

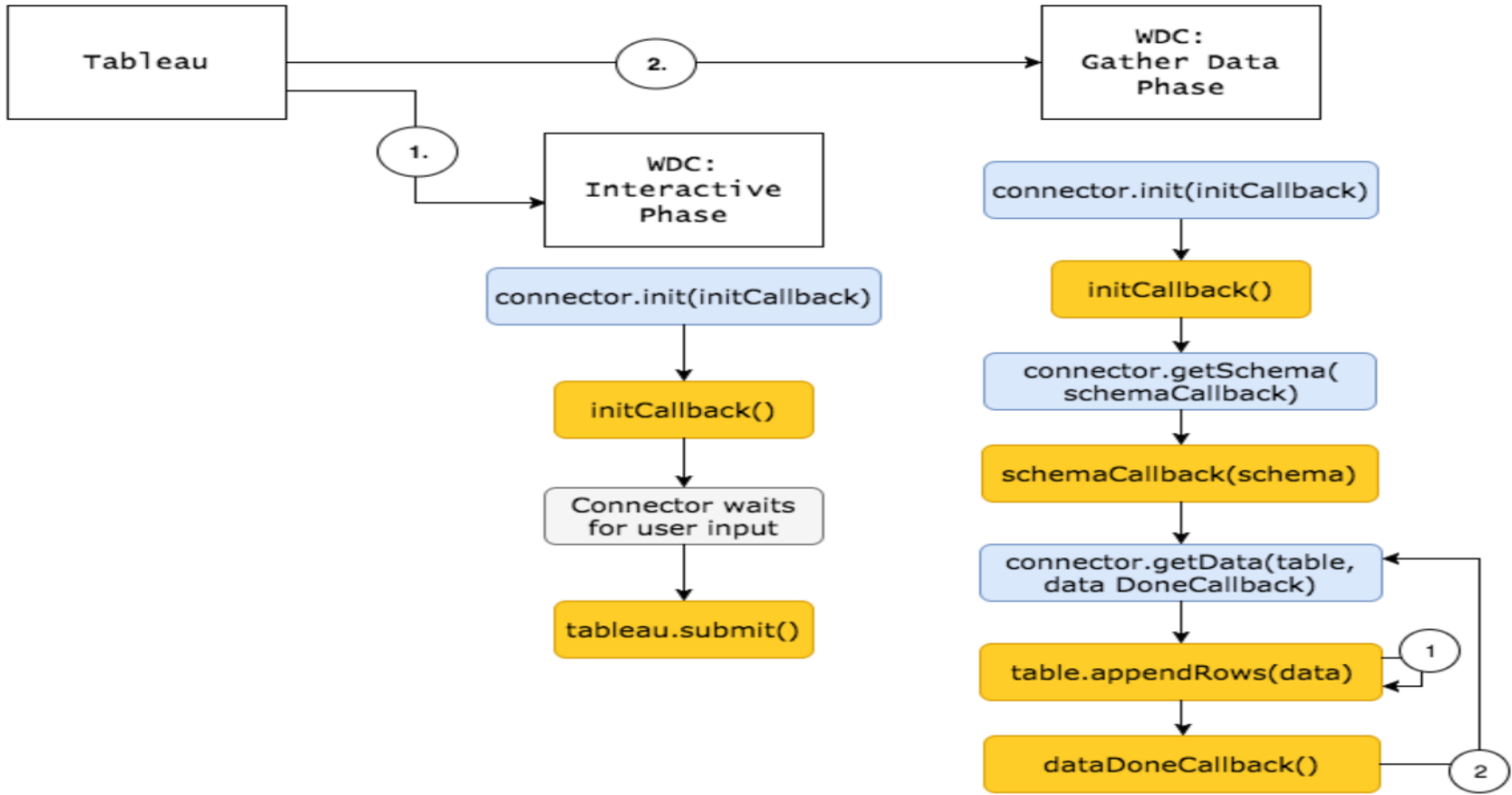


# Web Data Connector

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# Agenda

- Web data connector (WDC) Architecture
- Steps for creating WDC
- Testing Options
- Code
- Hosting (External and Internal)
- Data Access Demo



- 1 appendRows can be called as many times as needed (useful in paging scenarios)
- 2 getData is called once for each table defined in getSchema

# Steps for WDC Creation

- HTML Page Creation
- Connector Object and Event Listener
- Define Schema
- Get data sets
- Deploy/Host and whitelist

# Testing

## ➤ Simulator

- Chromium based debugging using Qt Webengine (Supports HTML 5) from Tableau 2019.4 (Earlier version uses QtWebkit)
- Support Caching and Remote debugging with port setup

## ➤ Dev Tools – debugger

- Use Developer tools and chrome debugger
- Use `tableau.log()` methods for console logging

## ➤ Advanced Rest Client – Chrome App

- Create a project and assign keys – Issue GET calls

Web Data Connector Simulator 2.0

WDC URL:

Run Connector

Automatically fetch data for all tables.

Web Data Connector Properties

Connection Name:

Connection Data:

Username:

Password:

Locale:

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Method: GET Host: <https://api-nba-v1.p.rapidapi.com>

Path: `statistics/games/gameld/6390`

Query parameters

| Param name                         | Param value |
|------------------------------------|-------------|
| <input type="button" value="ADD"/> |             |

Hash

Parameters

| Headers         |  | Variables |
|-----------------|--|-----------|
| Header name     | Header value                                       |           |
| x-rapidapi-host | api-nba-v1.p.rapidapi.com                          |           |
| x-rapidapi-key  | d18cdeb3a2mshab6824adf713c9ep130fb2jsncca2d444588d |           |

# Code

- Asynchronous JS calls
- Single or Multiple Table schemas
- Authentication using Oauth or other API Key based mechanism
- Get data sets using HTTP request/response.
- CORS vs No CORS (jQuery JSONP approach)

# Hosting

- Content Hosting – Use public hosting sites or Cloud hosting providers
- Server based Hosting - Enabling Whitelisting of WDCs to be accessible from Tableau server
- Setup / update Firewall rules to permit outbound communication to JS
- Setup CORS Proxy server to route API requests
- Check for Tableau server and JS version compatibility in the developed code using the library versions link in github.

([https://tableau.github.io/webdataconnector/docs/wdc\\_library\\_versions.html](https://tableau.github.io/webdataconnector/docs/wdc_library_versions.html))

## Sample API Reference List – Covid19 India

| S.no | API                                     | Endpoint  |
|------|---|---|
| 1    | Statewise summary (Latest updates only) | <a href="https://bit.ly/3gMWmFA">https://bit.ly/3gMWmFA</a> |
| 2    | Daywise Status                          | <a href="https://bit.ly/3epiyUD">https://bit.ly/3epiyUD</a> |
| 3    | District and State wise update          | <a href="https://bit.ly/2Wc483J">https://bit.ly/2Wc483J</a> |
| 4    | Mortality and Recovery                  | <a href="https://bit.ly/32etpy8">https://bit.ly/32etpy8</a> |
| 5    | State-wise Details                      | <a href="https://bit.ly/3epiRif">https://bit.ly/3epiRif</a> |
| 6    | District and State Zones                | <a href="https://bit.ly/2WiEkTU">https://bit.ly/2WiEkTU</a> |
| 7    | Street - Containment Zones              | <a href="https://bit.ly/2AT6fIF">https://bit.ly/2AT6fIF</a> |



DEMO

