

## Activity: Working with Azure DevOps and Visual Studio

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### Step 1: Create a New Project in Azure DevOps

1. Go to [Azure DevOps](#) and sign in.
  2. Click on **New Project**.
  3. Enter a project name (e.g., MyFirstADOProject).
  4. Choose **Private** for visibility (or Public if desired).
  5. Select **Git** as the version control system.
  6. Click **Create**.
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### Step 2: Clone Repository in Visual Studio

1. Open **Visual Studio**.
  2. Go to **View > Git Changes** (if not already visible).
  3. Click on **Clone Repository**.
  4. Select **Azure DevOps** from the options.
  5. Choose the newly created project and repository.
  6. Select a local folder to store the repository.
  7. Click **Clone**.
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### Step 3: Create a New Branch in Visual Studio

1. In Visual Studio, open **Git Changes**.
2. Click on the **branch dropdown** (next to "Current Branch").
3. Click **New Branch**.
4. Enter a branch name (e.g., feature-add-files).
5. Ensure **main** is selected as the base branch.

6. Click **Create Branch**.
  7. Make sure you switch to the new branch.
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#### Step 4: Add New Files

1. Right-click the project in **Solution Explorer**.
  2. Click **Add > New Item**.
  3. Choose a file type (e.g., **Class**, **Markdown file**, **Text File**, etc.).
  4. Name the file (e.g., NewFeature.cs).
  5. Add some content to the file.
  6. Save the file.
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#### Step 5: Commit Changes in Visual Studio

1. Open **Git Changes**.
  2. The newly created files should be listed under **Changes**.
  3. Enter a commit message (e.g., "Added NewFeature.cs").
  4. Click **Commit** (this commits locally but does not push to the remote repository yet).
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#### Step 6: Push Changes to Azure DevOps Repository

1. Click **Push** in the **Git Changes** window.
  2. Wait for the push operation to complete.
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#### Step 7: Create a Pull Request (PR) in Azure DevOps

1. Go to **Azure DevOps** in your browser.
2. Navigate to **Repos > Branches**.
3. Find your branch (feature-add-files).
4. Click on **New Pull Request**.

5. Ensure **main** is the target branch.
  6. Add a **title** and **description**.
  7. Click **Create**.
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#### **Step 8: Approve and Merge the Pull Request**

1. If required, assign reviewers.
2. Click **Approve** (if you have the required permissions).
3. Click **Complete Merge**.
4. Select **Delete branch after merge** (optional).
5. Click **Merge**.