

Azure DevOps Assignment - 1

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NOTES :

Goals are simply tools to focus your energy in positive directions

Azure DevOps
Day 1

DevOps is the union of people, process and products to enable continuous delivery of value to your end user.

Develop programming languages → Operations Deployable Package

Azure DevOps :-
There are various tools in Azure DevOps.

Azure Boards → plan, track and discuss work across teams

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The goal of life is living in agreement with nature

Azure Repos :- unlimited cloud hosted private
Git Repos.

Azure Pipelines :- CI/CD Continuous Integration /
Continuous Delivery / Deployment
that works with any language, platform
and cloud.
Connect to Git, deploy to any cloud.

Azure Repos

- Works with Git client
- Web hooks and API integration
- Semantic code search.

Azure Boards

- Connected from idea to release
- Scrum ready
- project insights

Azure Pipelines

- any language, any platform, any cloud.
- Extensible.
- Containers, Best-in-class for open source.

Happy people plan actions, they don't plan results

Azure Test Plans

- Run tests and log defects from browser.
- track and access quality throughout your testing lifecycle.

Azure Artifacts

- Create, share Maven, npm package feeds from public and private sources
- manage all package types.
- share code efficiently

Hands On :

A screenshot of a web browser displaying the Azure DevOps landing page. The URL in the address bar is portal.azure.com/#view/AzureTfsExtension/OrganizationsTemplateBlade. The page features a large central illustration of a rocket launching from a platform, surrounded by clouds and various icons representing software development and deployment. To the left of the illustration, the text "Azure DevOps" is displayed in blue, followed by the subtitle "Plan smarter, collaborate better, and ship faster with a set of modern dev services". Below this, there are links to "My Azure DevOps Organizations", "Get started using Azure DevOps", and "Billing management for Azure DevOps". The top navigation bar includes links for "Health", "English", "TCS", "Python", "YouTube", "Amazon.in", and "DE". A search bar at the top right contains the placeholder "Search resources, services, and docs (G+)".

A screenshot of a Microsoft profile page for the user "azuser1046". The profile picture is a red circle containing a white letter "A". The user's name "azuser1046" and email "azuser1046_mml.local@iiht.onmicrosoft.com" are displayed. Below the profile information, the location "IIHT" and "India" are listed, along with the email again. A section titled "Visual Studio Dev Essentials" describes the service as providing tools for building and deploying apps. To the right of the profile, there is a "Get started with Azure DevOps" section featuring the same rocket launch illustration and subtitle. Below this, the text "Plan better, code together, ship faster with Azure DevOps" is shown, followed by a blue "Create new organization" button. The top navigation bar shows the Microsoft logo and the user's name "azuser1046".

Creating Project in the organization :

The screenshot shows the Azure DevOps interface for creating a new project. On the left, there's a sidebar with a user profile (azuser1046mmilocal), a 'New organization' link, and sections for 'What's new' (Sprint 234 announcement) and 'Organization settings'. The main area features a central illustration of a person working on a laptop with a dog nearby. The title 'Create a project to get started' is at the top, followed by a 'Project name' input field containing 'my-project-Hexa-DE'. Below it is a 'Visibility' section with two options: 'Public' (radio button not selected) and 'Private' (radio button selected). A note states: 'Public projects are disabled for your organization. You can turn on public visibility with organization policies.' A large blue 'Create project' button is at the bottom right.

The screenshot shows the Azure DevOps 'Summary - Overview' page for the project 'my-project-DEB-Hexa'. The left sidebar includes links for Overview, Summary, Dashboards, Wiki, Boards, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main content area has a title 'my-project-DEB-Hexa' and a 'Welcome to the project!' message. It features another central illustration of a person working on a laptop with a dog. Below the illustration, there are tabs for Boards, Repos, Pipelines, Test Plans, and Artifacts. The 'Artifacts' tab is currently active. To the right, a 'Project stats' section displays a chart icon and the message 'No stats are available at this moment. Setup a service to see project activity.' There are also 'Private' and 'Invite' buttons at the top right of the main content area.

The screenshot shows the 'Work items - Boards' page in Azure DevOps. The left sidebar is titled 'my-project-DEB-Hexa' and includes options like Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The main area is titled 'Work items' and has a sub-header 'Recently updated'. It features a search bar and filters for Types, Assigned to, States, Area, and Tags. A large orange circular icon with a white 'L' and a circular arrow is centered above the text 'Find recently updated items'. Below it, there's a link to 'Learn more about work items'.

Creating Work items in Azure boards:

The screenshot shows the 'Epic 1: Data_engineering_project' work item details page. The left sidebar is identical to the previous screenshot. The main area displays the 'Data_engineering_project-1' epic. It shows the following details:

- Unassigned** (Status)
- To Do** (Status)
- Area**: my-project-DEB-Hexa
- Reason**: Added to backlog
- Iteration**: my-project-DEB-Hexa\Sprint 1
- Description**: Integrate Azure Databricks with Azure Data Factory to load data into a data warehouse (e.g., Azure Synapse Analytics) using parallel processing capabilities of Databricks for efficient data loading.
- Planning**: Priority 3, Start Date 22-02-2024 00:00, Target Date 24-02-2024 00:00
- Related Work**: Add link, Add an existing work item as a parent

A red circle with the letter 'A' is overlaid on the 'Discussion' section, which contains a placeholder text: 'Add a comment. Use # to link a work item, ! to link a pull request, or @ to mention a person.'

Azure DevOps - Microsoft Azure | My Information | Task 2: Data_engineering_project-1 | dev.azure.com/azuser1046mmilocal/my-project-DEB-Hexa/_workitems/edit/2/

Health English TCS Python YouTube Amazon.in DE

Azuser1046mmilocal / my-project-DEB-Hexa / Boards / Work items

Search

my-project-DEB-Hexa

Overview Boards Work items Boards Backlogs Sprints Queries Delivery Plans Analytics views Repos Pipelines Test Plans Artifacts Project settings

Recently updated | Back to Work Items

2 of 3 ↑ ↓

2 Data_engineering_project-1

Unassigned 1 comment Add tag

State To Do Area my-project-DEB-Hexa
Reason Added to backlog Iteration my-project-DEB-Hexa\Sprint 1

Description Planning Deployment

Discussion Priority 1 Activity Requirements Remaining Work 2

A Add a comment. Use # to link a work item, ! to link a pull request, or @ to mention a person.

A azuser1046 commented 2m ago This is the first step

Save Follow Details

Updated by azuser1046 2m ago

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

Development

+ Add link Link an Azure Repos commit, pull request or branch to see the status of your development. You can also create a branch to get started.

Related Work

Azure DevOps - Microsoft Azure | My Information | Issue 3: DE_project-1_processing-issue | dev.azure.com/azuser1046mmilocal/my-project-DEB-Hexa/_workitems/edit/3/

Health English TCS Python YouTube Amazon.in DE

Azuser1046mmilocal / my-project-DEB-Hexa / Boards / Work items

Search

my-project-DEB-Hexa

Overview Boards Work items Boards Backlogs Sprints Queries Delivery Plans Analytics views Repos Pipelines Test Plans Artifacts Project settings

Recently updated | Back to Work Items

1 of 3 ↑ ↓

3 DE_project-1_processing-issue

Unassigned 0 comments Add tag

State To Do Area my-project-DEB-Hexa
Reason Added to backlog Iteration my-project-DEB-Hexa\Sprint 1

Description Planning Deployment

Issue in parallel processing of databricks Priority 2 Effort 3

A Add a comment. Use # to link a work item, ! to link a pull request, or @ to mention a person.

Save Follow Details

Updated by azuser1046 Just now

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

Development

+ Add link Link an Azure Repos commit, pull request or branch to see the status of your development. You can also create a branch to get started.

Related Work

Created Epic, Task, Issue in Azure boards :

The screenshot shows the 'Work items' section in the Azure DevOps Boards hub. The sidebar on the left is titled 'my-project-DEB-Hexa' and includes links for Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The 'Work items' link is currently selected. The main area displays a table of work items with the following data:

ID	Title	Assigned To	State	Area Path	Tags
3	DE_project-1_processing-issue	Unassigned	To Do	my-project-DEB-Hexa	
2	Data_engineering_project-1	Unassigned	To Do	my-project-DEB-Hexa	
1	Data_engineering_project-1	Unassigned	To Do	my-project-DEB-Hexa	

Created queries to find desired results :

The screenshot shows the 'My Queries' section in the Azure DevOps Boards hub. The sidebar on the left is titled 'my-project-DEB-Hexa' and includes links for Overview, Boards, Work items, Backlogs, Sprints, Queries, Delivery Plans, Analytics views, Repos, Pipelines, Test Plans, Artifacts, and Project settings. The 'Queries' link is currently selected. The main area displays a table of queries with the following data:

Title	Last modified by
Assigned to me	azuser1046 updated 2 hours ago
first_query	azuser1046 updated just now
Followed work items	azuser1046 updated 2 hours ago

Screenshot 1: Query 'first_query' - Boards

The screenshot shows the Azure DevOps interface for a project named 'my-project-DEB-Hexa'. The user is viewing a query titled 'first_query' under the 'Queries' section. The query results are displayed in a table:

ID	Work Item...	Title	Assigned To	State	Tags
3	Issue	DE_project-1_processing-issue	...	To Do	

Screenshot 2: Untitled query - Boards

The screenshot shows the same Azure DevOps interface, but the query title is now 'Untitled query'. The query results are displayed in a table:

ID	Work Item...	Title	Assigned To	State	Tags
2	Task	Data_engineering_project-1	...	Doing	