

# Estratégias de Qualidade no seu Fluxo de Entrega Contínua

Mensurando a Integridade de suas APIs

#### **ALEX ALVES**





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#### Contexto



- Iniciativa de construir testes integrados
- Como mensurá-los?



## O que é DevOps?



- Cultura
- Pessoas
- Ferramentas



### CI/CD o que são?



- Integração Contínua
- Entrega Contínua
- Implantação Contínua



#### Importância do CI/CD e DevOps



- Crescimento da empresa
- Entrega de valor
- Feedback imediato

Resiliência



## Como garantir a qualidade?





#### Por que Testes?

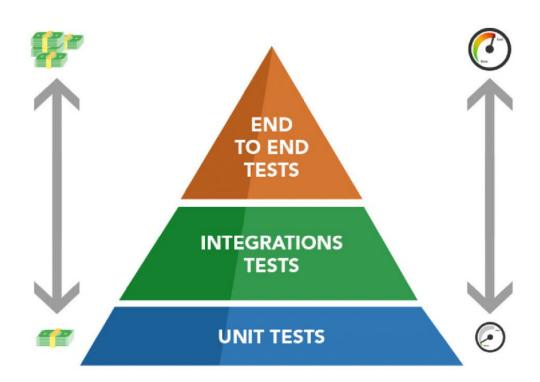
THE DEVELOPER'S CONFERENCE

- Segurança
- Integridade
- Confiabilidade
- O barato que não sai caro



## Tipos de Testes





#### Onde que entra os Testes?





#### Como validar meus testes?





## **Testes Integrados**





#### Case de Teste Integrado





# Sem Métricas, Sem Avaliação?





## Que se faça a Luz





## Programador é Preguiçoso





#### Identificando padrões

```
▲ Não seguro | aurora-project.azurewebsites.net/swagger/v1/swagger.jso
"openapi": "3.0.1".
"info": {
 "title": "Aurora API".
 "description": "API REST created on ASP.NET Core 3.1",
 "version": "v1"
"paths": {
 "/api/users": {
    "post": {
        "Worker"
      "requestBody": {
        "content": {
          "application/json": {
            "schema": {
              "$ref": "#/components/schemas/CreateWorkerModel"
          "text/json": {
            "schema": {
              "$ref": "#/components/schemas/CreateWorkerModel"
          application/*+json": {
            'schema": {
              "$ref": "#/components/schemas/CreateWorkerModel"
      "responses": {
          "description": "Success"
```



```
unitReport.xml
     <?xml version="1.0" encoding="UTF-8"?>
   FI<testsuites name="Aurora Integration Tests" tests="2" time="33.779">
       <testsuite name="GET /api/users" id=
       "57d261a6-bd9a-43b2-a6b5-a92342c32871" timestamp=
       "2020-11-23T15:10:43.176Z" tests="1" failures="0" errors="0" time=
       "33.214">
         <testcase name="Status code is OK" time="33.214" classname=</pre>
         "AuroraIntegrationTests"/>
       </testsuite>
       <testsuite name="DELETE /api/users/{id}" id=
       "b5efbccc-e959-4c46-8060-782a13d731cf" timestamp=
       "2020-11-23T15:10:43.176Z" tests="1" failures="0" errors="0" time=
       "0.565">
         <testcase name="Necessary to inform a valid ID to delete" time="0.565"</pre>
          classname="AuroraIntegrationTests"/>
       </testsuite>
     </testsuites>
```

#### Let's Start!

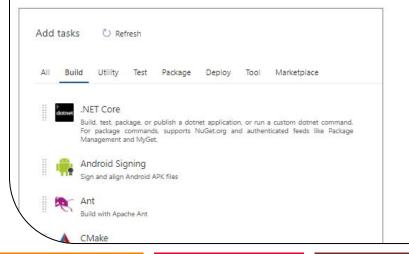


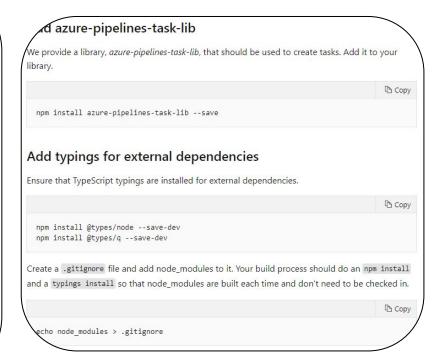
#### Add a custom pipelines task extension

03/04/2021 • 19 minutes to read • 🎧 📳 🚱 🚳 🗪

Azure DevOps Services | Azure DevOps Server 2020 | Azure DevOps Server 2019 | TFS 2018 - TFS 2017

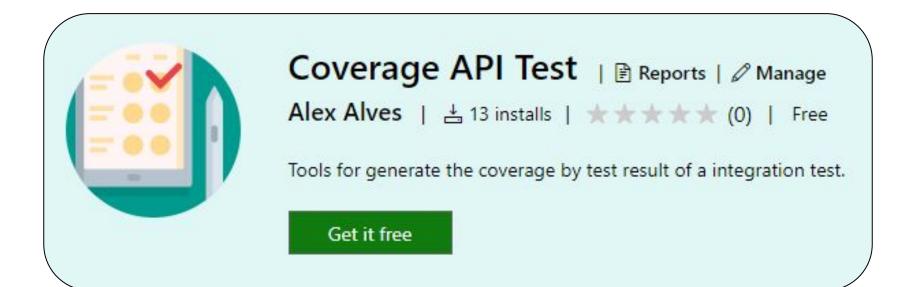
Learn how to install extensions to your organization for custom build or release tasks in Azure DevOps. These tasks appear next to Microsoft-provided tasks in the Add Step wizard.





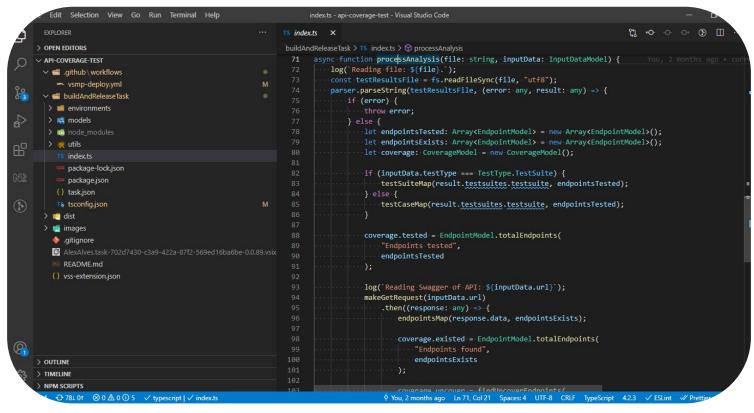
#### **Custom Task**





# The Code !!





# **API Coverage Test**

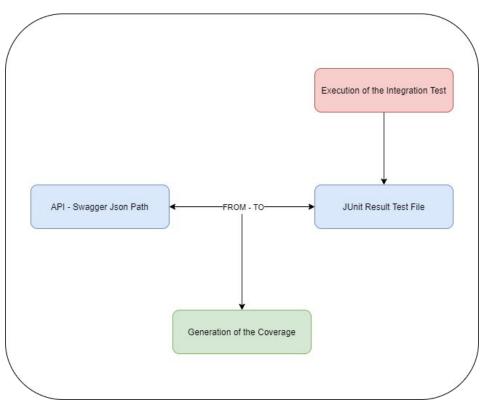


API Coverage Test ①	© Link settings	Tiew YAML	ll Remove
Task version 0.*			
Display name *			
API Coverage Test			
Api url * ①			
https://aurora-project.azurewebsites.net/			
PATH to JSON of Swagger * ①			
/swagger/v1/swagger.json			
Tests Result Path * ①			
\$(System.DefaultWorkingDirectory)			
Where is the tests name * ①			
Test Suite			

Minimum Quality Gate Percentage * ①
0
Webhook ^
Webhooks ①
Application Name ①
Test.Postman
Build Number ①
\$(Build.BuildNumber)

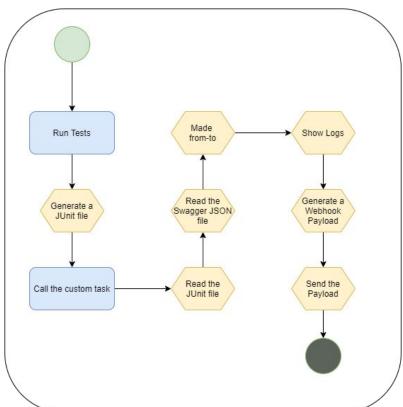
## A Arquitetura





#### O Fluxo!



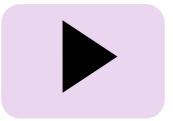


## Que dados eu gero?





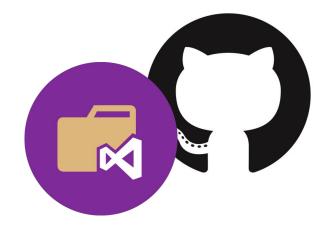




< Show me All! />



#### A Extensão se encontra no <u>Visual Studio Market Place</u> O Código se encontra no <u>GitHub</u>



#### Conclusão







# Dúvidas?





# Obrigado!





**KEEP CALM** and WRITE

#### Referências



- Add a custom pipelines task extension
- Criando Tasks Customizadas para Pipelines no Azure DevOps
- <u>Testes: O que são? Aonde vivem?</u>

