

## Publish Code Coverage to SonarCloud

.NET

SonarCloud is a cloud-based code analysis service designed to detect code quality issues in 25 different programming languages, continuously ensuring the maintainability, reliability and security of your code.

#### First Steps

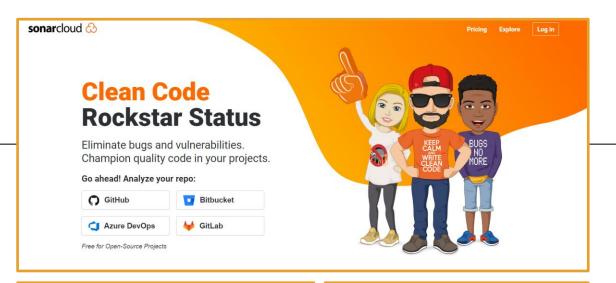
https://sonarcloud.io/

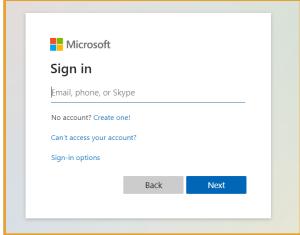
First, create a pipeline that successfully builds and deploys to your Website.

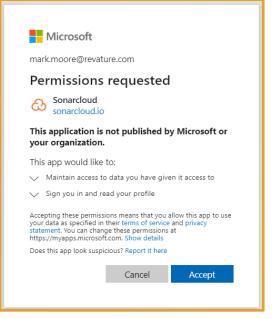
Next, log in to www.sonarcloud.io.

(Important) Use your Azure DevOps credentials.

If asked, accept any request for permission or access by Sonarcloud.

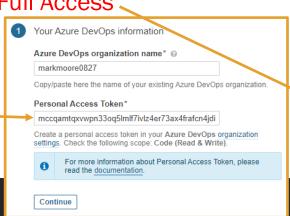


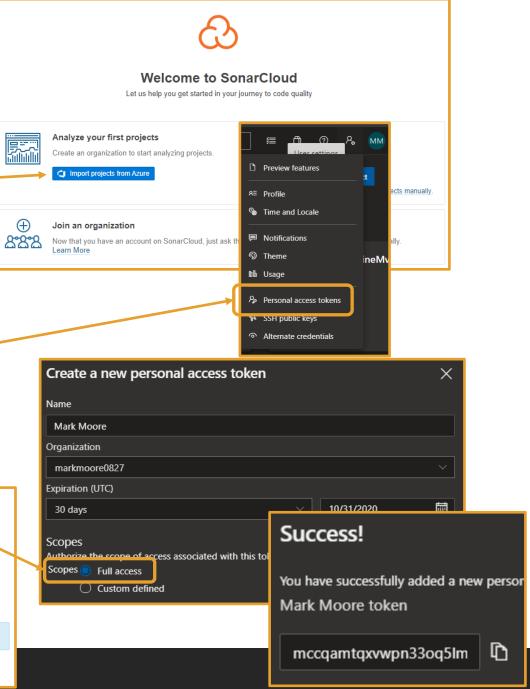




# Create SonarCloud Organization

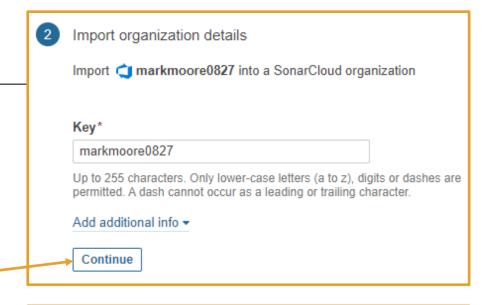
- 1. Create an organization
- 2. Enter the correct name of your Azure Devops Organization and a Personal Access Token (P.A.T.).
  - 1. Log into your Azure Account.
  - 2. In the upper right, click on User Settings>Personal Access tokens.
  - 3. Click 'New Token'.
  - 4. Enter your name and select 'Full Access'
  - 5. Select 'Create'
  - 6. Copy your P.A.T.
- 3. Enter the P.A.T.
- 4. Click 'Continue'





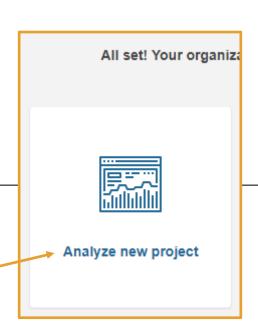
# Create SonarCloud Organization

- 1. Click 'Continue' to Import your organization details
- 2. Select 'Free plan'
- 3. Click "Create Organization"

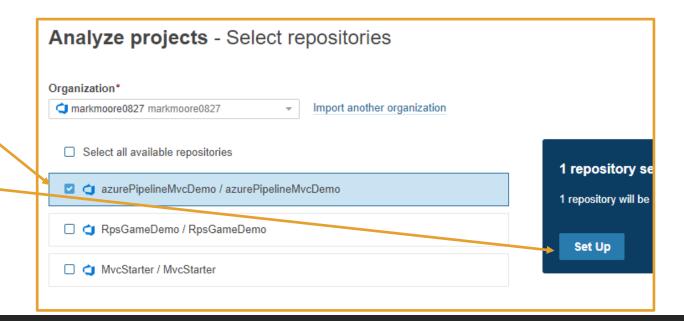




### Analyse a New Project

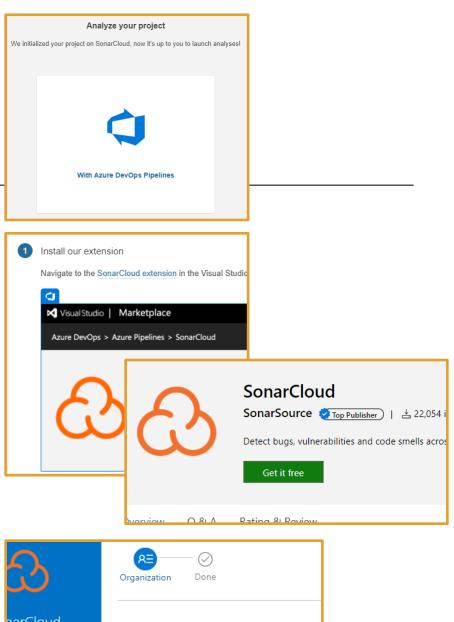


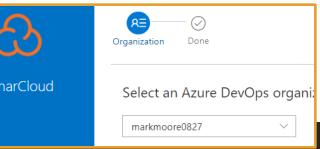
- 4. Click 'analyse new project'.
- 5. Choose the pipeline you want to analyse.
- 6. Click 'Set Up'.-

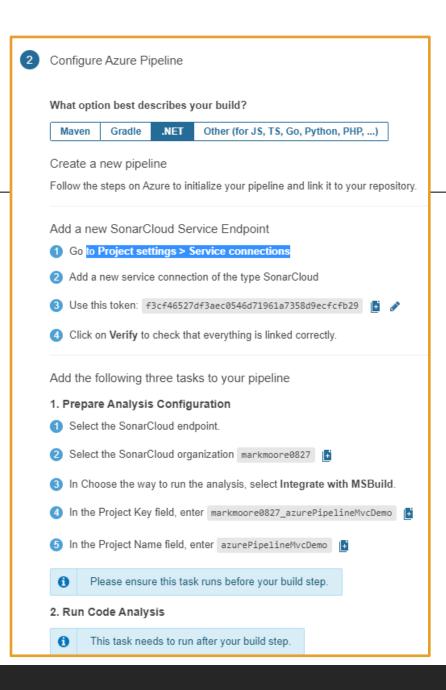


## Configure Code Analysis

- 7. Click on 'With Azure DevOps Pipelines'
- 8. Click to download the SonarCloud Extension from the from the Visual Studio Marketplace.
- 9. Make sure to choose the correct organization when installing in the Marketplace.



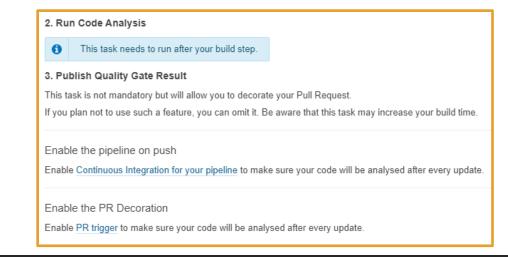




## Configure Azure Pipeline

The steps on the following pages will guide you through setup on the *Azure DevOps* side.

See the Step-By-Step on the following slides.



#### Add a new SonarCloud Service Endpoint

 In your Azure DevOps account, click on the project you will be adding the Code Analysis to. Go to Project settings > Service connections
 Add a new service connection of the type SonarCloud
 Use this token: f3cf46527df3aec0546d71961a7358d9ecfcfb29
 Click on Verify to check that everything is linked correctly.

Add a new SonarCloud Service Endpoint

**Pipelines** 

**Project details** 

New service connection

Agent pools

Ⅱ Parallel jobs

Settings

☐ Test management☐ Release retention☐

್ಡ್ Service connections

XAML build services

2. Click Project settings at the bottom left of your project home page.

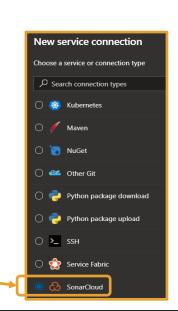
3. Click the 'back' arrow next to Project details.

1. Click Service Connections under Pipelines.

5. Click 'New service connection' in the upper right.

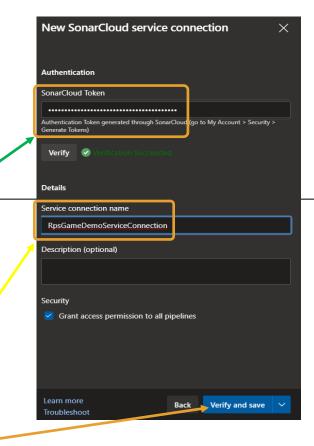
6. Select 'SonarCloud' in the 'New Service Connection' List

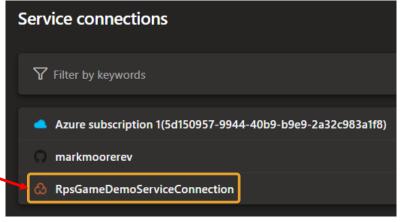
Click Next.



#### New SonarCloud Connection

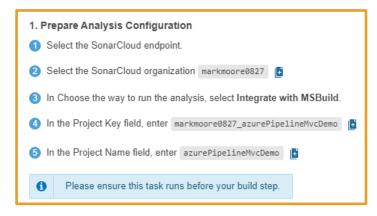
- Paste in the Personal Access
   Token under 'SonarCloud Token'.
- Create a name for your connection under 'Service connection name'.
- Click 'Verify and Save'.-
- Verify the connection was successful.



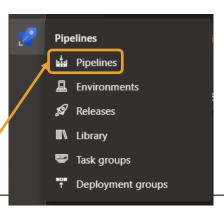


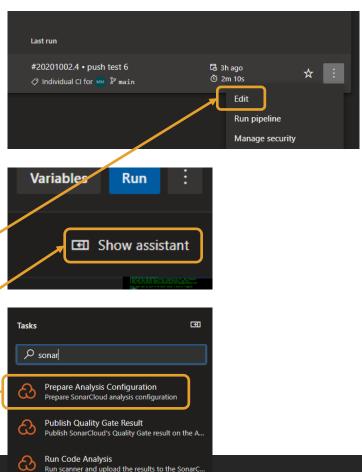
# Add publish task to your pipeline YAML

Add the following three tasks to your pipeline.

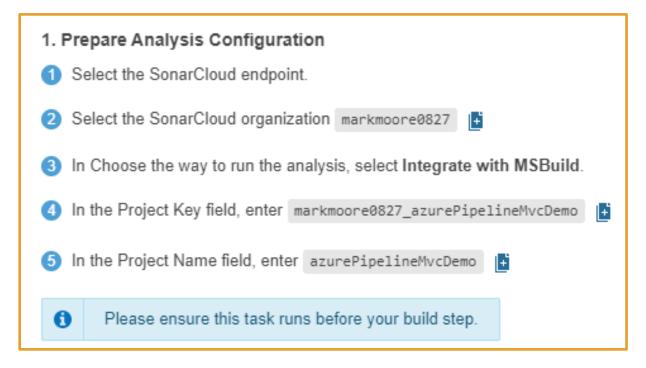


- 1. Click Pipelines under the Rocket (Pipelines) avatar in the left column.
- 2. Click Edit under the pipeline you want to add code analysis to.
- 3. Click 'Show Assistant' in the upper left.'
- 4. Select 'Prepare Analysis Configuration'.

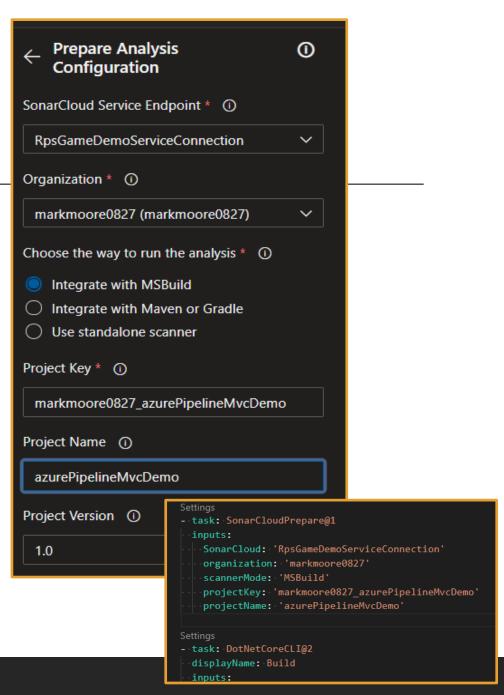




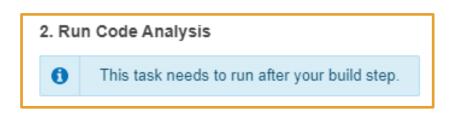
# Add Code Analysis configuration task to your pipeline YAML



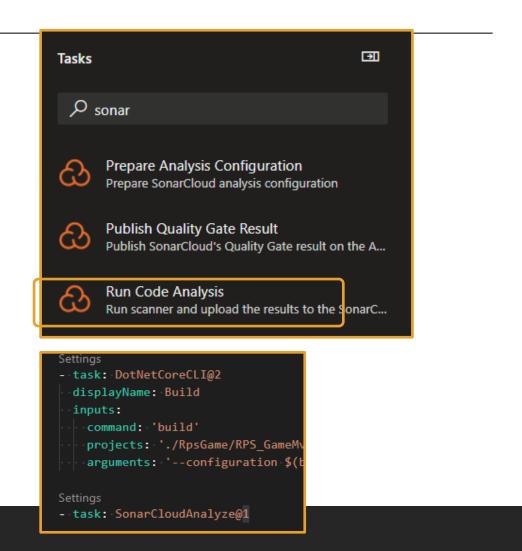
You don't have to change anything under 'Advanced'. Place the curser on the line above your 'build' Task. Click 'Add'



# Add Code Analysis to your YAML



- 1. Click 'Show Assistant' to return to the Assistant.
- 2. Make sure the curser is immediately below the 'build' task.
- 3. Click 'Run Code Analysis'.



#### A Microsoft Docs Lab Tutorial

https://azuredevopslabs.com/labs/vstsextend/sonarcloud//