# Azure DevOps: Knowledge Base.

**Un saludo, espero se encuentre bien.**

**Tiempo de lectura:** Tres minutos (3m).

**Descripción.**

A continuación detallaremos, desde **Gobernanza Digicem - DevOps**, la guía de:

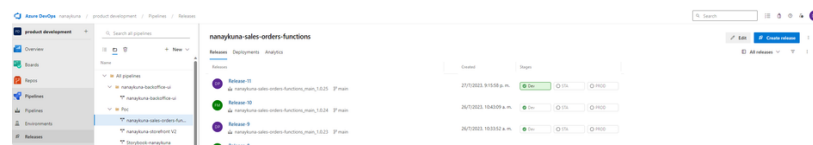- Resolver conflictos paulatinos, ante cambios de la manera mas profesional y ágil.

> ✅ **Emojis** 👇 🔗
>
> :pipeline: **Azure Pipelines.**

## Publicaciones de lecciones aprendidas. 🔗

> ℹ️ • **Puedes usar libremente la estructura del siguiente archivo, solo Sí compete con soluciones de la organización.**
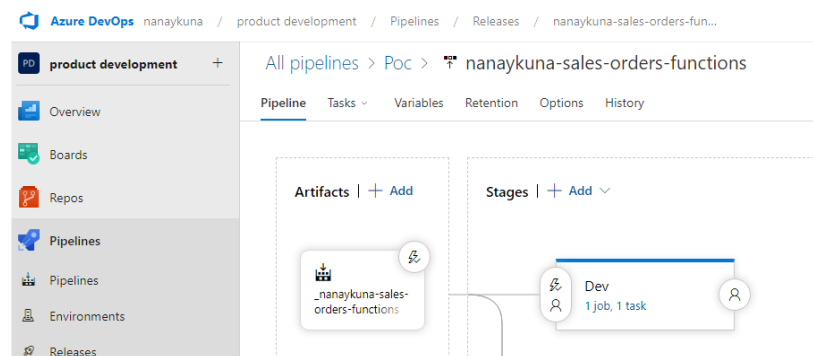
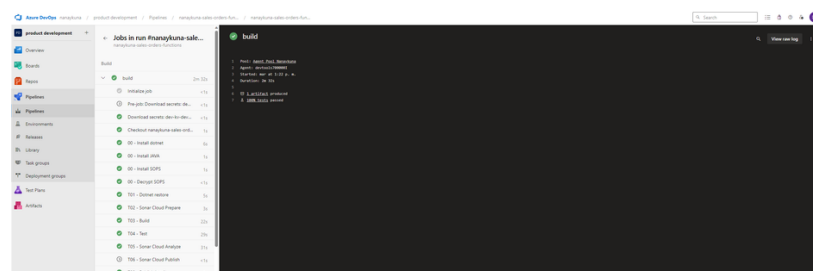## Automate template for cd in Azure release. 🔗



**Export JSON template.**



**Import JSON template.**



**Setting owner parameters  from project with repo.**

## Validate task Skips for a Job in a Pipeline. 🔗



**Job with Task Skip.**

**"ci.yml"**

```
1      - template: 'templates/dotnetBuild.yml@organization-infra'
2        parameters:
3          SonarProjectKey: "organization_organization-sales-orders-functions"
4          SonarProjectName: "organization-sales-orders-functions"
5          PublishProject: "organization.SalesOrders.Functions.Application.Tests.csproj"
6          SkipSonarTask: true
7
```

**template "dotnetBuild.yml"**

```
1  parameters:
2    SonarProjectKey: ""
3    SonarProjectName: ""
4    PublishProject: ""
5
6  name: skipTask
7  displayName: Skip Task
8  type: boolean
9  SkipSonarTask: false
10
```
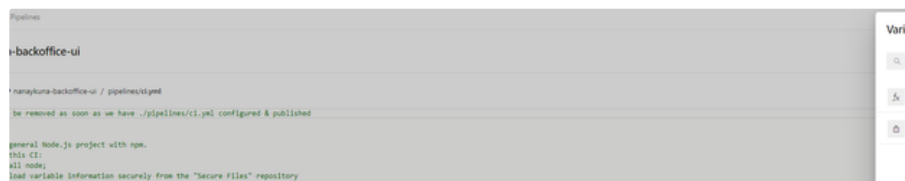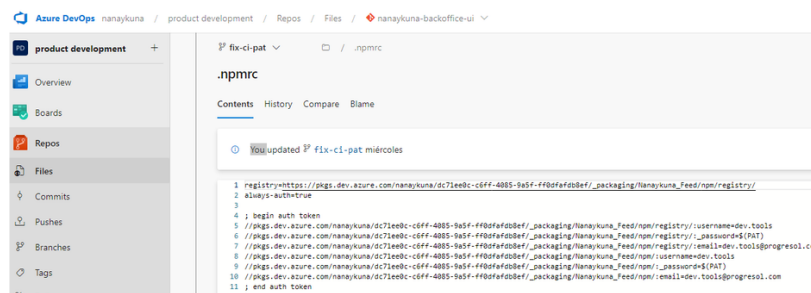
```
1  task: SonarCloudPublish@1
2  condition: and(succeeded(), eq(${{ parameters.SkipSonarTask }}, false), ne(variables['Build.Reason'], 'PullRequest'))
3  inputs:
4    pollingTimeoutSec: "300"
5  displayName: "T06 - Sonar Cloud Publish"
6
```
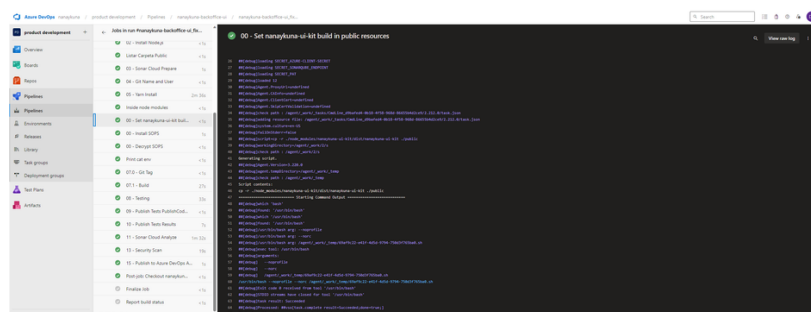
## Setting secrets in a variable for a file or a Pipeline Config. 🔗
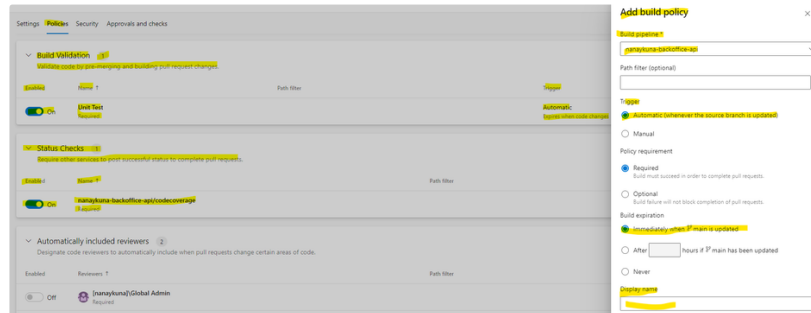


**Declare Variable with protection for viewers.**



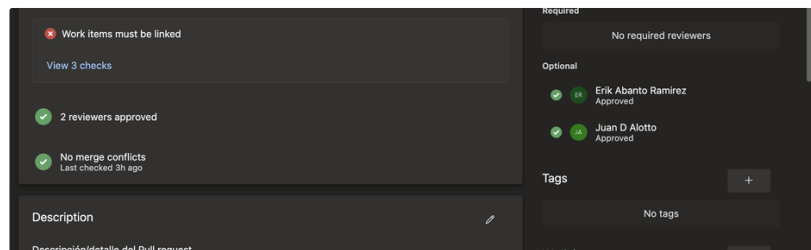**Callback to variable with secret.**



**Job succesful with secret.**

Enable Unit Test as a Review for Pull Request for Build pipeline in Continous Integration. 🔗
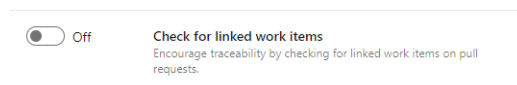
**Local Mode.**



**Use the pipeline from Build.**



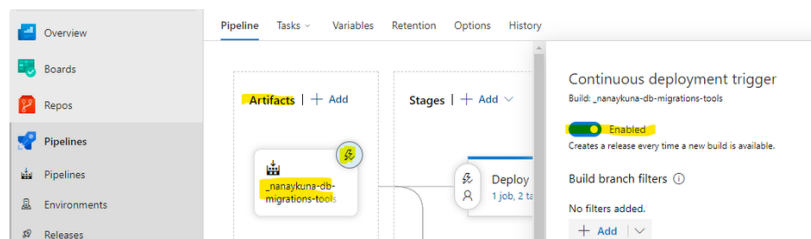**Unit Test Checked.**



**Work items must be linked,**



**Unable Check for linked work items.**

Enable Artifact after Build project pipeline in Continous Integration. 🔗



**Enabled Artifact for Release.**

Include any commit for New Pull request from Development, Main, Feature. 🔗

Options    History

es | ➕ Add ⌄

Deploy
1 job, 2 ta

**Include any tag or commit from Main.**

Configure Task for cd.yml file in Azure DevOps project with Database Migrations. 🔗



**Execute task from EF DotNet Builder.**

```
 1  steps:
 2  - script: |
 3      unzip _organization-db-migrations-tools/drop/Organization.Db.Migrations.Tools.App.zip
 4
 5    displayName: 'Unzip Artifact'
 6
 7  - task: DotNetCoreCLI@2
 8    displayName: 'Dotnet update DB by Migrations'
 9    inputs:
10      command: custom
11      custom: Organization.Db.Migrations.Tools.App.dll
12      arguments: '--last-migration'
13
```

Only PR from QA, Staging for Azure resources Deploys for Release Candidate. 🔗



**Release Stage to QA Environment.**

Only PR from Master, Production, hotfix for Azure resources Deploys with General Availability Release. 🔗
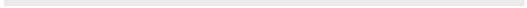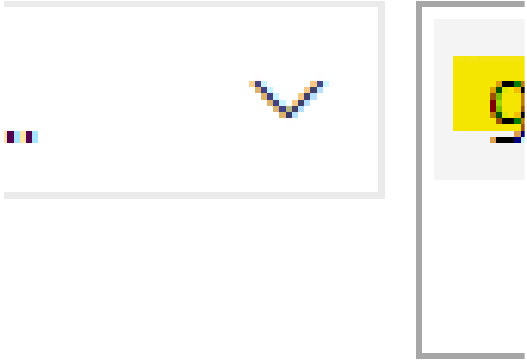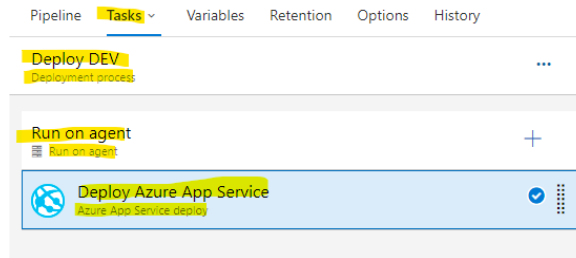
# ct deployments
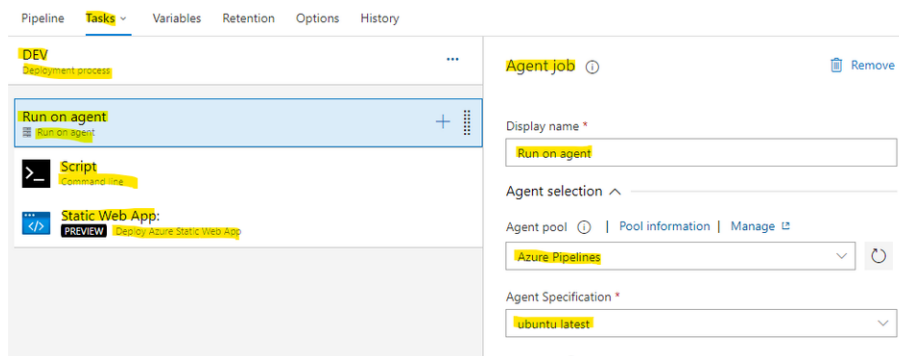
**Release Stage to Production Environment.**

Configure Task for cd.yml file in Azure DevOps project with any Linux App Webs for Azure Resources Deploys. 🔗



**Task for deploy Web Apps.**

```
1  steps:
2  - task: AzureRmWebAppDeployment@4
3    displayName: 'Deploy Azure App Service'
4    inputs:
5      azureSubscription: 'Azure Tenant Account (45u23-5u5c21b710n)'
6      appType: webAppLinux
7      WebAppName: 'environment-organization-project'
8      AppSettings: '-TZ America/Bogota'
9
```

Configure Task for cd.yml file in Azure DevOps project with any Static Webs App for Azure Resources Deploys. 🔗



**Task for deploy Static Web Apps.**

```
1  steps:
2  - script: |
3      cd _organization-backoffice-ui/drop
4    displayName: Script
5    continueOnError: true
6
7  - task: AzureStaticWebApp@0
8    displayName: 'Static Web App: '
9    inputs:
10     app_location: '/_organization-backoffice-ui/drop/'
11     skip_app_build: true
12     skip_api_build: true
13     is_static_export: false
14     verbose: true
15     azure_static_web_apps_api_token: '70k3n-b31-4zu23-2350u2c3-4-57471c-w3d-4qq5'
```

```
16    continueOnError: true
17
```

## Configure Task for cd.yml file in Azure DevOps project with any Linux Function Webs for Azure Resources Deploys. 🔗



**Task for deploy Function Apps in Azure Portal.**



**Agent Pipeline for Task for deploy Function Apps in Azure Portal.**

```
1  steps:
2  - task: AzureKeyVault@2
3    displayName: 'Azure Key Vault'
4    inputs:
5      azureSubscription: 'Azure Tenant Account (45u23-5u5c21b710n)'
6      KeyVaultName: 'azure-key-vault-name'
7      SecretsFilter: 'SUPPORT-DB'
8
9  #Your build pipeline references an undefined variable named 'Parameters.AzureSubscription'. Create or edit the build pipeline for this YAML file, define the variable
10 #Your build pipeline references an undefined variable named 'Parameters.AppType'. Create or edit the build pipeline for this YAML file, define the variable on the V
11 #Your build pipeline references an undefined variable named 'Parameters.AppName'. Create or edit the build pipeline for this YAML file, define the variable on the V
12
13 - task: AzureFunctionApp@1
14   displayName: 'Deploy Azure Function App'
15   inputs:
16     azureSubscription: '$(Parameters.AzureSubscription)'
17     appType: '$(Parameters.AppType)'
18     appName: '$(Parameters.AppName)'
19     runtimeStack: 'DOTNET|6.0'
20
```

## Evidence ID Path for ci.yml file in Azure DevOps project with any Artifactory Feed Build for Version published to Azure. 🔗



**Feed Azure Artifacts.**

**"ci.yml"**

```
1                    - task: ArchiveFiles@2
2                      inputs:
```

```
3                          rootFolderOrFile: "."
4                          includeRootFolder: false
5                          archiveType: "zip"
6                          archiveFile: "$(Build.ArtifactStagingDirectory)/$(Build.BuildId).tgz"
7                          replaceExistingArchive: true
8                        displayName: "14 - Publish locally"
9
10                     - task: PublishBuildArtifacts@1
11                       inputs:
12                          PathtoPublish: "$(Build.ArtifactStagingDirectory)"
13                          ArtifactName: "drop"
14                        displayName: "15 - Publish to Azure DevOps Artifacts"
15
16                     - task: Npm@1
17                       inputs:
18                          command: 'publish'
19                          verbose: true
20                          publishRegistry: 'useFeed'
21                          publishFeed: '1b-4xu23-733b'
22
```

**"ci.yml" Dependent for a Library Published in the Azure Feed in Artifacts!**

```
1                     - task: CmdLine@2
2                       displayName: "Listar Carpeta Public"
3                       inputs:
4                          script: "ls ./public"
5
```

```
1                     - task: CmdLine@2
2                       displayName: "Descargar archivo usando curl"
3                       inputs:
4                          script: |
5                             'curl -o "$(System.ArtifactsDirectory)/.npmrc" https://nanaykuna.blob.core.windows.net/feed-pipeline/.npmrc'
6                             ls -a
7
8                     - script: |
9                             npm install -g yarn
10                            yarn -v
11                            yarn install
12                            ls
13                       continueOnError: true
14                       displayName: "05 - Yarn Install"
15
16                     - task: CmdLine@2
17                       displayName: "00 - Set nanaykuna-ui-kit build in public resources"
18                       inputs:
19                          script: |
20                             ls
21                             "cp -r ./node_modules/nanaykuna-ui-kit/dist/nanaykuna-ui-kit ./public"
22
```

💪Ahora se puede dimensionar el nivel de ejecución, como tiempo a la hora de gestionar este incidencias o bloqueantes.

¡Mil gracias por la atención prestada!

***Cualquier duda me puedes contactar…***

:WhatsApp: **+573058288031,**

***como mi usuario*** :slack:.