Veterans Appointment Notification System (VANS) Installation Manual v 1.0

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**Background**

VANS is a system designed and built to utilize Microsoft .NET 4.0, Microsoft SQL Server 2008 R2 and Internet Information Server 7 or greater. The prototype is currently running on Windows Server 2008 R2 but should run under and newer version of Microsoft Windows server and Internet Information Server (IIS) in the future. If the .NET version utilized or the version of SQL Server used are changed, tweaks may be required to the application and database to ensure complete functionality.

**Assumptions**

This document assumes the following:

* One or more servers running Windows Server 2008 R2 are set up to be a web server and/or database server.
* IIS 7 is installed on the web server as a Role
* Anonymous and Forms authentication are authorized for IIS
* Microsoft .NET 4.0 is installed on the web server
* An instance of SQL server 2008 R2 is running and configured to use the TCP/IP protocol and to use both SQL Server and Windows authentication
* The installer(s) is familiar with IIS and Microsoft SQL Server 2008
* A DNS entry has been made so the application has a URL and the IP address of that entry is already bound to the NIC of the web server

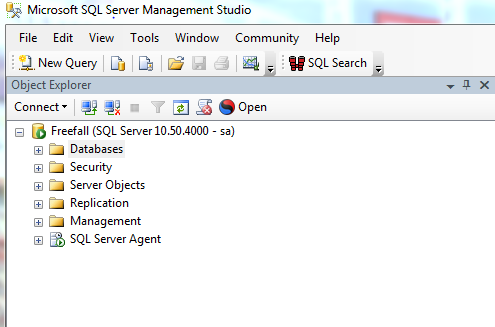
**Installing and Configuring the Database**

The following steps should be performed by a Microsoft SQL Server database administrator or someone who is familiar with the product. Use Microsoft SQL Server Management Studio (SSMS) to do the following steps.

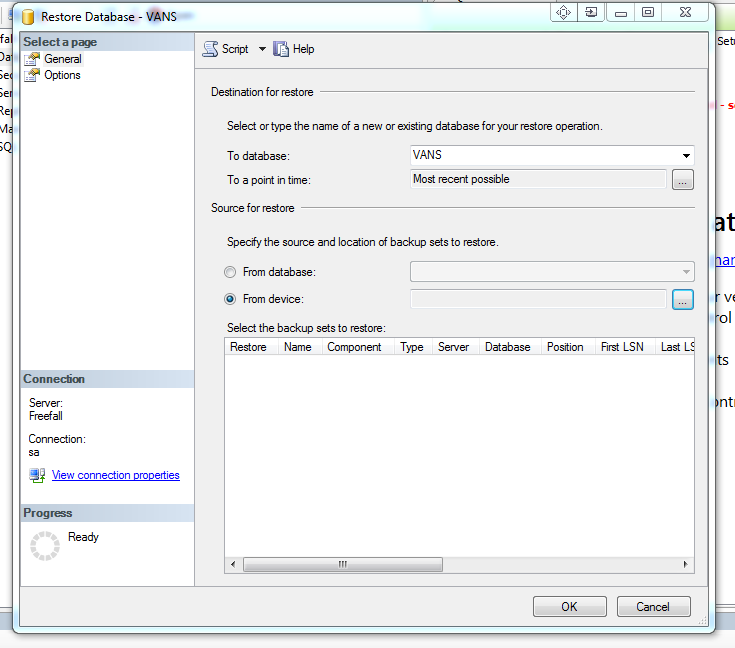
**Step 1 – Restore the database**

A file called VANS.bak was included the delivery of the application source code that contains the database housing all of the tables and stored procedures necessary to run the VANS application. Use SSMS to restore the database by doing the following:

Right Click on “Databases” folder under the instance of SQL server and select “Restore Database”



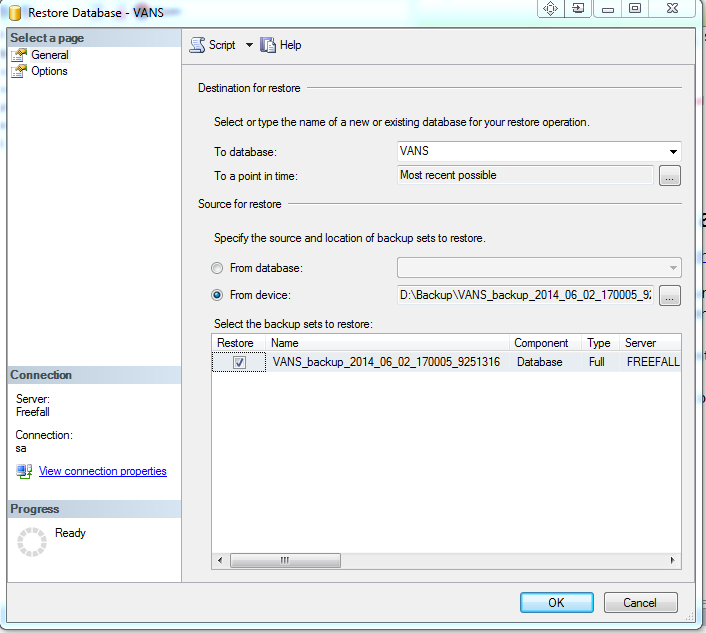
In the “Destination for Restore” section type VANS as the name of the database to restore



In the “Source for Restore” section choose the “From device” radio button and then click the ellipses to select the location of the VANS.bak file.

In the “Specify Backup” window click the “Add” button and then navigate to location of the VANS.bak file. Select the VANS.bak file and click the “OK” button.

In the “Restore Database” window click the checkbox that says “Restore” in the Select the backup sets to restore. Click the “OK” button to begin the restore.

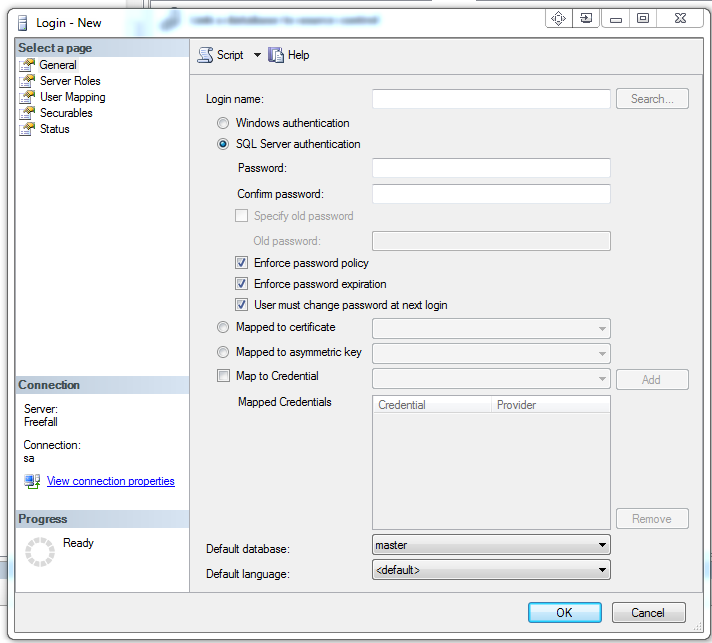


**Step 2 – Configure a User account**

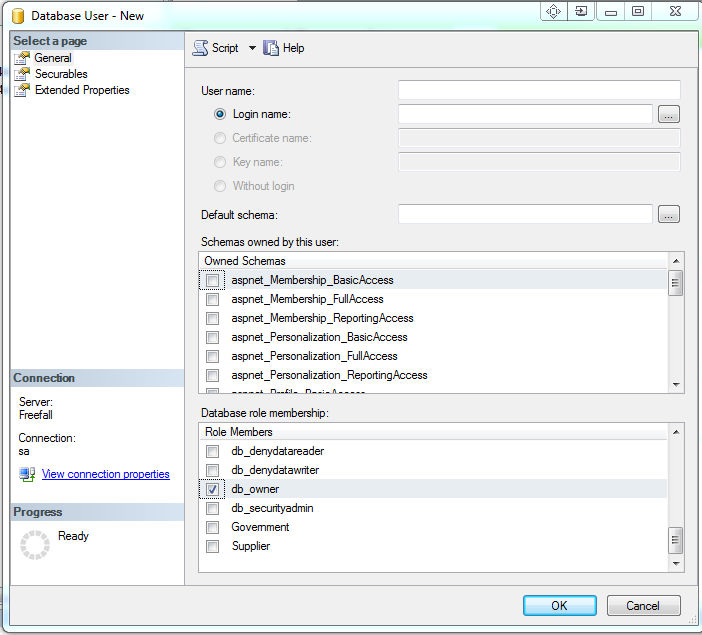
Now that the database is restored, a user must be added to the database that has permissions to access the database. A SQL server user or a windows domain user can be used to access the database. Please choose user type based upon your hosting environment’s standards. This user’s credentials will be used later in a configuration file that allows the application to access the database.

An existing account or a new account can be used. If a new account is being used please follow these steps in SSMS.

1. Expand the “Security” folder
2. Right click on “Logins” and select “New Login…”
3. Select the type of authentication to be used (Windows or SQL Server)
4. Specify a Login name and Password and click the “OK” button



1. Expand the “Databases” folder
2. Expand the “VANS” database
3. Expand the “Security” folder
4. Right click on the “Users” folder and select “New Login”
5. Specify the user name and login name of the user previously created (usually they are the same)
6. In the “Database role membership” click the checkbox next to db\_owner



Your database should now be configured properly.

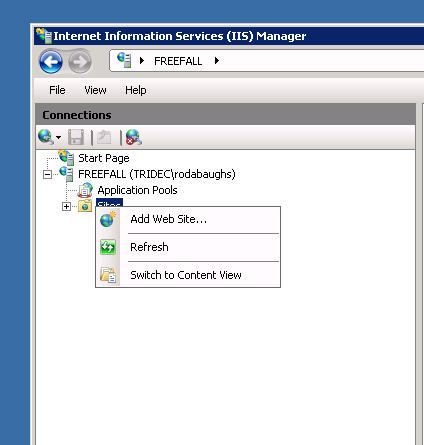
**Setting up the VANS application in IIS**

The VANS application is deployed using X-copy deployment. This means the application files may be copied into a folder and then IIS can be pointed at that folder. To set up VANS in IIS please do the following steps:

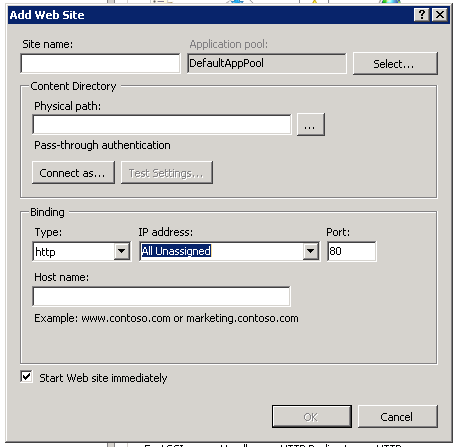
Copy the compiled code files to the directory of your choosing. C:\inetpub\wwwroot is the default folder for IIS.

In IIS do the following:

1. Right click on the “Sites” folder and select “Add Web Site…”

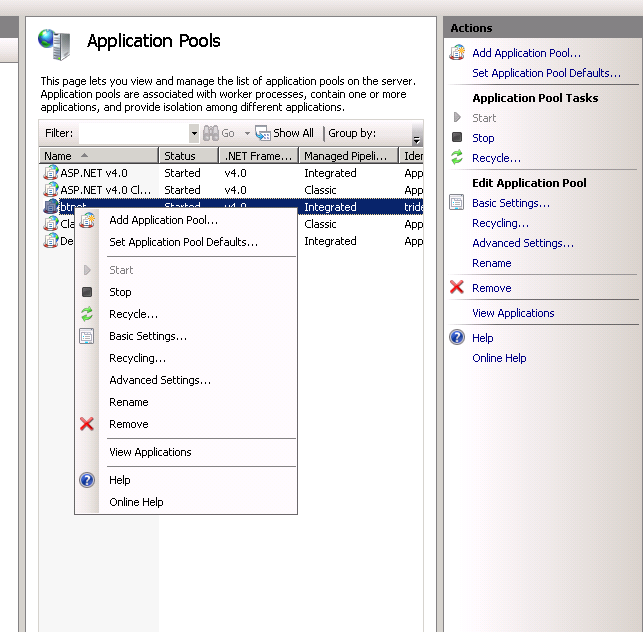


1. Enter a Site name
2. Specify the physical path of the folder to which the application files were copied (i.e. C:\inetpub\wwwroot)
3. Choose the type of binding (if https a certificate must be used)
4. Choose the IP address of the DNS entry made for the URL
5. Enter the URL used for the DNS entry in the “Host name” box

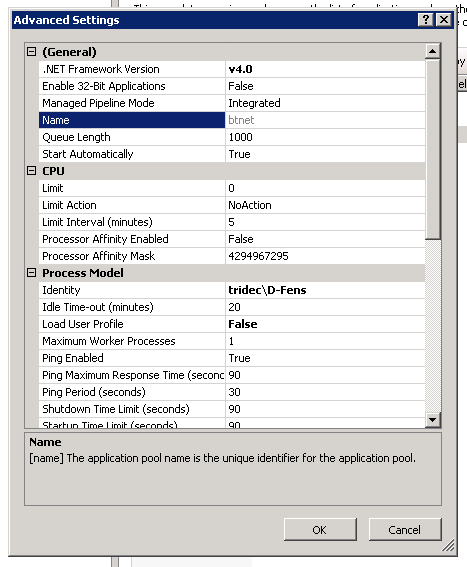


IIS supports running applications that use different version of the .NET framework at the same time. This application uses the version 4.0 of the .NET framework. To specify that the application uses the correct version, do the following:

1. In IIS click on “Application Pools”
2. In the right hand pane, right click on the application pool that was just created for the application or the application pool that was specified when adding the website and select “Advanced Settings…”



1. Ensure that the “.NET Framework Version is set to v4.0.



In order to specify the types of authentication for the VANS application, please do the following steps:

1. Single click on the “VANS” website in IIS
2. In the right hand pane, double click “Authentication”
3. Enable Anonymous and Forms authentication and disable all others

VANS is now configured as a new website in IIS.

**Configuring the VANS application**

The web.config file in the application must be edited for configuration. The file can edited in Microsoft Visual Studio or Notepad. The following edits must be made:

1. In the connectionStrings settings of the web.config the following values must be entered:
2. <connectionStrings>

<remove name="LocalSqlServer"/>

<add name="LocalSqlServer" connectionString="Network Library=DBMSSOCN;Data Source=IP Address,Port Number;Initial Catalog=Database Name;User ID=username;Password=password;Min Pool Size=5;Max Pool Size=60;Connect Timeout=999999999;"/>

<add name="VOAConnectionString" connectionString="Network Library=DBMSSOCN;Data Source=IP Address,Port Number;Initial Catalog=Database Name;Persist Security Info=True;User ID=username;Password=password;Min Pool Size=5;Max Pool Size=60;Connect Timeout=999999999;" providerName="System.Data.SqlClient"/>

</connectionStrings>

1. IP Address and Port Number – These are the IP address of the SQL Server instance above and the port number on which SQL Server is listening (default port is 1433). An example for this setting would be 192.168.1.1,1433
2. Initial Catalog – This is the name of the database that was restored earlier.
3. UserID – This is the user name of the user that was created in SQL server earlier and granted access to the database. This can either be a SQL server user or a domain user.
4. Password – This is the password of the user that was created in SQL server earlier and granted access to the database.
5. In the applicationSettings section of the web.config the following values must be entered:
6. <applicationSettings>

<VANS.My.MySettings>

<setting name="VANS\_us\_vacloud\_devmdws\_EmrSvc" serializeAs="String">

<value>URL</value>

</setting>

</VANS.My.MySettings>

</applicationSettings>

B. The URL of the meadows instance that is being used needs to be entered in between the value tags. Please note that this value must point toward the emrsrv.asmx within an instance of Meadows to function properly. An example of this would be

<setting name="VANS\_us\_vacloud\_devmdws\_EmrSvc" serializeAs="String">

<value>http://devmdws.vacloud.us/mdws2/EmrSvc.asmx</value>

</setting>

1. In the appSettings section of the web.config the following some values must be entered. These four values are information that corresponds to which Vista instance the application accesses by going through the Meadows URL above. This information will need to be provided by someone with access to the particular Vista instance

<appSettings>

<add key="SiteID" value=" "/>

<add key="SiteUser" value=" "/>

<add key="SitePwd" value=" "/>

<add key="SiteContext" value=" "/>

</appSettings>

An example of this is below:

<appSettings>

<add key="SiteID" value="903"/>

<add key="SiteUser" value="cprs1234"/>

<add key="SitePwd" value="cprs4321$"/>

<add key="SiteContext" value="OR CPRS GUI CHART"/>

</appSettings>

1. In order for the VANS application to be able to send “I forgot my password” and “I forgot my username” emails some SMTP settings must be edited in the web.config file. In the system.net section a host address or IP address and a port number must be entered.

<system.net>

<mailSettings>

<smtp from="">

<network host="" port=""/>

</smtp>

</mailSettings>

</system.net>

An example of this is below:

<system.net>

<mailSettings>

<smtp from="">

<network host="relay.email.com" port="25"/>

</smtp>

</mailSettings>

</system.net>

The VANS application is now configured.

**Initial Login**

The VANS application should now be configured and ready for initial login. In a browser, enter the URL of the VANS system that was just installed. At the login page use the following login credentials:

Username: Admin

Password: ZAQ!zaq1

It is highly recommended that this password be changed immediately upon first login for security purposes.

The VANS application is now set up, running and new users may be created in the appropriate roles to start using the system.