

# UiPath Custom Component

## Bitbucket Activities Guide

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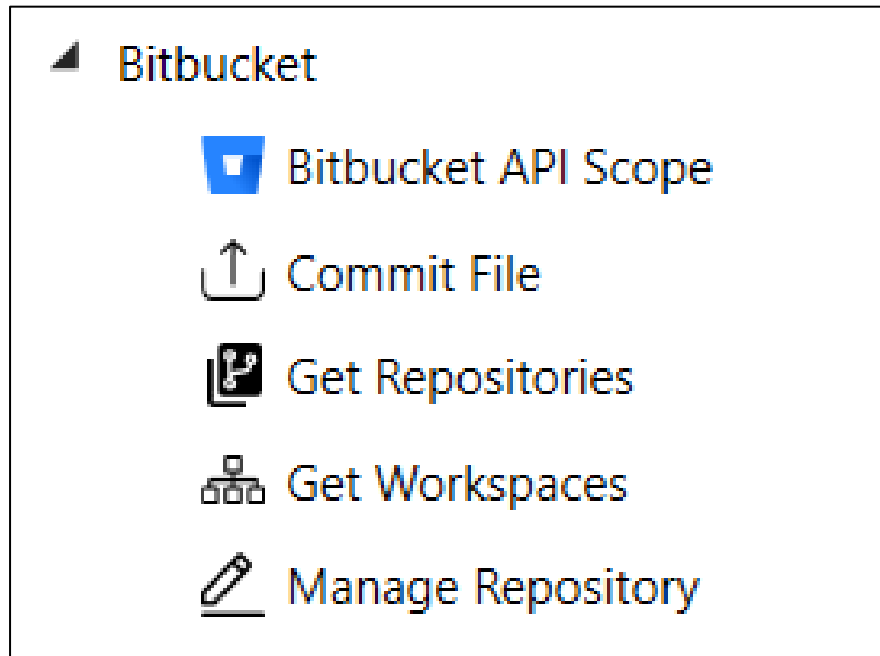
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# 1 Overview

This activity package provides a Bitbucket Scope for authentication. Within the scope there are several activities available that perform functions for repository management like committing a file, deleting or creating a repository.

The Bitbucket activity set will look like this when you install the package in UiPath Studio.



# 2 Dependencies

This project has the following dependencies which are not standard in UiPath. These will be included automatically when you install the Bitbucket Activities package, and are provided here for reference only:

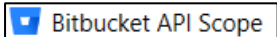
Pathoschild.Http.FluentClient [v3.3.1 or greater]

Microsoft.AspNet.WebApi.Client [v5.2.7 or greater]

Newtonsoft.Json [v6.0.4 or greater]

## 3 Activity Details

### 3.1 Bitbucket API Scope



This scope acts as an authentication mechanism to allow further activities to interact with Bitbucket.

Bitbucket configuration required:

- App Password – To configure your App Password, go to [Create an app password](#). Each activity listed below includes information on what permissions need to be set for your App Password in order for them to work.

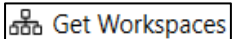
Inputs:

- Username (String) - account username in Bitbucket. This can be found on your Bitbucket profile settings page.
- App Password (SecureString) – Bitbucket App Password passed as a SecureString (e.g. using Orchestrator “Get Credential” activity).

Outputs:

- None.

### 3.2 Get Workspaces



An activity that gets all of the Bitbucket workspaces for the user account specified in the Bitbucket API Scope.

Bitbucket permissions required:

- “account” - Read your account information.

Inputs:

- None.

Outputs:

- Workspace Slugs (List<string>) – A list of workspace [slugs](#).
- Workspace UUIDs (List<string>) – A list of workspace Universally Unique Identifiers (UUIDs).
- Workspaces (JObject) – A paginated list of the Bitbucket workspaces for the specified user account.

### 3.3 Get Repositories



An activity that gets all of the Bitbucket repositories for a specified workspace.

Bitbucket permissions required:

- “repository” - Read your repositories.

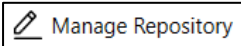
Inputs:

- Workspace UUID or Slug (String) - unique identifier for your workspace or its [slug](#).

Outputs:

- Repositories (JObject) - A paginated list of the Bitbucket repositories for the specified workspace.
- Repository Slugs (List<string>) – A list of repository slugs.
- Repository UUIDs (List<string>) – A list of repository Universally Unique Identifiers (UUIDs).

### 3.4 Manage Repository



An activity that allows for common actions to be performed on a specified repository.

Bitbucket permissions required:

- “repository:admin” - Manage your repositories. This is required to create and delete repositories.
- “repository” - Read your repositories. This is required to read repositories.

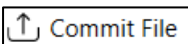
Inputs:

- Workspace UUID or Slug (String) - unique identifier for your workspace or its [slug](#).
- Repository UUID or Slug (String) - unique identifier for your repository or its [slug](#). When creating a repository, a Slug must be used.
- Action (drop-down selection) -
  - Read Repository (GET)
  - Create Repository (POST) – this action requires a repository Slug.
  - Delete Repository (DELETE)

Outputs:

- JSON Result (JSONObject) - The response from the call in JSON format.

### 3.5 Commit File



An activity that allows you to commit a file to a specified repository and branch. You may also add a commit message if you like.

Bitbucket permissions required:

- “repository:write” - Read and modify your repositories.

Inputs:

- Workspace UUID or Slug (String) - unique identifier for your workspace or its [slug](#).
- Repository UUID or Slug (String) - unique identifier for your repository or its [slug](#).
- Branch name (Optional) (String) - The branch name to which the file should be committed. If the branch doesn't exist, one will be created.
- Repository Location (String) - A file path representing the destination in the repository, including desired file name. Example: /myFolder/myFile.txt
- File To Upload (String) - A file path to the file on your computer that you would like to commit to the repository.
- Commit Message (String) - The message to be set against your file commit.

Outputs:

- None.

## 4 Bitbucket API Reference

More details on sample responses and Bitbucket APIs can be found in the [Bitbucket API reference](#).

## 5 Source Code Availability

The source code for this project is available at: <https://github.com/WildWoz/UiPath-Bitbucket>

## 6 Acknowledgements

My custom activity set would not have been possible without creations and code from the following sources:

### 6.1 Code

*Http Client*

Created by Pathoschild (<https://github.com/Pathoschild/FluentHttpClient>).

### 6.2 Icons and artwork

*Commit File* activity icon

Created by [Pixel perfect](https://icon54.com) (<https://icon54.com>) from [Flaticon](#) according to this [licence](#).

*Get Workspaces* icon

Created by [Gregor Cresnar](#) from [Flaticon](#) according to this [licence](#).

*Manage Repository* icon

Created by [icon king](#) from [freeicons.io](#) under the Creative Commons (Attribution 3.0 Unported) licence.

*Get Repositories* icon

Created by Austin Andrews under the [SIL OPEN FONT LICENSE Version 1.1](#)

*Bitbucket API Scope* icon

Used according to Atlassian [guidelines](#).

### 6.3 People

A big thank you to all my friends who encouraged me during the process and provided feedback. Also a massive thank you to my partner for putting up with my late-night coding shenanigans to put this together!