

DEMISTO – INTEGRATION ASSIGNMENT

BACKGROUND – REQUIRED KNOWLEDGE

This assignment will require basic knowledge in the following issues. You may read basic and additional info in the links attached:

- REST API

REST (Representational State Transfer) API is a commonly used modern communication protocol, that utilize the http protocol.

Wikipedia

https://en.wikipedia.org/wiki/Representational_state_transfer

Tools

Postman – a visual tool to send REST requests

<https://www.getpostman.com/docs/>

CURL – a CLI tool to send REST requests

<https://curl.haxx.se/>

Other tools for sending HTTP request exist, both CLI and GUI – wget, dhc etc.

You may read about them and use them.

All of the above are utilities that may help You better understand working with REST APIs, yet not a part of the assignment itself.

- JSON

JSON (JavaScript Object Notation) is a textual formatting of objects. It is widely used in both communication and databases.

Wikipedia

<https://en.wikipedia.org/wiki/JSON>

Tools

JavaScript – working with JSON

<https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Objects/JSON>

Python – working with JSON

<http://python-guide-pt-br.readthedocs.io/en/latest/scenarios/json/>

- Markdown

Markdown is a formatting script, to create text with visual attributes using standard text.

A simple common example is wrapping an object in **bold**, which will write **bold**.

The format is commonly used in sites like Wikipedia, Github and others.

Wikipedia

<https://en.wikipedia.org/wiki/Markdown>

Github documentation

<https://guides.github.com/features/mastering-markdown/>

Tutorial

<http://www.markdowntutorial.com/>

Markdown online

<http://dillinger.io/>

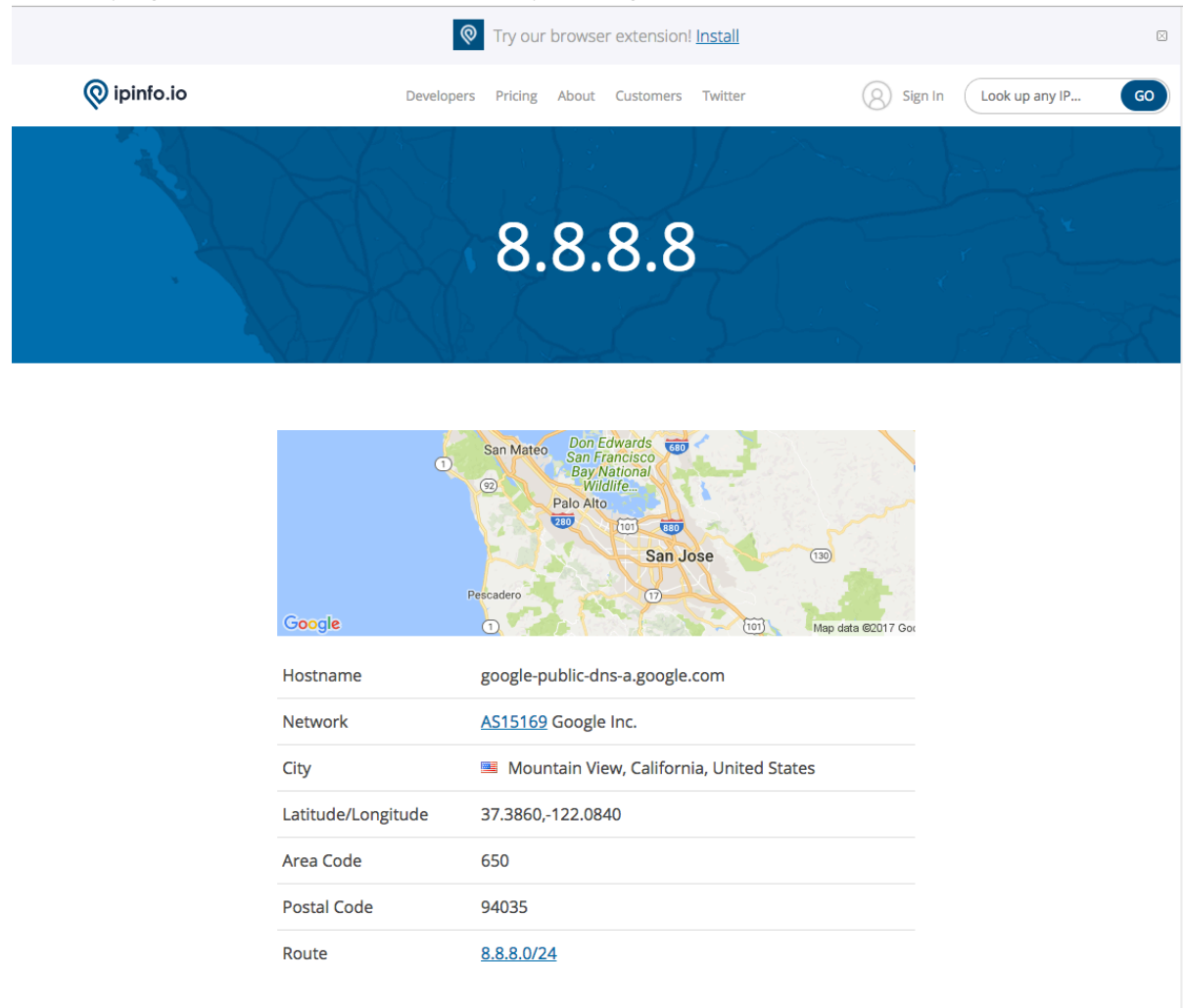
BACKGROUND – IPINFO

IPInfo is a freemium service (allow the service for free but with some limitation) which allow you to query information regarding IPs.

This can be done by either their website, or a REST API.

<https://ipinfo.io/>

In the top right corner, You can search for any IP and get details about it:



The screenshot shows the IPInfo website interface. At the top, there's a navigation bar with links for Developers, Pricing, About, Customers, and Twitter. A search bar is present with the text "Look up any IP..." and a "GO" button. The main content area features a large blue banner with the IP address "8.8.8.8" in white. Below the banner, there's a map of the San Francisco Bay Area. Underneath the map, a table provides detailed information about the IP address.

Hostname	google-public-dns-a.google.com
Network	AS15169 Google Inc.
City	🇺🇸 Mountain View, California, United States
Latitude/Longitude	37.3860,-122.0840
Area Code	650
Postal Code	94035
Route	8.8.8.0/24

In the developers section, You can find info on how it can be used via REST API:

<https://ipinfo.io/developers>

ASSIGNMENT

Your assignment is to build a tool that will query IPInfo for information on a specific IP and will return the result in the following table using markdown.

Fields marked in <> are information retrieved from IPInfo.

Location

<i>Country</i>	<i>Region</i>	<i>City</i>
<ip-country>	<ip-region>	<ip-city>

Coordinates

<i>Latitude</i>	<i>Longitude</i>
<ip-latitude>	<ip-longitude>

Organizations

<ip-organization>

If using JS, write a JS file with a function called queryIPInfo and one argument which is the IP, and returns the above table in markdown.

If using python, write a python script that have one argument which is the IP, and returns the above table in markdown.

REMARKS

- You may use as many inner functions as you wish, but eventually one function should get the ip input and return the table markdown.
- Make sure You handle errors and edge cases gracefully .
- Test Your code, either automatically or manually. (Just a reminder – Demisto deals with automation).