Agile Devops Tools – Azure Boards – Visualize Manage Work

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✅ **Epic 3 – Task 2: Azure Boards (Scrum / Kanban)**

## 1. ✅ **Purpose**:

Learn how to use **Azure Boards** to manage work using **Scrum or Kanban**, visualize progress, and track project tasks efficiently.

## 2. 📘 **Theory**:

* **Azure Boards** is a powerful Agile project management tool in **Azure DevOps**.
* It provides support for:
  + **Scrum**: Iteration-based Agile (Sprints, Backlog, Velocity).
  + **Kanban**: Flow-based system (Work In Progress limits, Continuous delivery).
* Boards allow you to **visualize work**, assign to team members, set priorities, track status.
* **Key Components**:
  + **Backlogs**: Lists of items like Epics, Features, User Stories, Bugs.
  + **Boards**: Visual task board to manage work items.
  + **Sprints**: Iteration planning, capacity management, charts.
  + **Queries**: Custom filters to track work items based on conditions.

## 3. 🛠️ **Prerequisites**:

* Azure DevOps organization and project created.
* Basic understanding of work items (Epics, Features, Stories).

## 4. 💻 **Practical Steps: Create & Use Azure Boards**

### ➤ Step 1: Open Azure Boards

* Go to [https://dev.azure.com](https://dev.azure.com/) → Open your project.
* From the left menu, click **Boards** → Choose **Boards** or **Backlogs**.

### ➤ Step 2: Add Work Items

* On the **Board**, click New Work Item → Choose **User Story**, **Bug**, or **Task**.
* Fill title, description, assign to member, set priority/state.

### ➤ Step 3: Customize Columns (Kanban)

* Click ⚙️ (Settings) → Columns.
* Add stages like: To Do, In Progress, Testing, Done.

### ➤ Step 4: Enable **Scrum View** (Backlogs/Sprints)

* Go to **Backlogs** → Enable **Epics, Features, Stories**.
* Create **Iterations** (Sprints) under Project Settings > Project Configuration > Iterations.
* Add tasks to the current sprint.
* Use **Sprint Board** to move tasks during the sprint.

### ➤ Step 5: Visualize Progress

* Use **Chart**, **Capacity Planning**, and **Cumulative Flow Diagram** under Sprints.

## 5. 🗂️ **Project Snapshot**:

Azure DevOps Project:

├── Boards/

│ ├── Epics

│ ├── Features

│ ├── User Stories

│ ├── Tasks

│ └── Bugs

├── Sprints/

│ ├── Sprint 1

│ ├── Sprint 2

│ └── Sprint N

└── Dashboards/

└── Charts, Velocity

## 6. 📝 **Summary**:

* Azure Boards support both **Scrum and Kanban**.
* Use it to plan iterations (Sprints), manage and assign tasks, and monitor progress visually.
* Boards are customizable and support different Agile styles based on team needs.