# Problem Statement:

Rotas Inc. a logistics company has a website that faces high traffic. Due to this, they have to scale the application depending on the workload. They have decided to use Docker-based deployment. A further requirement is that the Docker image can be used for another similar website, thus reducing the effort for another development. So, the Dev process is using Docker-based deployment. As a task, you have to create a local Web application using Docker and deploy this to Azure Container registry through Azure DevOps.

# Steps to Perform:

* Create an ASP.NET core application
* Enable docker support for the application
* Create an Azure Container Registry in Azure
* Check in the solution to Azure Repos
* Create an Azure pipeline to deploy the application as an image to the Azure Container Registry

# Solution

1. Create an ASP.NET core application:

\* Open Visual Studio and select "Create a new project."

\* Select "ASP.NET Core Web Application" as the project type.

\* Choose an appropriate name and location for your project.

\* Select "Web Application" as the project template and click "Create."

2. Enable Docker support for the application:

\* Right-click on the project in the Solution Explorer and select "Add > Docker Support."

\* Choose the appropriate Docker options and click "OK."

3. Create an Azure Container Registry in Azure:

\* Log in to the Azure portal and navigate to the Azure Container Registry.

\* Click "Create" and fill in the required information, such as the registry name and resource group.

4. Check in the solution to Azure Repos:

\* Open the solution in Visual Studio and select "View > Team Explorer."

\* Connect to Azure Repos and check in the solution.

5. Create an Azure pipeline to deploy the application as an image to the Azure Container Registry:

\* In Azure DevOps, create a new pipeline and choose the appropriate repository and branch.

\* Select the Docker template and configure the pipeline to build the Docker image and push it to the Azure Container Registry.

\* Save and run the pipeline to deploy the application as a Docker image to the Azure Container Registry.

By following these steps, you can easily create a local Web application using Docker and deploy it to Azure Container registry through Azure DevOps.