

Adaptiva Web WakeUp Administrative Guide

Easily accessible remote PC wakeup for end-users and administrators



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1. Using this document

This document provides the steps for setting up the Adaptiva **Web WakeUp site on Windows Server 2008**.

Web WakeUp can also be setup on Windows Server 2003. In order to setup Web WakeUp for **Windows Server 2003 please read [AdaptivaWebWakeUp2003.doc](#)**.

Upon successful setup of the Web WakeUp site end users can visit the web site's home page to wake up their machines as desired.

2. What is Adaptiva Web WakeUp?

Adaptiva Companion helps organizations shutdown computers when not in use. This helps save power, reduce carbon emissions and lower the energy bill.

There may be occasions in which end-users require remote access to their machines post work hours. Instead of leaving the machine on perpetually, IT can now shutdown idle machines, and through Web WakeUp provide end-users the ability to remotely wake up their machines, at any instant, through a simple web page.

Before launching Web WakeUp an end user will have to provide authentication. Post verifying this data the Web WakeUp page will load with all the machines on which a user has recently logged in. The user can then proceed to wake up any of these machines by simply clicking a button. The web site then uses Adaptiva Companion to wake up the specified machine, and displays status about the outcome of the operation. A user cannot wake up a machine that is not in his purview.

Once the Adaptiva Web Wakeup web site has been installed and configured by the administrator, end users can visit the web site's home page to wake up their machines whenever desired.

As many Adaptiva Web Wakeup sites can be created as desired, and Windows load balancing can be used to scale the web sites and provide redundancy. The entire operation of the web site has been carefully designed to be fully automatic, scalable, and robust. Adaptiva Companion's deep integration with SCCM ensures that the Adaptiva Web Wakeup web site functions remarkably well and scales to hundreds of thousands of users with ease.

3. Installation Pre-requisites

The following Windows components should be present on the web server prior to installing the Adaptiva Web Wakeup web site on the web server:

- This document details setup on a Windows Server 2008 machine. In order to setup Web WakeUp for **Windows Server 2003 please read AdaptivaWebWakeUp2003.doc.**
- IIS version 7.0. By default, IIS 7 is not installed on Windows Server 2008. It can be installed by adding the Web Server (IIS) Role through Server Manager. If IIS is not installed, refer to the section below.
- ASP .NET Role Service is installed
- .NET framework 3.5 is installed

Note: Adaptiva Web Wakeup does not require a functional SCCM site for its operation. Only a functional Adaptiva Companion Server, and the SCCM Site's SQL database are required

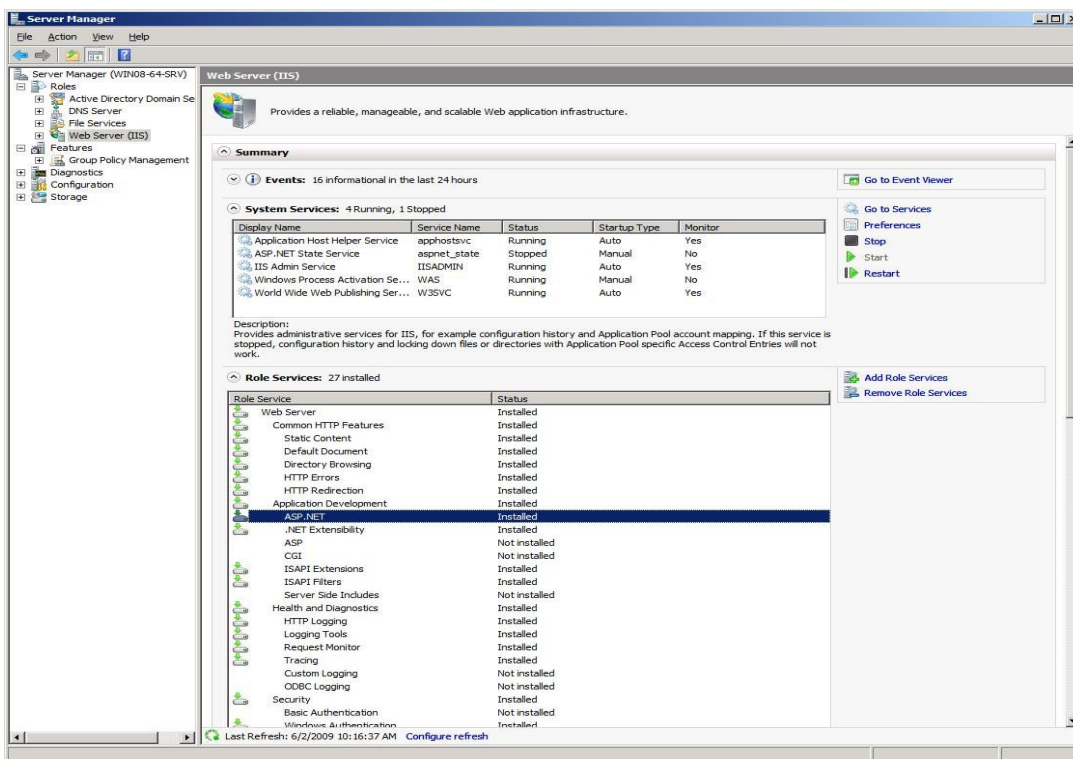


Figure 1: Installing pre-requisites

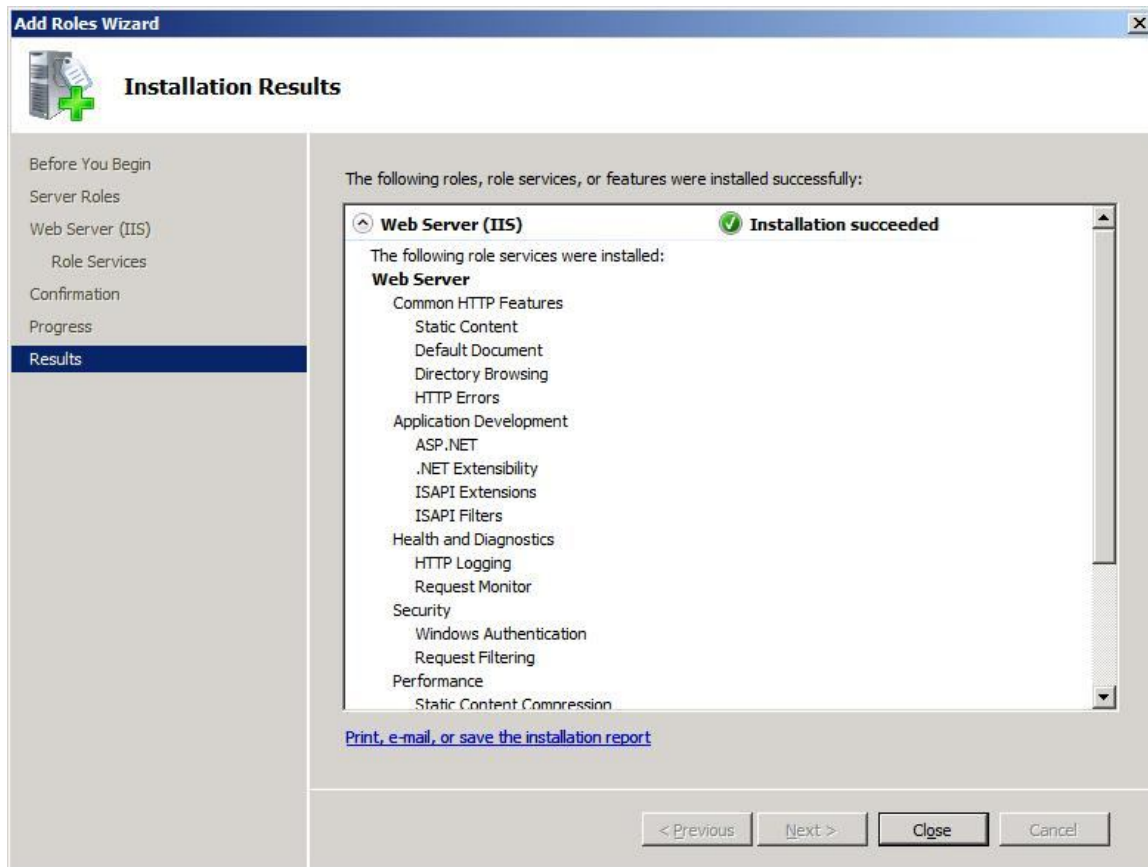
The AdaptivaWebWakeup.ZIP file contains all the Adaptiva Companion components which are required for installing the Adaptiva Web Wakeup web site.

4. Installation steps

a. Install IIS and ASP.NET on Windows Server 2008

Following are the steps to install IIS and ASP .NET on Windows Server 2008:

1. In Windows Server 2008, open **Control Panel** in classic view, click **Administrative Tools**
2. Double click **Server Manager**
3. In the left pane of Server Manager, select the **node** that represents the server that you are currently working on
4. In the right pane, expand the **Roles Summary** section and then click Add Roles
5. In **Add Roles** wizard, Select the Web Server (IIS) check box and then click Next
6. The wizard moves to the Role Services step. A list of available role services is displayed.
7. Select the **ASP .NET** check box under the Application Development role service. Also click on Add required Role services whenever prompted.
8. Select the **Windows Authentication** check box under the Security role service.
9. Select the **IIS 6 Management compatibility** role service
10. Click **Next** and verify the role service selections
11. Click **Install** to start the IIS and ASP .NET installation process.
12. When the installation is complete, click close.



b. Starting the IIS 7.0 Web Server in Windows Server 2008

1. In Server Manager, click the Web Server (IIS) node.
2. In the System service option, make sure that the World Wide Web Publishing Service is running. If the service is not running, start it

c. Installing the web WakeUP site

Following are the steps for installing Adaptiva Web Wakeup site:

1. Extract the required files from AdaptivaWebWakeupSite.zip to any folder. Let us assume that this folder is C:\Wake
2. Open IIS Manager console from the Administrative Tools under control panel

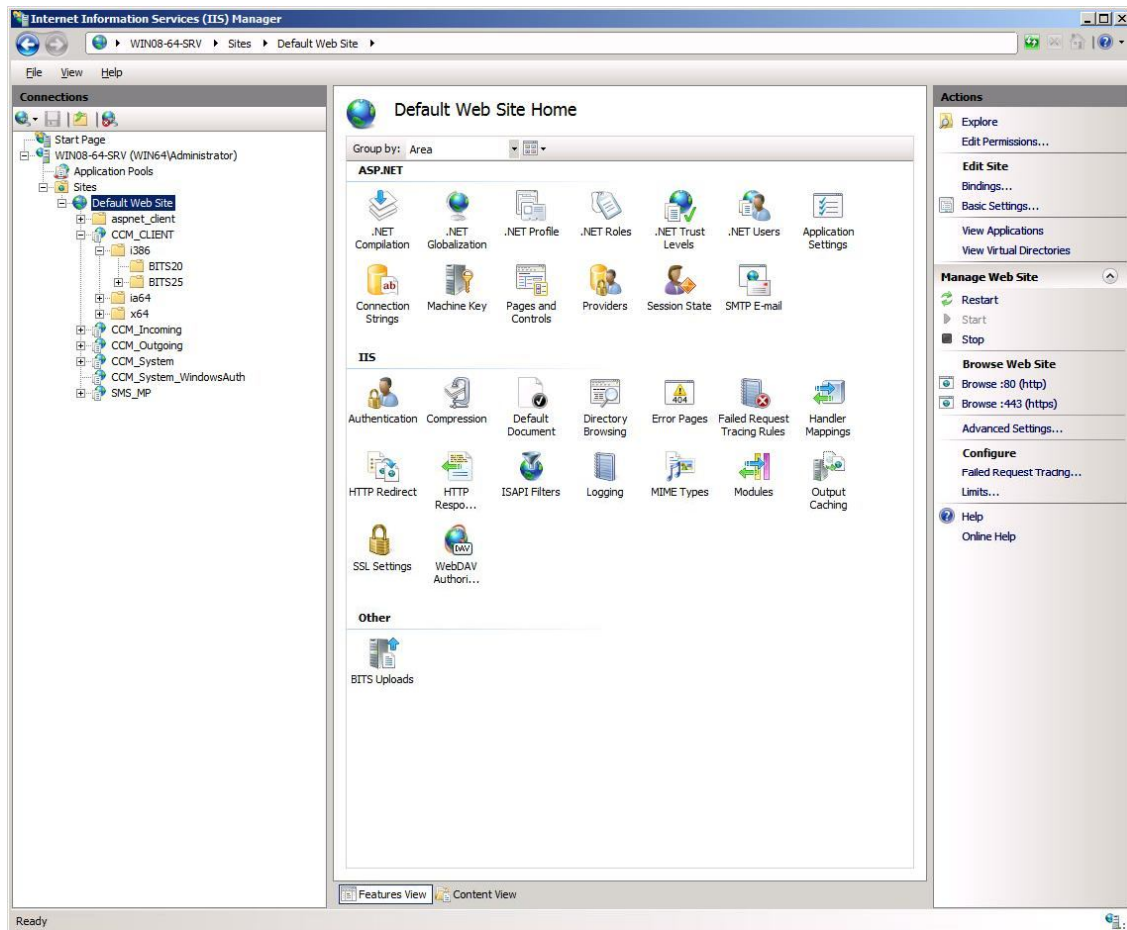


Figure 2: Configuring the IIS Manager

3. Navigate to IIS\local computer\Web Sites\Default Web Site node
4. Right click on the Default Web Site node, and open a Add Virtual Directory wizard from Add Virtual Directory option
5. Add a virtual directory named Wake with the following steps

- a. Give any alias for Web virtual directory. In this example, the Alias is Wake. This alias becomes part of the URL that users must type in for using the Web Wakeup web site

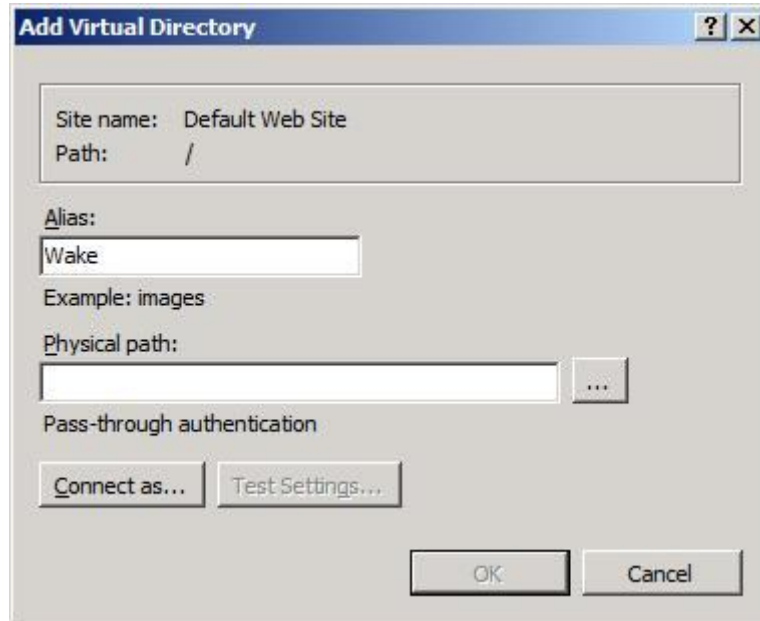


Figure 3: Adding a virtual directory

- b. Set the Physical path to the folder where the AdaptilvaWebWakeup.ZIP file was

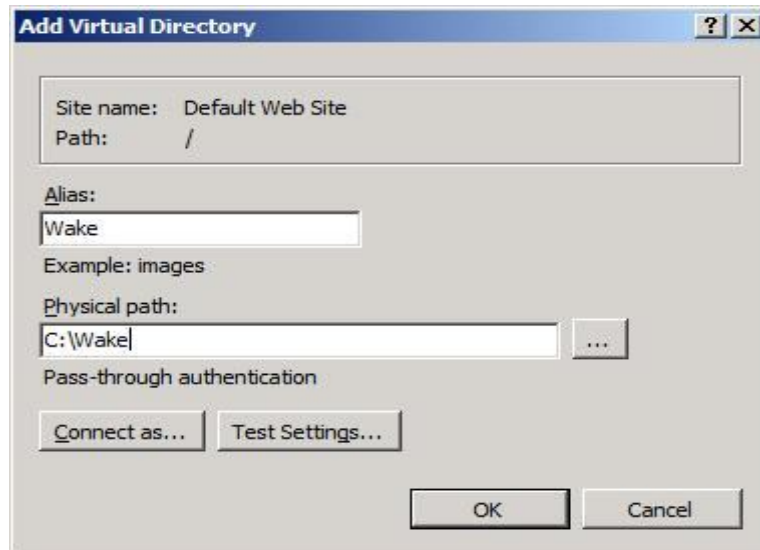


Figure 4: Configure a physical path

- d. Convert this virtual directory to Application. Right click on Wake node of virtual directory and click on Convert to Application option

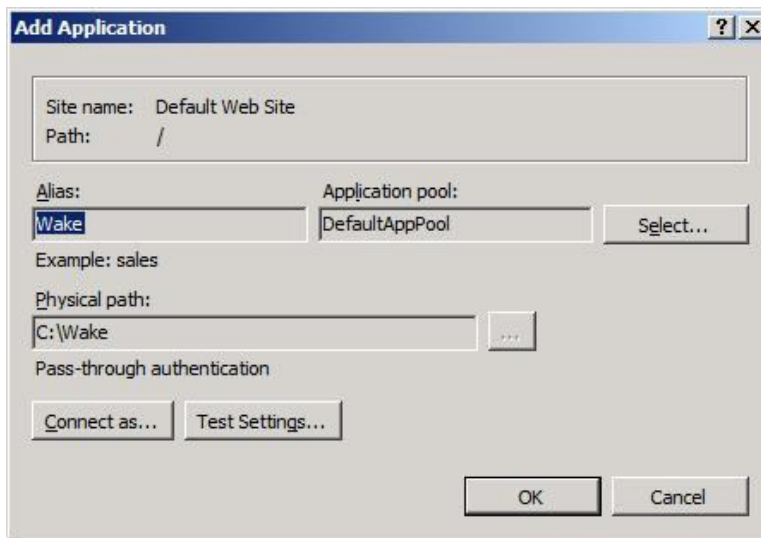


Figure 5: Convert virtual directory to an application

e. Set IIS Authentication for Wake Application

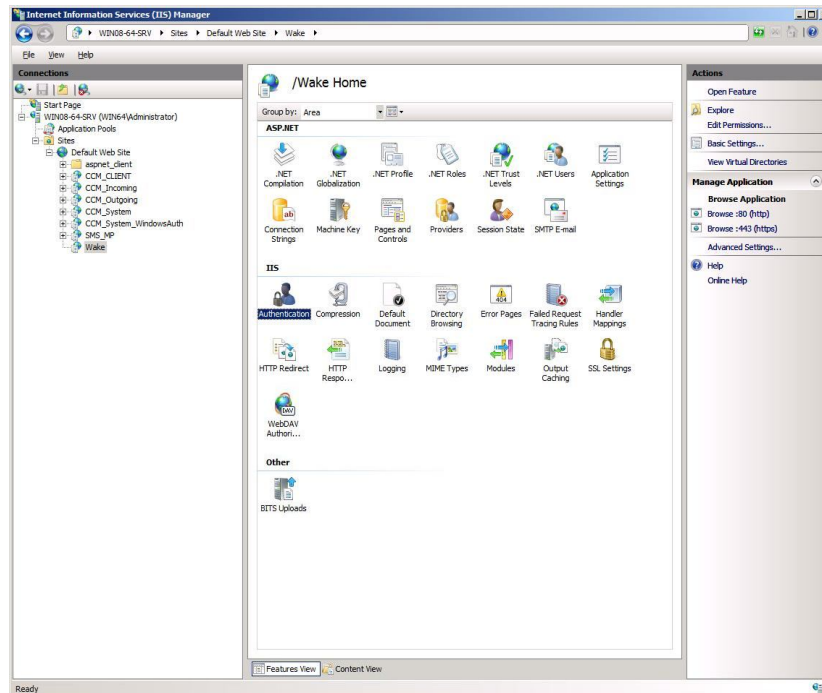


Figure 6: IIS authentication

f. Enable Windows Authentication for Wake Application. Anonymous Authentication should be disabled

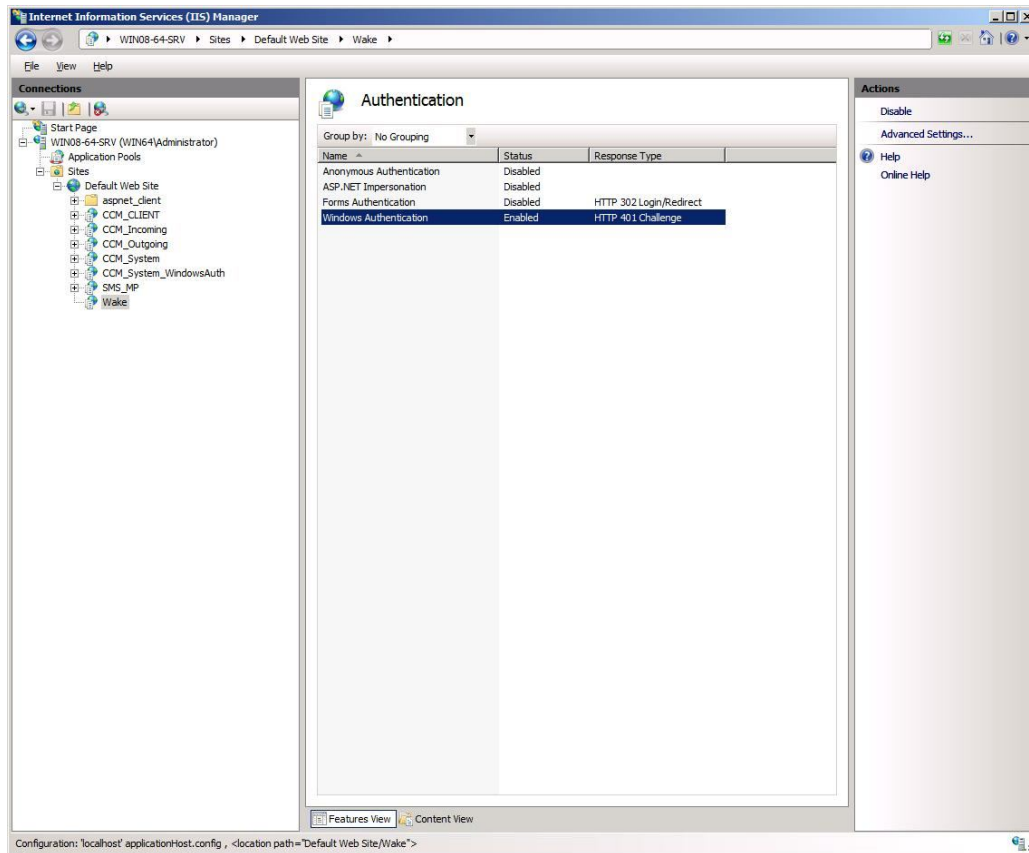


Figure 7: Enabling Windows authentication

g. Add this Application to Application Pools

- Open an Add Application Pool wizard from the Add Application Pool option.
- Give the Application pool Name. In this example, this is Wake
- Set Managed pipeline mode to Integrated.

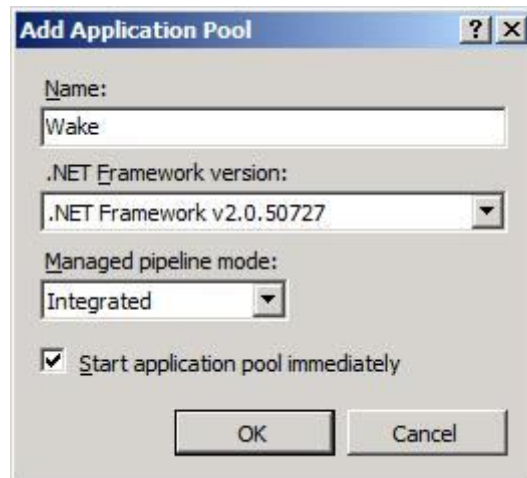


Figure 8: Add an application pool

h. Set the Application pool for Wake Application

- a. Edit Wake Application settings from Basic settings option from Actions pane

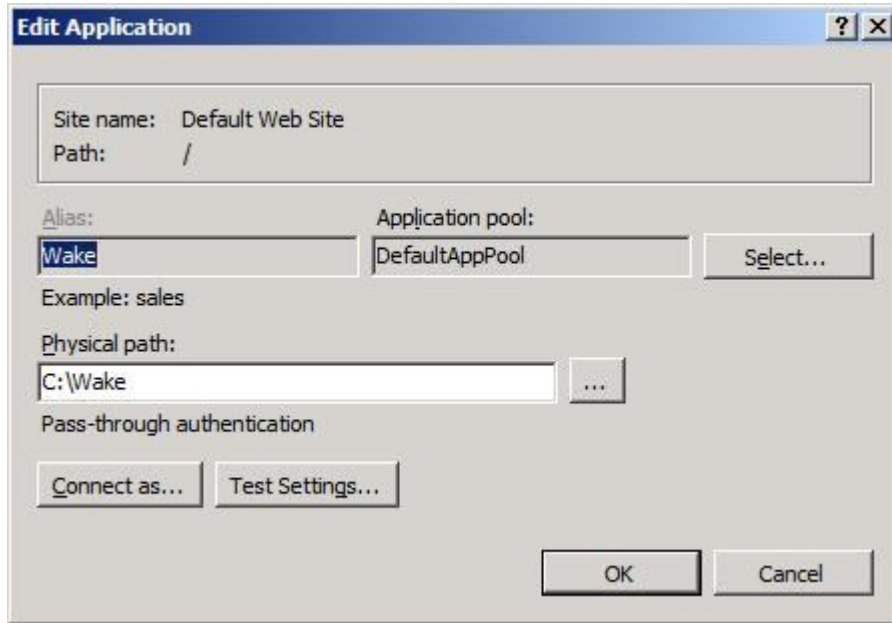


Figure 9: Edit application settings

- h. Select Application pool as Wake for Wake application

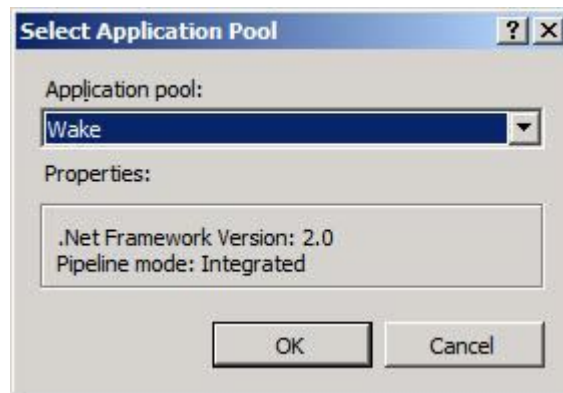


Figure 10: Select application pool

- i. Make the following modifications in Application settings for .NET Application
- ICAPath: Set the value of this property to the folder where ICA.exe is located, ending the folder name with a backslash
 - a. Server : Set the value of this property to the Adaptiva Companion server's machine name
 - b. WOLPort: Set the value of this property to the listening port of Adaptiva Companion server. Default value of 43201 is already set
 - c. If the Web server and Adaptiva Companion Server are in different time zones, set the value of the TimeOffset property to the time difference in hours. (If the web server is ahead, the value is negative, else the value is positive)

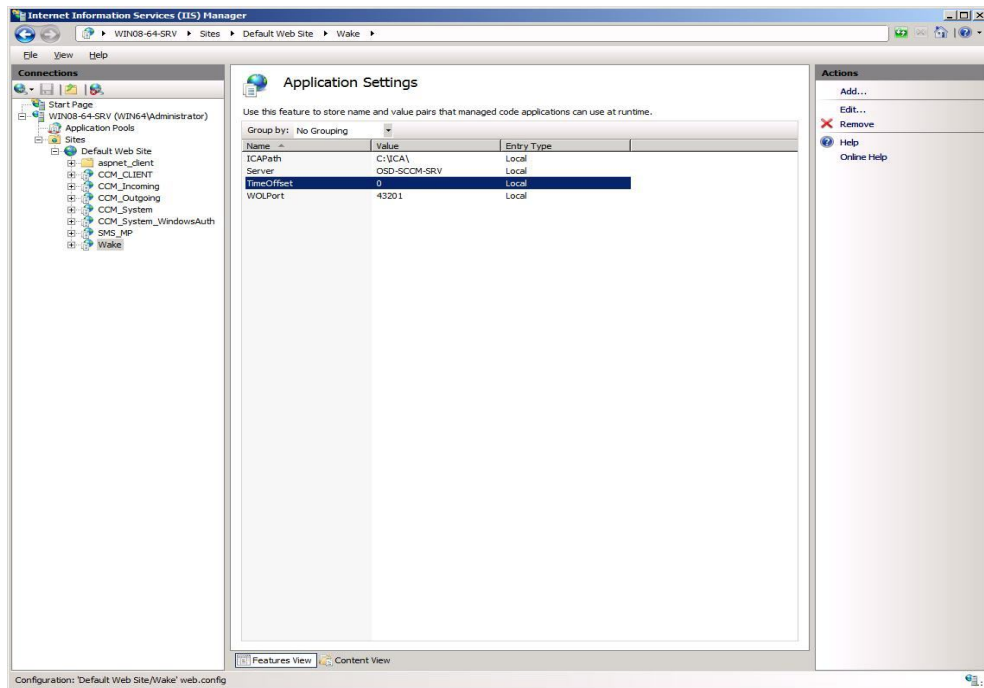


Figure 11: Application settings

- j. Make the following modifications in SQL connection settings
 - Set the value of the SMSSQL property to the appropriate connection string.
 - e.g. Data Source=adaptiva-srv;Initial Catalog=SMS_SC1;User Id=sa;Password=1234

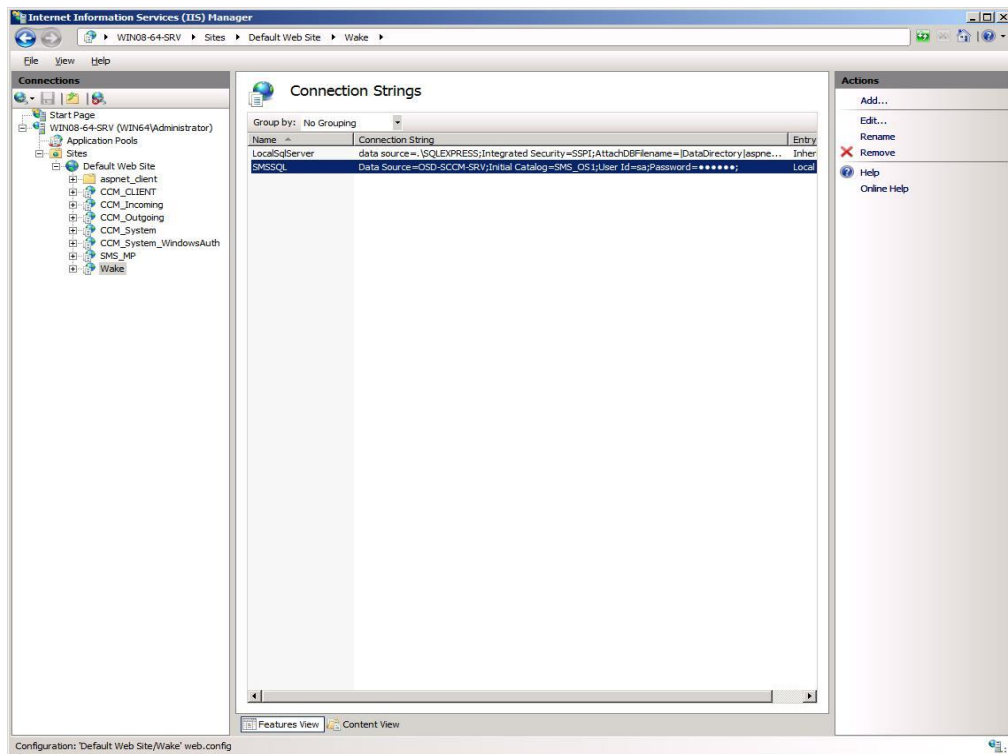
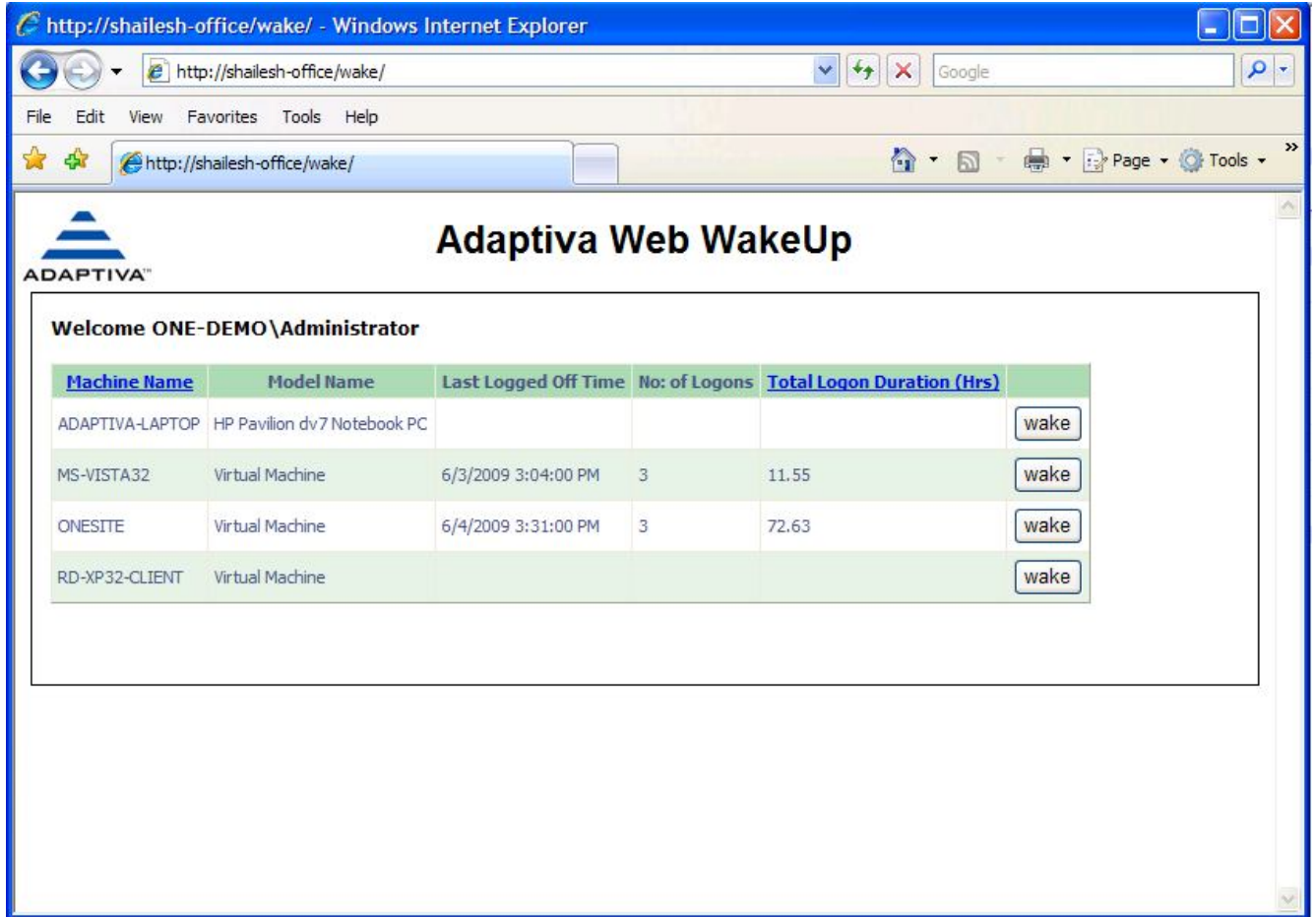


Figure 12: Establishing a connection string

k. Windows authentication settings
<add name="SMSSQL" connectionString="Data Source=ServerName;Initial
Catalog=SMS_SC1;Integrated Security=True" ProviderName="System.Data.SqlClient"/>

5. Testing the web site

Test the Web Site by browsing to the web page. Type `http://localhost/Wake` in the browser. The following page should be displayed



The screenshot shows a Windows Internet Explorer browser window displaying the Adaptiva Web WakeUp interface. The browser's address bar shows the URL `http://shailsh-office/wake/`. The page title is "Adaptiva Web WakeUp". Below the title, there is a welcome message: "Welcome ONE-DEMO\Administrator". A table lists the following data:

Machine Name	Model Name	Last Logged Off Time	No: of Logons	Total Logon Duration (Hrs)	
ADAPTIVA-LAPTOP	HP Pavilion dv7 Notebook PC				wake
MS-VISTA32	Virtual Machine	6/3/2009 3:04:00 PM	3	11.55	wake
ONESITE	Virtual Machine	6/4/2009 3:31:00 PM	3	72.63	wake
RD-XP32-CLIENT	Virtual Machine				wake

Figure 13: Web WakeUp launch screen

d. Fields displayed in web page

The administrator can choose what fields to display in the above displayed table. In the SMS_SystemConsoleUser class the fields for the individual attributes can be set to TRUE or False to enable or disable displayed fields.

This is manipulated through the Def.Mof. The class already exists in the Def.Mof and can be customized with the following settings:

- IF SMS_Report is set to FALSE then only the Machine Name, Model and Wake Up columns will show.
- IF SMS_Report is set to TRUE and the individual column attributes are set to TRUE all fields will be displayed.
- IF SMS_Report is set to TRUE and any of the individual column attributes are set to FALSE the column attribute set to FALSE will not show

```
/** *****  
/** Class: SMS_SystemConsoleUser  
/** derived from: (nothing)  
/**  
/** Key = SystemConsoleUser  
/**  
/** This Asset Intelligence class provides System Console User information.  
/** *****  
[ dynamic, provider("AAInstProv"),  
  SMS_Report (FALSE),  
  SMS_Group_Name ("System Console User"),  
  SMS_Namespace (TRUE),  
  SMS_Class_ID ("MICROSOFT|SYSTEM_CONSOLE_USER|1.0") ]  
class SMS_SystemConsoleUser : SMS_Class_Template  
{  
  [SMS_Report (TRUE), key]  
  string SystemConsoleUser;  
  [SMS_Report (TRUE)]  
  uint32 TotalUserConsoleMinutes;
```

```

[SMS_Report (TRUE)]
uint32  NumberOfConsoleLogons;
[SMS_Report (TRUE)]
datetime LastConsoleUse;
};

```

One can select any of the machines he has the right to wake up and send a magic packet by clicking the wake button in the last column of the web console.

The result of the action will be shown in status messages as below:

Successfully sent last wake command for ONESITE

Machine Name	Time Submitted	Last Status	Status Code	Status
ADAPTIVA-LAPTOP	6/5/2009 12:15:19 PM	6/5/2009 12:22:43 PM	Web 8	Failed. Client did not accept TCP messages. Check firewall settings. Make sure that SMS Companion client is installed.
MS-VISTA32	6/5/2009 12:18:20 PM	6/5/2009 12:20:42 PM	Web 1	Success. Client is already awake.
ONESITE	6/5/2009 12:18:31 PM	6/5/2009 12:20:42 PM	Web 1	Success. Client is already awake.

Updates every 0.5 minute(s).
Last update: 6/5/2009 12:22:43 PM

Figure 14: Status messages for 3 separate wake attempts

The database is polled every 30 seconds and the status of wake action on the client machine is updated.

6. Status messages

Following are the status messages and error code descriptions:

Status ID	Description
Web 1	Success: Client is already awake
Web 2	Success: Client has woken up
Web 3	Failed: No other SMS Companion machine is online on this Subnet
Web 4	Failed: Client did not respond to magic packet. Please enable wake on LAN on this machine.
Web 5	Skipped: Client address in SMS site database is 0.0.0.0
Web 6	Skipped: Client address in SMS site database is 169.254.*
Web 7	Skipped: Client has dialup IP subnet mask of 255.255.255.255
Web 8	Failed: Client did not accept TCP settings. Check firewall settings.
Web 9	Failed: Client subnet peer did not accept TCP messages. Check firewall settings.
Web 10	Failed: An internal software error occurred.

7. Getting Support for Adaptiva Web WakeUP

Web WakeUP is fully supported by its world-class support staff during your evaluation process and post sales. We promise quick resolution ensuring that the product performs flawlessly in your environment.

For live assistance, **24x7 by Phone or Email:**

Call **425-823-4500** (WA,USA) to speak to one of our support engineers or email **support@adaptiva.com**

