

Using REST API in Drupal8

- REST stands for **Representational State Transfer**. REST is a web standards based architecture and uses HTTP Protocol for data communication. It revolves around resources where every component is a resource and a resource is accessed by a common interface using HTTP standard methods.
- **RESTful** Web Services are basically REST Architecture based Web Services. In REST Architecture everything is a resource. RESTful web services are light weight, highly scalable and maintainable and are very commonly used to create APIs for web-based applications.

REST API Installation with Drupal8

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REST UI

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Posted by juampynr on March 9, 2013 at 7:24am

Very basic user interface for Drupal 8's REST module.

Please install the development version. I will create a new stable release once Drupal 8 gets to its first beta. I can't find a way to remove the current stable release from the UI.

```
drush dl restui-8.x-1.x
```

Project Information

Module	Version	Download	Install
restui	8.x-1.x	100%	100%

[Download](#) [Install](#)

Maintainers for REST UI

[clemens.tolboom](#) – 10 commits
last: 6 months ago, first: 1 year ago

[-enzo-](#) – 3 commits
last: 6 months ago, first: 11 months ago

[juampy](#) – 35 commits
last: 1 year ago, first: 2 years ago

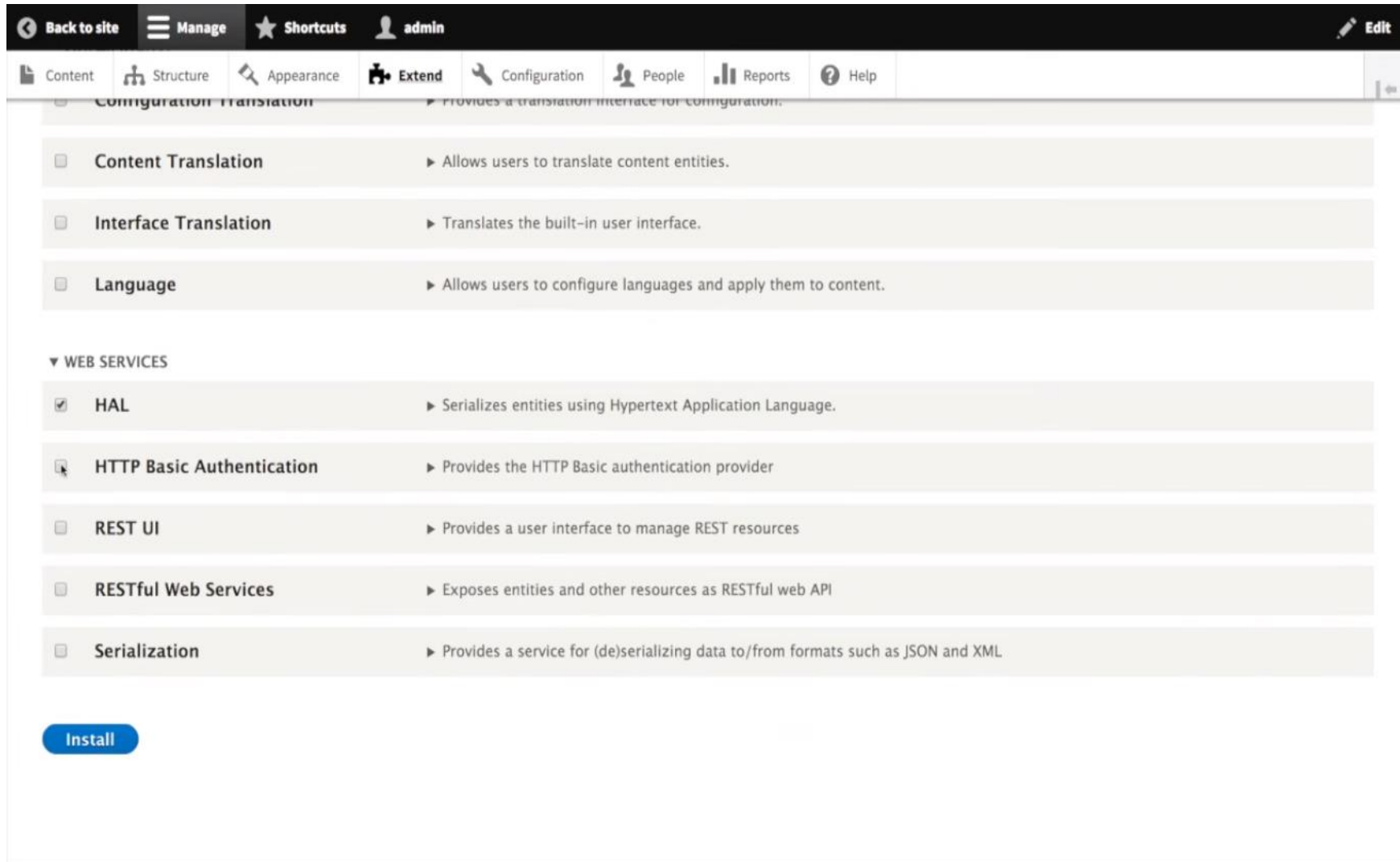
[View all committers](#)



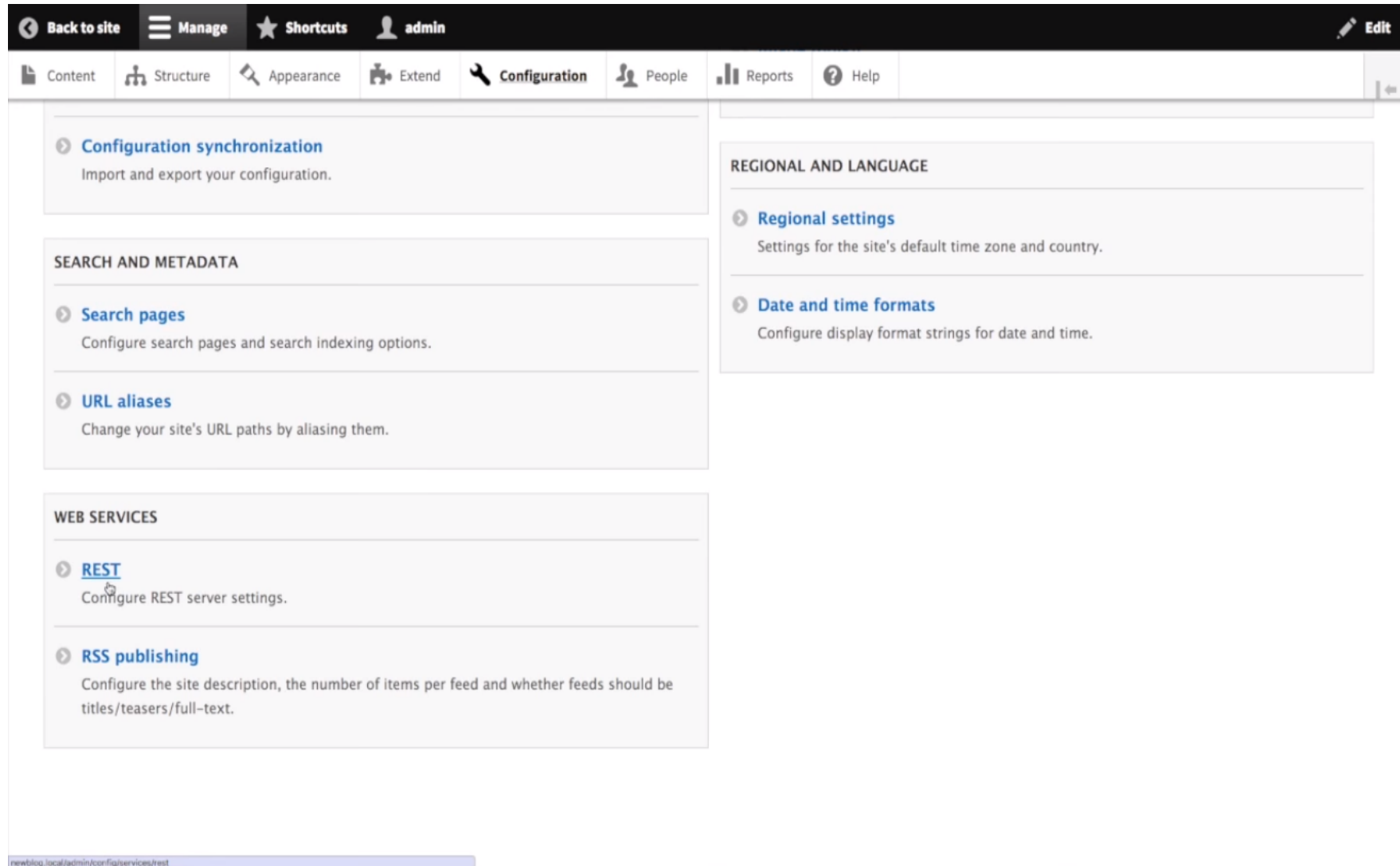
On the Web:

<https://www.drupal.org/project/restui>

REST API Installation with Drupal8



REST API Installation with Drupal8



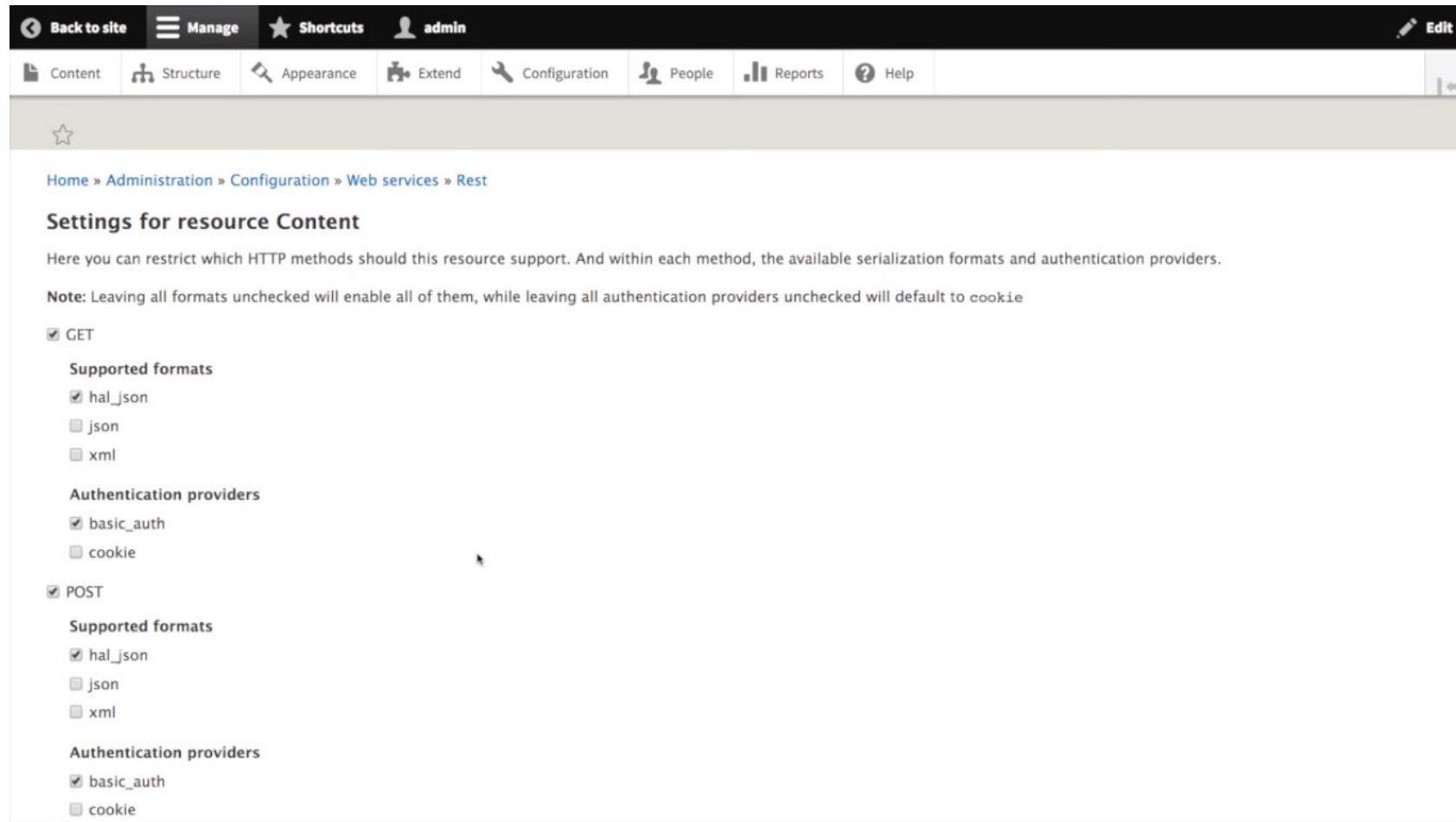
REST API Installation with Drupal8

The screenshot shows the Drupal 8 administration interface for REST resources. The top navigation bar includes links for 'Back to site', 'Manage', 'Shortcuts', and the user 'admin'. Below this is a secondary navigation bar with icons for Content, Structure, Appearance, Extend, Configuration, People, Reports, and Help. The main content area is titled 'REST resources' with a star icon. A breadcrumb trail reads 'Home » Administration » Configuration » Web services'. The section is titled 'REST resources' and includes a descriptive paragraph: 'Here you can enable and disable available resources. Once a resource has been enabled, you can restrict its formats and authentication by clicking on its "Edit" link.' Below this, there are two sections: 'Enabled' and 'Disabled'. The 'Enabled' section contains a table with one resource.

RESOURCE NAME	PATH	DESCRIPTION	OPERATIONS
Content	//node/{node}	GET authentication: basic_auth formats: hal_json POST authentication: basic_auth formats: hal_json PATCH authentication: basic_auth formats: hal_json DELETE authentication: basic_auth formats: hal_json	Edit

The 'Disabled' section is currently empty, showing only the table headers: RESOURCE NAME, PATH, DESCRIPTION, and OPERATIONS.

REST API Installation with Drupal8



REST API Installation with Drupal8

PERMISSION				ANONYMOUS USER	AUTHENTICATED USER	ADMINISTRATOR
REST UI						
Administer rest resources				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Warning: Give to trusted roles only; this permission has security implications. Configure rest resources.						
RESTful Web Services						
Access DELETE on Content resource				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Access GET on Content resource				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Access PATCH on Content resource				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Access POST on Content resource				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Search						
Administer search				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Use advanced search				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Use search				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Shortcut						
Administer shortcuts				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

REST API Configuration

Steps :

- Create Content type marksdetail
- Add fields with content type
 - Name, Subject, Marks
- Create student records for the marksdetail
- Create view for marksdetail
- Edit title (remove the link) and add fields to the view
- **Link REST API EXPORT setting and put REST EXPORT PATH**
- Represent the data as JSON , XML, HTML etc
- View the data using JSON EDITOR
- Do data manipulation like GET,PUT,UPDATE etc using POSTMAN

REST API Configuration

Back to site Manage Shortcuts admin

Content Structure Appearance Extend Configuration People Reports Help

Add new view ☆

Home » Administration » Structure » Views

View basic information

View name *
Article REST Export Machine name: article_rest_export_ [Edit]

☐ **Description**

View settings

Show: Content **of type:** Article **tagged with:** **sorted by:** Newest first

Page settings

☐ **Create a page**

Block settings

☐ **Create a block**

REST export settings

☒ **Provide a REST export**

REST export path
http://localhost/rest/export/json/article

Save and edit Cancel

REST API Configuration

[Back to site](#) [Manage](#) [Shortcuts](#) [admin](#)

[Content](#) [Structure](#) [Appearance](#) [Extend](#) [Configuration](#) [People](#) [Reports](#) [Help](#)

Displays

REST export [+Add](#)

Display name: REST export

TITLE
Title: None

FORMAT
Format: [Serializer](#) | [Settings](#)
Show: [Entity](#)

FIELDS
The selected style or row format does not use fields.

FILTER CRITERIA [Add](#) [▼](#)
[Content: Publishing status \(Yes\)](#)
[Content: Type \(= Article\)](#)

SORT CRITERIA [Add](#) [▼](#)
[Content: Authored on \(desc\)](#)

PATH SETTINGS
Path: [/rest/export/json/articl...](#)
Access: [Permission](#) | [View published content](#)

HEADER
The selected display type does not use header plugins

FOOTER
The selected display type does not use footer plugins

NO RESULTS BEHAVIOR
The selected display type does not use empty plugins

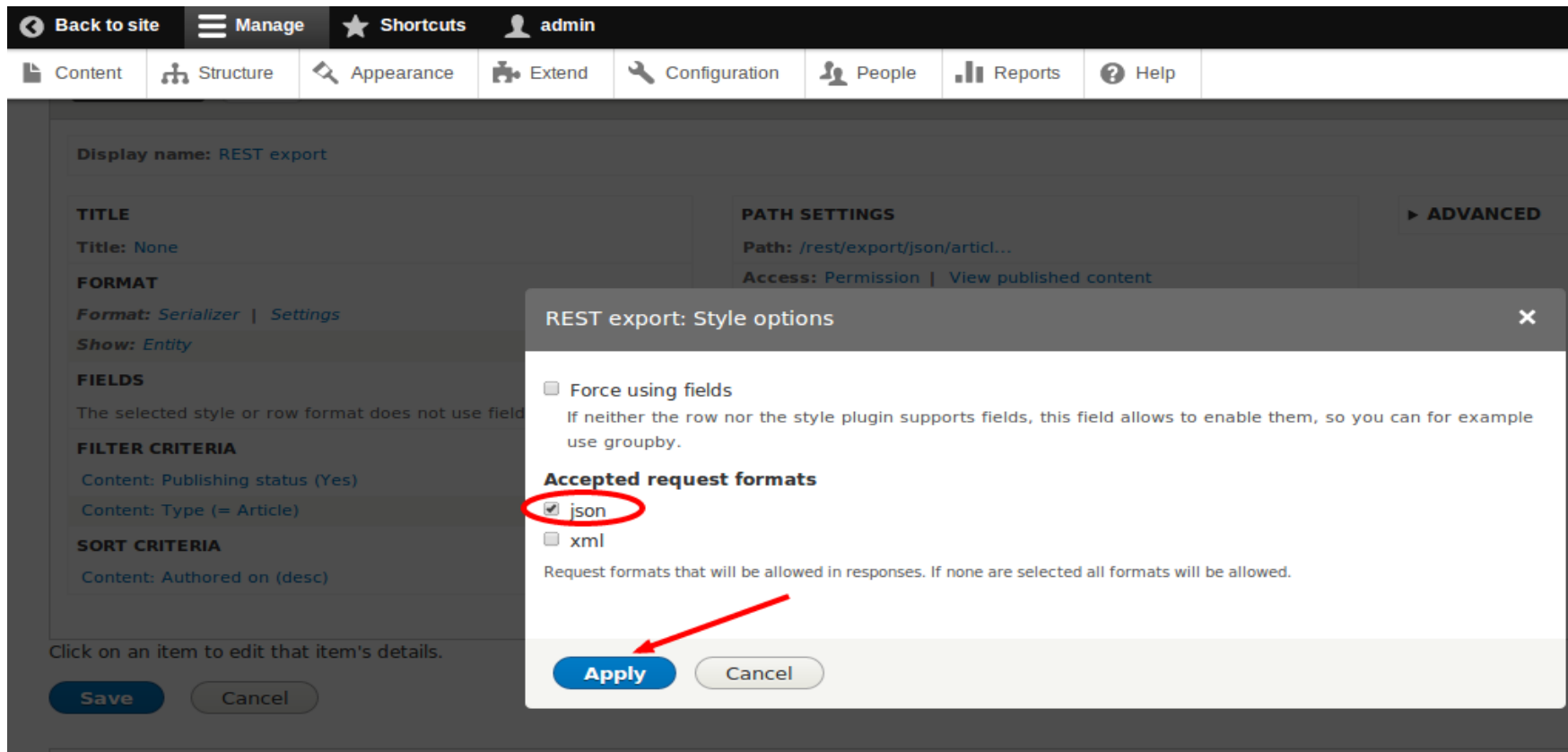
PAGER
Items to display: [Display a specified number of items](#) | 10 items

Click on an item to edit that item's details.

[Save](#) [Cancel](#)

REST API Configuration

- Tick the box against “**json**” since the data will be in json format. Click “**Apply**”. Finally, save the view by clicking the “**Save**” button.



REST API Configuration

[Back to site](#) [Manage](#) [Shortcuts](#) [admin](#) [Tour](#) [Edit](#)

[Content](#) [Structure](#) [Appearance](#) [Extend](#) [Configuration](#) [People](#) [Reports](#) [Help](#)

[Save](#) [Cancel](#)

Preview

☒ Auto preview

Preview with contextual filters: [Update preview](#)
Separate contextual filter values with a "/". For example, 40/12/10.

Title
/api/articles

```
[{"title": "<a href='\"\\node\\53\\\" hreflang='\"en\">Test post</a>", "body": "<p>A test post from POSTman</p>\n"}, {"title": "<a href='\"\\node\\27\\\" hreflang='\"en\">Damnum Dignissim</a>", "body": "<p>Dolore luctus modo mos occuro patria suscipere ulciscor utrum vulputate. Abluo aliquam hos modo nobis os similis wisi. Feugiat odio tēgo ulla corporer. Blandit comis gemino molior quae sit. Antehabeo autem diam dolore facilisi ut. Facilis metuo minim nisl olim pagus pala turpis validus virtus.</p>\n<p>Ad autem dignissim dolore mauris nisl secundum sudo. Abbas consectetur eum haero mos os pneum sed veniam. Adipiscing comis dolor gravis os rusticus sit. Consectetur distineo gravis mauris secundum torqueo venio virtus. Damnum ideo quis rusticus.</p>\n<p>Defui nibh valde verto. Amet augue minim tincidunt velit. Bene defui minim persto tego typicus. Cui damnum haero ideo modo obruo os virtus. Os saepius saluto. Ex huic macto sit veniam. Comis eligo neo te. Brevitas feugiat huic humo plaga similis venio voco.</p>\n<p>Appellatio capto immitto metuo vindico. Cui defui ulciscor. Capto causa importunus modo natu utrum velit vero vicis. Camur dui eum imputo jumentum. Gilvus pneum qui saepius suscipit volutpat zelus. Abigo ea patria praesent roto zelus. Blandit eu illum ludus refoveo torqueo uxor.</p>\n<p>Abigo immitto jumentum venio. Bene cui gilvus molior persto pertineo plaga sit. Feugiat jumentum nobis pecus premo tum utrum verto volutpat vulputate. Facilisi ibidem in loquor plaga premo suscipere. Abico bene ibidem neo paulatim rusticus sit. Dolor ea ludus pagus pertineo turpis. Capto exputo interdico jus nibh occuro paratus roto.</p>\n<p>Immitto magna nulla pagus paratus pneum scisco vel. Caecus humo paratus verto. Abbas feugiat ille in ludus nostrud qui refoveo. Gilvus pneum sino. Caecus mos nibh. Dolore hendrerit incaesum qui suscipere velit vero verto.</p>\n<p>Camur ideo pertineo pneum populus quidem verto. Hos neo nimis olim quadrum quae quidne suscipit turpis utinam. Caecus gilvus importunus iriure obruo oppeto. Gemino luptatum macto. Capto eros exputo feugiat immitto os quae valetudo. Amet blandit distineo pecus sed usitas ut. Caecus gilvus haero. Duis ea esca exerci secundum. Exputo iriure iustum lenis meus olim praemitto saepius te. Exputo facilisi illum lenis lucidus macto paratus tego usitas valetudo.</p>\n<p>Aliquip amet hendrerit olim patria probo roto. Ex gemino minim nobis praemitto tation vmo. Capto ulciscor verto vindico vuloes. Dolus importunus magna nostrud plaga virtus.</p>\n<p>Et feugiat jumentum
```

REST API Configuration

Once you saved the view, you can test the end point using any REST client. Here, we are using "**Advanced REST client**", an extension of Google Chrome browser. For installing this, type in "<https://chrome.google.com/webstore/category/apps>" in your Google Chrome browser. Search for "**rest client**" as shown in the image below. You will find "**Advanced REST client**". Click "**FREE**" to install the application.

REST API Configuration

The screenshot shows the Chrome Web Store interface. A red circle highlights the search bar containing the text 'rest client' and the 'chrome web store' header. Below the search bar, there are navigation links: « Home, Apps, Extensions, and Themes. The 'Apps' section is selected. The search results display two apps: 'Advanced REST client' and 'Postman - REST Client'. A red arrow points to the '+ FREE' button for the 'Advanced REST client'.

chrome web store

rest client x

« Home

Apps

Extensions

Themes

FEATURES

☐ Runs Offline

☐ By Google

☐ Free

Apps

More App Results

Advanced REST client
from restforchrome.blogspot.com

The web developers helper program to create and test custom HTTP requests.

+ FREE

Developer Tools

★★★★★ (6851)

Postman - REST Client
from www.getpostman.com

Postman helps you be more efficient while working with APIs. Postman is a scratch-your-own-itch project. The need for it arose...

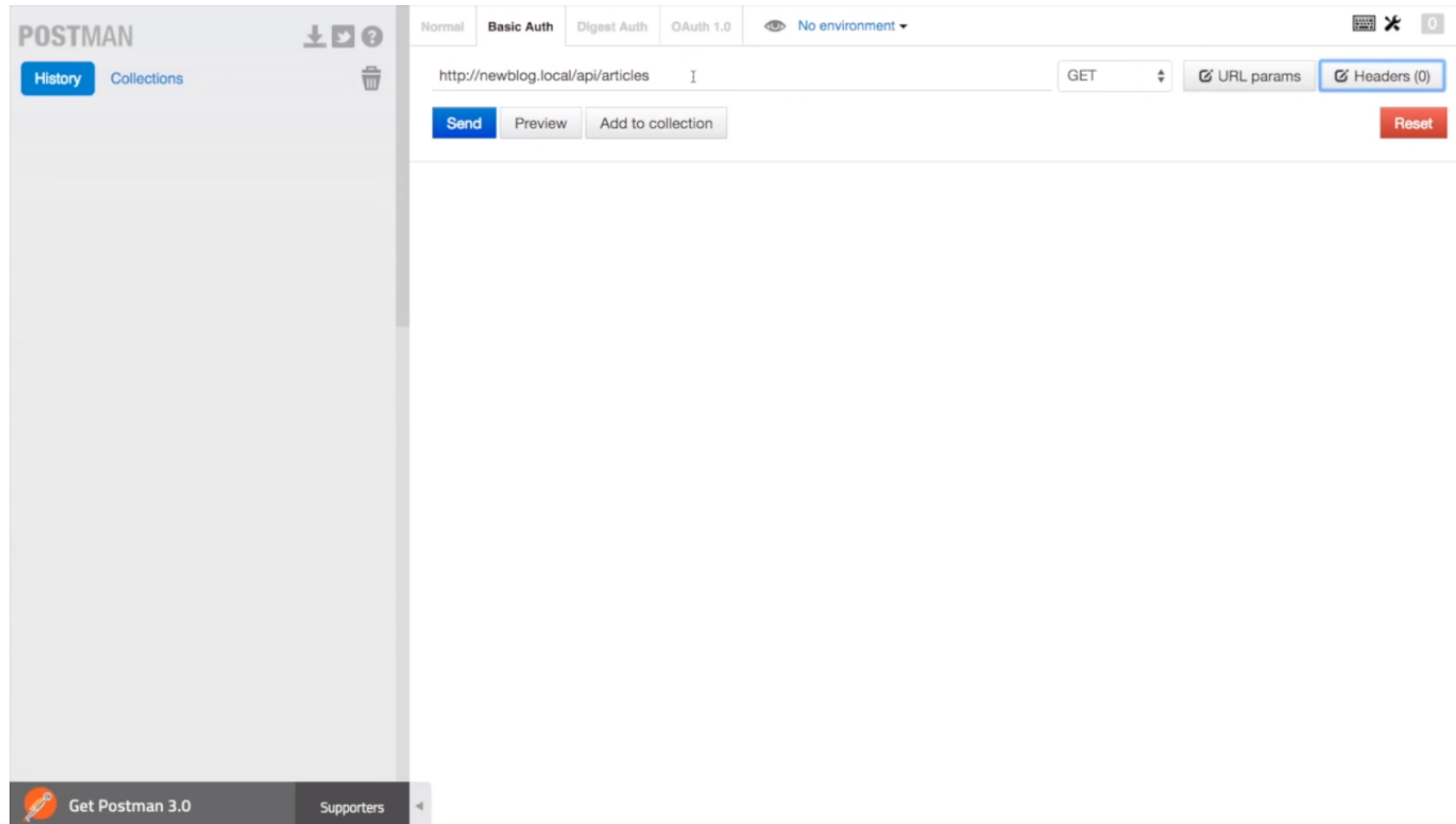
+ FREE

Developer Tools

★★★★★ (2655)

⚡

REST API Configuration



REST API Configuration

Normal

Basic Auth

Digest Auth

OAuth 1.0

No environment ▼

http://newblog.local/entity/node

GET

URL

Authorization

Basic YWRtaW46YWRtaW4=

✕

Content-Type

hal+json

✕

Header

Value

Send

Preview

Add to collection

Body

Cookies (1)

Headers (17)

STATUS 200 OK

TIME 475 ms

Pretty

Raw

Preview

JSON

XML

1

<?xml version="1.0"?>

2

<response>

3

<nid>


4


<value>1</value>

5

</nid>

REST API Configuration

Normal Basic Auth Digest Auth OAuth 1.0  No environment ▼

http://newblog.local/entity/node POST  URL

Authorization Basic YWRtaW46YWRtaW4= ✕

Content-Type hal+json ✕

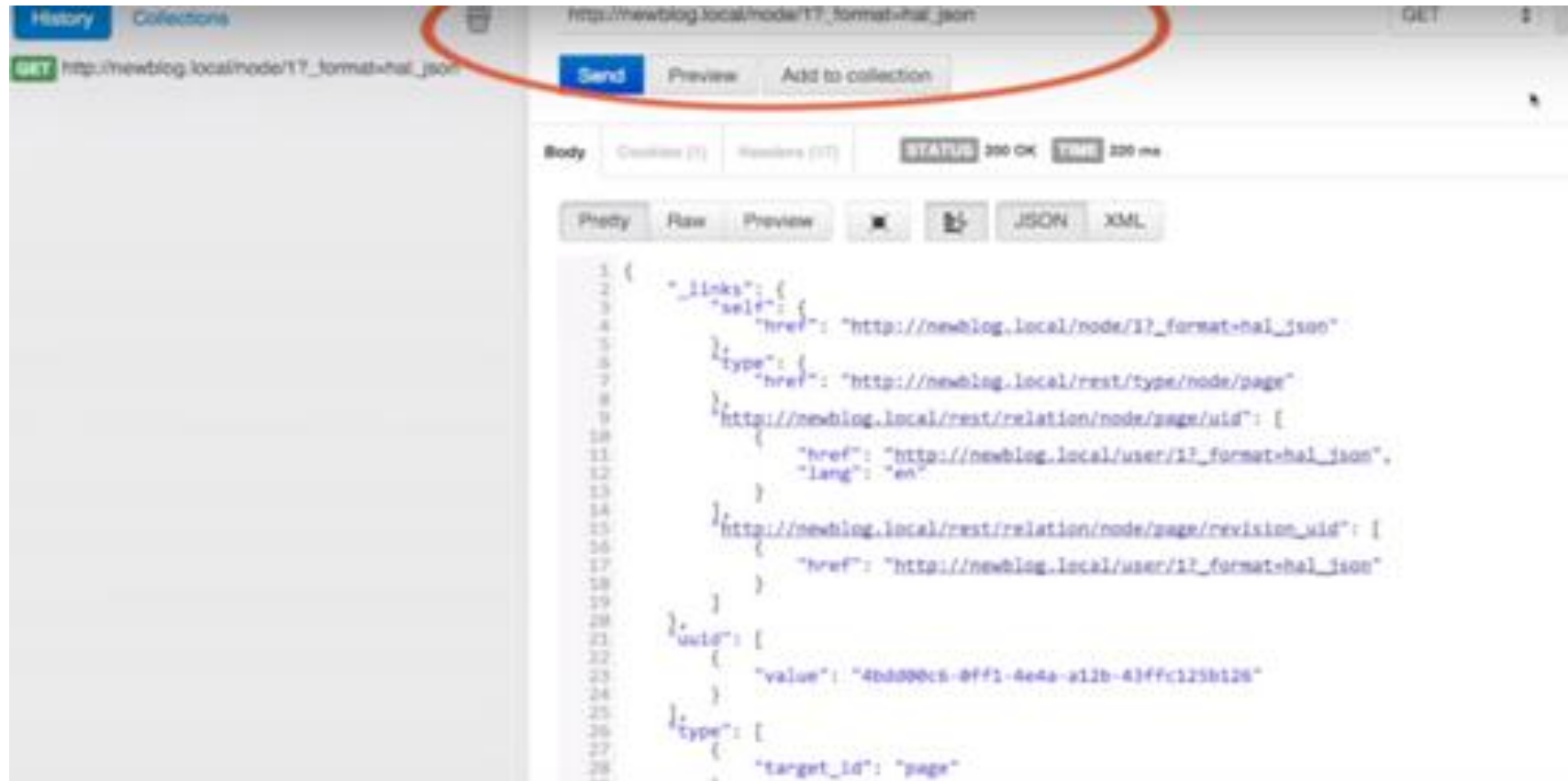
Header Value

form-data x-www-form-urlencoded raw Text ▼

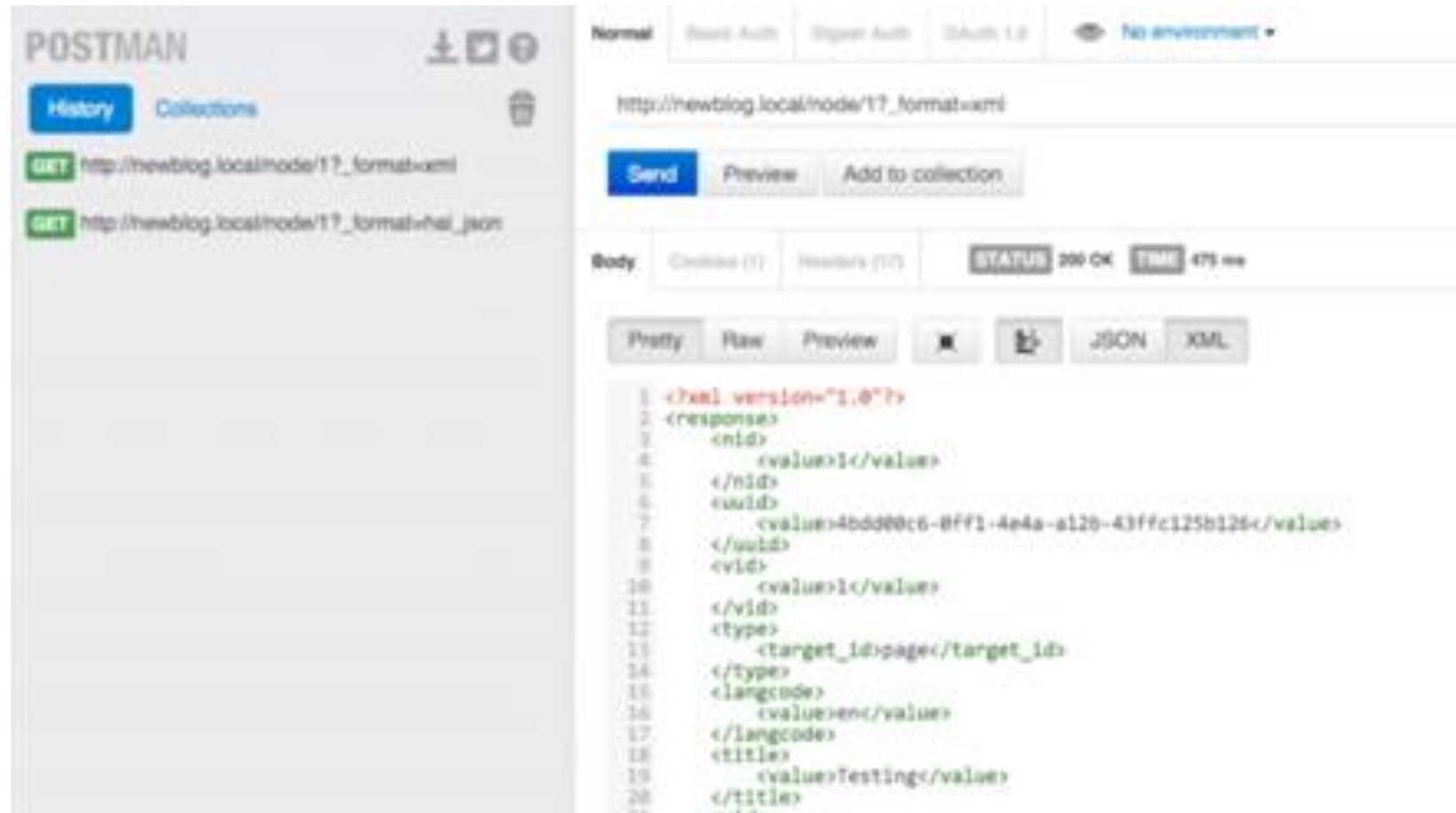
1 |

Manage presets

REST API Configuration



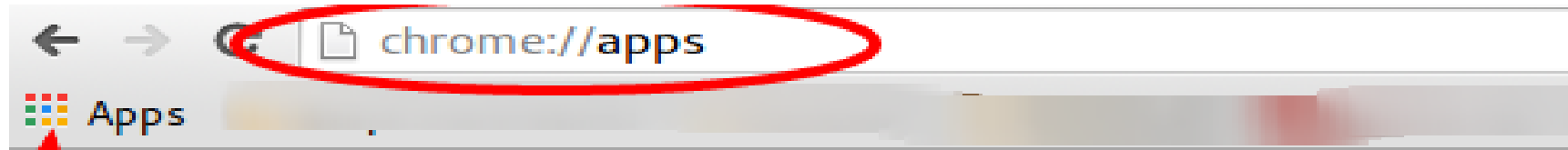
REST API Configuration



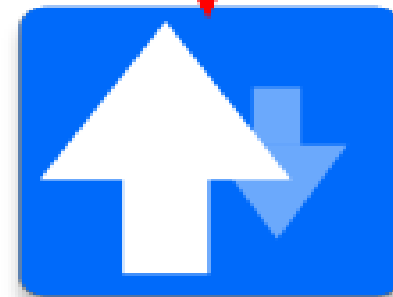
REST API Configuration

After installing the rest client, go to the path "**chrome://apps/**" on your Google Chrome browser or click the "**Apps**" icon on the bookmarks bar of your Google-Chrome browser. Then select the "**Advanced REST client**" application.

REST API Configuration



Store



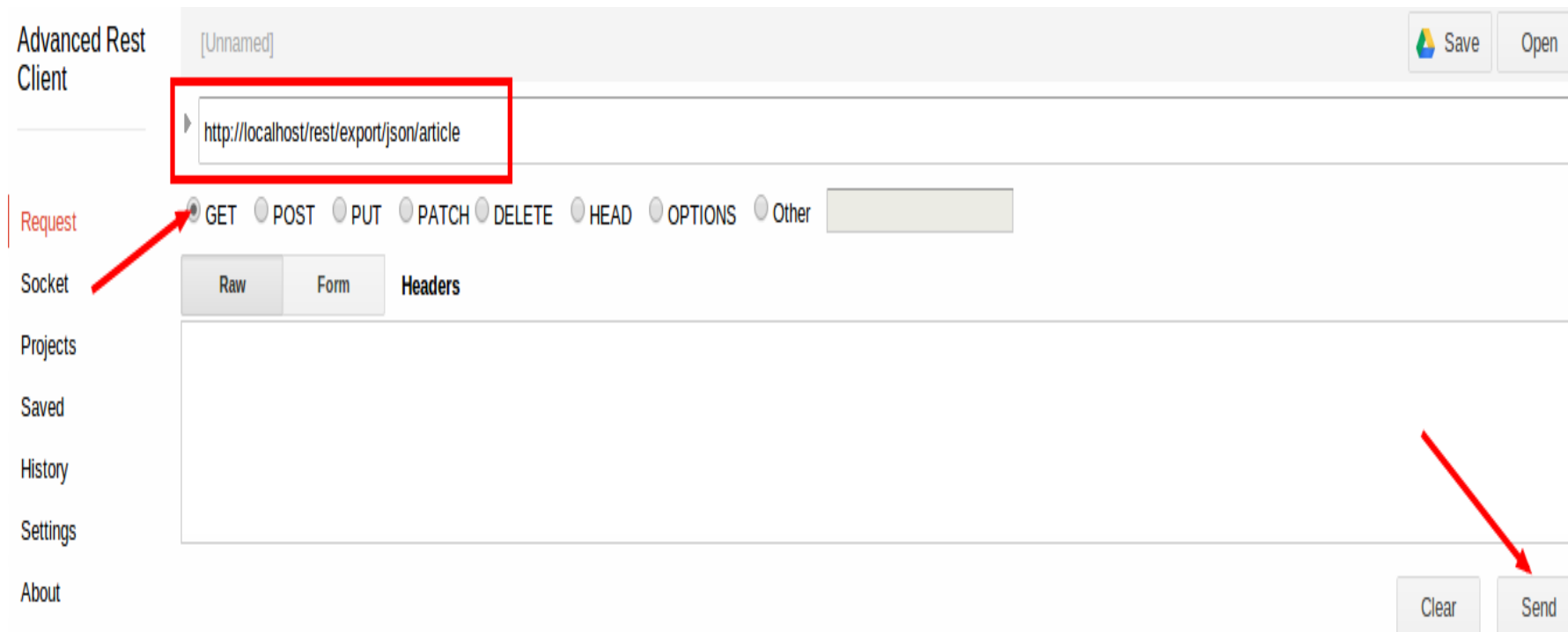
Advanced REST client

REST API Configuration

In "**Advanced REST client**", we need to provide the path of the end point. Here our path is "<http://localhost/rest/export/json/article>". Select "**GET**" and click "**Send**" as shown in the following picture.

REST API Configuration

After you send the request, you will get a response "**Status Code: 200 - OK**", which is a standard response for successful HTTP requests. This is how the successful response looks:



REST API Configuration

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Scroll to top

Status **200 OK** ?

Loading time: 1021 ms

Request headers

User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/34.0.1847.137 Safari/537.36
Content-Type: text/plain; charset=utf-8
Accept: */*
Accept-Encoding: gzip, deflate, sdch
Accept-Language: en-US, en; q=0.8
Cookie: _ga=GA1.1.8884505.1423805548; Drupal.tableDrag.showWeight=0; Drupal.toolbar.collapsed=0; SESS49960de588c

Response headers

Server: nginx/1.4.4
Content-Type: application/json
X-Powered-By: PHP/5.4.9-4ubuntu2
Cache-Control: must-revalidate, no-cache, post-check=0, pre-check=0, private
X-UA-Compatible: IE=edge, chrome=1
Content-language: en
Expires: Sun, 19 Nov 1978 05:00:00 GMT
Content-Length: 81543
Accept-Ranges: bytes
Date: Wed, 18 Feb 2015 16:44:18 GMT
X-Varnish: 460094006
Age: 0
Via: 1.1 varnish
Connection: keep-alive

Raw

JSON

Response

[Copy to clipboard](#) [Save as file](#)

```
[10]
-0: {
  -nid: [1]
  -0: {
    value: "22"
  }
}
```