ArcGIS Workflow Manager JavaScript Viewer

Overview:

The Workflow Manager JavaScript Viewer is a fully functional sample application used as is with basic configuration. Configuration and deployment steps are provided in this document. Basic knowledge of ArcGIS Server and Workflow Manager Server REST services is assumed.

Deployment:

Please execute the following steps to deploy the application:

1. Install an HTTP server such IIS or Apache.
2. Copy the contents of the Workflow Manager JavaScript viewer folder into the web folder of the HTTP server, either at the root or a subfolder. (e.g. C:\Inetpub\wwwroot, C:\Inetpub\wwwroot\wmviewer, C:\Apache\htdocs, C:\Apache\htdocs\wmviewer).
3. Modify the deployed **js/app/WorkflowManager/config/AppConfig.js** file to configure the Workflow Manager service, AOI Map service, ArcGIS Token service if these are secured services (details below) and to configure custom basemaps (details below).
4. Modify the deployed **proxy/proxy.config** file to configure the Workflow Manager service that the proxy will forward to (details below).
5. If using IIS, create a website.
6. Launch the sample viewer in a web browser.

Configuration for AppConfig.js:

Several properties can be configured for the viewer. Modify the deployed js/app/WorkflowManager/config/AppConfig.js file.

Application settings

- **app.ServiceRoot** – Specifies the REST URL of the Workflow Manager Service.
- **app.AuthenticationMode** – Specifies whether to use ArcGIS Server Token authentication, Windows authentication or no authentication.
- **app.TokenService** - Specifies the URL of the ArcGIS Token service.
- **app.DefaultUser** – Specifies the default user name for the web application. Note that the user should be a valid Workflow Manager Application user. ⬚ app.AutoLogin – Specifies whether to automatically login the default user when application is opened. Note that this applies only when no authentication is used and a valid Workflow Manager user is specified as default user.
- **app.jobAOILayer.url** - Specifies the REST URL of the Area of Interest (AOI) Map service. The AOI feature class must be published in a Map service with the feature class being the top most layer. This is necessary for AOI queries to work correctly.
- **proxy.url** – Specifies the location of the proxy.
- **geometryServiceURL** – Specifies the location of the ArcGIS Geometry service.

Map settings

- **map.defaultBasemap** – Specifies the id of the basemap to use as the default basemap.

- **map.basemapGallery**
  - **isEnabled** – Specifies whether or not to enable a map gallery for selecting basemaps.
  - **showArcGISBasemaps** – Specifies whether or not to use ArcGIS online basemaps in the basemap gallery. If this property is set to "false", custom basemaps will have to be configured.
- **map.customBasemaps** – Specifies the basemaps to be displayed in the basemap gallery instead of ArcGIS online basemaps.
- **map.initialExtent** - Specifies the application's Area of Interest (AOI) map extent on log in.
- **map.navigation** – Specifies the navigation controls for the map.
- **map.overview** – Specifies whether or not to include an overview map.
- **map.scalebar** – Specifies whether or not to include a scale bar in the map.
- **map.coordinates** – Specifies whether or not to show map coordinates.
- **map.legend** – Specifies whether or not to show map legend.
- **map.drawTool** – Specifies whether or not to show map draw tools.

Configuration for proxy.config:

Configure the proxy settings for the application. Modify the deployed proxy/proxy.config file.
- **serverUrl** – Specifies the Workflow Manager Server REST endpoint. Change "myserver" to the hostname of your ArcGIS server.

Set up a localized viewer for supported languages:

Workflow Manager JavaScript Viewer supports the following additional languages:
- Chinese (Simplfied): zh-CN
- Italian: it
- Russian: ru
- Spanish: es
- Turkish: tr

Configure language support
1. Modify the deployed index.html file.
2. Remove '//' (uncomment) from the locale you want to use with the application. Only one language can be configured at a time.
    Example: locale: "es",
3. Save index.html (or index.aspx).

Set up web security using Windows Authentication with IIS:

Web security can be set up for ArcGIS Workflow Manager Javascript viewer using Windows Authentication with IIS.
1. Enable Windows Authentication in IIS.
   For details on how to enable Windows Authentication in IIS, refer to Windows Authentication.
2. Make sure Anonymous Authentication is disabled for your website.
3. In the JavaScript viewer folder, rename the 'web.config' file to 'web-secure.config'.
4. Modify the deployed js/app/WorkflowManager/config/AppConfig.js file to use Windows Authentication.

      a. Set the Authentication mode to Windows
         AuthenticationMode: "windows"

5. Rename the file extension of index.html to index.aspx. This enables the file to be edited as a .NET file.
6. Open the index.aspx for editing.
    a. Enable the application to use the Windows Authenticated user
       i. For domain authentication remove '//' (uncomment) from the line
          var user = "<%= User.Identity.Name.Replace("MyDomain\","") %>";
          Note: Replace 'MyDomain' to match the organization's domain.
       ii. For repository without domain authentication remove '//' (uncomment) from the line
          var user = "<%= User.Identity.Name.Replace("\","*") %>";
    b. Setup the application to use the Windows Authenticated user at startup.
       i. Remove '//' (uncomment) from the line
          Controller.startup({user: user});
       ii. Put '//' (comment) in the line
          //Controller.startup();

        Note: If you are unsure of the domain name, remove '//' (uncomment) from the following lines. The windows user returned will include the domain name along with the username. The domain name is case sensitive.
          var windowsUser = "<%= User.Identity.Name %>";
          var loadingMsgElem = document.getElementById("loadingMessage");
          loadingMsgElem.innerHTML = "windowsUser = " + windowsUser;

7. Save index.aspx.
8. Open the JavaScript viewer using the url:
         http://your-server-name/website-name/index.aspx

        Note: Some web browsers automatically log users in. If not, enter the user login information and click OK.