Create NuGet CI/CD pipeline

Create new project in Azure DevOps.

Clone empty repo

Open the Nuget solution and check that the build compilation is working with no errors.
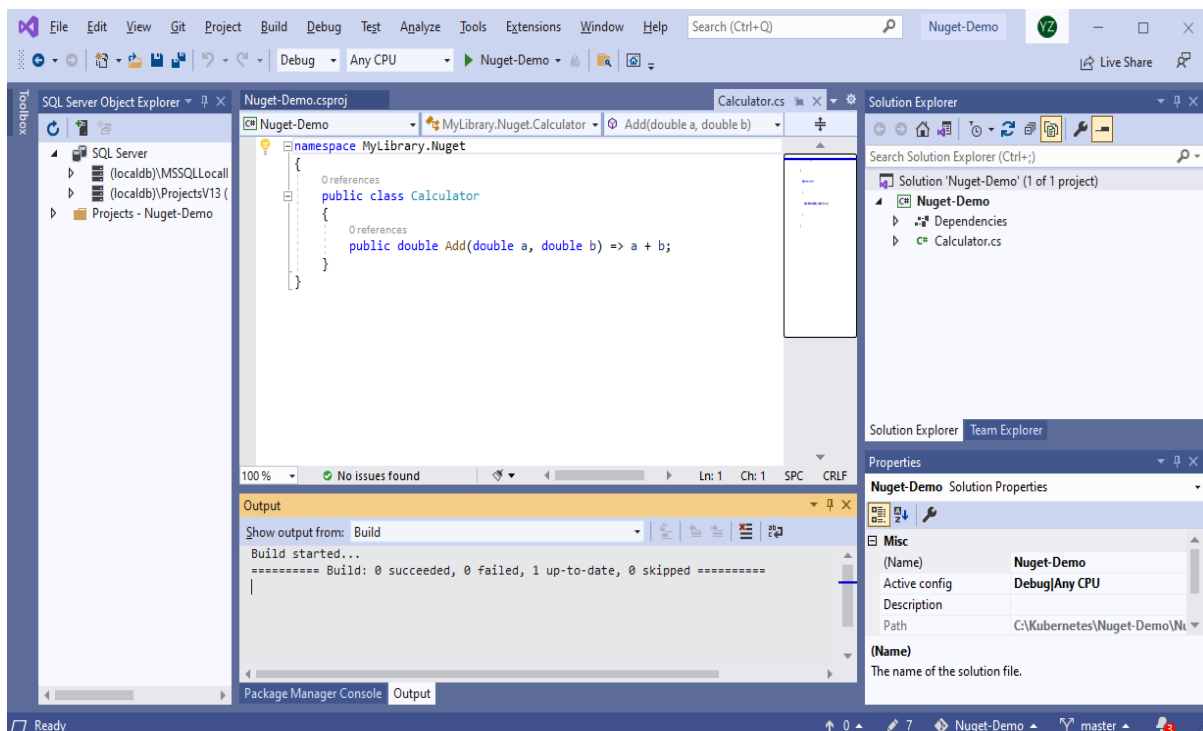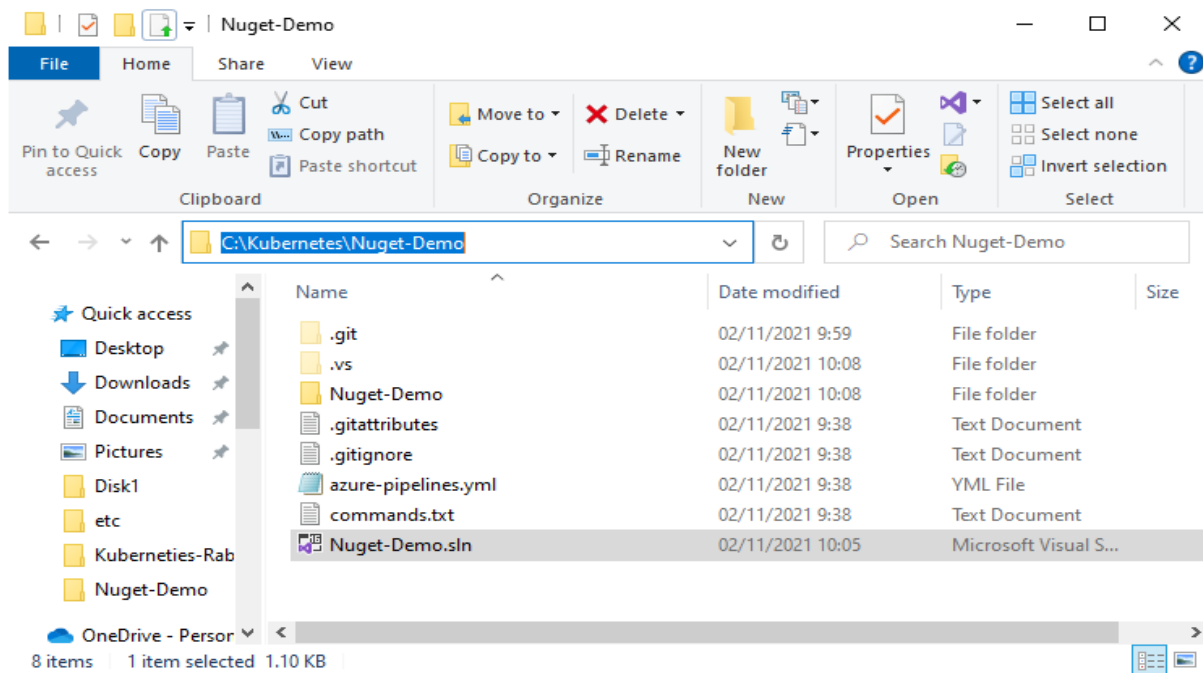
Commit and push to repo on Azure DevOps.
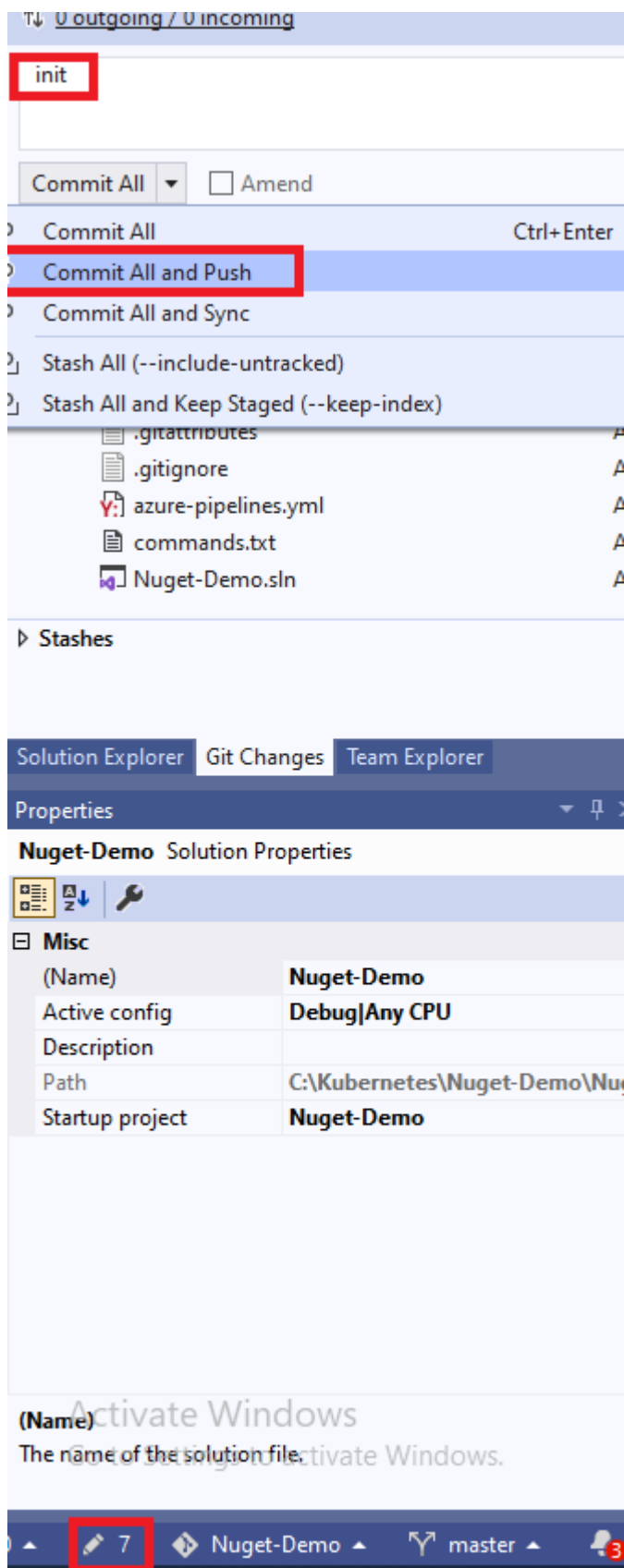
Now the reop in Azure DevOps contains the files.

Go to Artifacts and create new feed
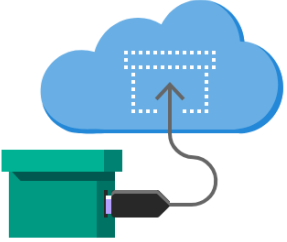
Create new feed

✕

Feeds host your packages and let you control permissions.

Name

Nuget-Demo

This name will appear in the URL for your feed

Visibility

○ Members of your Azure Active Directory
Any member of your AAD can view the packages in this feed

● Members of AllianceBuildServer
Any member of your organization can view the packages in this feed

○ Specific people
Only users you grant access to can view the packages in this feed

Upstream sources

☐ Include packages from common public sources

For example: nuget.org, npmjs.com

Scope

● Project: Nuget-Demo (Recommended)
The feed will be scoped to the Nuget-Demo project. Learn more.

○ Organization

Activate Windows
Go to Settings to activate Windows.

Cancel | Create

Create new pipeline

Create your first Pipeline

Automate your build and release processes using our wizard, and go from code to cloud-hosted within minutes.

Create Pipeline

New pipeline

Where is your code?

Azure Repos Git [YAML]
Free private Git repositories, pull requests, and code search

Bitbucket Cloud [YAML]
Hosted by Atlassian

GitHub [YAML]
Home to the world's largest community of developers

GitHub Enterprise Server [YAML]
The self-hosted version of GitHub Enterprise

Other Git
Any generic Git repository

Subversion
Centralized version control by Apache

Use the classic editor to create a pipeline without YAML.

New pipeline

Select a repository

Filter by keywords   **Nuget-Demo** ⌄   ✕

Nuget-Demo

Remove the 'push' task

```
    Settings
  - task: DotNetCoreCLI@2
    inputs:
      command: 'push'
      packagesToPush: '$(Build.ArtifactStagingDirectory)/*.nupkg'
      nuGetFeedType: 'internal'
      publishVstsFeed: 'fb88a87b-67b7-41b4-be61-67d32036fe1a/f5f2b936-eb62-49bd-b5a4-14c10ad3931e'
```

Click show assistant and select .NET Core

⊞ Show assistant

.NET Core
Build, test, package, or publish a dotnet applicatio...

Select nuget push

← .NET Core ⓘ

Command * ⓘ

build ⌄

✓ build

nuget push

pack

publish

restore

run

test

custom

← .NET Core ⓘ

Command * ⓘ

| nuget push | ⌄ |

Path to NuGet package(s) to publish * ⓘ

$(Build.ArtifactStagingDirectory)/*.nupkg

Target feed location *

◉ This organization/collection

○ External NuGet server (including other organizations/collections)

Target feed * ⓘ

| Nuget-Demo | ⌄ |

Advanced ⌄

About this task   **Add**

Push task added to pipeline script

```
Settings
- task: DotNetCoreCLI@2
  inputs:
    command: 'push'
    packagesToPush: '$(Build.ArtifactStagingDirectory)/*.nupkg'
    nuGetFeedType: 'internal'
    publishVstsFeed: 'ffe5d7b9-1461-4e9d-873d-b2e412fe97c0/1c6cc111-44f4-43ff-8bef-235105fc6f38'
```

Save and run ∨

Save and run

Saving will commit azure-pipelines.yml to the repository.

Commit message

Set up CI with Azure Pipelines

Optional extended description

Add an optional description...

(•) Commit directly to the master branch
( ) Create a new branch for this commit

Save and run

Build Nuget packages

```
1    Pool: Azure Pipelines
2    Image: ubuntu-18.04
3    Queued: Just now [manage parallel jobs]
4    Agent: Hosted Agent
5    Started: Just now
6    Duration: 20s
7
8    The agent request is already running or has already completed.
9  ▶ Job preparation parameters
10   Job live console data:
11   Starting: Build Nuget packages
12   Finishing: Build Nuget packages
```

Connect to feed.
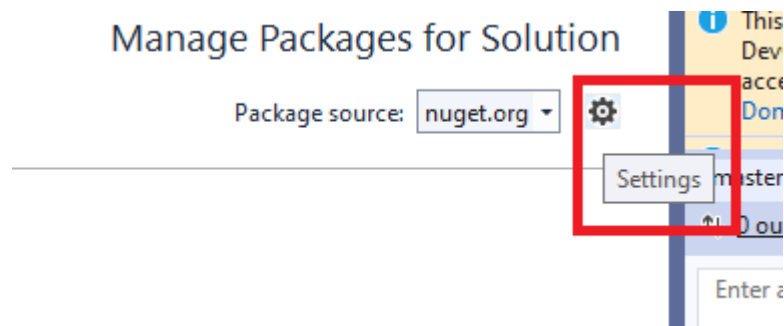
URL for Nuget pakage.

https://pkgs.dev.azure.com/AllianceBuildServer/Nuget-Demo/_packaging/Nuget-Demo/nuget/v3/index.json
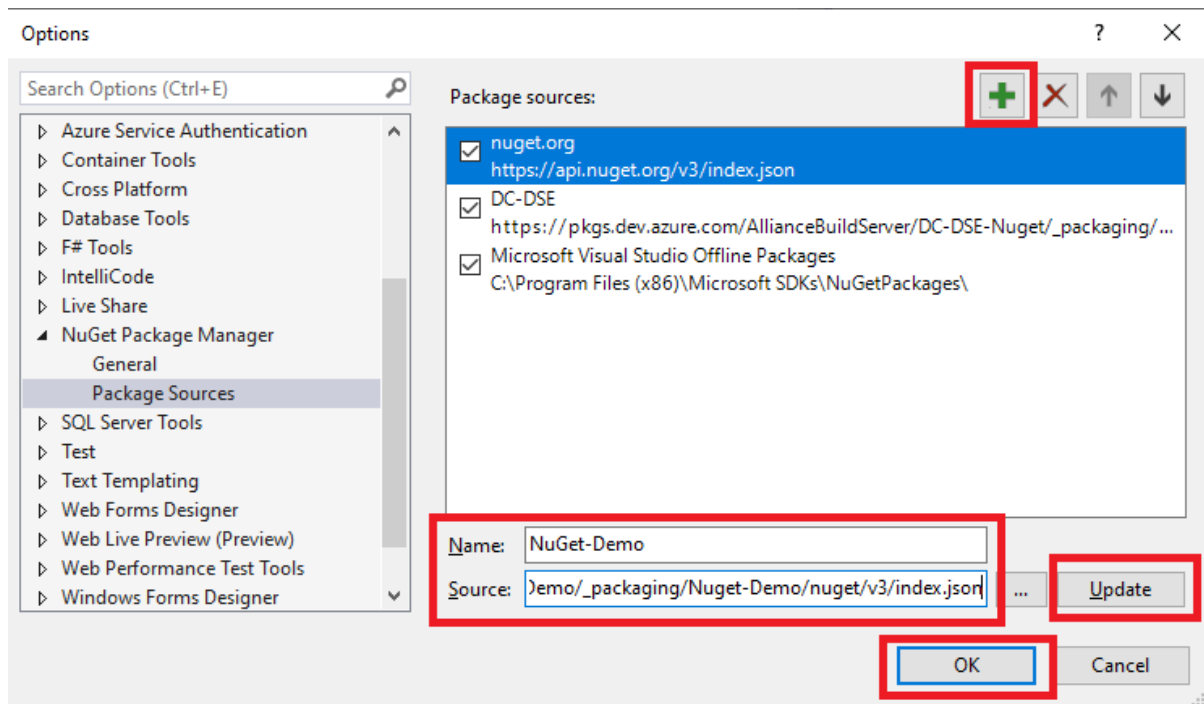
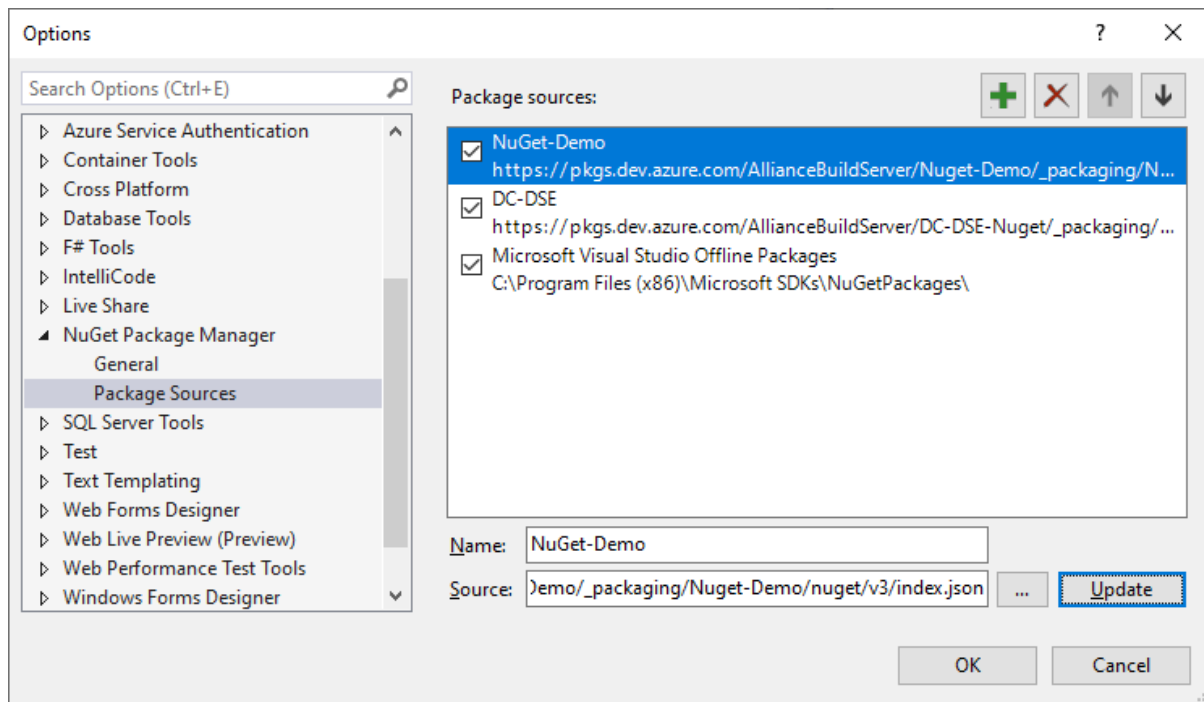VS 2019 -> Tools -> NuGet Package manager -> Manage NuGet Packages for Solution
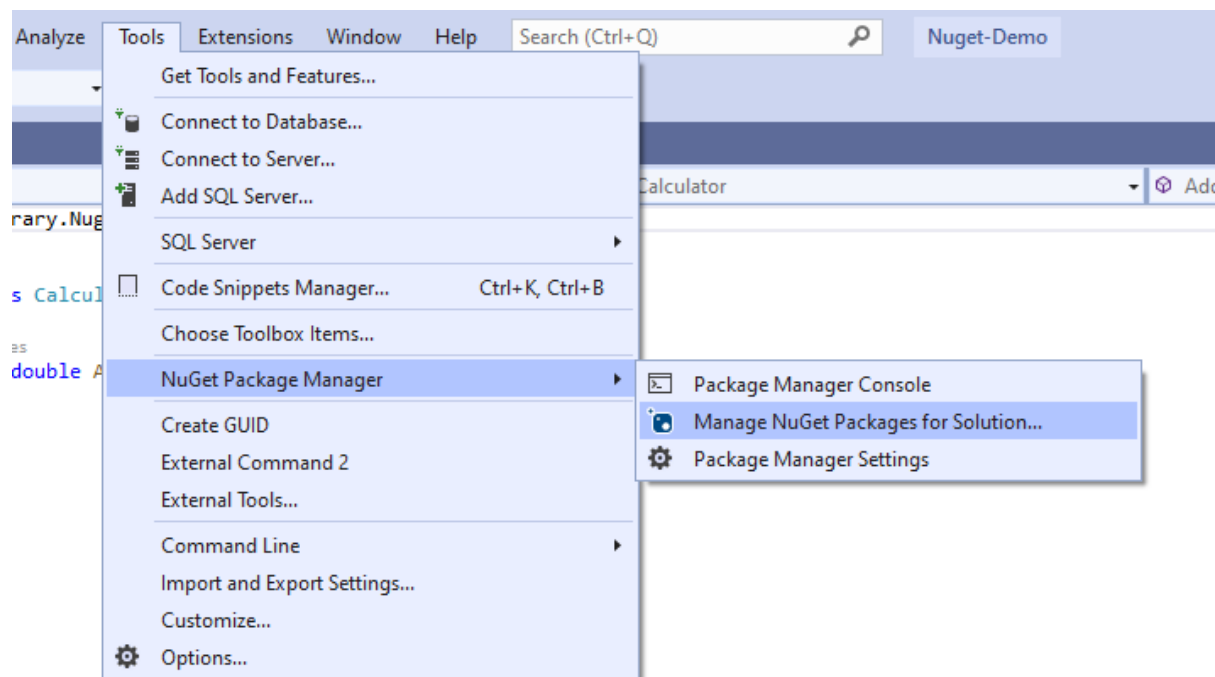
Click Settings

Clcik + -> Name and paste the Source -> Update

OK

Update the package version and push to Azure repo

```xml
<Project Sdk="Microsoft.NET.Sdk">

  <PropertyGroup>
    <TargetFramework>netcoreapp3.1</TargetFramework>

    <PackageId>Nuget-Demo</PackageId>
    <Version>1.0.1</Version>
    <Authors>Yaron Zlotolov</Authors>
    <Description>Test project for Nuget and CI/CD</Description>
    <IsPackable>true</IsPackable>

  </PropertyGroup>

</Project>
```

New pipeline automatically generated after pushing the code

Nuget package is ready in the feed

Back to NuGet Package manager

Refresh

Done!