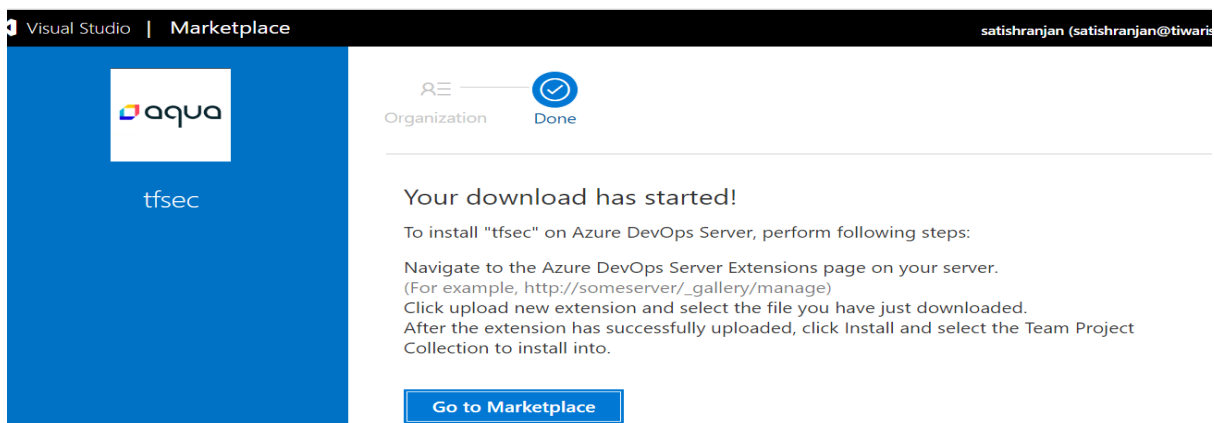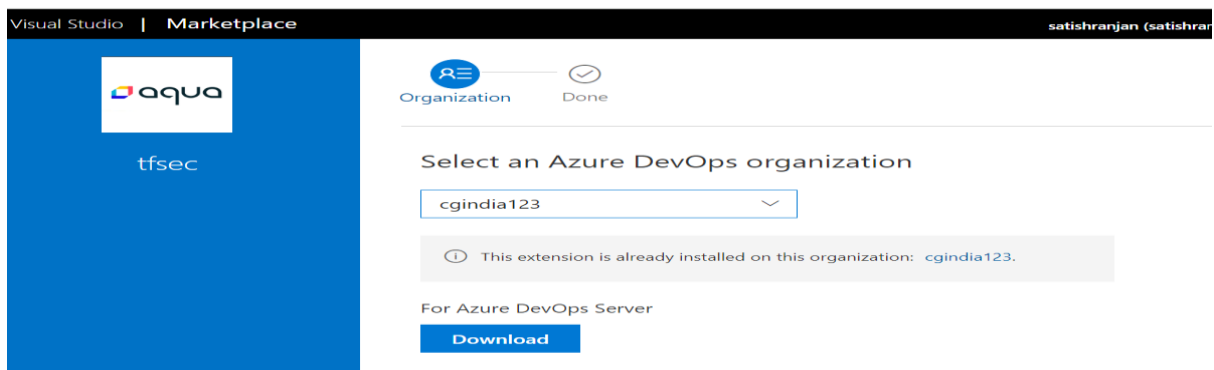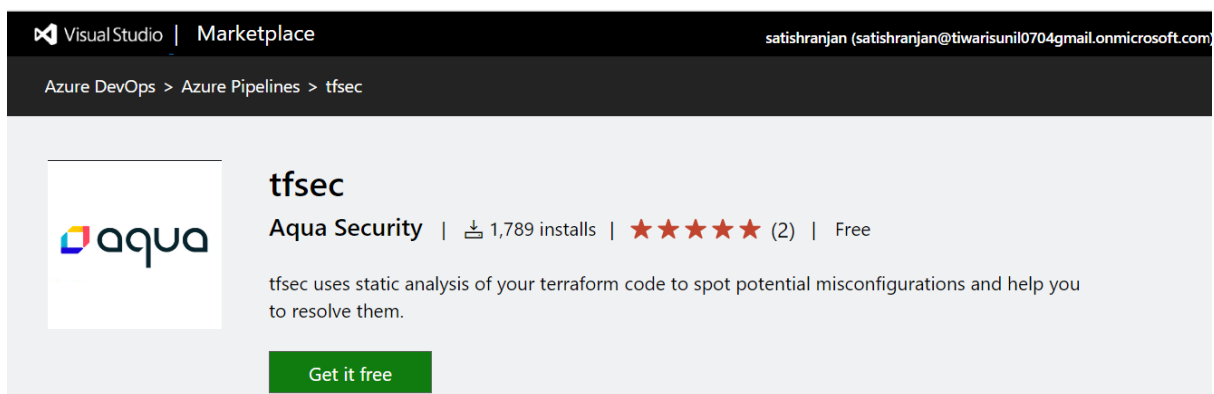## 1. tfsec

tfsec is an open-source static analysis tool that checks Terraform code for security vulnerabilities and best practices.

2. Checkov

Checkov is another popular open-source static code analysis tool that scans Terraform configurations for security issues and compliance.

Procedure to install and use tfsec for terraform

Step1 : Login to dev.azure.portal and go to market place, search tfsec. Install tfsec.

Step2 : Now add tfsec in Steps in stages and run pipeline for infra (terraform code):

← infra_project2 (8)   Variables   Run   ⋮

⌗ main ∨   ◆ infra_project2 / azure-pipelines.yml   Tasks   ⊞

```
 4      include:
 5        - main
 6    paths:
 7      include:
 8        - /environment/dev
 9  pool:
10    name: satishpool
11    demands: Agent.Name -equals satishagent
12
13  stages:
14    - stage: terraformcodescan
15      displayName: tfsec scan code testing
16      jobs:
17        - job:
18          steps:
                  Settings
19            - task: tfsec@1
20              inputs:
21                version: 'v1.26.0'
22                debug: true
```

🔍 tfsec

🔲 tfsec: Secure your Terraform
     tfsec uses static analysis of your terraform code t...

← infra_project2 (8)   Variables   Run   ⋮

⌗ main ∨   ◆ infra_project2 / azure-pipelines.yml   ← tfsec: Secure your Terraform ⓘ

```
 4      include:
 5        - main
 6    paths:
 7      include:
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 9  pool:
10    name: satishpool
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13  stages:
14    - stage: terraformcodescan
15      displayName: tfsec scan code testing
16      jobs:
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                  Settings
19            - task: tfsec@1
20              inputs:
21                version: 'v1.26.0'
22                debug: true
```

tfsec Version ⓘ

[v1.26.0   ]

☑ Enable Debug   ⓘ

☑ Publish test results   ⓘ

Extra arguments ⓘ

[   ]

The directory to scan ⓘ

[   ]

About this task   [Add]

==Step3 : Now run pipeline and all logs present in below path in self agent host:==

↻ 🖥 > This PC > Windows (C:) > agent > _work > _tasks >   Search

📋 📋 🖉 ↗ 🗑   ↑↓ Sort ∨   ☰ View ∨   •••

☐ Name   Date modified   Type   Size

   📁 SonarQubeAnalyze_6d01813a-9589-4b15-8491-8164aeb38055   30-08-2024 06:53   File folder
   📁 SonarQubePrepare_15b84ca1-b62f-4a2a-a403-89b77a063157   30-08-2024 06:53   File folder
   📁 SonarQubePublish_291ed61f-1ee4-45d3-b1b0-bf822d9095ef   30-08-2024 06:53   File folder
   📁 tfsec_c4d1b8a0-2ef3-4ed7-86ae-a83946199e82   30-08-2024 06:53   File folder