

Running Instructions

Contents

Requirements.....	2
Installing Prophecy 13.....	2
Enabling IIS.....	3
Registering ASP.NET 4.5 with the IIS Web Server.....	3
Building Code	4
Configuring IIS.....	5
Configuring Prophecy 13.....	6
Quick Checks	7
Test Call.....	7

Requirements

List of required hardware:

1. Laptop or desktop computer running Windows XP or above

List of required software:

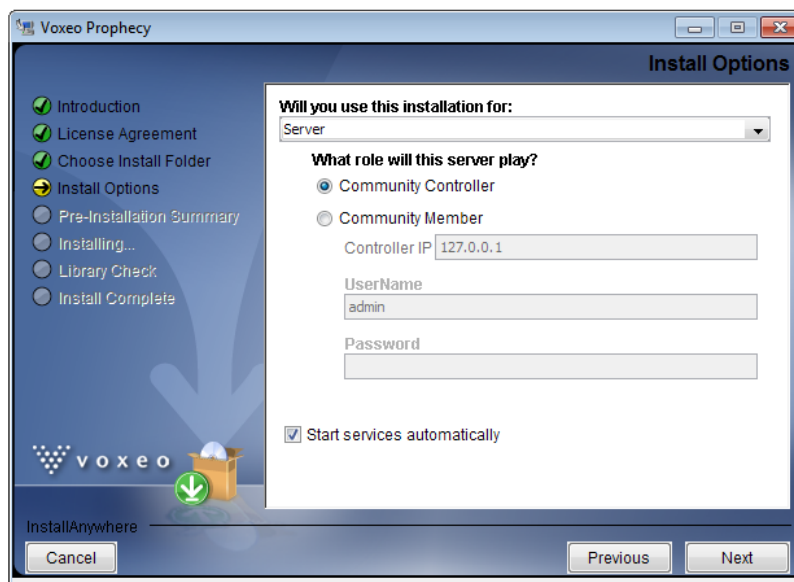
1. SIP and VXML interpreter software
 - a. [Voxeo Prophecy 13](#)
2. [Microsoft Visual Studio 2010 or 2012](#)
3. [.NET Framework 4 or higher](#)
4. [IIS 7.5](#)
5. Microsoft SQL Server

Other requirements:

1. Administrator privilege on the machine

Installing Prophecy 13

1. Download 32 bit or 64 bit [Prophecy 13](#) installer as per the Windows OS version.
2. Click on the Installer and follow the instructions.
3. Prophecy 13 should be installed in **Server mode**.



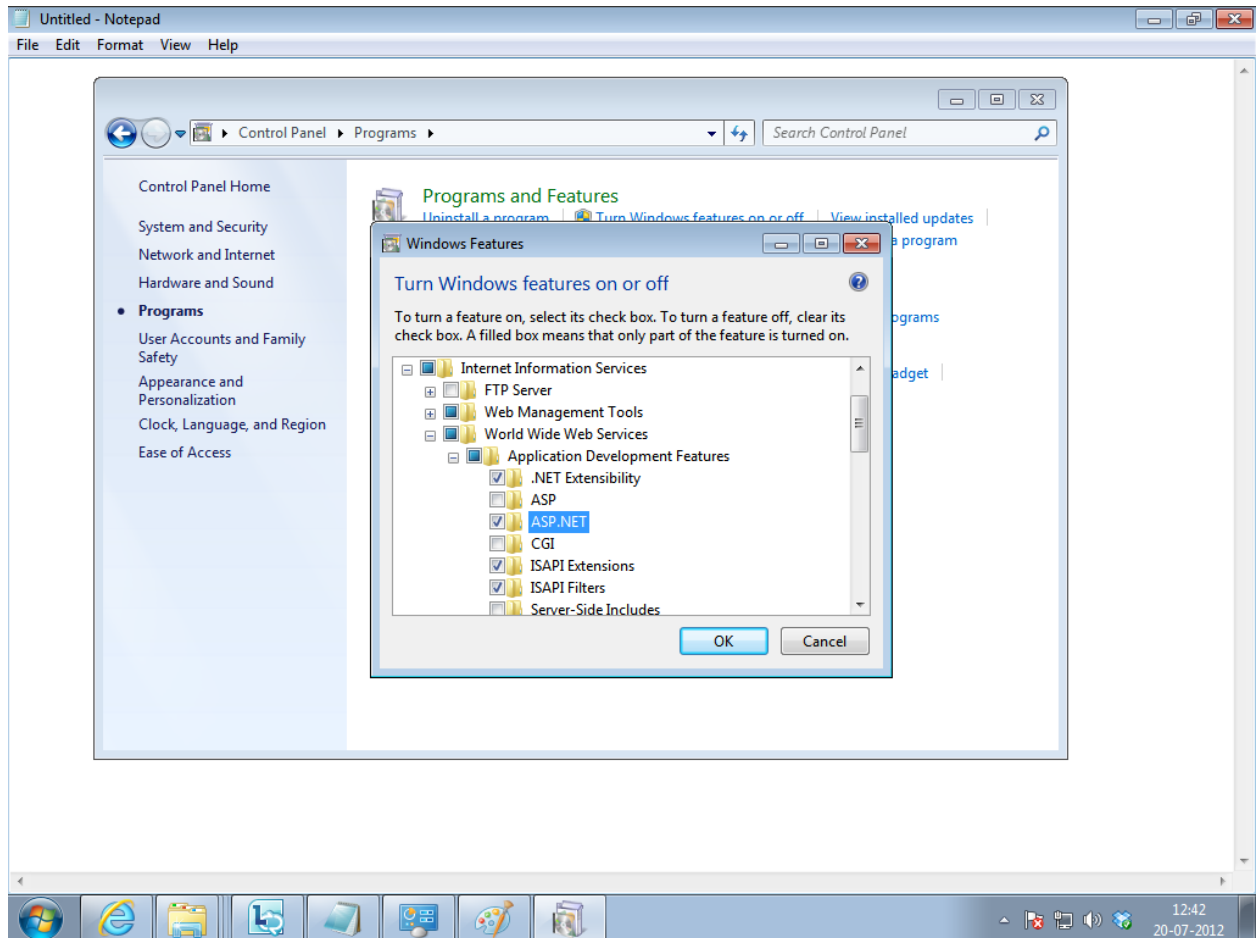
4. Once the installation completes, all services of Prophecy should be running. You can check the status of the Prophecy services by clicking **Voxeo Prophecy icon** (



) and then hover the mouse on **Start** option. There should be right tick mark in front of all services. Usually Prophecy takes some time (2-5 minutes, depending on the speed of your machine) to start all services

Enabling IIS

1. Go to **Start -> Control Panel -> Programs**
2. In **Programs and Features**, Open **Turn Windows Features on or off**
3. In **Windows Features** window, find **Internet Information Services** and Enable **Internet Information Services**
4. Expand **Internet Information Services** -> Expand **World Wide Web Services** -> Expand **Application Development Features** -> Enable **ASP.NET**, **.NET Extensibility**, **ISAPI Extensions**, **ISAPI Filters**. Click **OK**



5. Windows would enable these features

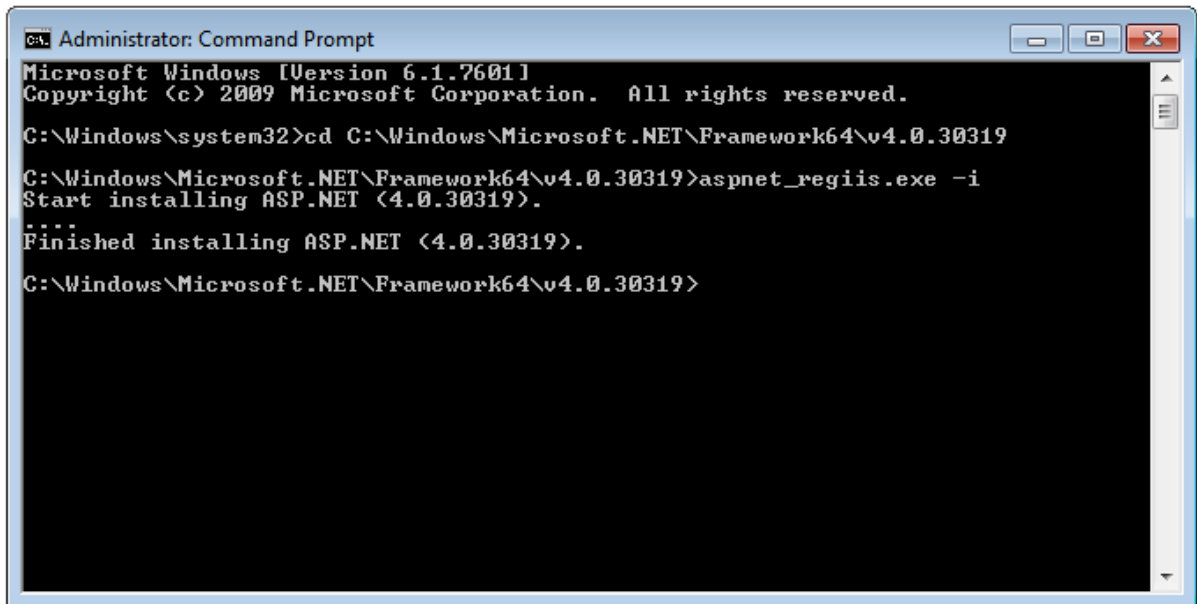
Registering ASP.NET 4.5 with the IIS Web Server

1. Click on **Start**. In the search bar, type **Command Prompt**
2. Right Click on **Command Prompt** and Select **Run as Administrator**
3. Run the following command: **cd <Path>** where Path for
 - a. 32-bit machines would be
`<WindowsDir>\Microsoft.NET\Framework<version number>\`
 - b. 64-bit machines would be
`<WindowsDir>\Microsoft.NET\Framework64<version number>\`

For my machine, the command I am running is

cd C:\Windows\Microsoft.NET\Framework\v4.0.30319

4. Run the following command **aspnet_regiis.exe -i**



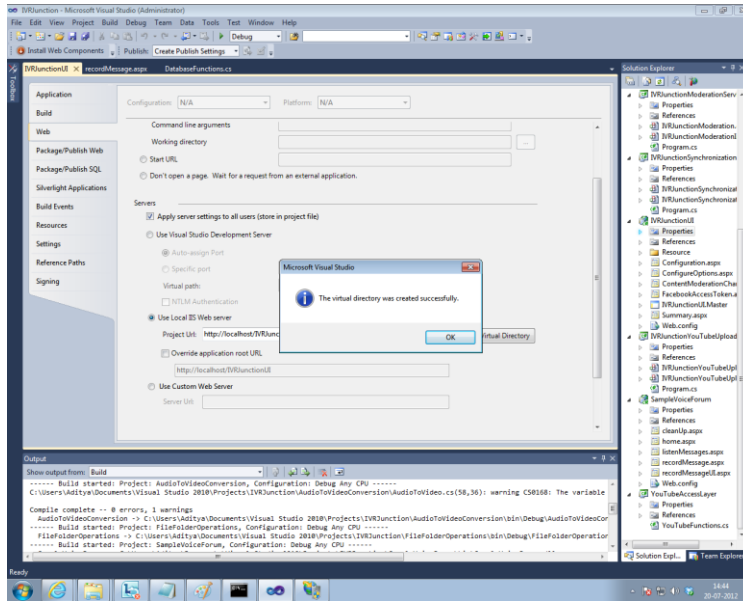
```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\Windows\Microsoft.NET\Framework64\v4.0.30319

C:\Windows\Microsoft.NET\Framework64\v4.0.30319>aspnet_regiis.exe -i
Start installing ASP.NET (4.0.30319).
Finished installing ASP.NET (4.0.30319).
C:\Windows\Microsoft.NET\Framework64\v4.0.30319>
```

Building Code

1. Download the code from the project repository.
2. Copy the folder **IVRHierarchies** in Visual Studio **Project** folder. For my machine, the project folder is C:\Users\Aditya\Documents\Visual Studio 2012\Projects
3. Click on **Start -> All Programs -> Microsoft Visual Studio 2010 -> Microsoft Visual Studio 2010**
4. Right Click and select **Run as Administrator** and Click **Yes**
5. **Visual Studio 2010** would be launched
6. Click File -> Open -> Project/Solution
7. Select solution file and click **Open**. All the projects should be loaded correctly
8. Go to **Solution Explorer -> IVRHierarchies**. Open **Properties**
9. In **Web** tab, in **Servers** section, click on **Create Virtual Directory**. Press **OK**



10. Build the Program by pressing **F6** key or by clicking **Build** on Menu bar and then selecting **Build Solution**. There should be no errors.

Configuring IIS

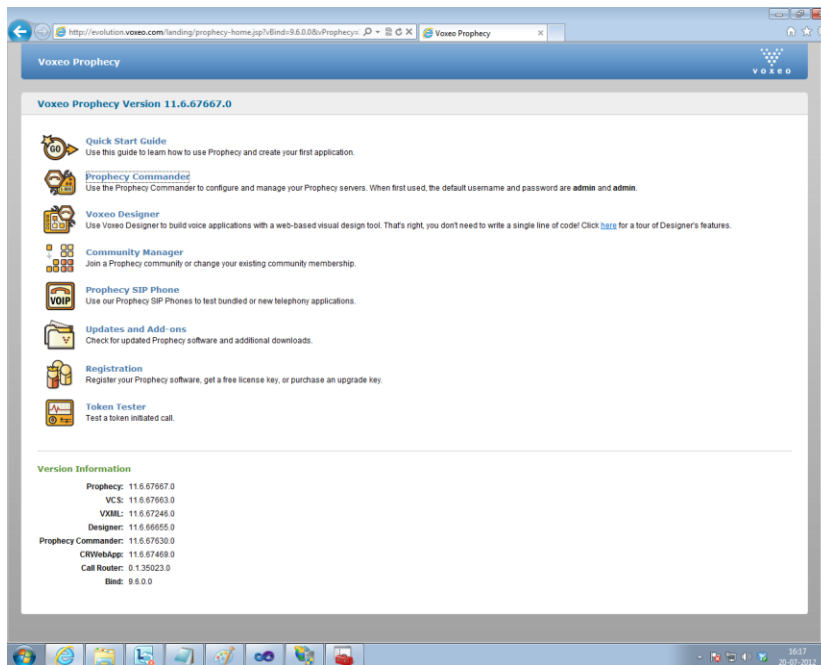
1. Go to **Start**. Type **inetmgr** in search bar and press **Enter** key
2. On the left pane, Expand **<Desktop-Name>**. Expand **Sites**. Expand **Default Web Site**. You will see **IVRHierarchies** application
3. In **<Desktop-Name>**, Select **Application Pools**. Right click and select **Add Application Pool**
4. Enter **Name** as **"IVRJunctionApplicationPool"**. Select **.NET Framework version** as **.NET Framework v4.XX** from the dropdown list
5. Press **OK**
6. You will see that the **IVRJunctionApplicationPool** is added to the existing list of Application Pools. Right click **IVRJunctionApplicationPool**. Select **Advanced Settings**
7. In **Process Model** section, click on **Identity** row. Click on **button** to change the Identity from **ApplicationPoolIdentity** to **Custom Account**
8. In the **Application Pool Identity** window, select **Custom Account** and click **Set**
9. Set **Username** as **DomainName\UserLoginName**. If the computer is not in domain, enter **.\UserLoginName**
10. Set the **Password** as login password of the machine. Enter the same value in **Confirm Password** field
11. Press **OK**. Press **OK** second time. Press **OK** again. You will see that **Identity** column of the **IVRJunctionApplicationPool** changes from default value to the **DomainName\UserLoginName**¹

¹ Please note that if you change the login credentials of the machine, you would need update the login credentials by repeating steps 7 to 12.

12. On the left pane, Expand **<Desktop-Name>**. Expand **Sites**. Expand **Default Web Site**. You will see **IVRHierarchies** application
13. Right click on **IVRHierarchies**. Go to **Manage Application**. Click on **Advanced Settings**
14. In **Advanced Settings** window, click **Application Pool** row. Click **button** to change the Application Pool
15. In the **Select Application Pool** window, use drop down menu to set **Application Pool** to **IVRJunctionApplicationPool**
16. Click **OK**
17. Go to your browser and type localhost/IVRHierarchies/Start.aspx. If you see no errors then IIS is successfully serving the application

Configuring Prophecy 13

1. Click on the **Prophecy Tray Icon** in the Toolbars and Select **Prophecy Commander**. You would be directed to the below page



2. Click on **Prophecy Commander**. You would be directed to **Prophecy Management Console**.
Choose password
 3. Click on **New Application**. Enter any name for your application. Change the browser-type for your Application to **VXML**. Click **Next**
 4. In **Enter a URL pointing to the location of your application**, enter the URL corresponding to the voice forum. In our case, enter localhost/IVRHierarchies/Start.aspx. Click **Next**
 5. Select **Reporting** as **Disabled**
 6. Click on **New**. In **New Address** window, enter **Address** value as **ivrexperiment**. Click **OK**
 7. Click **Save and Close**. You will see our application added in the existing list of applications
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Quick Checks

1. All three IVR Junction services must be started
2. You must be able to access the URL of the IVR experiment:
`http://localhost/IVRHierarchies/Start.aspx`
3. All Prophecy services must be running
4. Firewall must be disabled

Test Call

1. Install Express Talk.
2. Open it and type [ivrexperiment@127.0.0.1](tel:ivrexperiment@127.0.0.1)
3. Press the green button
4. You will hear the experiment.
5. Press 1 for navigating linear list, Press 2 for navigating shallow hierarchy. Press 3 for navigating the deep hierarchy.