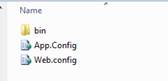
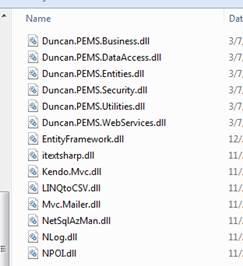
****Revision**** History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Author | Description | Revision Date |
| 1.00 | Sergey Ostrerov | Initial version | 03/20/2014 |
|  |  |  |  |

**INTERNAL FIELD MAINTENANCE (FM) WEB SERVICES**

### *Installation And Deployment*

In order to deploy the internal web services, the following steps must be taken (.net 4.0 has to be installed on the server as well):

1. **Publish the services**
   1. The Duncan.PEMS.WebServices project must be built and published to a folder.
   2. The root of the published folder should look like:
      1. 
   3. And the bin folder should include:
      1. 
2. **Update the Web Config**
   1. The web config is where the connection strings are located for the various databases. This should mimic the connectionstrings.Config connections from the main PEMS application. Go through the web config and make updates to ensure all of the items underneath the <connectionStrings> node are correct.
   2. Do not modify the scriptProcessor attribute of the <system.webServer> / <handlers> / <add> nodes unless the .Net isapi handler is located somewhere else. This is the default location.

EXAMPLE:

<?xml version="1.0" encoding="utf-8"?>

<configuration>

<system.web>

<httpHandlers>

<add type="Duncan.PEMS.WebServices.FieldMaintenance.ClearAlarms, Duncan.PEMS.WebServices" verb="\*" path="ClearAlarms" />

<add type="Duncan.PEMS.WebServices.FieldMaintenance.GetWorkOrders, Duncan.PEMS.WebServices" verb="\*" path="GetWorkOrders" />

</httpHandlers>

<identity impersonate="false" />

</system.web>

<system.webServer>

<handlers>

<add name="ClearAlarms" path="ClearAlarms" verb="\*" modules="IsapiModule" type="Duncan.PEMS.WebServices.FieldMaintenance.ClearAlarms, Duncan.PEMS.WebServices" scriptProcessor="C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet\_isapi.dll" resourceType="Unspecified" requireAccess="Script" />

<add name="GetWorkOrders" path="GetWorkOrders" verb="\*" modules="IsapiModule" type="Duncan.PEMS.WebServices.FieldMaintenance.GetWorkOrders, Duncan.PEMS.WebServices" scriptProcessor="C:\Windows\Microsoft.NET\Framework\v4.0.30319\aspnet\_isapi.dll" resourceType="Unspecified" requireAccess="Script" />

</handlers>

<directoryBrowse enabled="false" />

</system.webServer>

<connectionStrings>

<add name="Duncan.Membership.Connector" connectionString="Data Source=[SQL SERVER NAME];Initial Catalog=[PEMSRBAC DB NAME];User ID=[USERNAME];Password=[PASSWORD];" providerName="System.Data.SqlClient" />

<!-- Reference for the data context that will contain all of the RBAC data used by the application. -->

<add name="PEMRBACEntities" connectionString="metadata=res://\*/RBAC.PEMRBACEntities.csdl|res://\*/RBAC.PEMRBACEntities.ssdl|res://\*/RBAC.PEMRBACEntities.msl;provider=System.Data.SqlClient;provider connection string=&quot;data source=[SQL SERVER NAME];initial catalog=[PEMSRBAC DB NAME];user id=[USERNAME];password=[PASSWORD];MultipleActiveResultSets=True;App=EntityFramework&quot;" providerName="System.Data.EntityClient" />

<add name="PEMEntities" connectionString="metadata=res://\*/PEMS.PEMS.csdl|res://\*/PEMS.PEMS.ssdl|res://\*/PEMS.PEMS.msl;provider=System.Data.SqlClient;provider connection string=&quot;data source=[SQL SERVER NAME];initial catalog=[PEMS DB NAME];persist security info=True;user id=[USERNAME];password=[PASSWORD];MultipleActiveResultSets=True;App=EntityFramework&quot;" providerName="System.Data.EntityClient" />

<add name="PEMS.CNX.1" connectionString="metadata=res://\*/PEMS.PEMS.csdl|res://\*/PEMS.PEMS.ssdl|res://\*/PEMS.PEMS.msl;provider=System.Data.SqlClient;provider connection string=&quot;data source=[SQL SERVER NAME];initial catalog=[PEMS DB NAME];persist security info=True;user id=[USERNAME];password=[PASSWORD];MultipleActiveResultSets=True;App=EntityFramework&quot;" providerName="System.Data.EntityClient" />

<add name="PEMS.CNX.2" connectionString="metadata=res://\*/PEMS.PEMS.csdl|res://\*/PEMS.PEMS.ssdl|res://\*/PEMS.PEMS.msl;provider=System.Data.SqlClient;provider connection string=&quot;data source=[SQL SERVER NAME];initial catalog=[PEMS DB NAME];persist security info=True;user id=[USERNAME];password=[PASSWORD];MultipleActiveResultSets=True;App=EntityFramework&quot;" providerName="System.Data.EntityClient" />

<add name="MAINT.CNX.1" connectionString="metadata=res://\*/RBAC.MaintenanceEntities.csdl|res://\*/RBAC.MaintenanceEntities.ssdl|res://\*/RBAC.MaintenanceEntities.msl;provider=System.Data.SqlClient;provider connection string=&quot;data source=[SQL SERVER NAME];initial catalog=[PEMSRBAC DB NAME];user id=[USERNAME];password=[PASSWORD];MultipleActiveResultSets=True;App=EntityFramework&quot;" providerName="System.Data.EntityClient" />

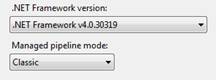
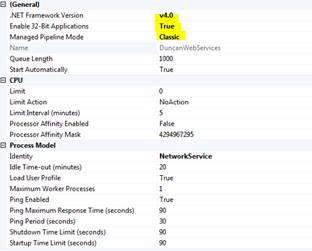
<add name="REPORTING.CNX.1" connectionString="Server=[SQL SERVER NAME];Database=[PEMS DB NAME];User ID=[USERNAME];Password=n0\_Pr3ssure;MultipleActiveResultSets=True;" />

<!--Additional connection string samples -->

<add name="REPORTING.CNX.2" connectionString="Server=[SQL SERVER NAME];Database=[PEMS DB NAME];User ID=[USERNAME];Password=[PASSWORD];MultipleActiveResultSets=True;" />

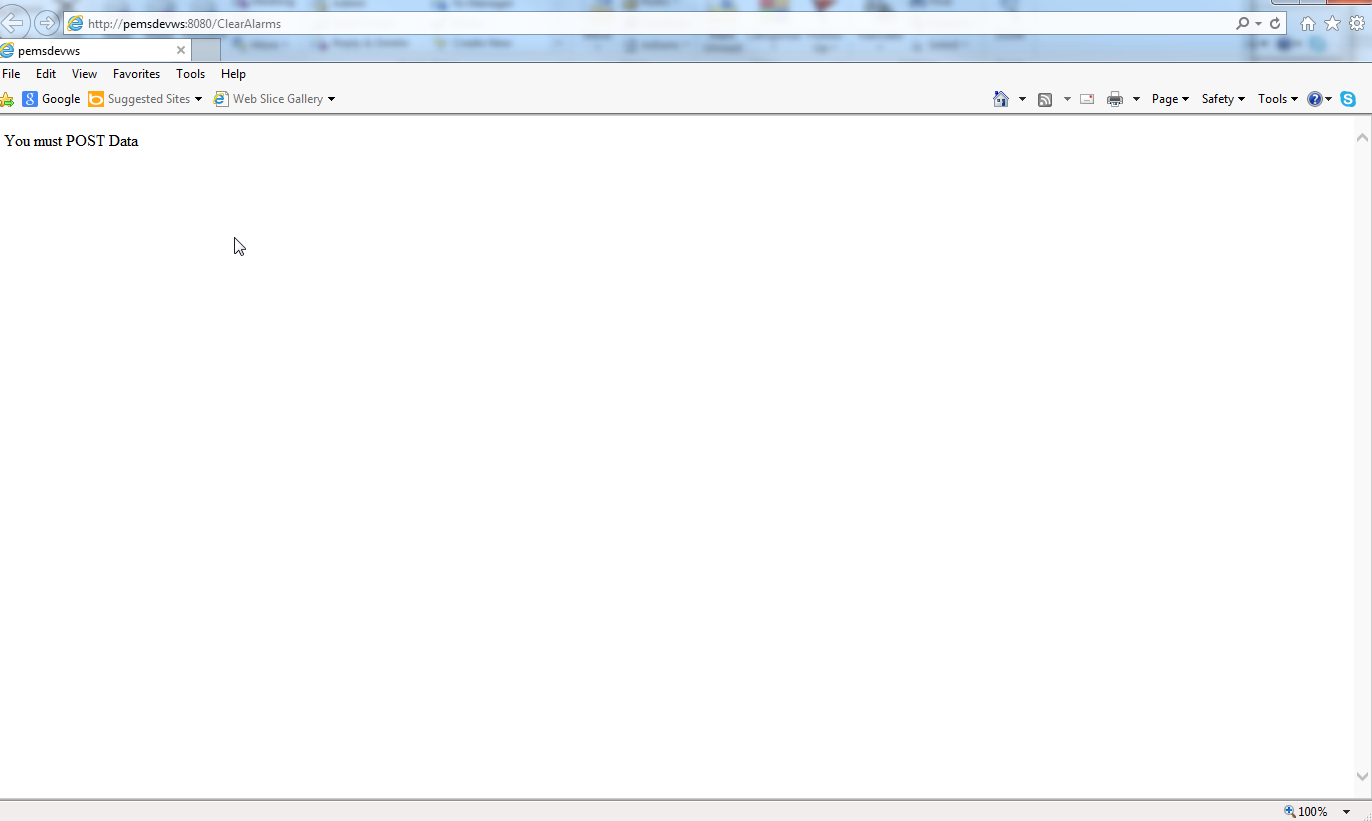
</connectionStrings>

</configuration>

1. **Setup IIS**
   1. Application pool
      1. 
      2. 
   2. Create a new site that points to the published folder from Step 1
2. Navigate to the services.

**http://[ WEB SERVER NAME]**

For example, if your Sites url is **http://dev.pemsportal.com**, then you would navigate to <http://dev.pemsportal.com:8080/ClearAlarms> or  [http://dev.pemsportal.com:8080/GetWorkOrders](%20http://dev.pemsportal.com:8080/GetWorkOrders) and you should see a screen similar to this:



Each environment will need one set up for it, as the connection strings will be different.

**Field Maintenance URLs**:

**DEV**

172.27.1.41

www0210235

<http://dev.pemsportal.com:8080/ClearAlarms>

[http://dev.pemsportal.com:8080/GetWorkOrders](http://dev.pemsportal.com:8080/GetWorkOrders%20)

Or

<http://www0210235:8080/ClearAlarms>

[http://www0210235:8080/GetWorkOrders](http://www0210235:8080/GetWorkOrders%20)

**SIT\_NSC**

WWW1110337

192.168.241.111

<http://sit-nsc.pemsportal.com.au:8080/ClearAlarms>

[http://sit-nsc.pemsportal.com.au:8080/GetWorkOrders](http://sit-nsc.pemsportal.com.au:8080/GetWorkOrders%20)

Or

<http://WWW1110337:8080/ClearAlarms>

[http://WWW1110337:8080/GetWorkOrders](http://WWW1110337:8080/GetWorkOrders%20)

**SIT\_AU**

www11103047

192.168.241.58

<http://sit-au.pemsportal.com.au:8080/ClearAlarms>

[http://sit-au.pemsportal.com.au:8080/GetWorkOrders](http://sit-au.pemsportal.com.au:8080/GetWorkOrders%20)

<http://www11103047:8080/ClearAlarms>

[http://www11103047:8080/GetWorkOrders](http://www11103047:8080/GetWorkOrders%20)