

VertiGIS Studio Web Sample Package ReadMe

This document is intended to outline the sample web app, workflows, reports, and print templates included in the VertiGIS Studio Web Sample Package. The goal of this package is to provide organizations with some working examples that they can use as reference to help them design their own unique solutions using VertiGIS Studio. The following items are contained in this bundle:

- VertiGIS Studio Web
 - 1 VSW app
- VertiGIS Studio Workflow
 - 10 VSWF workflows
- VertiGIS Studio Printing
 - 2 VSP print templates
- VertiGIS Studio Reporting
 - 4 VSR report templates
- Resources
 - ReadMe.pdf
 - ReportJsonInputs.json (Used for the REST API Report sample)
 - Shortcut - [VertiGIS Studio Web Sample App](#)
 - Shortcut - [ArcGIS items](#)

VertiGIS Studio Web Samples

The [VertiGIS Studio Web Sample App](#) includes an easy-to-use web GIS app with the following capabilities:

- Tabbed toolbar, IWTM and right-click context menu with OOB tools and commands
- Light and dark theme support, toggle-able tools in the upper right corner
- References to several workflows, reports and print templates described further in this document
- Multiple layouts (Default, Mobile)
 - Application Initializing event (Used to swap layouts if using mobile device)
- Layer Configuration
 - Fire Hydrants
 - Edit Fire Hydrant Feature Action Workflow
 - Inspect Fire Hydrant Feature Action Workflow
 - Fire Hydrant Report
 - Sample Pie and Line Charts
 - Buildings
 - Building Report
 - Sample Pie and Line Charts
 - Water Lines
 - Sample Pie and Bar Charts
 - Neighbourhoods
 - Demographics Report
 - Sample Stacked Bar and Pie Charts

VertiGIS Studio Workflow Samples

The following VertiGIS Studio Workflows are available in the sample app.

Please note: Most of these workflows contain VertiGIS Studio Web commands/operations which won't in an ArcGIS or Geocortex viewer. The workflows can be easily modified to remove these viewer-specific tasks.

- [Query Features](#)
 - This workflow allows you to query water lines using a variety of input parameters
 - Location: Workflow toolbar, I want to menu
- [Search Features](#)
 - This workflow allows you to search for buildings using several different methods, then select one or more result to include in a report.
 - Location: Workflow toolbar, I want to menu
- [Filter Features](#)
 - This workflow allows you to filter buildings by building height by setting a layer definition expression every time the user adjusts the number slider.
 - Location: Workflow toolbar
- [Demographics](#)
 - This workflow allows you to select a point on the map and find neighboring districts using a buffer or drive time, then analyze the area to generate demographic charts and reports.
 - Location: Workflow toolbar
- [Directions](#)
 - This workflow allows you to generate a route from an origin to a destination (point, geolocation, address) using an ArcGIS routing service.
 - Location: Workflow toolbar
- [Add Feature](#)
 - This workflow allows you to add a new feature to the map by collecting attributes in a form and then writing it to a feature service.
 - Location: Workflow toolbar, I want to menu
- [API Request](#)
 - This workflow allows you to collect some user input in a form and then based on that input, query the USGS Earthquake REST API and present the JSON response data back in a form
 - Location: Workflow toolbar
- [Edit Feature](#)
 - This workflow allows you to retrieve a feature as input and present a form with the features attributes which can then be edited. Submitting the form will update the input feature.
 - Location: Fire Hydrant Layer Feature Action
- [Inspect Feature](#)
 - This workflow allows you to create a new inspection against a related table
 - Location: Fire Hydrant Layer Feature Action
- [Swap Layouts](#)
 - This workflow is configured on the application initializing event and checks to see if the user is using a mobile device and loads the mobile layout appropriately.
 - Location: Services > Application Initializing Event

VertiGIS Studio Reporting Samples

The following VertiGIS Studio Reporting templates are available in the sample app.

- Fire Hydrants Report
 - This is a sample report template that is configured against the Fire Hydrants layer and includes a map, subreport and attachments. The map and attachments are only displayed if the report is generated against a single hydrant feature.
 - Location: Fire Hydrants Layer Feature Action
 - Data Source:
Name: Capital City
Type: ArcGIS
URL: https://services.arcgis.com/p3UBboyC0NH1uCie/arcgis/rest/services/CapitalCity_Web_2_0/FeatureServer
- Demographics Report
 - This is a sample report template that is configured against the Neighbourhoods layer and includes a map picture box (only available if run from Demographics workflow) and global chart along with individual feature maps and charts for each record.
 - Location: Neighbourhoods Layer Feature Action, Demographics Workflow
 - Data Source:
Name: Capital City
Type: ArcGIS
URL: https://services.arcgis.com/p3UBboyC0NH1uCie/arcgis/rest/services/CapitalCity_Web_2_0/FeatureServer
- Buildings Report
 - This is a sample report template that is configured against the Buildings layer and includes a chart along with some attributes and feature maps. The feature picture box element will only appear if you run a report against five or less features and the chart will only appear if you run the report against more than five features.
 - Location: Buildings Layer Feature Action, Search Workflow
 - Data Source:
Name: Capital City
Type: ArcGIS
URL: https://services.arcgis.com/p3UBboyC0NH1uCie/arcgis/rest/services/CapitalCity_Web_2_0/FeatureServer
- REST API Report
 - This is a sample report template that is configured against a JSON Data Source which is returned from the USGS REST API. This report needs to be run from a workflow as it queries a REST API and then passes the JSON response to the report as a JSON Data Source. It also uses the Generate Webmap for Report activity and passes the live state of the application to the Map Picture Box report element.
 - Location: REST API Workflow
 - Data Source:
Name: USGS REST API JSON
Type: JSON
JSON: ReportJsonInputs.json (Within the Resources folder)

VertiGIS Studio Printing Samples

The following VertiGIS Studio Printing templates are available in the sample app.

- 8.5 x 11 Landscape
 - This is a sample print template used for generating maps of landscape orientation
 - Location: Home, Tools toolbar
- 8.5 x 11 Portrait
 - This is a sample print template used for generating maps of portrait orientation
 - Location: Home, Tools toolbar

Steps to save samples locally

VertiGIS Studio Workflow

1. To get the most up-to-date workflows, the recommended approach is to use the ArcGIS item links listed above and open them in the Workflow Designer (File > Open by URL).
2. Alternatively, import workflow json files into your Workflow Designer to save them to AGOL/Enterprise by opening the "VertiGIS Studio Workflow" folder in zip package

VertiGIS Studio Printing

1. Open the "VertiGIS Studio Printing" folder in zip package
2. Import Print json files into your Print Designer and save them to AGOL/Enterprise

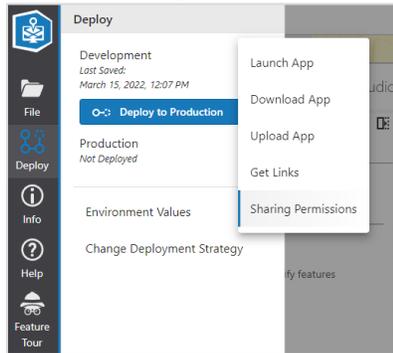
VertiGIS Studio Reporting

1. Create the following Data Sources in your Report Designer
 - a. Capital City Data Source
Name: Capital City
Type: ArcGIS
URL: https://services.arcgis.com/p3UBboyC0NH1uCie/arcgis/rest/services/CapitalCity_Web_2_0/FeatureServer
 - b. Earthquake JSON Data Source
Name: USGS REST API JSON
Type: JSON
JSON: ReportJsonInputs.json (Within the Resources folder)
2. Open "VertiGIS Studio Reporting" folder in zip package
3. Import the report templates and save them to AGOL/Enterprise

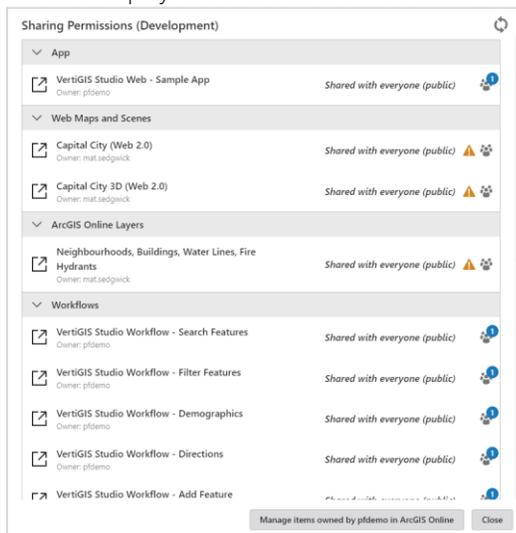
VertiGIS Studio Web

1. Select the "Web GIS - Default" template and save a new app
2. Navigate to File > Upload App and select the "VertiGIS Studio Web – Sample App.zip" in the "VertiGIS Studio Web" folder in zip package
 - a. This will be pointing to all the workflows, reports, prints that are hosted publicly in the VertiGIS Studio AGOL
 - b. To point resources at your newly saved local resources, find each workflow/print/report and change it to your local copy

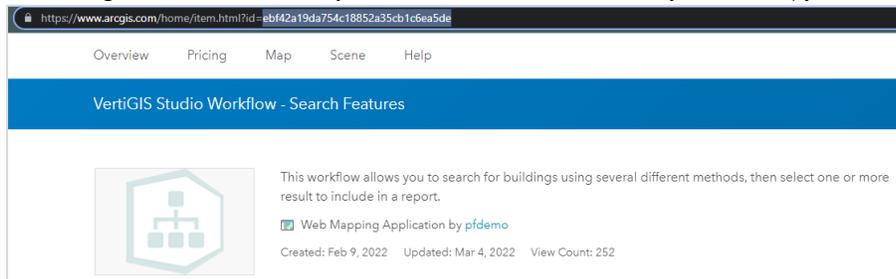
- c. After uploading the app and saving it, navigate to Deploy and then select the context menu to open up Sharing Permissions:



- d. This will display all the references to the workflows, reports, print templates etc



- e. Launching each item will take you to the ArcGIS item where you can copy the item id



- f. Once you've copied the item id, you can use PinPoint Search (Cntrl + F) in the Web Designer to search for all references of the ArcGIS item (workflow, report) and then replace it with your local version. You can use the Sharing Permissions dialog to confirm if you've successfully replaced all references to VertiGIS ArcGIS items with your own content.

