Lets look at one example for using VSTS REST API s

For example

Considering that the Build can run on any agent, so it is not allowed to just call REST API’s of our VSTS account automatically. Because that would mean that anybody could just access anything. As an alternative you could add your credentials to the powershell call but there is a better way

Use the OAuth token to access the REST API

<https://docs.microsoft.com/en-us/vsts/build-release/actions/scripts/powershell#use-the-oauth-token-to-access-the-rest-api>

To enable your script to use the build process OAuth token, go to the **Options** tab of the build definition and select **Allow Scripts to Access OAuth Token**.+

After you've done that, your script can use to SYSTEM\_ACCESSTOKEN environment variable to access

$url = "$($env:SYSTEM\_TEAMFOUNDATIONCOLLECTIONURI)$env:SYSTEM\_TEAMPROJECTID/\_apis/build-release/definitions/$($env:SYSTEM\_DEFINITIONID)?api-version=2.0"

Write-Host "URL: $url"

$definition = Invoke-RestMethod -Uri $url -Headers @{

Authorization = "Bearer $env:SYSTEM\_ACCESSTOKEN"

}

Write-Host "Definition = $($definition | ConvertTo-Json -Depth 1000)"

After we have set up this token (by checking the box), we can add Powershell to do a REST API call.

Invoke-RestMethod -Uri $url -Headers

@{Authorization = "Bearer $env:SYSTEM\_ACCESSTOKEN"

The addition of the header makes sure you can access the REST API without providing credentials.

The Powershell script to get my build changes no looks like this.

$url = "$($env:SYSTEM\_TEAMFOUNDATIONCOLLECTIONURI)$env:SYSTEM\_TEAMPROJECTID/

\_apis/build/builds/$($env:BUILD\_BUILDID)/changes?api-version=2.0"

Write-Host "URL: $url"

$definition = Invoke-RestMethod -Uri $url -Headers @{

Authorization = "Bearer $env:SYSTEM\_ACCESSTOKEN"

}

Write-Host "Definition = $($definition | ConvertTo-Json -Depth 1000)"

Hope this helps!

<https://roadtoalm.com/2016/05/25/call-vs-team-services-vsts-rest-api-from-your-build-pipeline/>

<https://www.nwcadence.com/blog/vststfs-rest-api-the-basics-and-working-with-builds-and-releases>

https://docs.microsoft.com/en-us/powershell/module/Microsoft.PowerShell.Utility/Invoke-RestMethod?view=powershell-5.1