Here are the key available endpoints in the Bitbucket API 2.0:

Repositories

* GET /repositories/{workspace}/{repo\_slug} - Get a repository[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* POST /repositories/{workspace} - Create a repository[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)
* PUT /repositories/{workspace}/{repo\_slug} - Update a repository[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)
* DELETE /repositories/{workspace}/{repo\_slug} - Delete a repository[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)

Commits

* GET /repositories/{workspace}/{repo\_slug}/commits - List commits on a repository[4](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository)

Pull Requests

* GET /repositories/{workspace}/{repo\_slug}/pull-requests - List pull requests for a repository[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)
* POST /repositories/{workspace}/{repo\_slug}/pull-requests - Create a pull request[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)
* PUT /repositories/{workspace}/{repo\_slug}/pull-requests/{pullRequestId} - Update a pull request[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)
* DELETE /repositories/{workspace}/{repo\_slug}/pull-requests/{pullRequestId} - Delete a pull request[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)

Branches

* GET /repositories/{workspace}/{repo\_slug}/branches - List branches for a repository[4](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository)
* GET /repositories/{workspace}/{repo\_slug}/branches/{branch} - Get a specific branch[4](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository)

Permissions

* GET /repositories/{workspace}/{repo\_slug}/permissions-config/users - List user permissions for a repository[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* GET /repositories/{workspace}/{repo\_slug}/permissions-config/users/{selected\_user} - Get a specific user's permissions[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* PUT /repositories/{workspace}/{repo\_slug}/permissions-config/users/{selected\_user} - Update a user's permissions[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* DELETE /repositories/{workspace}/{repo\_slug}/permissions-config/users/{selected\_user} - Delete a user's permissions[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* GET /repositories/{workspace}/{repo\_slug}/permissions-config/groups - List group permissions for a repository[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* GET /repositories/{workspace}/{repo\_slug}/permissions-config/groups/{group\_slug} - Get a specific group's permissions[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* PUT /repositories/{workspace}/{repo\_slug}/permissions-config/groups/{group\_slug} - Update a group's permissions[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)
* DELETE /repositories/{workspace}/{repo\_slug}/permissions-config/groups/{group\_slug} - Delete a group's permissions[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)

These are some of the most commonly used endpoints in the Bitbucket API 2.0. The API provides access to various resources related to repositories, commits, pull requests, branches, and permissions[1](https://developer.atlassian.com/cloud/bitbucket/bitbucket-api-teams-deprecation/)[2](https://developer.atlassian.com/cloud/bitbucket/new-repo-permission-apis/)[3](https://developer.atlassian.com/cloud/bitbucket/announcement-06-08-18-new-v2-apis/)[4](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository).

Yes, you can retrieve a list of branches using the Bitbucket API 2.0. Here's how to do it:To get a list of the latest branches in a Bitbucket repository, you can use the following API endpoint[1](https://bitbucket.org/blog/api-2-0-new-function-and-enhanced-usability):

GET /repositories/{workspace}/{repo\_slug}/branches

This will return a paginated list of branches for the specified repository.Here's an example cURL request to retrieve the branches[1](https://bitbucket.org/blog/api-2-0-new-function-and-enhanced-usability):

bash

Explain

curl --request GET \

--url 'https://api.bitbucket.org/2.0/repositories/{workspace}/{repo\_slug}/branches' \

--header 'Authorization: Bearer <access\_token>' \

--header 'Accept: application/json'

Replace {workspace} with your Bitbucket workspace name, {repo\_slug} with your repository slug, and <access\_token> with a valid access token.The response will contain a JSON object with the following structure[1](https://bitbucket.org/blog/api-2-0-new-function-and-enhanced-usability):

json

Explain

{

"size": 142,

"page": 102,

"pagelen": 159,

"next": "<string>",

"previous": "<string>",

"values": [

{

"name": "<string>",

"type": "<string>",

"target": {

"hash": "<string>",

"repository": {

"links": {

"self": {

"href": "<string>"

},

"html": {

"href": "<string>"

}

},

"type": "<string>",

"name": "<string>",

"full\_name": "<string>",

"uuid": "<string>"

},

"links": {

"self": {

"href": "<string>"

},

"comments": {

"href": "<string>"

},

"patch": {

"href": "<string>"

},

"html": {

"href": "<string>"

},

"diff": {

"href": "<string>"

}

},

"author": {

"raw": "<string>",

"type": "<string>",

"user": {

"username": "<string>",

"nickname": "<string>",

"type": "<string>",

"uuid": "<string>",

"links": {

"self": {

"href": "<string>"

},

"html": {

"href": "<string>"

},

"avatar": {

"href": "<string>"

}

}

}

},

"summary": {

"raw": "<string>",

"markup": "<string>",

"html": "<string>",

"type": "<string>"

},

"date": "<string>",

"message": "<string>",

"type": "<string>"

}

}

]

}

The values array contains the details of each branch, including the branch name, commit hash, author, and commit message[1](https://bitbucket.org/blog/api-2-0-new-function-and-enhanced-usability).By following this syntax, you can easily retrieve a list of the latest branches in a Bitbucket repository using the Bitbucket API 2.0.

To retrieve a list of repositories using the Bitbucket API 2.0, you need to provide the following parameters[1](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access)[2](https://docs.atlassian.com/bitbucket-server/rest/5.15.0/bitbucket-rest.html)[3](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643):

1. **Workspace ID or UUID**
   * Use the endpoint GET /2.0/repositories/{workspace} to retrieve repositories for a specific workspace[2](https://docs.atlassian.com/bitbucket-server/rest/5.15.0/bitbucket-rest.html)
   * Replace {workspace} with the workspace ID or UUID enclosed in curly brackets[2](https://docs.atlassian.com/bitbucket-server/rest/5.15.0/bitbucket-rest.html)
2. **Authentication**
   * To retrieve private repositories, you need to authenticate using your regular credentials, username and app password, or an OAuth token[3](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643)
   * Use the --user {username}:{AppPassword} option in cURL or include the authentication headers in your API request[3](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643)
3. **Pagination Parameters (optional)**
   * Use the ?page= parameter to specify the page number of results to retrieve[1](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access)
   * Use the ?pagelen= parameter to control the number of results per page (maximum 100)[1](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access)[3](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643)
   * If you need to retrieve more than 100 results, make multiple requests using the next link from the previous response[1](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access)
4. **Filtering Parameters (optional)**
   * Use the ?q= parameter to filter repositories by project[4](https://confluence.atlassian.com/bbkb/get-repository-list-within-project-by-using-api-1189792152.html)
   * For example, to filter by project key: ?q=project.key%3D%22{ProjectKey}%22[4](https://confluence.atlassian.com/bbkb/get-repository-list-within-project-by-using-api-1189792152.html)

By providing the workspace ID or UUID, authenticating with valid credentials, and optionally using pagination and filtering parameters, you can retrieve a list of repositories using the Bitbucket API 2.0.

The maximum number of repositories that can be retrieved in a single request using the Bitbucket API 2.0 is 100[2](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643)[4](https://docs.atlassian.com/bitbucket-server/rest/5.15.0/bitbucket-rest.html).The API uses pagination to return results in pages. By default, each page contains up to 10 repositories[1](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access). To retrieve more repositories per page, you can use the pagelen parameter[2](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643):

GET /2.0/repositories/{workspace}?pagelen=100

This will return up to 100 repositories per page. However, the maximum allowed value for pagelen is 100[2](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643).If you need to retrieve more than 100 repositories, you'll need to make multiple requests using the next link from the previous response to navigate to the next page of results[2](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643).So in summary, while you can retrieve up to 100 repositories per request, there is no hard limit on the total number of repositories you can retrieve using the Bitbucket API 2.0 by making multiple paginated requests.

how can i retrieve all repositories using bitbucket api 2.0

Sources

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Answer

To retrieve all repositories using the Bitbucket API 2.0, follow these steps:

1. **Get a list of all workspaces your account has access to**[3](https://community.atlassian.com/t5/Bitbucket-questions/How-to-get-all-repositories-that-I-can-access-via-REST-API-2-0/qaq-p/2059188):

GET /2.0/workspaces/

This will return a list of workspaces, including the workspace ID and UUID.

1. **For each workspace, retrieve the repositories**[1](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643)[3](https://community.atlassian.com/t5/Bitbucket-questions/How-to-get-all-repositories-that-I-can-access-via-REST-API-2-0/qaq-p/2059188):

GET /2.0/repositories/{workspace}

Replace {workspace} with the workspace ID or UUID enclosed in curly brackets, e.g. {e4d1c5c2-b7f4-4405-9ac3-d7f9c4eb765a}.

1. **Use the pagelen parameter to increase the number of repositories per page**[1](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643):

GET /2.0/repositories/{workspace}?pagelen=100

This will return up to 100 repositories per page. The maximum allowed value for pagelen is 100[1](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643).

1. **Use the next link from the previous response to navigate to the next page of results**[1](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643).
2. **Repeat steps 2-4 for each workspace to retrieve all repositories you have access to**.

By following these steps and using the appropriate API endpoints, you can retrieve a list of all repositories accessible to your account across different workspaces using the Bitbucket API 2.0.Note that to retrieve private repositories, you need to authenticate using your regular credentials, username and app password, or an OAuth token[1](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643)[2](https://community.developer.atlassian.com/t/find-all-repositories-a-given-user-has-access-to/37680).

what is the syntax for authenticating with bitbucket api 2.0 to retrieve all repositories

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Answer

To authenticate with the Bitbucket API 2.0 and retrieve all repositories, you can use the following syntax:

bash

Explain

curl --request GET \

--url 'https://api.bitbucket.org/2.0/repositories/{workspace}?pagelen=100' \

--header 'Authorization: Bearer <access\_token>' \

--header 'Accept: application/json'

Here's how to use this syntax:

1. Replace {workspace} with the workspace ID or UUID enclosed in curly brackets, e.g. {e4d1c5c2-b7f4-4405-9ac3-d7f9c4eb765a}[2](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access).
2. Replace <access\_token> with a valid OAuth access token for authentication[1](https://community.developer.atlassian.com/t/find-all-repositories-a-given-user-has-access-to/37680)[2](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access). You can obtain an access token by creating an OAuth consumer in your Bitbucket account settings.
3. Set the pagelen parameter to the maximum allowed value of 100 to retrieve the most repositories per page[3](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643).
4. Use the next link from the previous response to navigate to the next page of results and retrieve all repositories[3](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643).
5. If you need to retrieve private repositories, you must authenticate using your regular credentials, username and app password, or an OAuth token[2](https://stackoverflow.com/questions/23490763/how-to-get-a-full-list-of-repositories-that-a-user-is-allowed-to-access)[3](https://community.atlassian.com/t5/Bitbucket-discussions/How-to-list-all-repositories-of-a-team-through-Bitbucket-REST/td-p/1142643).

By following this syntax and using the appropriate API endpoints, you can authenticate with the Bitbucket API 2.0 and retrieve a list of all repositories accessible to your account across different workspaces.

Share

Rewrite

what authentication method is recommended for bitbucket api 2.0

Answer

The recommended authentication methods for the Bitbucket API 2.0 are[2](https://developer.atlassian.com/server/bitbucket/rest/v819/intro/)[3](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)[4](https://developer.atlassian.com/server/bitbucket/how-tos/example-basic-authentication/):

1. **HTTP Basic Authentication (when using SSL)**
   * Provide your username and password in the Authorization header using the Basic scheme[4](https://developer.atlassian.com/server/bitbucket/how-tos/example-basic-authentication/)
   * Example: Authorization: Basic ZnJlZDpmcmVk
2. **OAuth 2.0**
   * Use the OAuth 2.0 flow to obtain an access token[1](https://www.miniorange.com/atlassian/bitbucket-rest-api-authentication)[3](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)
   * Include the access token in the Authorization header using the Bearer scheme[1](https://www.miniorange.com/atlassian/bitbucket-rest-api-authentication)
   * Example: Authorization: Bearer <access\_token>

Other supported authentication methods include[2](https://developer.atlassian.com/server/bitbucket/rest/v819/intro/):

* HTTP Cookies
* HTTP Access Tokens

It's important to note that[3](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html):

* When Two-Factor Authentication (2FA) is enabled on a Bitbucket account, username/password Basic Auth access to the REST APIs is suspended
* In this case, you should use either:
  + Username/app-specific-password Basic Auth for REST APIs
  + OAuth for REST APIs

By following the recommended practices of using HTTP Basic Authentication or OAuth 2.0, you can securely authenticate with the Bitbucket API 2.0 and interact with the API endpoints.

The main differences between Basic Authentication and OAuth Authentication for the Bitbucket API 2.0 are:

Basic Authentication

* Uses a username and password in the Authorization header[1](https://www.miniorange.com/atlassian/bitbucket-rest-api-authentication)[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)
* Example: Authorization: Basic ZnJlZDpmcmVk
* Considered less secure, especially when 2FA is enabled[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)
* Suspended when Two-Factor Authentication (2FA) is enabled on the Bitbucket account[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)

OAuth 2.0 Authentication

* Uses an access token obtained through the OAuth 2.0 flow[1](https://www.miniorange.com/atlassian/bitbucket-rest-api-authentication)[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)
* Included in the Authorization header using the Bearer scheme
* Example: Authorization: Bearer <access\_token>
* Considered more secure, especially when 2FA is enabled[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)
* Recommended authentication method when 2FA is enabled[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)[3](https://developer.atlassian.com/server/bitbucket/rest/v819/intro/)
* Bitbucket implements OAuth 2.0 with Refresh Tokens to handle access token expiration[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)

Other differences:

* Basic Auth can be used with app-specific passwords when 2FA is enabled[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)
* OAuth Auth requires an additional authentication flow when 2FA is enabled[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)
* OAuth Auth is the intended method for user interactions with Git repositories when 2FA is enabled[2](http://microsoft.github.io/Git-Credential-Manager-for-Windows/Docs/Bitbucket.html)

In summary, while Basic Authentication is simpler, OAuth 2.0 is the recommended and more secure authentication method for the Bitbucket API 2.0, especially when Two-Factor Authentication (2FA) is enabled on the Bitbucket account.

Here's how you can retrieve and pull the latest branch from a Bitbucket repository using the Bitbucket API 2.0:

python

Explain

**import** requests

**import** json

*# Set your Bitbucket API credentials*

username = 'your\_username'

app\_password = 'your\_app\_password'

*# Set the repository details*

workspace = 'your\_workspace'

repo\_slug = 'your\_repo\_slug'

*# Set the API endpoint URL*

url = f'https://api.bitbucket.org/2.0/repositories/{workspace}/{repo\_slug}/refs/branches'

*# Set the authentication headers*

headers = {

'Accept': 'application/json',

'Authorization': f'Basic {(username + ":" + app\_password).encode().decode("utf-8")}'

}

*# Make the API request to retrieve the branches*

response = requests.get(url, headers=headers)

*# Check if the request was successful*

**if** response.status\_code == 200:

*# Parse the JSON response*

data = json.loads(response.text)

*# Get the latest branch*

latest\_branch = data['values'][0]

*# Extract the branch name and commit hash*

branch\_name = latest\_branch['name']

commit\_hash = latest\_branch['target']['hash']

**print**(f'Latest branch: {branch\_name}')

**print**(f'Latest commit: {commit\_hash}')

*# Pull the latest branch*

*# You can use a Git library like GitPython to pull the branch*

*# Example using GitPython:*

*# repo = git.Repo('/path/to/your/repo')*

*# repo.git.pull('origin', branch\_name)*

**else**:

**print**(f'Error retrieving branches: {response.status\_code} - {response.text}')

Here's how the code works:

1. Set your Bitbucket API credentials (username and app password).
2. Set the repository details (workspace and repo slug).
3. Construct the API endpoint URL to retrieve the branches.
4. Set the authentication headers using Basic authentication with your username and app password.
5. Make the API request using the requests library.
6. Check if the request was successful (status code 200).
7. Parse the JSON response to get the list of branches.
8. Get the latest branch from the values list.
9. Extract the branch name and latest commit hash from the branch data.
10. Print the latest branch name and commit hash.
11. Pull the latest branch using a Git library like GitPython (commented out in the example).

Note: Make sure to replace 'your\_username', 'your\_app\_password', 'your\_workspace', and 'your\_repo\_slug' with your actual Bitbucket credentials and repository details.Also, ensure that you have the necessary permissions to access the repository and pull the latest branch.By following this code, you can retrieve the latest branch from a Bitbucket repository using the Bitbucket API 2.0 and pull the latest changes to your local repository.

To retrieve the latest branch from a Bitbucket repository using the Bitbucket API 2.0, you can use the following syntax[1](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository)[3](https://community.atlassian.com/t5/Bitbucket-questions/Getting-branches-from-a-repository-via-bitbucket-Rest-API/qaq-p/1981933)[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187):

GET /2.0/repositories/{workspace}/{repo\_slug}/refs/branches

Replace {workspace} with your Bitbucket workspace name and {repo\_slug} with your repository slug.This endpoint will return a paginated list of branches for the specified repository[3](https://community.atlassian.com/t5/Bitbucket-questions/Getting-branches-from-a-repository-via-bitbucket-Rest-API/qaq-p/1981933).To get the latest branch, you can access the first element of the values array in the response JSON[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187).Here's an example cURL request to retrieve the latest branch[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187):

bash

Explain

curl --request GET \

--url 'https://api.bitbucket.org/2.0/repositories/{workspace}/{repo\_slug}/refs/branches' \

--header 'Authorization: Bearer <access\_token>' \

--header 'Accept: application/json'

Replace {workspace}, {repo\_slug}, and <access\_token> with your actual values.The response will contain a JSON object with the following structure[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187):

json

Explain

{

"values": [

{

"name": "<string>",

"type": "<string>",

"target": {

"hash": "<string>",

"date": "<string>"

}

}

]

}

The target object in the response provides details about the latest commit on the branch, including the commit hash and date[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187).By following this syntax and using the appropriate API endpoint, you can retrieve the latest branch from a Bitbucket repository using the Bitbucket API 2.0.

To retrieve all the branches from a Bitbucket repository using the Bitbucket API 2.0 and determine the one with the latest update, you can follow these steps:

1. **Use the following API endpoint to retrieve the branches**[1](https://community.developer.atlassian.com/t/how-to-get-all-branches-instead-of-only-10-by-rest-api-2-0/27050)[2](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository)[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187):

GET /2.0/repositories/{workspace}/{repo\_slug}/refs/branches

Replace {workspace} with your Bitbucket workspace name and {repo\_slug} with your repository slug.

1. **Optionally, you can specify the pagelen parameter to control the number of branches returned per page**[1](https://community.developer.atlassian.com/t/how-to-get-all-branches-instead-of-only-10-by-rest-api-2-0/27050):

GET /2.0/repositories/{workspace}/{repo\_slug}/refs/branches?pagelen=100

This will return up to 100 branches per page. The maximum allowed value for pagelen is 100[1](https://community.developer.atlassian.com/t/how-to-get-all-branches-instead-of-only-10-by-rest-api-2-0/27050).

1. **If there are more than 100 branches, use the next link from the previous response to navigate to the next page of results**[1](https://community.developer.atlassian.com/t/how-to-get-all-branches-instead-of-only-10-by-rest-api-2-0/27050).
2. **The response will contain a JSON object with the values array, which includes the details of each branch**[2](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository)[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187).
3. **To determine the branch with the latest update, look for the branch with the most recent date value in the target object**[4](https://community.atlassian.com/t5/Bitbucket-questions/Bitbucket-REST-API-getting-branches/qaq-p/2197187).

Here's an example Python code snippet to retrieve all branches and find the latest updated branch[2](https://stackoverflow.com/questions/71603877/bitbucket-api-rest-getting-branches-from-a-repository)[3](https://bitbucket.org/blog/api-2-0-new-function-and-enhanced-usability):

python

Explain

**import** requests

**import** json

*# Set the repository details*

workspace = 'your\_workspace'

repo\_slug = 'your\_repo\_slug'

*# Set the API endpoint URL*

url = f'https://api.bitbucket.org/2.0/repositories/{workspace}/{repo\_slug}/refs/branches'

*# Make the API request to retrieve the branches*

response = requests.get(url)

*# Parse the JSON response*

data = json.loads(response.text)

*# Get the list of branches*

branches = data['values']

*# Find the branch with the latest update*

latest\_branch = max(branches, key=**lambda** x: x['target']['date'])

*# Extract the branch name and latest commit hash*

branch\_name = latest\_branch['name']

commit\_hash = latest\_branch['target']['hash']

**print**(f'Latest branch: {branch\_name}')

**print**(f'Latest commit: {commit\_hash}')

By following these steps and using the appropriate API endpoint, you can retrieve all the branches from a Bitbucket repository using the Bitbucket API 2.0 and determine the one with the latest update based on the date value in the target object of the branch data.