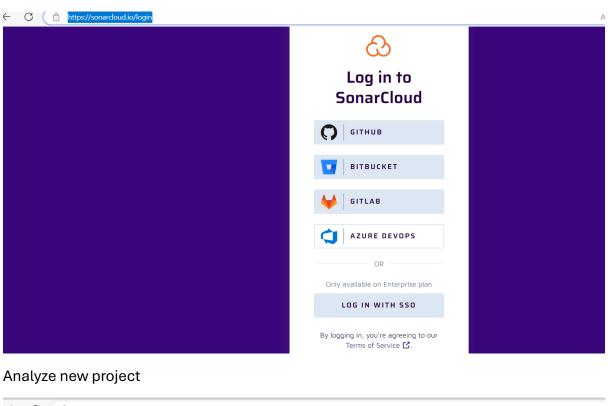
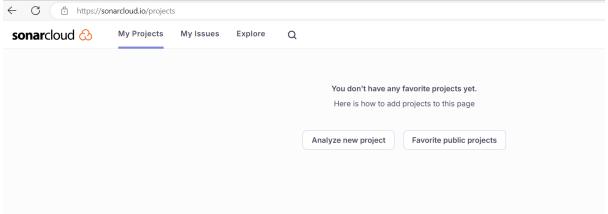
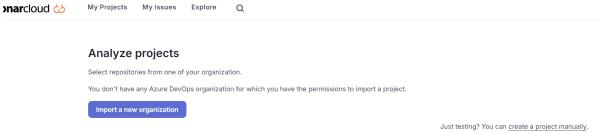
Sonar Cloud Integration with Azure DevOps CI/CD Pipeline

Navigate to Login - SonarCloud with Azure DevOps Account Credential.





Click on create a Project Manually



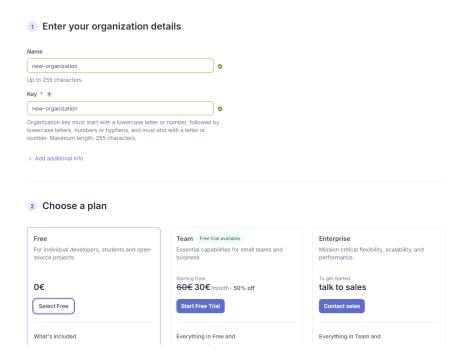
Setup a monorepo.

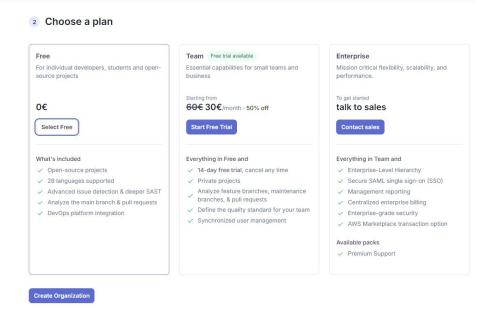
Analyze projects

Manual setup is not recommended, and leads to missing features like appropriate setup of your project or analysis feedback in the Pull Request. We recommend to import your projects

Organization Choose an organization... Create another organization Next

Select free plan and provide organization name. create it.





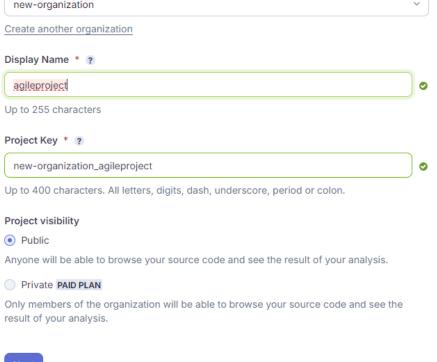
Analyze projects

Manual setup is not recommended, and leads to missing features like appropriate setup of your project or analysis feedback in the Pull Request. We recommend to import your projects

Organization

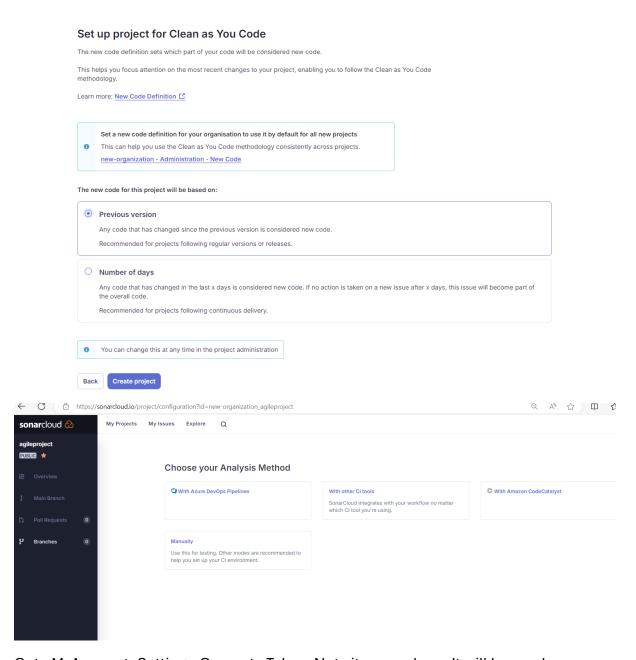
new-organization

Create another organization

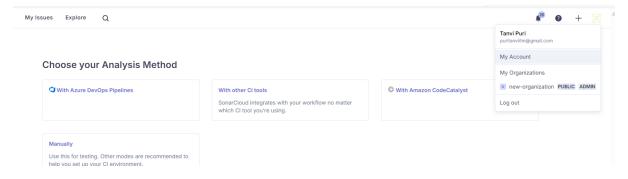


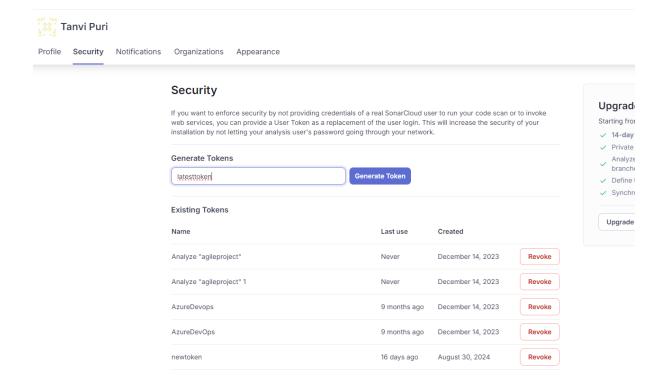
Next

Create the Project as per default settings.



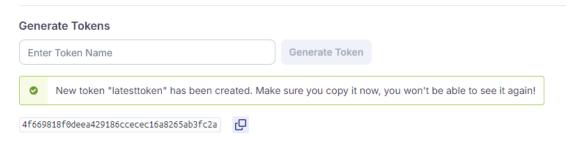
Goto MyAccount- Settings-Generate Token. Note it somewhere, It will be used as a service connection in Azure DevOps Project.



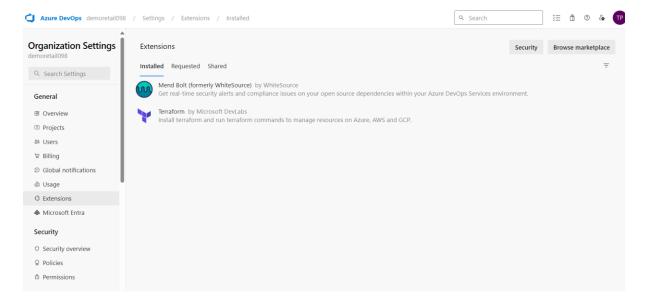


Security

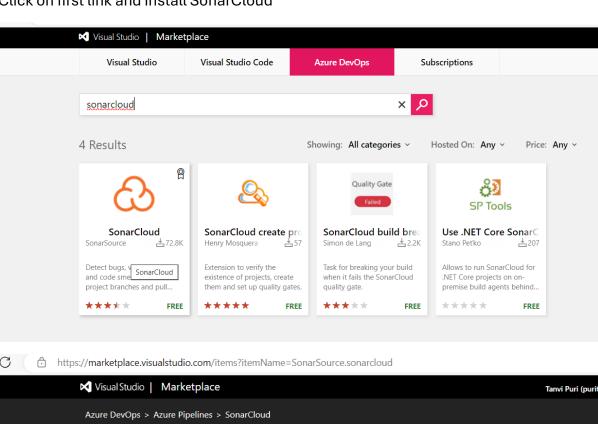
If you want to enforce security by not providing credentials of a real SonarCloud user to run your code scan or to invok web services, you can provide a User Token as a replacement of the user login. This will increase the security of your installation by not letting your analysis user's password going through your network.

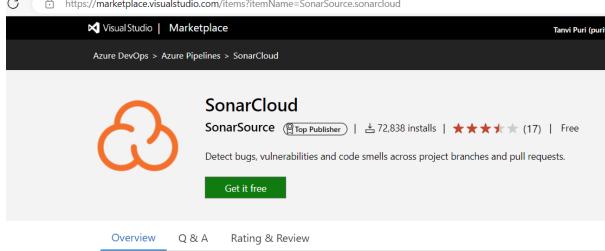


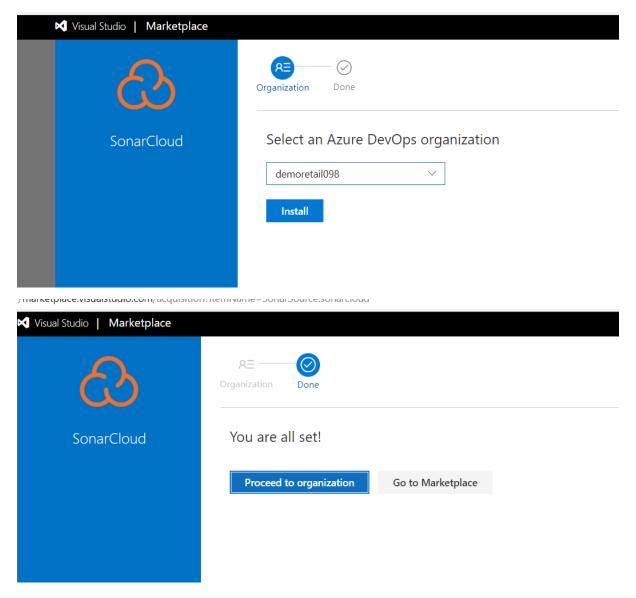
Navigate to Extensions and Browse MarketPlace under organizational settings.



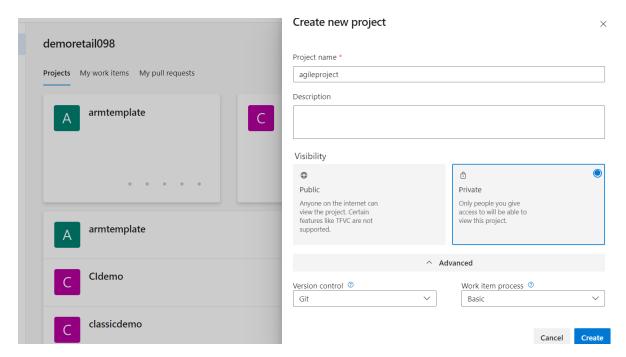
Click on first link and install SonarCloud



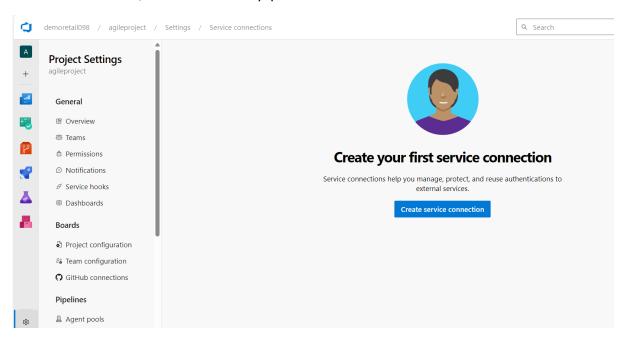


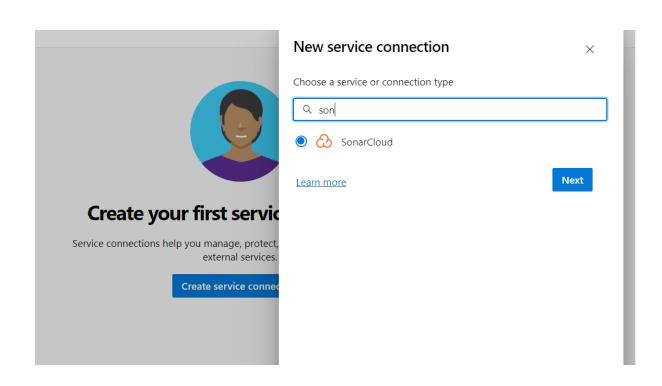


Create project with name agileproject

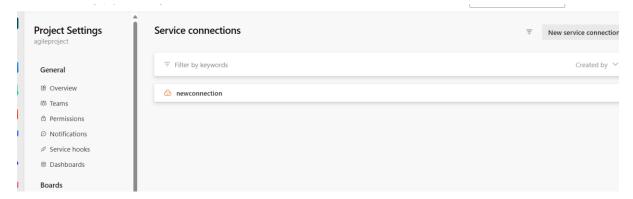


In Project settings, create service connection for Sonar Cloud and paste the token from Sonar Cloud Portal, Grant access to pipelines and save.

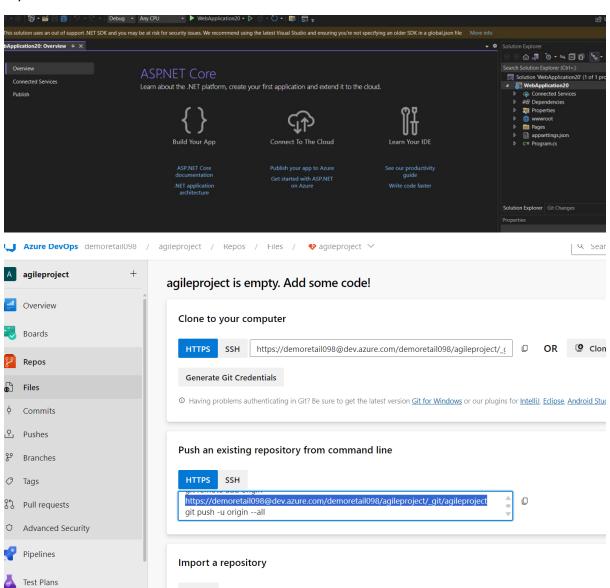


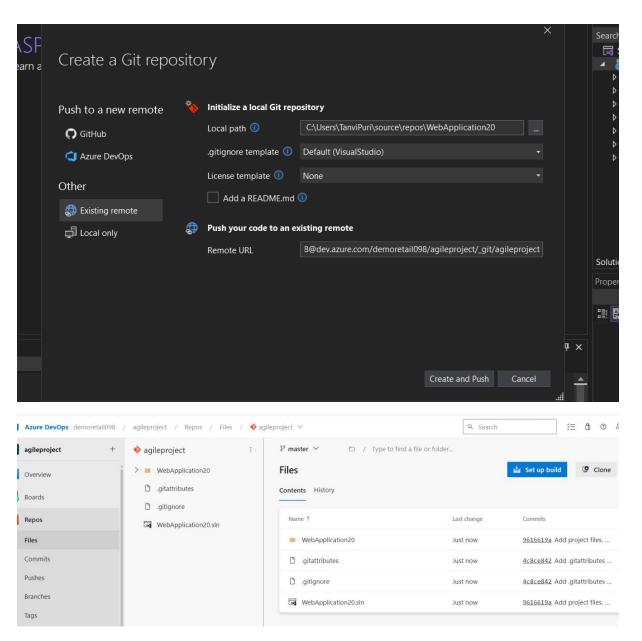


SonarCloud Token			
•••••	••••••		
Authenticati Generate To	on Token generated through SonarCloud (go to My Account > Security kens)		
Verify	✓ Verification Succeeded		
Details			
Service co	onnection name		
newcon	nection		
Service iv	lanagement Reference (optional)		
Description	on (optional)		
Description	on (optional)		
Description Security	on (optional)		
Security	t access permission to all pipelines		
Security	t access permission to all pipelines		



Create a sample ASP.Net web Application code and push it to Azure Repos from local repo.





Create Build Pipeline



Environments

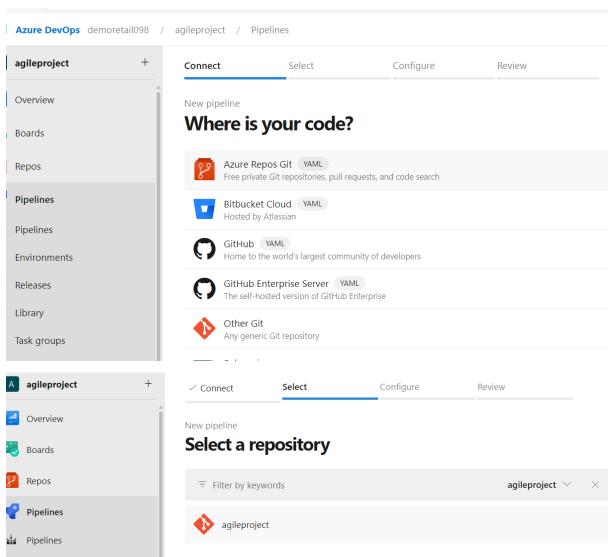
Releases



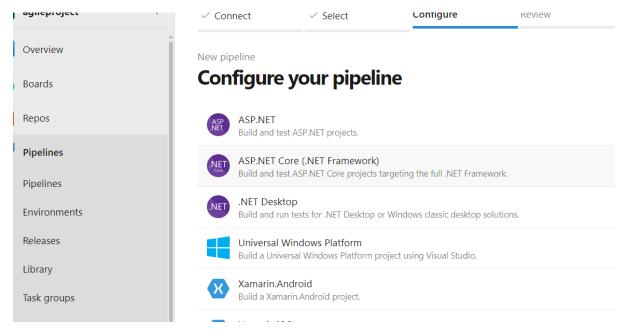
Create your first Pipeline

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

Create Pipeline



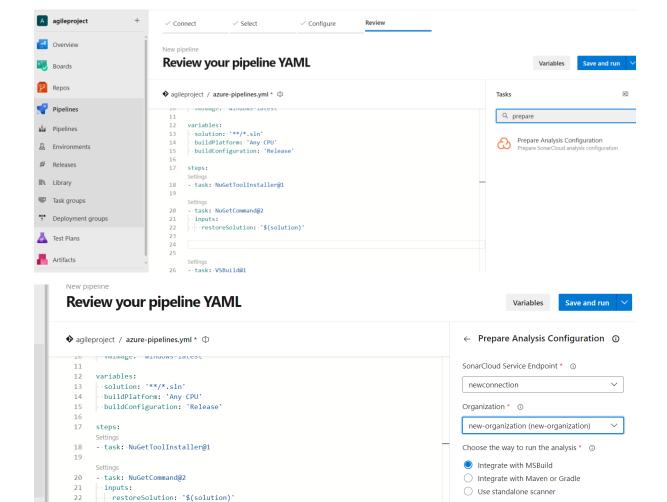
Select ASP. Net Framework



Add task for Prepare Analysis Configuration

25

- task: VSBuild@1



Scanner MSBuild Version ①

Add the project key and project name from Sonar Cloud and add the task after NuGet installer / restore operations.

	Choose the way to run the analysis *	①
	Integrate with MSBuildIntegrate with Maven or GradleUse standalone scanner	
	Scanner MSBuild Version ①	
ge /p:PackageAsSingle	Project Key * ① new-organization_agileproject	
	Project Name ①	
	agileproject	
	Project Version ①	
	1.0	
	Advanced	~
	About this task	Add

```
19
     Settings
20
     - task: NuGetCommand@2
     ··inputs:
21
     restoreSolution: '$(solution)'
22
23
24
     - task: SonarCloudPrepare@2
25
     ..inputs:
26
     SonarCloud: 'newconnection'
27
     organization: 'new-organization'
28
     ···scannerMode: 'MSBuild'
29
     projectKey: 'new-organization_agileproject'
     projectName: 'agileproject'
30
31
     Settings
32
    - task: VSBuild@1
33
     ··inputs:
     solution: '$(solution)'
      msbuildArgs: '/p:DeployOnBuild=true /p:WebPublishMethod=Package /p:PackageAsSingle
     platform: '$(buildPlatform)'
36
37
     configuration: '$(buildConfiguration)'
```

Add the task for Run code Analyser after Build and Test Task.



New pipeline

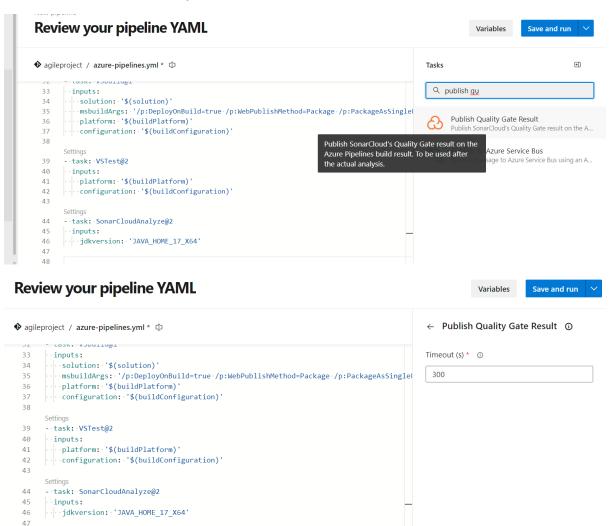
Review your pipeline YAML



Variables

Save and run

Add task for Publish Quality Gate Result.





Complete YAML Code for the Pipeline. Save and Run.

- # ASP.NET Core (.NET Framework)
- # Build and test ASP.NET Core projects targeting the full .NET Framework.
- # Add steps that publish symbols, save build artifacts, and more:
- # https://docs.microsoft.com/azure/devops/pipelines/languages/dotnet-core

trigger:

- master

pool:

vmImage: 'windows-latest'

variables:

solution: '**/*.sln'

buildPlatform: 'Any CPU' buildConfiguration: 'Release'

steps:

- task: NuGetToolInstaller@1

- task: NuGetCommand@2

inputs:

restoreSolution: '\$(solution)'

- task: SonarCloudPrepare@2

inputs:

SonarCloud: 'newconnection' organization: 'new-organization'

scannerMode: 'MSBuild'

projectKey: 'new-organization_agileproject'

projectName: 'agileproject'

- task: VSBuild@1

inputs:

solution: '\$(solution)'

msbuildArgs: '/p:DeployOnBuild=true /p:WebPublishMethod=Package /p:PackageAsS ingleFile=true /p:SkipInvalidConfigurations=true /p:DesktopBuildPackageLocation="\$(build.artifactStagingDirectory)\WebApp.zip" /p:DeploylisAppPath="Default Web Site"'

platform: '\$(buildPlatform)'

configuration: '\$(buildConfiguration)'

- task: VSTest@2

inputs:

platform: '\$(buildPlatform)'

configuration: '\$(buildConfiguration)'

- task: SonarCloudAnalyze@2

inputs:

jdkversion: 'JAVA_HOME_17_X64'

- task: SonarCloudPublish@2

inputs:

pollingTimeoutSec: '300'

