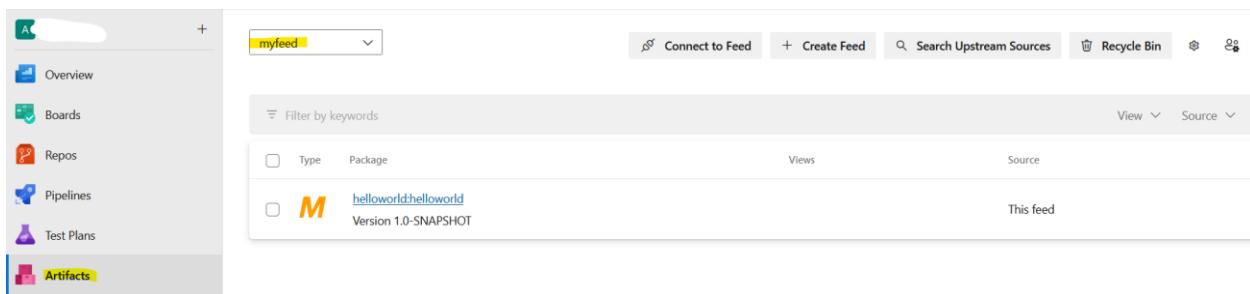
و هنا ال Build كان success

```

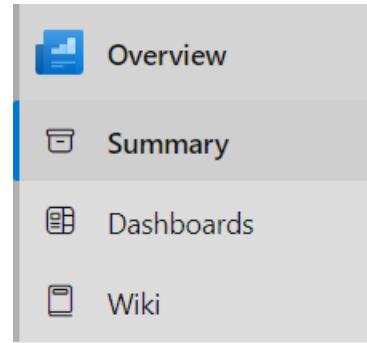
[INFO] Tests run: 2, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- jacoco:0.8.2:report (report) @ helloworld ---
[INFO] Loading execution data file /home/mostafa/Test%20Pipeline/target/jacoco.exec
[INFO] Analyzed bundle 'Hello world sample web app' with 1 classes
[INFO]
[INFO] --- war:3.4.0:war (default-war) @ helloworld ---
[INFO] Packaging webapp
[INFO] Assembling webapp [helloworld] in [/home/mostafa/Test%20Pipeline/target/helloworld]
[INFO] Processing war project
[INFO] Copying webapp resources [/home/mostafa/Test%20Pipeline/src/main/webapp]
[INFO] Building war: /home/mostafa/Test%20Pipeline/target/helloworld.war
[INFO]
[INFO] --- install:3.1.2:install (default-install) @ helloworld ---
[INFO] Installing /home/mostafa/Test%20Pipeline/pom.xml to /home/mostafa/.m2/repository/helloworld
[INFO] Installing /home/mostafa/Test%20Pipeline/target/helloworld.war to /home/mostafa/.m2/repository/helloworld
[INFO]
[INFO] --- deploy:3.1.2:deploy (default-deploy) @ helloworld ---
Downloading from myfeed: https://pkgs.dev.azure.com/NTDotNet/AgileTest/_packaging/myfeed/maven/v1/

```

وهنا بعد م عملت ال **deploy**



واخيرا هنا بعد ما عملت كل الخطوات وخلصت فيبيدا يظهر معاك في ال **feed**



هنتكلم **project overview** هي **Overview** عن ال project .  
هنا بتعمل **Project Describe** لـ **Summary** بتاعك عشان يكون مفهوم بنسبه لكل ال users .  
طيب من خلالها تقدر تعمل او تعرض اي ؟

- View project information
- View project activity
- Favorite a project
- Email or initiate a chat with a team member
- Initiate a search across your project
- View project information
- Email or initiate a chat with a team member
- View project activity
- Add a short project description
- Choose a README file or wiki for project information
- Invite people to contribute to your project
- Set project tags

**DevOps-in-Arabic**

**CI/CD Project**

**Languages**

- JavaScript
- CSS

**Contributing**

This project welcomes contributions and suggestions. Most contributions require you to agree to a Contributor License Agreement (CLA) declaring that you have the right to, and actually do, grant us the rights to use your contribution. For details, visit <https://cla.microsoft.com>.

When you submit a pull request, a CLA-bot will automatically determine whether you need to provide a CLA and decorate the PR appropriately (e.g., label, comment). Simply follow the instructions provided by the bot. You will only need to do this once across all repos using our CLA.

This project has adopted the [Microsoft Open Source Code of Conduct](#). For more information see the [Code of Conduct FAQ](#) or contact [opencode@microsoft.com](mailto:opencode@microsoft.com) with any additional questions or comments.

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**Boards**

**Repos**

**Pipelines**

**Members**

من ال هتختر ال dashboard وتبدا تعدل وتضيف علي حساب انت محتاج اي

: dashboard ال

To view performance metrics and important data in the project

يعني ممكن اعمل Widgets يعرضلي عدد ال pipeline او حاله ال pull Request وهكذا

**DevOps-in-Arabic**

**DevOps-in-Arabic Team - backup Dash...**

Modified 4m ago by Mostafa Mahmoud , Refreshed 3 minutes ago

**Add a widget**

من ال Dashboards هتختر ال overview

Add, edit, move or resize your widgets **Done Editing**

**Add Widget**

Search widgets

- Assigned to Me**  
Allows team members to quickly view and manage work assigned to them.
- Build History**  
Shows the build history of a selected build pipeline.
- Burndown**  
Displays burndown across multiple teams and multiple sprints. Create a release burndown or bug burndown.
- Burnup**  
Displays burnup across multiple teams and multiple sprints. Create a release burnup or bug burnup.

Don't see a widget? Explore the [Extension Gallery](#)

**Add**

ببدا اختيار الحاجه ال محتاج اعرضها فال **dashboard**

Add, edit, move or resize your widgets **Done Editing**

**Work assigned to Mostafa Mahmoud (11)**

ID	State	Title
12	New	🏆 The Second Feature
2	New	🏆 The First Feature
13	New	>User story N1 F2
11	New	📦 The third task in User Story N1
10	New	📦 The second task in User Story N2

**Add Widget**

Search widgets

- Assigned to Me**  
Allows team members to quickly view and manage work assigned to them.
- Build History**  
Shows the build history of a selected build pipeline.
- Burndown**  
Displays burndown across multiple teams

ول يكن هعرض ال Work assigned بعد كدا

Azure DevOps AzureDevops205 / DevOps-in-Arabic / Overview / Dashboards

**DevOps-in-Arabic Team - backup Dash...**

Modified Just now by Mostafa Mahmoud . Refreshed less than a minute ago **Edit**

**Work assigned to Mostafa Mahmoud (11)**

ID	State	Title
12	New	🏆 The Second Feature
2	New	🏆 The First Feature
13	New	>User story N1 F2
11	New	📦 The third task in User Story N1
10	New	📦 The second task in User Story N2

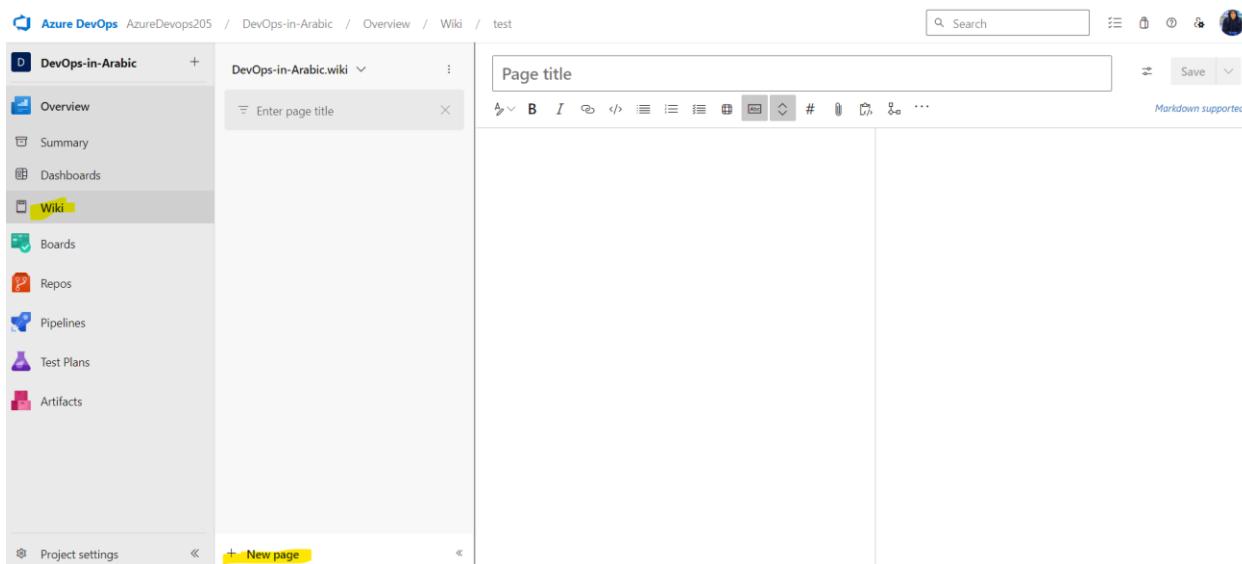
فهلاقيها ظهرت معايا في ال **Dashboards**

## ال Wiki

Use your team project wiki to share information with other team members. When you provision a wiki from scratch, a new Git repository stores your Markdown files, images, attachments, and sequence of pages. This wiki supports collaborative editing of its content and structure.

هو مكان لتوثيق كل ما يتعلق بالمشروع. يمكنك استخدامه لإنشاء صفحات توثيق تحتوي على إرشادات، تعليمات، خطط المشاريع، وأي معلومات تحتاج إلى مشاركتها مع الفريق

باستخدام تنسيق **Markdown**



من ال Wiki overview هتختار New Wiki ثم New page لو كنت عامل wiki قبل كدا

The screenshot shows the Microsoft Azure DevOps Wiki interface. On the left, there is a code editor window containing Mermaid syntax. On the right, there is a list of tasks under "User Story 13: user story N1 F2".

```
[ #13]()
| | | |
::: mermaid
graph LR;
A[Wiki supports Mermaid] --> B[Visit https://mermaidjs.github.io/ for Mermaid syntax];
:::
|---#11
@Mostafa Mahmoud> |---|
| | | |
::: mermaid
graph LR;
A[Wiki supports Mermaid] --> B[Visit https://mermaidjs.github.io/ for Mermaid syntax];
:::
- | | | #21! [Screenshot 2024-10-04 122444.png] (./attachments/Screenshot%202024-10-04%20122444-8ffdfb48-9883-4b94-90e7-97ff2a1fc615.png) `` |
#12
```

User Story 13: user story N1 F2

|||||

|---| 11 The third task in User Story N1 | New  
@Mostafa Mahmoud |---|

|||||

Load diagram

Load diagram

Overview

بتبدأ تضييف الانت محتاجه

The screenshot shows the Microsoft Azure DevOps Wiki interface. On the left, there is a sidebar with navigation options like "Enter page title", "Mostafa", and "+ New page". On the right, there is a detailed view of a task card.

DevOps-in-Arabic.wiki

Mostafa

Mostafa Mahmoud Just now

User Story 13: user story N1 F2

|||||

Wiki supports Mermaid → Visit https://mermaidjs.github.io/ for Mermaid syntax

|---| 11 The third task in User Story N1 | New  
@Mostafa Mahmoud |---|

|||||

Wiki supports Mermaid → Visit https://mermaidjs.github.io/ for Mermaid syntax

Overview

Summary

Dashboards

Wiki

#21  
12 The Second Feature | New

هتلقيها ظهرت معاك في ال Wiki

By: Mostafa Mahmoud Bahgat

LinkedIn: <https://www.linkedin.com/in/mostafamahmoudbahgat>