

Ignition 8.1 User Manual — Symbol Factory, WebDev and Cloud Connector Modules

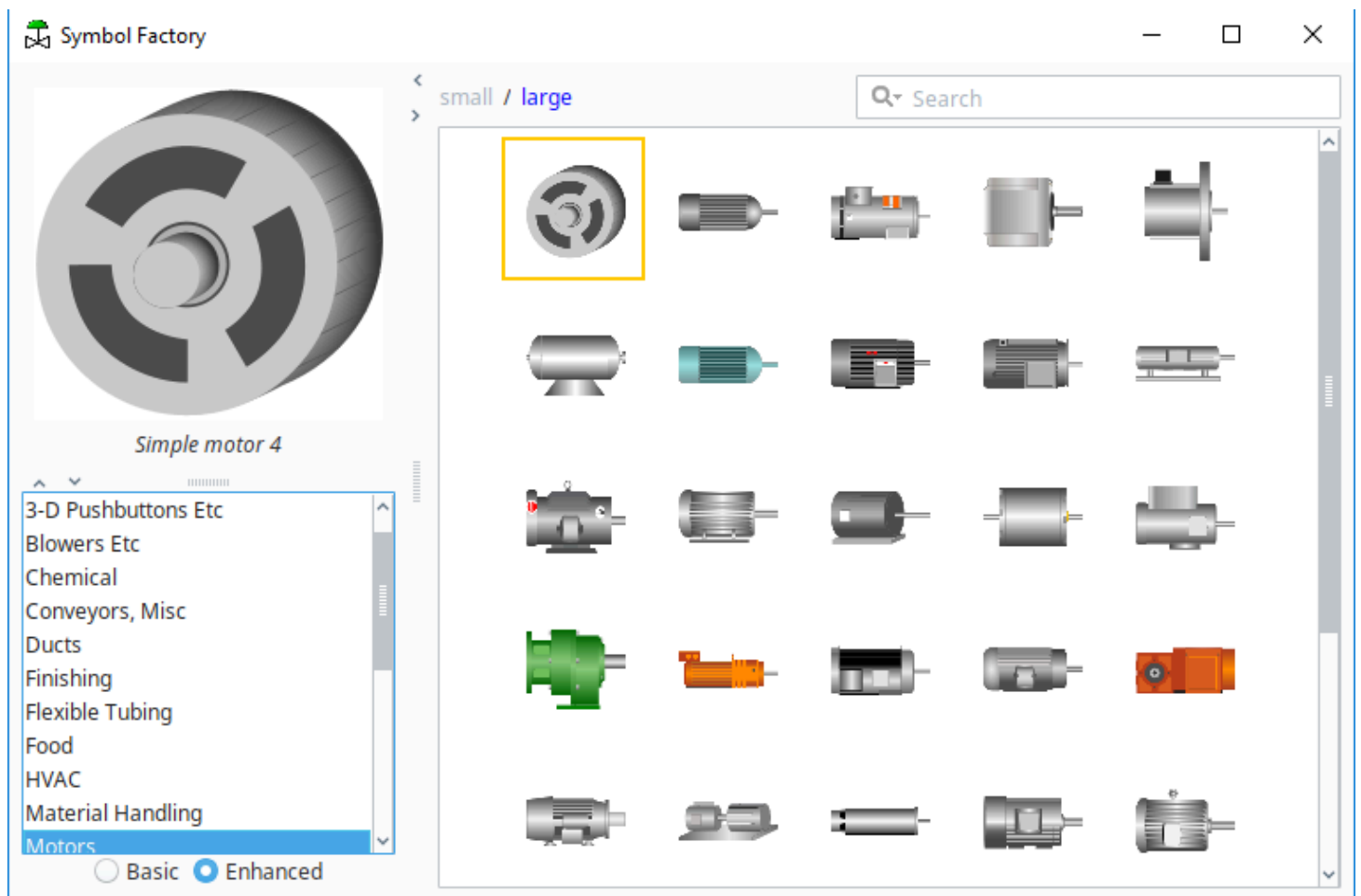
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Symbol Factory

The Symbol Factory module is included with the Vision module or the Perspective module. Symbol Factory provides nearly 4,000 industrial high quality Scalable Vector Graphics (SVG) and symbols for your projects. Vector based graphics can be resized with no pixelation or distortion. You can add these images to your project with a simple drag and drop.

In Vision, the images can also be edited or even animated. In Perspective, if you need animated symbols, try the [Perspective - Symbols Palette](#).

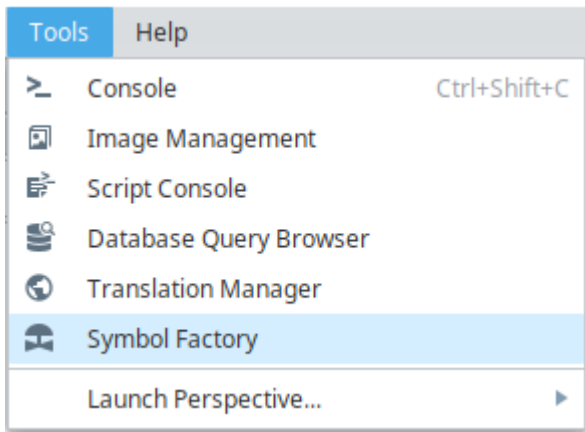
Symbol Factory images are also great for mobile responsive design, or any implementation where users view your HMI and SCADA on screens of various sizes.



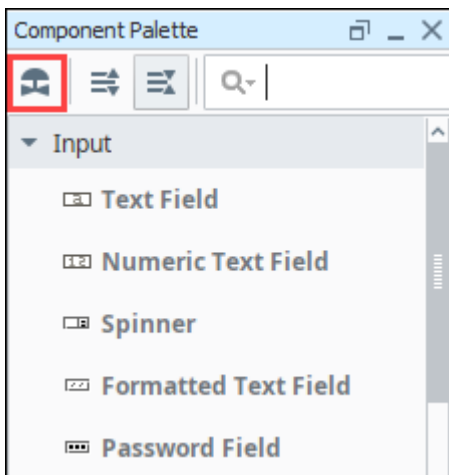
Using the Symbol Factory

1. Launch the Designer and open your project.
2. Choose **Symbol Factory** under the **Tools** menu or the project navigation tree. If you can't find these, the Symbol Factory module probably isn't installed. The Symbol Factory browser opens as

a pop-up window that stays on top of the Designer.



3. In the Vision module, there is also an icon (valve icon in the upper left) for quick access to the Symbol Factory images at the top of the Component Palette.

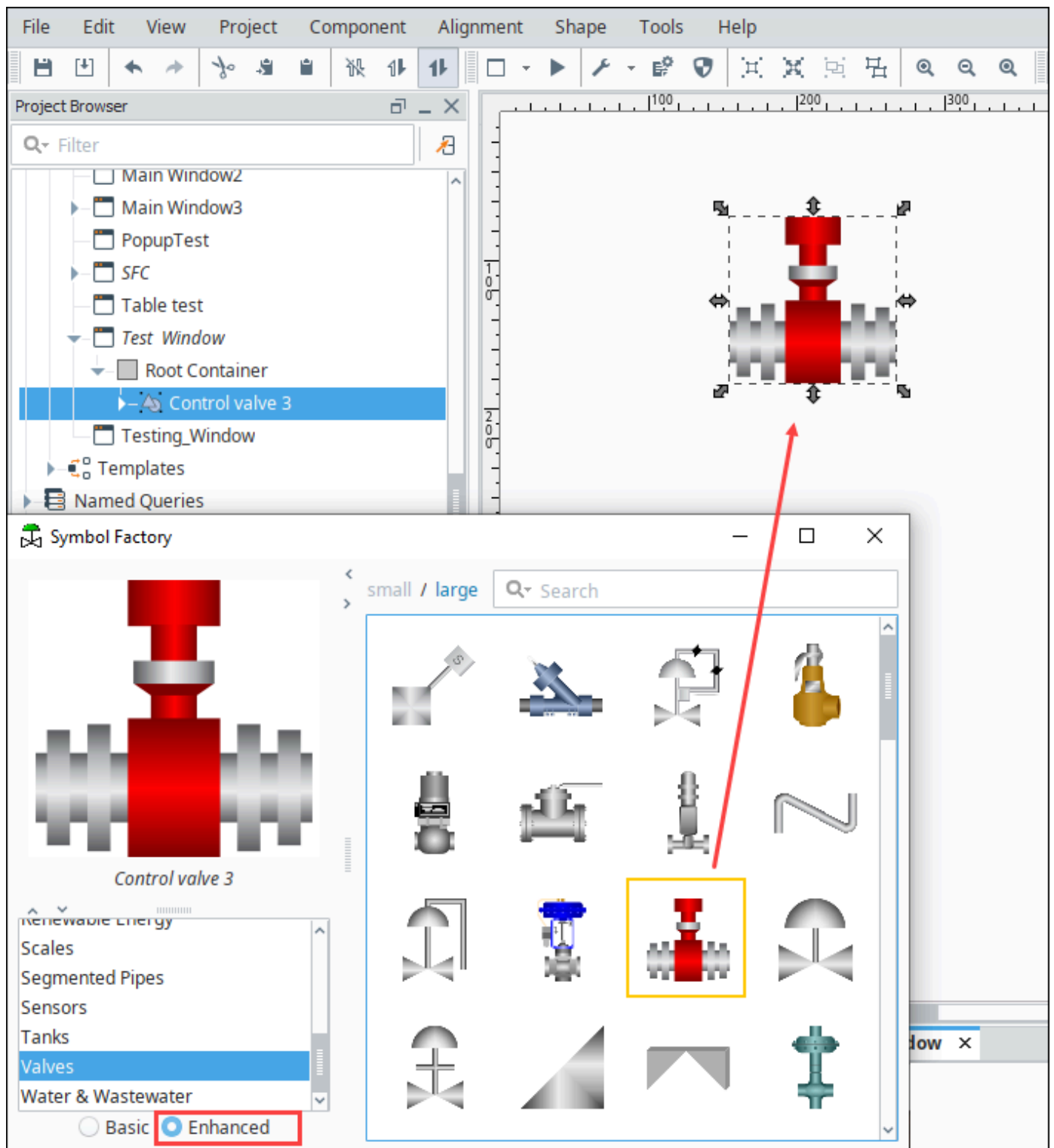


4. Browse the different categories to explore what symbols are available, or search to find a specific symbol.

NOTE

When searching Symbol Factory, it is recommended to select the Enhanced radio button in the Symbols List. The enhanced symbols are more detailed. They also have groupings that enable you to more easily animate them when used in Vision.

5. Find a symbol that you'd like to use and drag it onto an open Vision window or Perspective view.



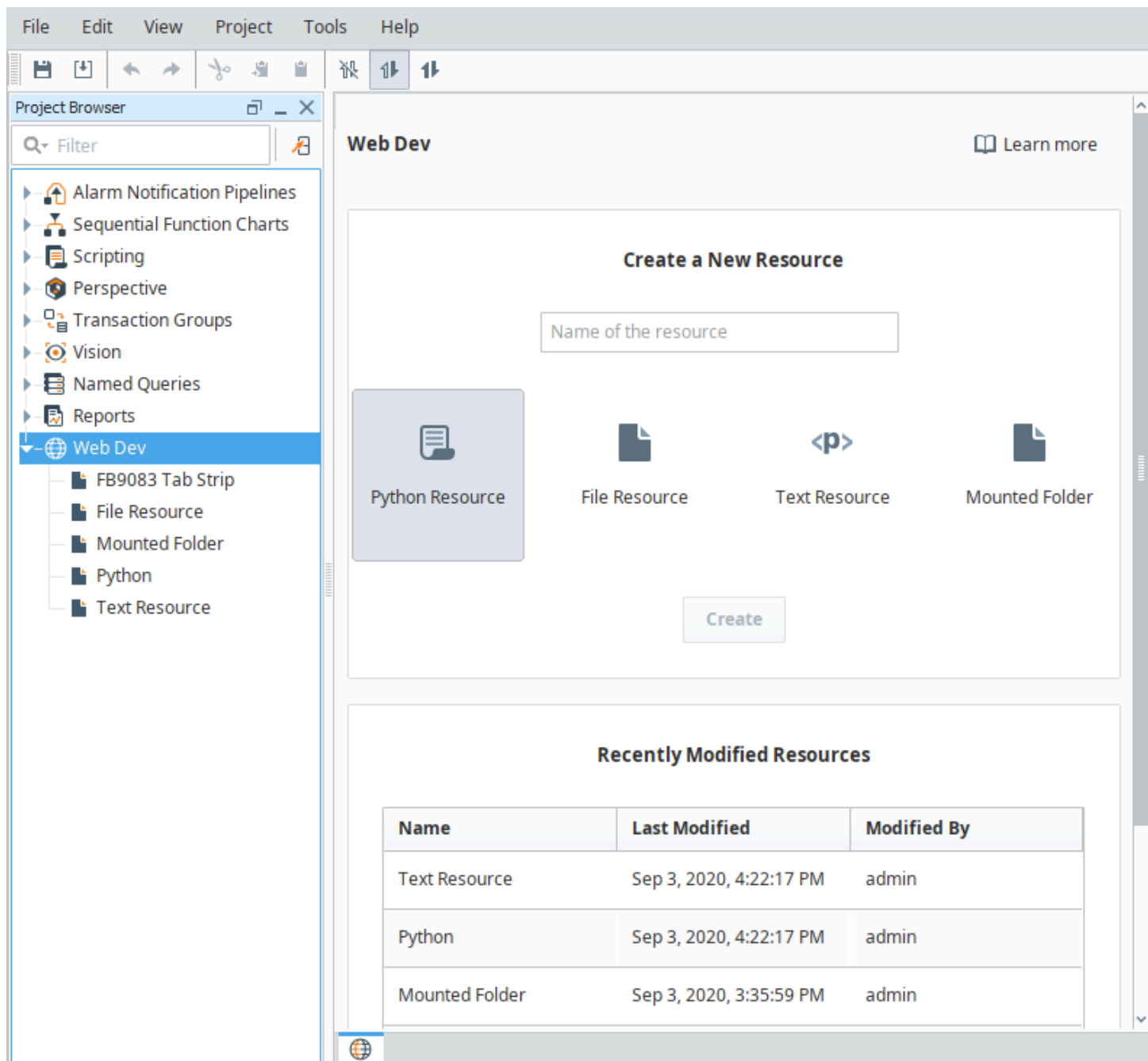
6. In Perspective, you can resize the image and change the style settings. See [Images and Icons in Perspective](#).
7. In Vision, the symbol will become a group of shapes. See [Images and SVGs in Vision](#).

Web Dev

The **Web Dev module** enables you to directly program against the web server inside the Ignition Gateway. Webpages can be built by hand using a combination of Python programming and static web resources such as images, CSS files, JavaScript files, and HTML files. Likewise, this module allows you to build RESTful web service APIs that allow external systems to interact with the Ignition server. This module follows the normal installation process.

The Web Dev Welcome tab allows you to create your program using any of the four types of resources: Python, File, Text and Mounted Folder. Each one of the resource types is a template to help you get started creating your own program. Once you select a resource type, enter a name, and press 'create', and the specific resource template will open. Each resource type will help you get started. The Web Dev Welcome tab will show you any recently modified resources along with the date it was modified and who modified it. You can double click on a recently modified query to easily open and update it.

The Web Dev Welcome tab provides a quick way to create a new resource and update existing ones.

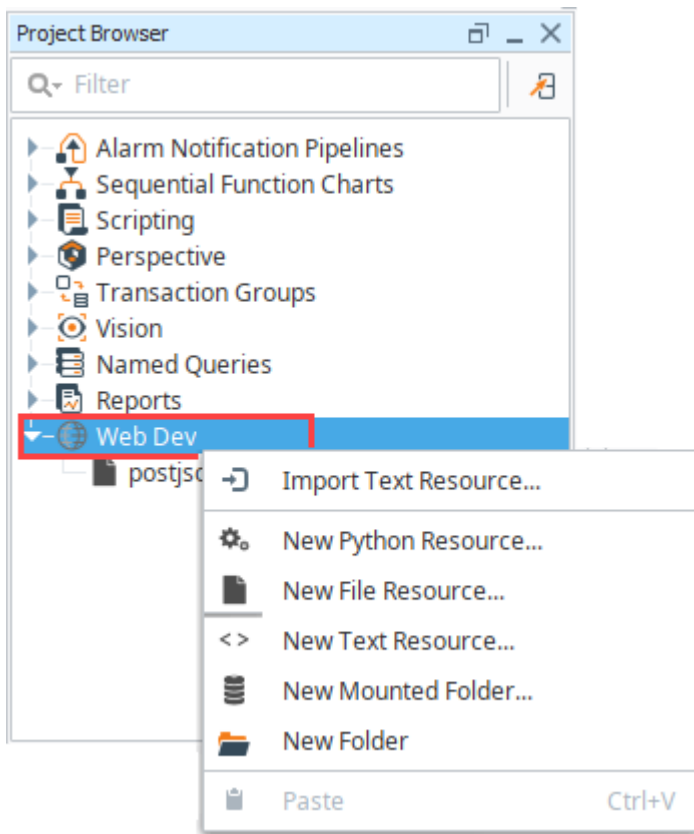


CAUTION

The Web Dev module requires specialized web-programming knowledge. The Inductive Automation support team is unable to provide detailed advice about creating a particular site. Furthermore, they are unable to provide troubleshooting beyond the basic functionality of the module.

Resources

Each type of resource may specify its content type. It is important to specify the correct content type for the contents of the resource. When the Web Dev module is installed, a new kind of project resource heading will appear in the Designer's project browser called "Web Dev". Right-clicking on this heading will allow the creation of several new types of project resources:



Web Dev resources are stored as readable `.json` and `.py` files on the Gateway's file system.

- **Python Resource** - Python resources are dynamic web resources. Each time a user browses to the URL associated with a Python resource, the script will run and generate a response in the form of a Python dictionary. See [Return Value](#) for more details on formatting this response.
- **File Resource** - A file resource is a static resource, usually a binary resource such as an image.

i NOTE

You will need to re-import a file resource if it has been changed since adding it to Web Dev.

- **Text Resource** - A text resource is a static resource much like a file resource, except that its contents may be directly edited from within the Ignition Designer. These are useful for static HTML, CSS, and JavaScript files.

Mounted Folder

Mounted Folders are a way to expose a folder from the Gateway's hard drive as a resource endpoint. For example, if the Ignition server had some directories that looked like the following:

Pseudocode - Example Directories

```
/opt/public/a.jpg  
/opt/public/info.html
```

You can create a Mounted Folder named "assets", and point it to `/opt/public/`, and then you can access those assets via:

Pseudocode - URL to Mounted Folder

```
http://host:port/system/webdev/projectname/assets/a.jpg
```

ⓘ REGARDING FILENAMES

Be mindful of the filenames in the mounted folder, as URL encoding will need to be used to access the file. For example, if a file named "My file.pdf" was placed in the mounted folder above, the file name would likely need to be encoded:

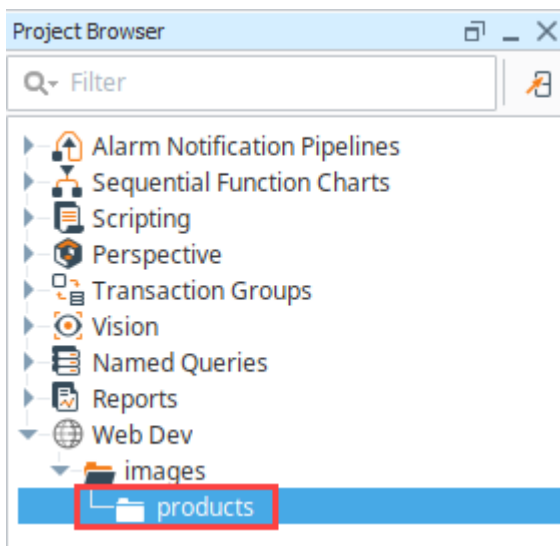
```
http://host:port/system/webdev/projectname/assets/My%20file.pdf
```

In addition, it is recommended to avoid using the following characters within filenames in mounted folders as they can result in errors:

- ' (apostrophes)
- , (commas)
- /
- ?
- #
- %
- &

Project Resources Folders

If a Mounted Folder is placed in a Project Browser folder, then the endpoint must also include the folder name. For example, if the Mounted Folder named "products" is located in the "images" folder:



The files would be accessible via:

Pseudocode - URL for Mounted Folder with Project Resource Folder

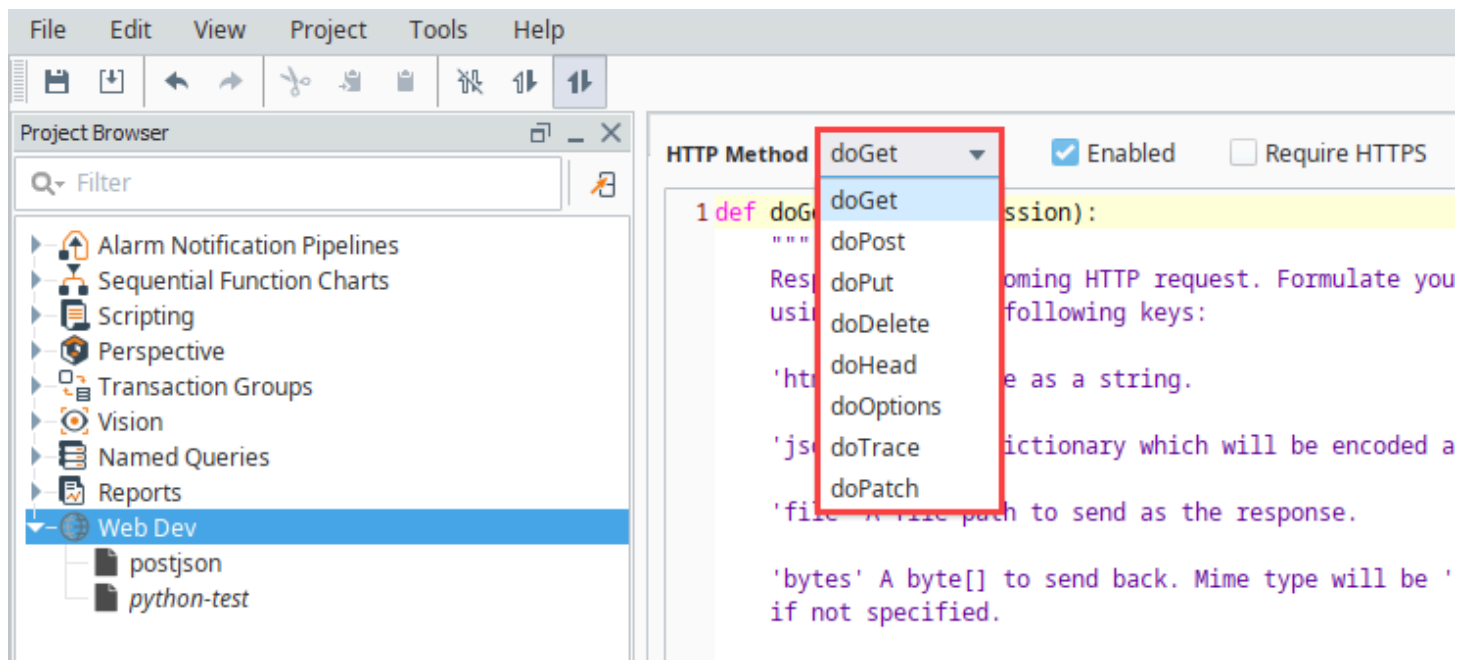
```
http://host:port/system/webdev/projectname/images/products/a.jpg
```

Python Resources

Python resources are the heart of the functionality of the Web Dev module. These resources are completely dynamic, and can handle all parts of the HTTP protocol, formulating any type of response.

Each time an incoming HTTP request arrives at a URL where a Python resource is mounted, the corresponding Python script will be run. Each Python resource can have a script for each HTTP method. In practice, most Python resources will probably only implement one or two of these, usually `doGet` or `doPost` at a minimum. The available methods are as follows:

- `doGet`
- `doPost`
- `doPut`
- `doDelete`
- `doHead`
- `doOptions`
- `doTrace`
- `doPatch`



Return Value

Return values for each do* functions can generate a response, which should always be a dictionary. In the dictionary, the keys in the table below are recognized. The keys are listed here in the order they are evaluated. For example, if you have both file and bytes, only file will take effect. The exception is the contentType key, which may be included with any of the other keys to override the default content type.

HTTP Response	Description
html	HTML source as a string. The value should be a string, which should be the source of an HTML document. Content type is assumed to be text/html.
json	The value is assumed to either be a string (which should be valid json) or to be a Python object, which will then be encoded into a json string. Content type will be application/json.
file	The value should be a string, which should be the path to a file on the server's filesystem. If no contentType is specified, then the system will attempt to probe the content type from the operating system using java.nio.Files.probeContentType. If the file key is present, but the value points to a file that doesn't exist, an HTTP 404 will be returned.
bytes	The value should be a byte array. The default content type is application/octet-stream, but you probably want to specify your own.
response	If none of the other keys are present, the system will look for the key response which will be stringified and then returned with the content type text/plain.
contentType	The mime type of the response. Needed only if ambiguous.

If your implementation of the `do*` function returns a dictionary with none of the above keys, an HTTP 500 error will be returned. However, if you return `None`, no HTTP 500 error will be returned. In this case, it is assumed that you used the `request['servletResponse']` parameter to directly formulate your HTTP response.

Changed in 8.1.8

As of 8.1.8, the default encoding for **html**, **json**, and **response** types was changed to UTF-8. Formerly they used ISO-8859-1.

Parameters

Each `do*` method receives the same two parameters (also called arguments): 'request' and 'session'.

Request Parameter

The request parameter is a dictionary with information about the incoming web request.

Key	Type	Description
context	object	A reference to the Gateway's context object. This provides direct to the Ignition GatewayContext. More information about this object can be found in the Ignition SDK Programmer's Guide and associated JavaDocs.
data	plain text or raw byte array	The data on the request. If the content type is application/json, it will be a Python structure (list or dictionary). If not, it will either be plain text or a raw byte array. If the incoming request body was not text, it will be available as a byte array.
postData	string	This parameter is only present for the doPost method, and its value is different based upon the value of the incoming HTTP request's Content-Type header. If the content type is 'application/json', then the request['postData'] will be a Python dictionary structure which is the result of parsing the JSON document that was posted. If the content type starts with 'text/', then the value of request['postData'] will be the text which was posted, as a string.
headers	dictionary	A dictionary of header : value pairs. If multiple values were returned for the same header, values will be in a tuple. The HTTP request headers will be in a dictionary under request['headers']. For example, you could read the User-Agent string with request['headers']['User-Agent'].
params	dictionary	This will be contained in a dictionary accessible via request['params']. Any URL parameters such as the following Pseudocode - Request Parameter /system/webdev/project/foo?param1=value&param2=other_value For the given example, request['params'] = {'param1': 'value', 'param2': 'other_value'}.
remainingPath	string	request['remainingPath'] will be "/bar". Remaining path will be "Nothing" if nothing is found after the resource name. This provides the remaining

Key	Type	Description
		text after a file resource. If you have a resource called 'foo', and a request is made to: Pseudocode - Remaining Path /system/webdev/project/foo/bar
remoteAddr	string	Returns the IP address of the client. Gives the remote IP address of the entity that made the web request. Note: This is from the perspective of the web server, and so may not be what you expect due to the effects of things like NAT-ing routers.
remoteHost	string	Returns the fully qualified name of the client. Gives the remote host of the entity that made the web request. Note: This is from the perspective of the web server, and so may not be what you expect due to the effects of things like NAT-ing routers.
scheme	string	The scheme is available via request['scheme']. The value will be 'http' or 'https'.
servletRequest	object	The underlying Java HttpServletRequest object. This parameter and the following servletResponse parameter give you direct access to the underlying Java servlet request and response objects. This provides direct access to the Ignition GatewayContext. More information about this object may be found in the Ignition SDK developer guide and associated JavaDocs.
servletResponse	object	The underlying Java HttpServletResponse object.

Session Parameter

The session parameter is a Python dictionary which may be used to hold information which persists across multiple different calls to your Web Dev Python Resource, or across multiple Python Resources. Session management is handled automatically, and this dictionary is created for each new client session. (The client must have cookies enabled for sessions to work). You may place any key-value pairs in the session dictionary you'd like, just make sure that the values are things that can be serialized. All normal Python types (scalar, dictionary, lists, and tuples) are serializable.

If authentication is required, will have a 'user' attribute containing information about the authenticated user, and a 'retryAttempts' attribute with the number of attempts made.

URL

Each resource will be directly accessible over HTTP and mounted beneath the /system/webdev path.

For example, if you created a Text Resource directly beneath the "Web Dev", it would be mounted at:

Pseudocode - Project Resource

```
http://host:port/system/webdev/project/resource_name
```

Notice that the project name and resource name are part of the path. If your resource is nested inside a folder, it will be part of the path too. For example:

Pseudocode - Folder Resource

```
http://host:port/system/webdev/project/folder_name/resource_name
```

Web Dev resources may have periods in their name. This means that if you upload an image file, you may include its extension directly in its name so that its path is more natural. For example, you might name an image resource "my_image.png" so that its URL is:

Pseudocode - Image Resource

```
http://host:port/system/webdev/project/my_image.png
```

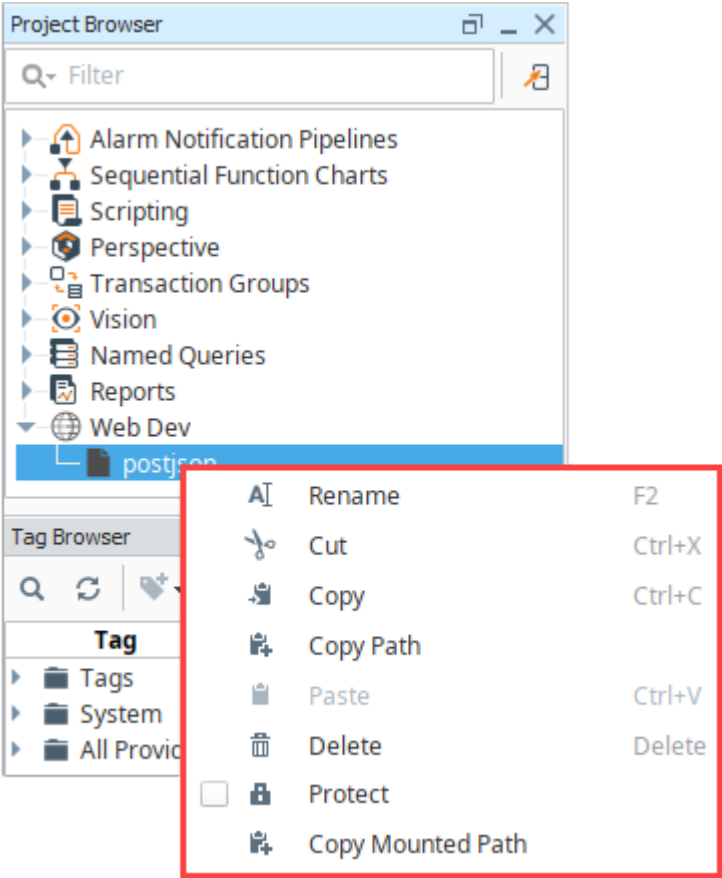
Requests to the root of your project will attempt to load a resource named "index.html". If no such resource exists, a 404 response code will be returned instead.

Pseudocode - Request to Root Project

```
http://host:port/system/project
```

Right Click Menu

The Web Dev Right Click menu is similar to other applications edit menus in that it provides basic copy/paste functionality. Options are described in the following table.



Option	Description
Rename	To rename a resource, select this option then enter a new name.
Cut	Cuts the selected resource onto the clipboard.
Copy	Copies the selected resource onto the clipboard. It can then be pasted within the Web Dev make a duplicate.
Copy Path	Copies the path of the selected resource onto the clipboard. For example, "newfile.html".
Paste	Pastes the the selected resource from the clipboard into the selected context.
Delete	Deletes the current selection. This can also be done using the delete key.
Protect	Locks the individual project resource from inside the Designer.
Copy Mounted Path	This copies the partial mounted path for the resource into your clipboard. This allows you to easily paste the path into your browser for testing. For example, "/system/webdev/MyProject/newfile.html". You need to add the path to your gateway to the beginning of this string. A full url would look like: " http://10.10.10.150:8088/system/webdev/MyProject/newfile.html "

Security Settings

There are several security settings for Python Resources. All of the settings can be set individually on each resource.

Enabled

If **Enabled** is checked, then the HTTP Method is enabled.

Require HTTPS

If this is checked, then the resource will only be accessible via an SSL connection. If a non-secure HTTP transport is used, the browser will be sent a redirect to the the Gateway's SSL port. The Gateway must have SSL enabled, of course.

Require Authentication

If this is checked, the resource will require authentication before it executes. This uses HTTP BASIC auth, and so should really be combined with the Require HTTPS option so that the credentials are encrypted. The username/password combination sent through the HTTP BASIC authentication headers will then be passed through the chosen User Source. If roles are specified, the user must have at least one of the roles. Specify multiple acceptable roles using a comma separated list. If the credentials are missing, an HTTP 401 will be returned with the WWW-Authenticate header. If the credentials are present but incorrect, an HTTP 403 will be returned.

If the credentials succeed, the Python resource will execute. In addition, the authenticated user object returned by the User Source will be accessible inside the session object as `session['user']`. Since the user is stored in session, if the client has cookies enabled, then further requests against the same session will use the stored user object and will not require additional authentication.

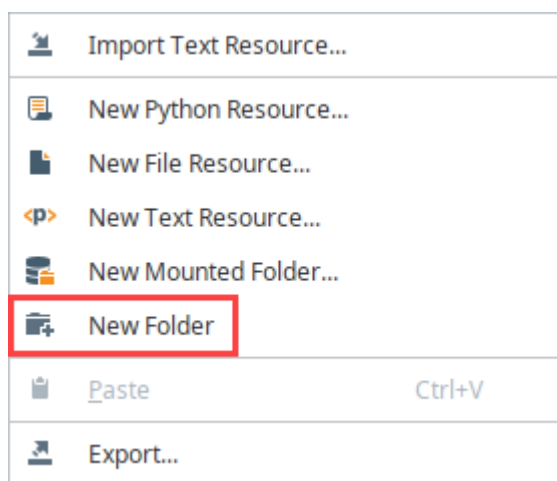
Building a Simple Web Server

This page demonstrates how to build and test a simple web server using the [Web Dev module](#). You'll create a small test environment that responds to basic HTTP `GET` and `POST` requests. The examples will use Button components in Perspective to send requests to Python Resources in Web Dev, but any external client can be used to communicate with the same endpoints.

Set Up the Web Dev Environment

The Web Dev environment used in the examples below requires a folder to store your resources.

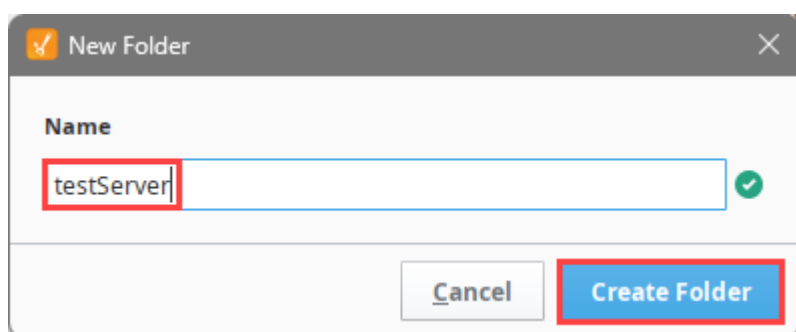
1. In the Designer, right-click **Web Dev** in the Project Browser, then select **New Folder**.



2. Name the folder **testServer**, then click **Create Folder**.

The folder name becomes part of the URL path for your resources. For example:

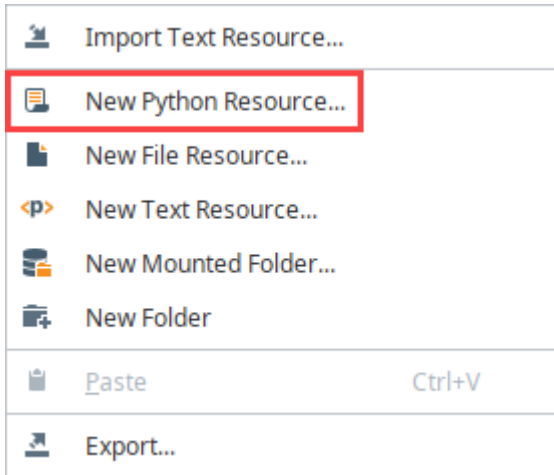
```
http://localhost:8088/system/webdev/MyProject/{testServer}/resourceName
```



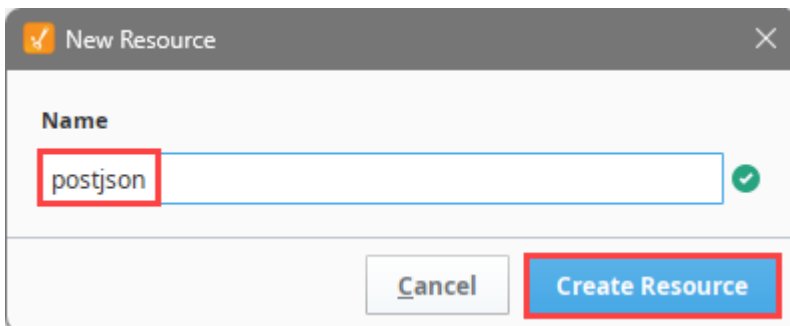
HTTP Post Example

This example demonstrates how Ignition can receive data from an external source by using a Button component in Perspective to send JSON data through an `httpPost` command to a Python Resource in Web Dev, which then receives and processes the POST request.

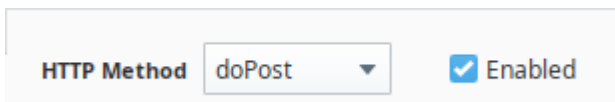
1. Right-click the **testServer** folder, then select **New Python Resource**.



2. Name the resource **postjson** and click **Create Resource**.



3. From the HTTP Method dropdown, select **doPost**, and check **Enabled**.



4. Paste the following code to accept JSON data, print it to the Gateway logs, and return a simple HTML response.

```
postjson Python Resource (Web Dev Section)
```

```

# Accept JSON data from a POST request.
# Expecting 'names' and 'values' lists of equal length.

data = request['data']
names = data['names']
values = data['values']

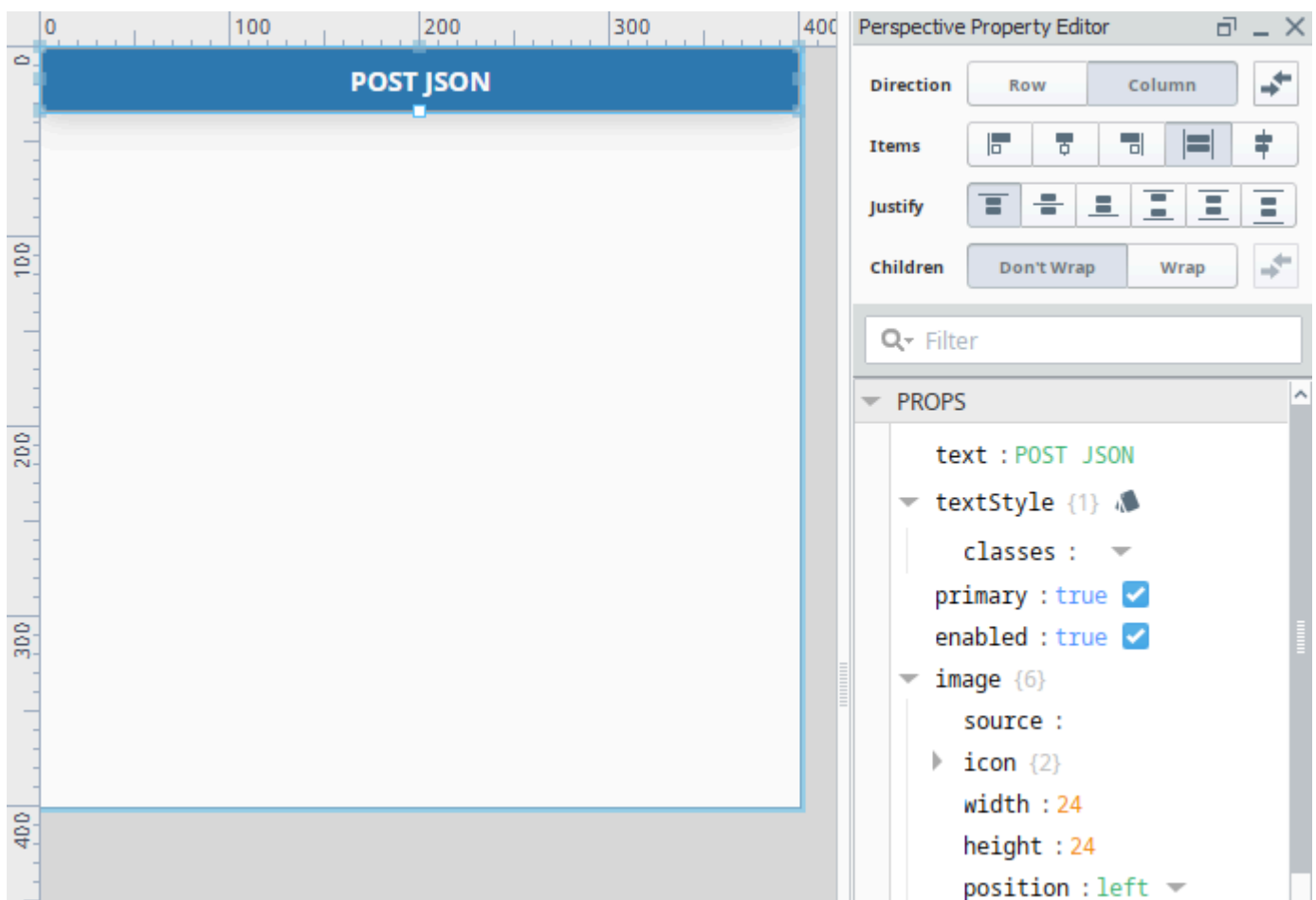
system.util.getLogger("WebDev").infoof("Names: %s | Values: %s", names, values)

html = "<html><body>"
for i in range(len(names)):
    html += "%s: %s<br>" % (names[i], values[i])
html += "</body></html>"

return {'html': html}

```

- Open a Perspective View and add a **Button** component. In this example, we named the button **POST JSON**.



- With the Button selected, right-click and select **Configure Events**.

	Cut	Ctrl+X
	Copy	Ctrl+C
	Duplicate	Ctrl+D
	Paste	Ctrl+V
	Paste & Replace	Ctrl+Shift+V
	Delete	Delete
	Send to Back	
	Move Backward	
	Move Forward	
	Bring to Front	
	Wrap in Container	▶
	Configure Events...	Ctrl+J
	Configure Scripts...	Ctrl+K
	Configuration Explorer	Ctrl+R

7. Under Mouse Events, select **onClick**, then add a **Script** action. Paste the following code to send a POST request to your new endpoint.

```
# Post data to the web service in JSON format.
# This allows you to use the 'data' object in the Python Resource.

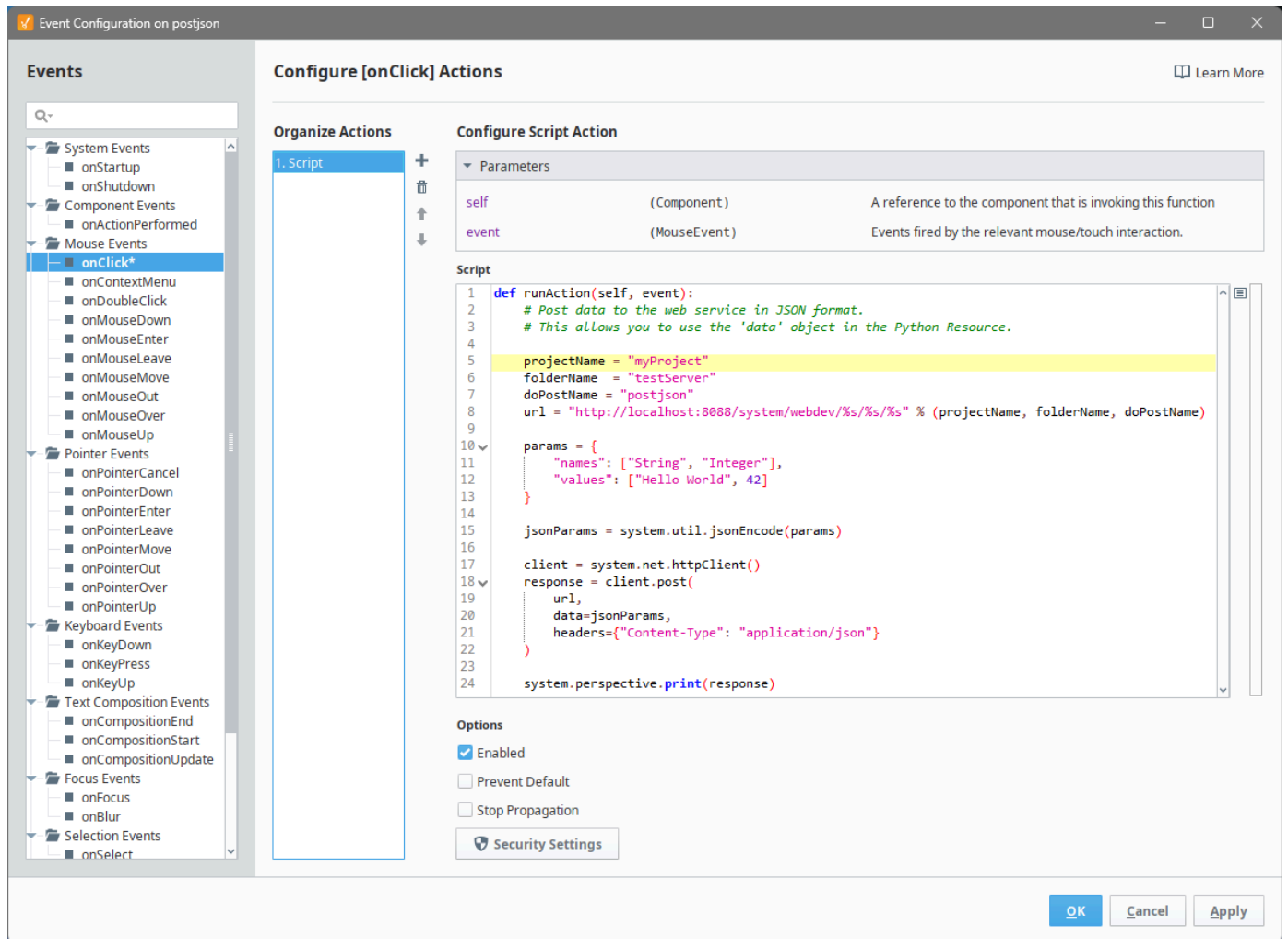
projectName = "MyProject"
folderName = "testServer"
doPostName = "postjson"
url = "http://localhost:8088/system/webdev/%s/%s/%s" % (projectName,
folderName, doPostName)

params = {
    "names": ["String", "Integer"],
    "values": ["Hello World", 42]
}

jsonParams = system.util.jsonEncode(params)

client = system.net.httpClient()
response = client.post(
    url,
    data=jsonParams,
    headers={"Content-Type": "application/json"}
)

system.perspective.print(response)
```



8. Save the project.

9. Open the Perspective Session and click the Button to send the POST request. The printed response appears in the Session Console, and the Gateway logs show the formatted data.

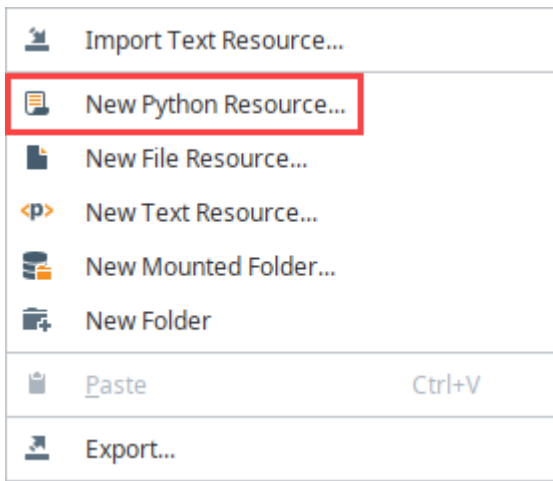
The Gateway can now receive HTTP POST requests at:

`http://localhost:8088/system/webdev/MyProject/testServer/postjson`

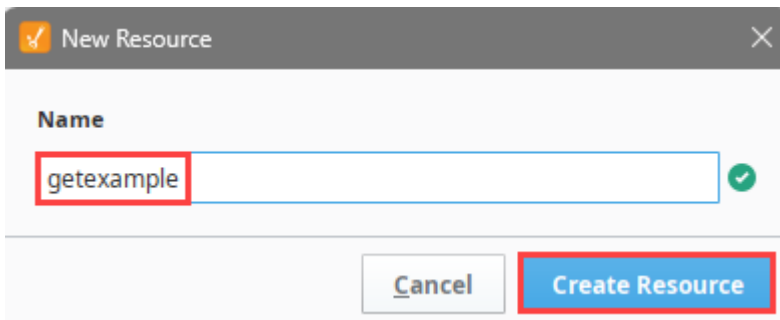
HTTP Get Example

This example shows how to respond to a simple HTTP GET request using Web Dev by creating a Python Resource that returns an HTML message, which can be viewed directly in a browser or triggered from a Perspective event script.

1. Right-click the **testServer** folder, then select **New Python Resource**.



2. Name the resource **getexample**, then click **Create Resource**.



3. From the HTTP Method dropdown, select **doGet**, and check **Enabled**.



4. Paste the following code to return a simple HTML message confirming that the Gateway received your GET request.

```
getexample Python Resource (Web Dev Section)

# Return a simple HTML response to confirm a GET request.

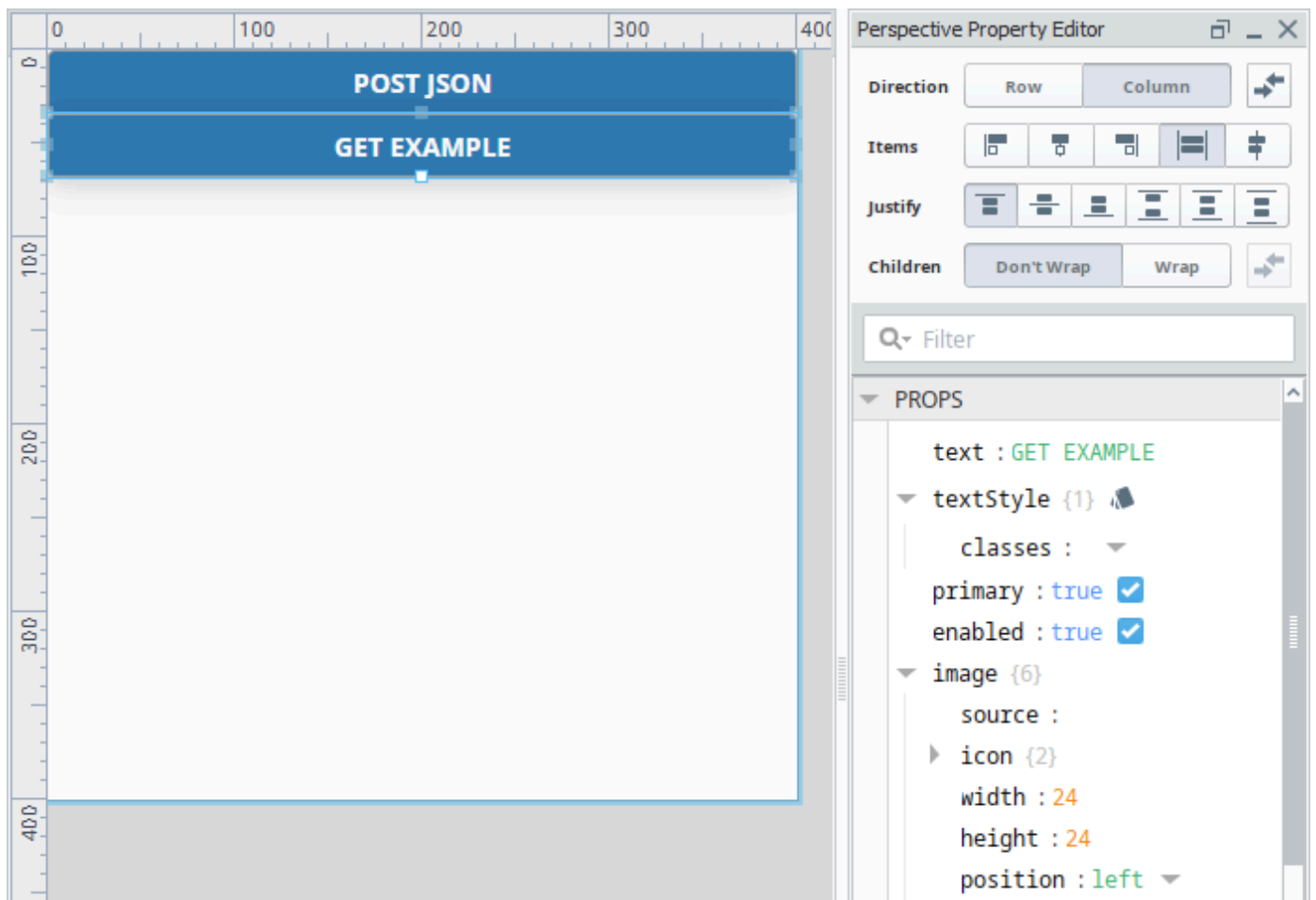
html = "<html><body><h2>Hello from Ignition Web Dev!</h2></body></html>"
return {'html': html}
```

5. Save the resource, then open a web browser and navigate to:

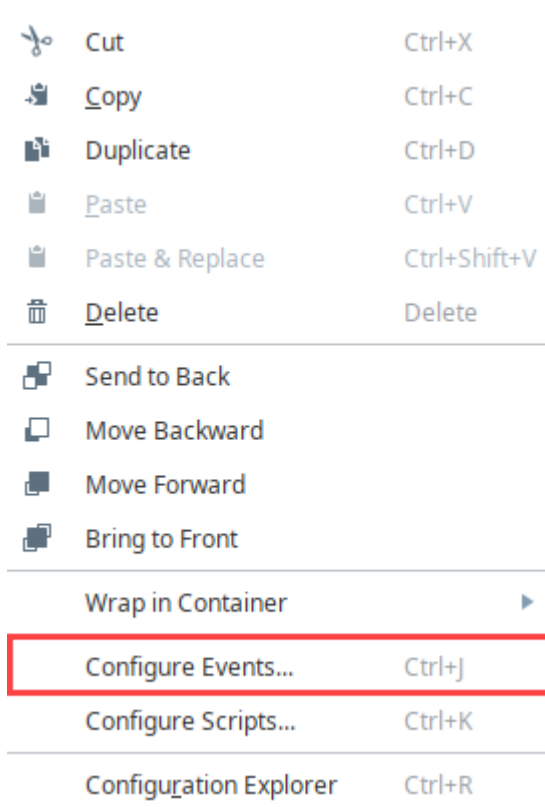
`http://localhost:8088/system/webdev/MyProject/testServer/getexample`

The HTML message appears in the browser window.

6. To test the endpoint, open a Perspective view and add a Button component. In this example, we named the Button **GET EXAMPLE**.



7. With the Button selected, right-click and select **Configure Events**.



8. Under Mouse Events, select **onClick**, then add a **Script** action. Paste the following code to send a GET request to your endpoint and print the response text in the Session Console.

```
projectName = "MyProject"
folderName = "testServer"
doGetName = "getexample"
url = "http://localhost:8088/system/webdev/%s/%s/%s" % (projectName,
folderName, doGetName)

client = system.net.httpClient()
response = client.get(url)
system.perspective.print(response)
```

9. Save the project.

10. Open the Perspective Session and click the Button. The Gateway's response appears in the Session Console, confirming that the Web Dev resource successfully handles HTTP GET requests.

The Gateway can now respond to HTTP GET requests at:

`http://localhost:8088/system/webdev/myProject/testServer/getexample`

Cloud Connector Modules

Cloud Connector modules offer extended functionality to **Ignition Cloud Edition** and standard **Ignition**. Similar to regular Ignition modules such as **Perspective** or **SQL Bridge**, Cloud Connector modules can be installed to new or configured instances of Ignition, and will integrate seamlessly with other Cloud Edition modules and existing **Ignition modules**.

Cloud Connectors

Cloud Connectors come bundled with Ignition Cloud Edition and are by design, intended for use in cloud environments. However, standard Ignition can still utilize the features of Cloud Connectors. Each Cloud Connector has a primary purpose, such as connecting to NoSQL databases using the MongoDB connector.

Cloud Connector Module	Description
MongoDB	Configure connections from Ignition to MongoDB databases. Update, insert, delete, and take aggregates of documents or list collections and connector information using included system functions . Pull information from databases to display on Perspective components using MongoDB Perspective bindings .

MongoDB

MongoDB is a non-relational, NoSQL database. Unlike relational SQL databases like Microsoft SQL Server, MongoDB uses a JSON-like structure called collections instead of tables, with each JSON "row" referred to as a document. This in turn leads to lighter queries, helping optimize the performance of your Gateway and database connection.

Aside from a local installation, MongoDB can also be hosted in the cloud using the cloud service MongoDB Atlas. There are specific features which may draw users toward MongoDB Atlas, such as not needing to maintain a server or configure any clusters.

See the [official MongoDB documentation](#) for more information on MongoDB and MongoDB Atlas.

Module Information

The MongoDB Cloud Connector module comes with **Ignition Cloud Edition**, but can also be used with a standard version of Ignition. Features of the MongoDB Cloud Connector include:

- **Connectivity to MongoDB** through the Gateway webpage interface.
- **System functions** to interact with connected MongoDB documents using a Python scripting API and expression language functions.
- A **Perspective Binding** that reads information from MongoDB documents to display on a component.

Gateway Interface

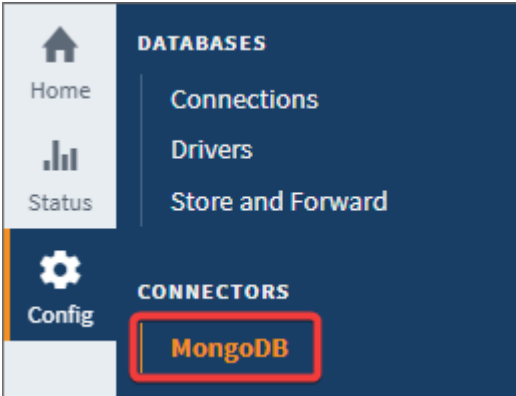
After installing the MongoDB Cloud Connector, there will be new options available on the Gateway webpage's **Status** and **Config** pages.

Status Page

The Gateway webpage's Status page will show information about your MongoDB connections. See the [Connections - MongoDB](#) page for more information.

Config Page

The Gateway webpage's Config page will allow you to make connections from Ignition to MongoDB databases. To set up a MongoDB connection, navigate to the Gateway webpage's **Config** section > **Connectors** > **MongoDB**.



The table below outlines the properties available when creating or editing a MongoDB connection:

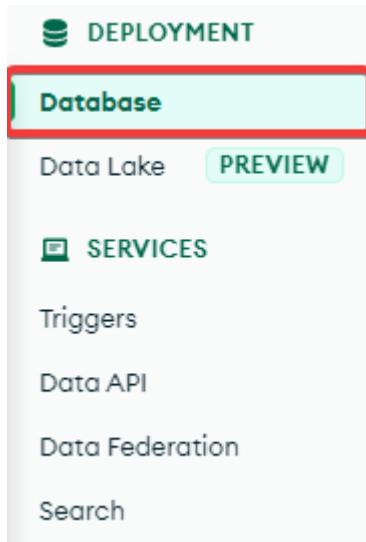
Property	Description
Name	The name of your MongoDB connection.
Description	A description of your MongoDB connection.
Connection Scheme	Prefix that identifies the connection format. Default is mongodb. Note: If you are creating a connection to MongoDB Atlas, you will need to change the Connection Scheme to <code>mongodb+srv</code> .
Connection Hosts	Host or list of hosts to connect to, comma separated. If no port is specified, the default port of 27017 is used.
Database	The name of the database to connect to.
Username	The username to use when connecting.
Change Password?	Check this box to change the existing password. This property will not be available for new connections.
Password	The password to use when connecting.
Password	Re-type password for verification.
Connection Properties	Any extra connection properties you need to specify, such as enabling or disabling TLS. - If you are using <code>mongodb+srv</code> as the Connection Scheme to connect to MongoDB Atlas, TLS will be enabled by default. - If you are using <code>mongodb</code> as the Connection Scheme to connect to MongoDB, TLS will be disabled by default. Note: If you are using a trusted certificate, Ignition will automatically use the certificate without needing any configuration. If you are using a custom or self-signed certificate, you will need to specify the location of the certificate, as well as any other identifying information such as the password.
Enabled	Enable or disable the database connection. Default is true.

Connecting to MongoDB

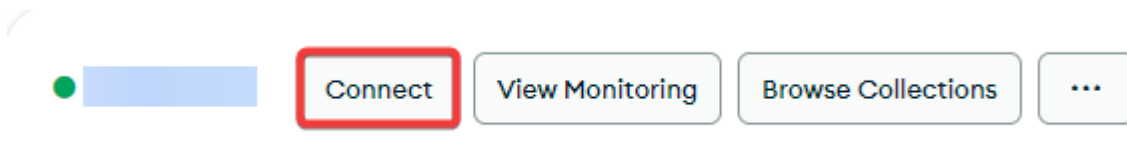
With the MongoDB Cloud Connector installed, you will be able to connect to a MongoDB database. The steps below outline how to connect to MongoDB. In this example, we will be connecting to MongoDB Atlas.

Get the Connection URL

1. Go to your MongoDB Atlas Dashboard and click **Database** in the **Deployment** section.



2. On the Database Deployments window, click **Connect**.



3. You will be prompted to choose a connection method. Click **Connect your application**.



Connect with the MongoDB Shell

Interact with your cluster using MongoDB's interactive Javascript interface



Connect your application

Connect your application to your cluster using MongoDB's native drivers



Connect using MongoDB Compass

Explore, modify, and visualize your data with MongoDB's GUI



Connect using VS Code

Connect to a MongoDB host in Visual Studio Code



4. Choose **Java** for the driver, and select the latest version. Your connection URL will appear, giving you the information you need to connect Ignition to your MongoDB database.

1 Select your driver and version

DRIVER

Java

VERSION

4.3 or later

2 Add your connection string into your application code

☐ Include full driver code example

```
mongodb+srv://<username>:<password>@<clustername>.mongodb.net/?  
retryWrites=true&w=majority
```

Replace **<password>** with the password for the  user. Ensure any option params are [URL encoded](#).

Interpreting the Connection URL

The connection URL will have all the information necessary to set up a basic connection. Note that you will still need to specify extra connection properties such as Transport Layer Security (TLS) or certificates should you need them.

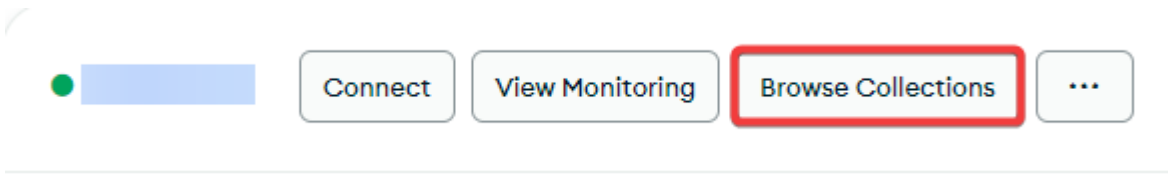
Your connection URL will look something like the example below, with specific sections of the connection URL corresponding with specific Gateway fields from the MongoDB connection setup process.

```
mongodb+srv://<username>:<password>@<clustername>.mongodb.net/?  
retryWrites=true&w=majority
```

Gateway Field	Connection URL Value
Connection Scheme	mongodb+srv (or mongodb if not using MongoDB Atlas)
Connection Hosts	<clustername.example.mongodb.net>
Username	<username>
Password	<password>
Connection Properties	retryWrites=true&w=majority (You can also add extra connection properties here)

Get the Database Name

1. On the MongoDB Atlas Dashboard, navigate to **Deployment > Database > Your Cluster Name > Browse Collections**.



2. Your dashboard will list any existing databases within your cluster. Choose which database to connect to from this list. In this example, we will be using the **sample_guides** database.

+ Create Database

Q Search Namespaces

- ▶ sample_airbnb
- ▶ sample_analytics
- ▶ sample_geospatial
- ▶ **sample_guides**
- ▶ sample_mflix
- ▶ sample_restaurants
- ▶ sample_supplies
- ▶ sample_training
- ▶ sample_weatherdata

Connect Ignition to MongoDB

1. Navigate to **Config > Connectors > MongoDB** on the Gateway, and click **Create new MongoDB Connector**.

⚙ Config > > MongoDB Connectors

License Incomplete ? 0:00:00

Reset Trial
View Modules

Name	Description	Connection Hosts	Database	Status
No MongoDB Connectors				

[→ Create new MongoDB Connector...](#)

2. Fill out the Gateway fields with the appropriate information from your connection URL and the database name, then click **Create New MongoDB Connector**.

Main Properties	
Name	MongoDB Atlas The name of your MongoDB connection.
Description	A description of your MongoDB connection.
Connection Scheme	mongodb+srv Prefix that identifies the connection format (default: mongodb)
Connection Hosts	<databaseName.example.mongodb.net> Host or list of hosts to connect to, comma separated. If no port is specified, the default port of 27017 is used.
Database	sample_guides The name of the database to connect to.
Username	<username> The username to use when connecting.
Password	
Password	 Re-type password for verification.
Connection Properties	retryWrites=true&w=majority Any extra connection properties you need to specify, such as enabling or disabling TLS.
Enabled	☒ Enable or disable the database connection (default: true)

Create New MongoDB Connector

3. Your MongoDB connection is now created. It may take a few seconds for your connection to update to a "Valid" status.

MongoDB Perspective Bindings

Users can pull data from a MongoDB database to populate **Perspective components**. MongoDB Perspective bindings are read-only, so users will not be able to write to collections from the binding

itself. See the [MongoDB Bindings in Perspective](#) page for more details.

MongoDB System Functions

While the MongoDB Perspective binding itself has no write capabilities, the included MongoDB System Functions allow users to read, update, delete, and take aggregates of collection documents. See the [MongoDB System Function](#) page for a list of available system functions.