To create CI/CD pipeline for a .Net MVC application, we need to install plugins to use in the Jenkins

Go to Manage Plugins

Find and install the MsBuild Plugin.

> Click on 'New Item' on jenkins dashboard

> Enter the name of the item you want to create and then select 'freestyle project' and click on 'Ok' button.

> In the Source Code section, Select your Git repository. provide the URL of the repository and the branch name from which you want to deploy the code.

> Build triggers can be added if you want the build to be triggered automatically.

> In the build environment, make sure you choose to clean the Jenkins workspace before the build starts.

****Nuget Resrore:****

When we commit the code in the repository we don't commit the packages, so first we have to restore the NuGet packages.

Add the restore command under the Build section

nuget restore <projectPath> [options]

The [restore command](https://docs.microsoft.com/en-us/nuget/tools/cli-ref-restore" \t "https://dzone.com/articles/_blank) from the NuGet CLI downloads and installs any packages missing from the packages folder.

Once the command is entered, you can see packages folder created with all NuGet dependencies

****MSBuild:****

Now we can actually execute MSBuild command.

This command requires that the MSBuild plugin be installed in Jenkins, path to the sln file and optionally we can also provide the PackageFileName  attribute in the command line with path and package name.

Provide information on: MSBUILDVERSION , MSBUILD BUILD FILE , COMMAND LINE ARGUMENT

**Command:**

/t:clean;build;package /p:PackageFileName="path of MVC.zip file"

****MSDeploy:****

Msdeploy commad can be used to deploy zip created in previous step to be deployed to IIS.

Provide the required batch command.

****Post Build/Deploy actions:****

You can add various post build actions like sending email notifications, archiveing the deloyale artifact etc