CONFIGURING IIS WEB APPLICATIONS FOR USE WITH TIME MACHINE®

RUNNING .NET BASED APPLICATIONS IN IIS UNDER DIFFERENT VIRTUAL CLOCKS WITH TIME MACHINE.

System Details:
OS Name: Microsoft® Windows Server® 2008 Enterprise
Version: 6.0.6002 Service Pack 2 Build 6002
Internet Information Services (IIS) version 7.0
ASP .NET Framework version 4.0.30319
Assumes you have an existing .NET application

START:
1) Start Internet Information Services (IIS) Manager
(%SystemRoot%\system32\inetsrv\InetMgr.exe)
2) Click & expand your server's name in the left pane (example: WIN2008X64-ENT)
3) Left click "Application Pools"
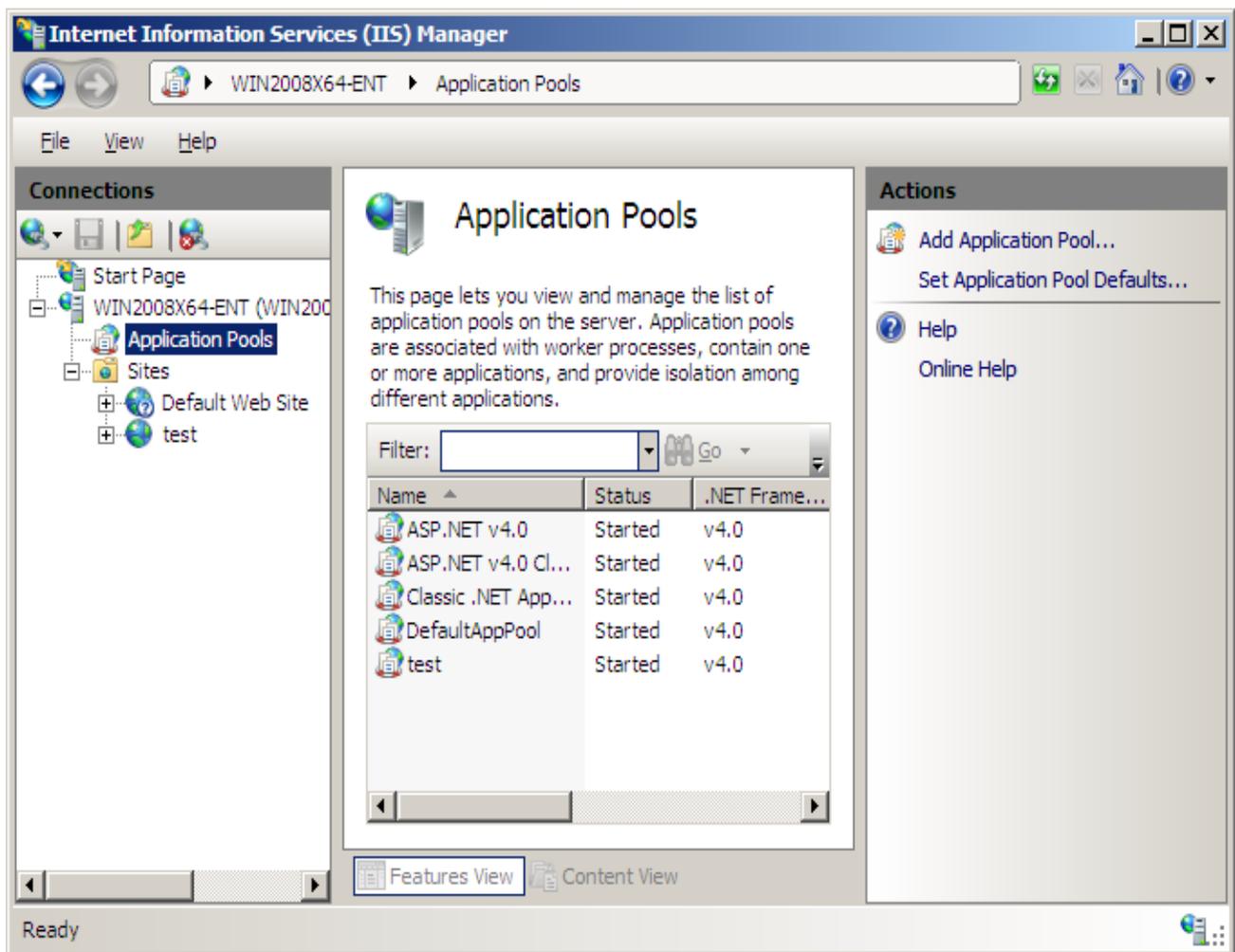
4) in the center pane right click "Add Application Pool"

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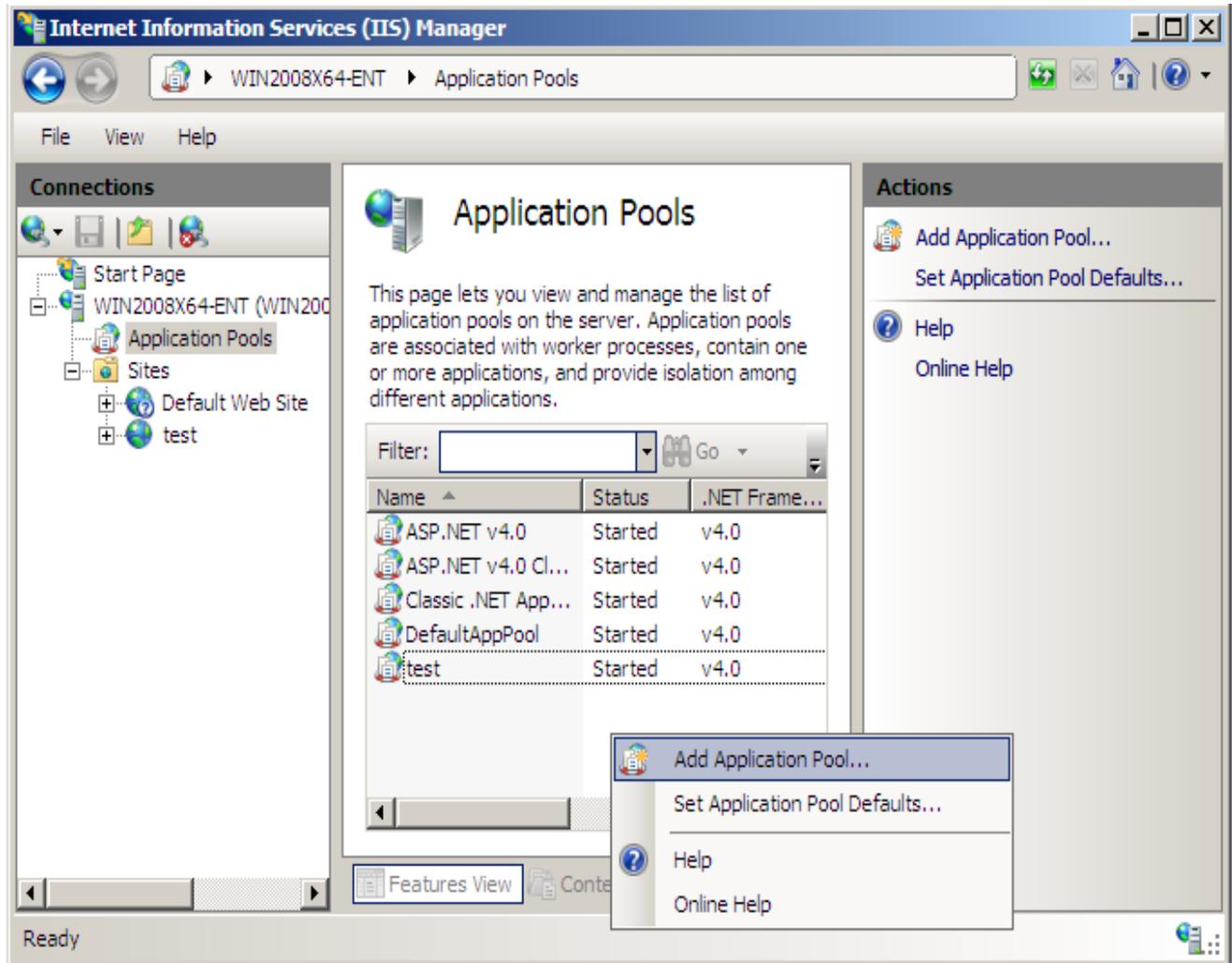
5.) Enter the name of the account you want to run this new pool under "name", choose your .NET Framework version (this example uses 4.0.30319) & click [OK]. This paper uses the local account "Web2" which is a member of the Administrators Group.
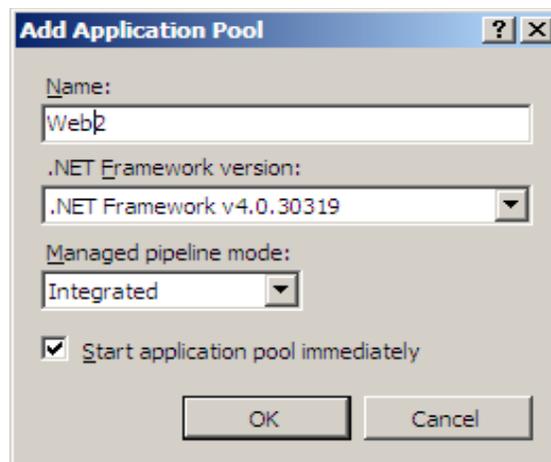
5) Your new Application Pool should now be running. In the IIS manager screen, left click the new pool then on the right pane click on "Advanced Settings"

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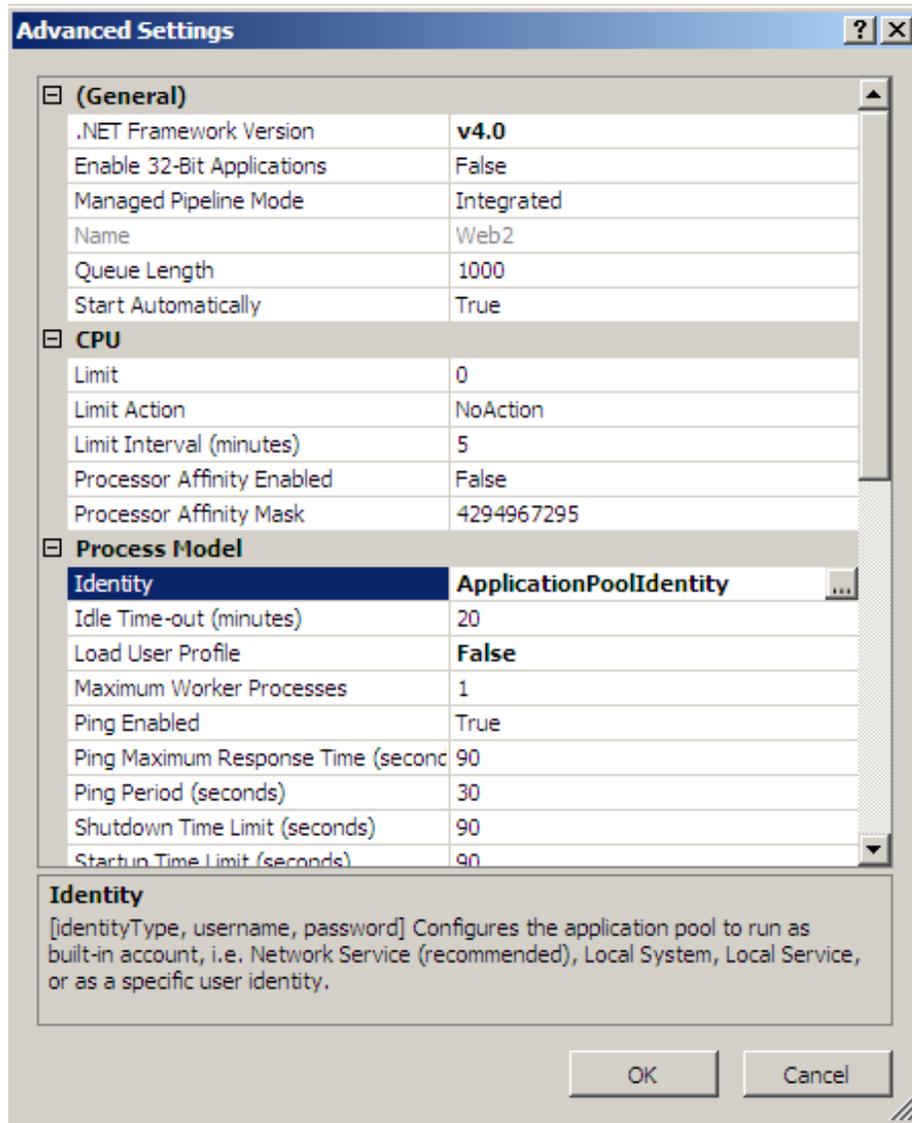
7) In the Advanced Settings menu locate the "Identity" tag under the "Process Model" section & click the expansion [...] box to change to a custom account. Click on "() Custom Account" You will be prompted for the user name and password.
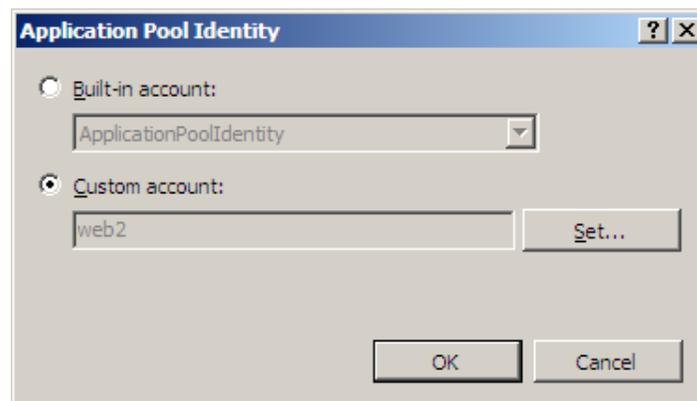
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You now have an Application Pool that can run any ASP applications under a different user Identity.

NOW CREATE A NEW WEB SITE TO HOST THE APPLICATIONS YOU WANT TO RUN UNDER TIME MACHINE VIRTUAL CLOCKS. THESE CAN BE EITHER COPIES OF YOUR EXISTING APPLICATIONS OR ENTIRELY NEW CODE.

8) In the left pane of the IIS Manager right click on sites an choose "Add Web Site"
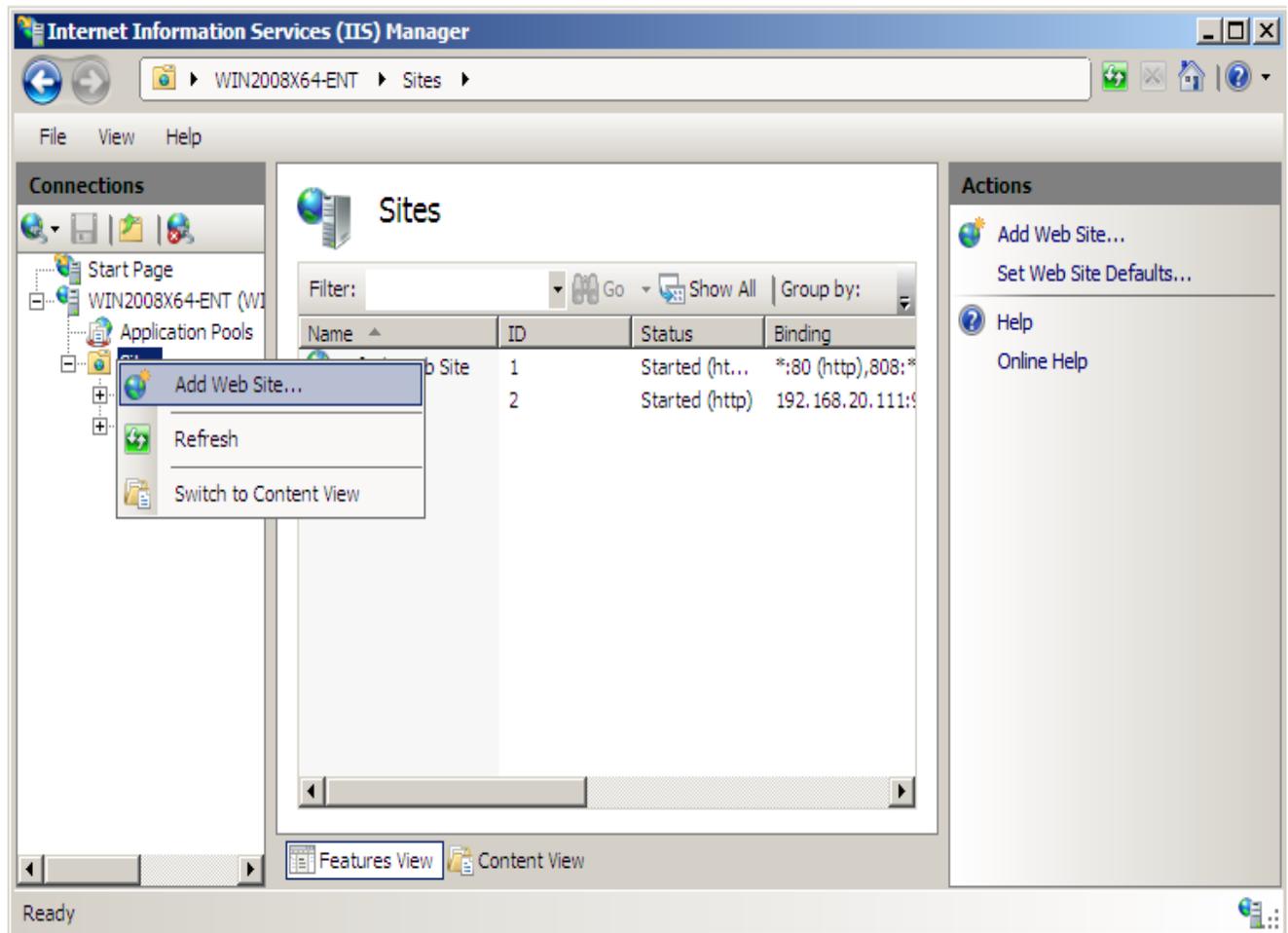
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You will see the following window:
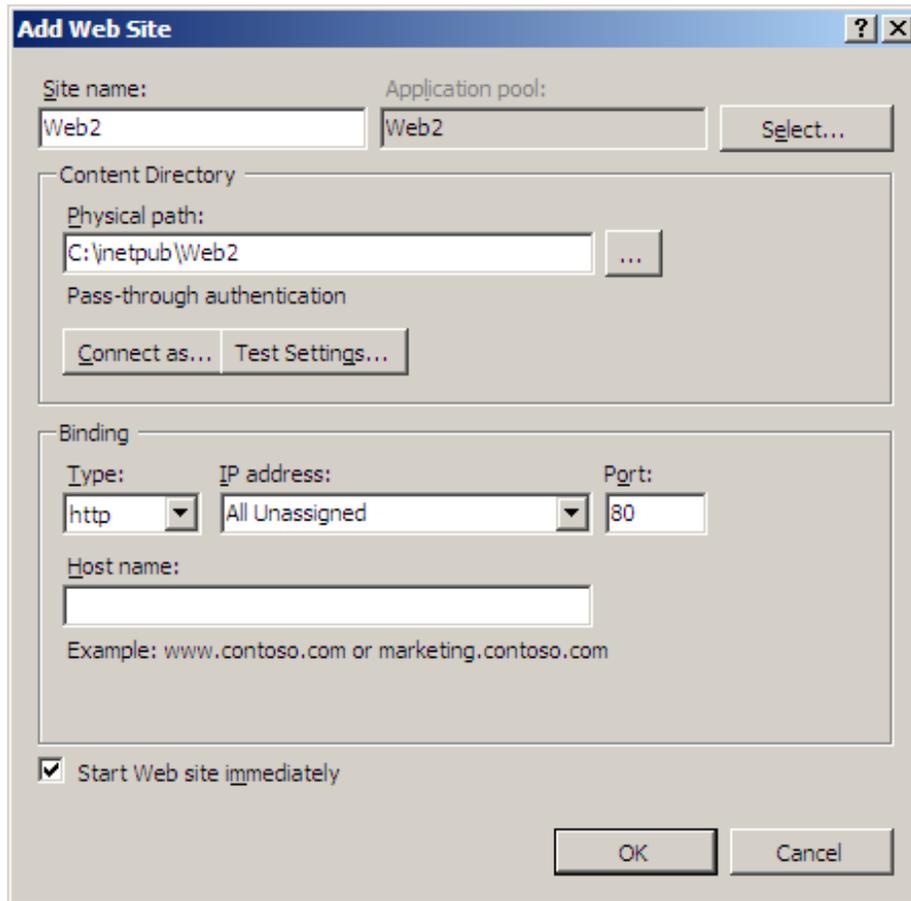
9) For site name enter the Identity name used above eg:"Web2"

10) Under Physical Path this paper uses C:\Inetpub\Web2. You can specify whatever you like.
Also set the IP Address to that of the local machine and assign a port, eg. 88

11) Now click on "Connect as..." and choose "()Specific user", the click the [set] button.
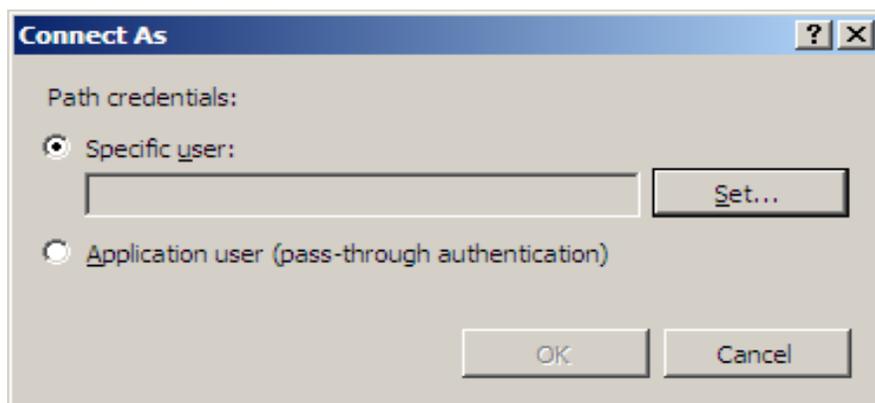
12) Enter the User name & Password & click [OK]

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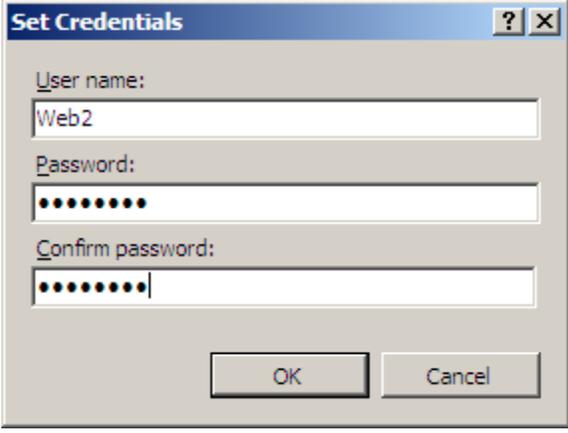
Set Credentials

User name:
```
Web2
```

Password:
```
••••••••
```

Confirm password:
```
••••••••
```

[OK] [Cancel]

13) Enter a different port number on the "Add Web Site" applet if you wish, then click [OK]

> THE NEW WEB SITE SHOULD BE RUNNING. LET'S IMPORT AN APPLICATION FOR IT TO HOST.

14) Copy the .NET package into the default web site's root.

15) In the IIS manager select the web site in the left pane and on the right pane, near the bottom of the panel, click on "Import Application". The following window displays:
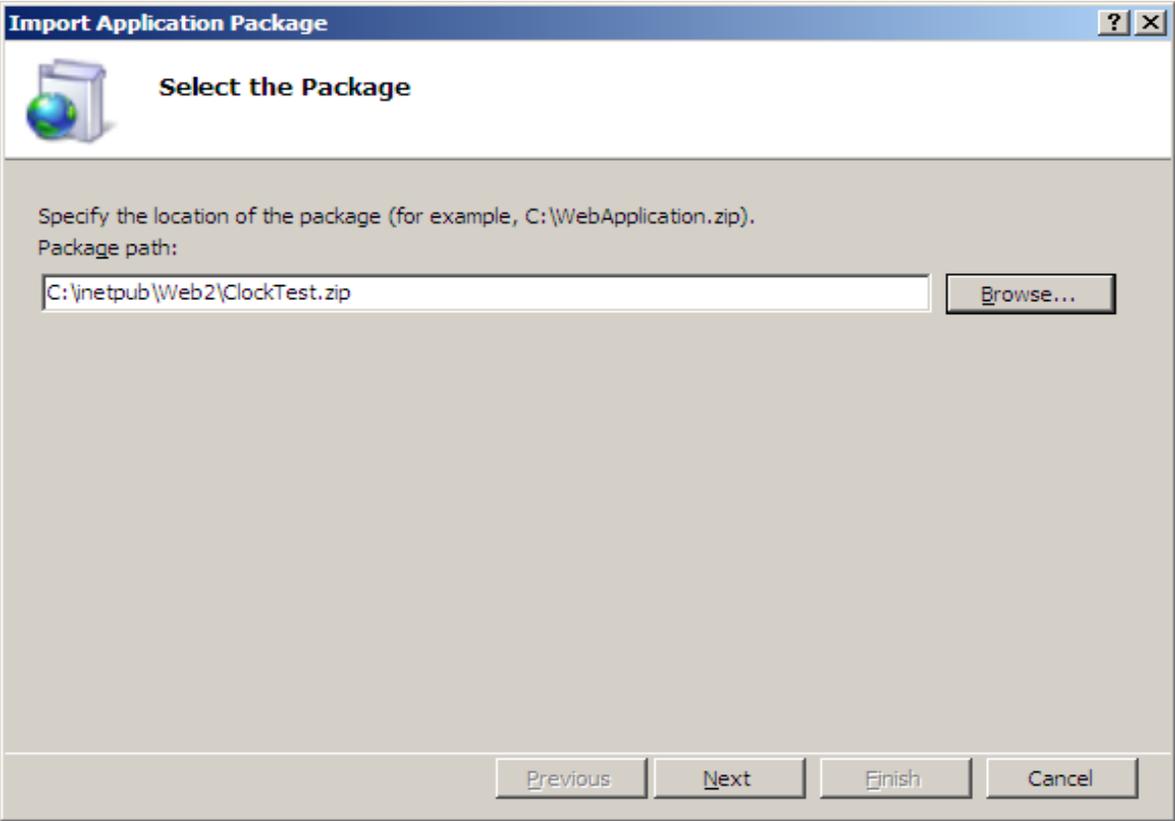
Import Application Package

Select the Package

Specify the location of the package (for example, C:\WebApplication.zip).
Package path:
```
C:\inetpub\Web2\ClockTest.zip
```
[Browse...]

[Previous] [Next] [Finish] [Cancel]

16) Browse to your application code directory, select your zip deployment file, then click [Next]

17) When you see the window below, just click [Next]
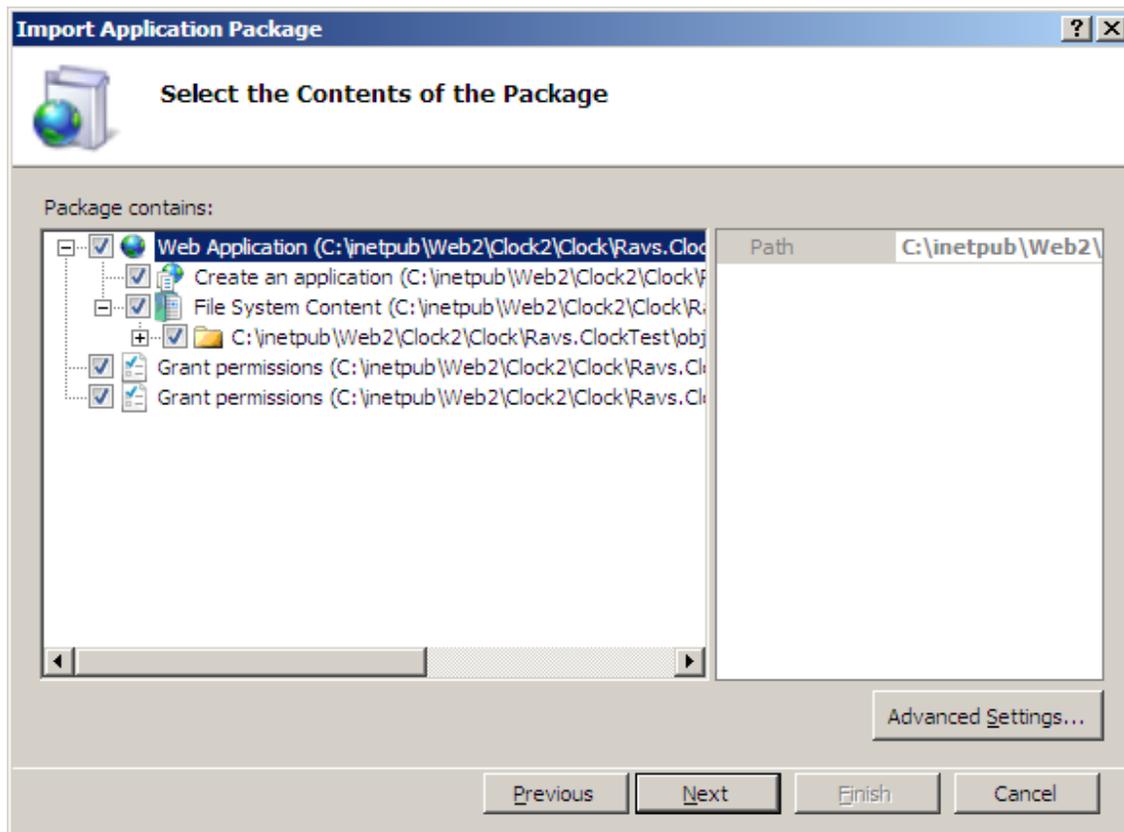
18) Enter the web path that should be used to access this application. Click Next.
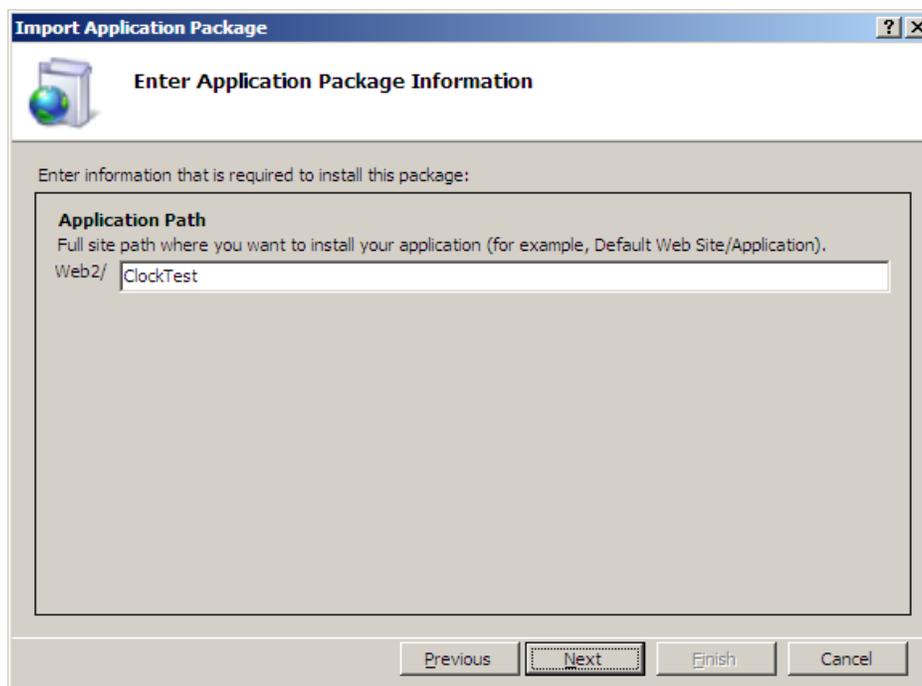
19) The Application will now be imported. If this succeeds, you will see the success screen as below. Click [Einish]
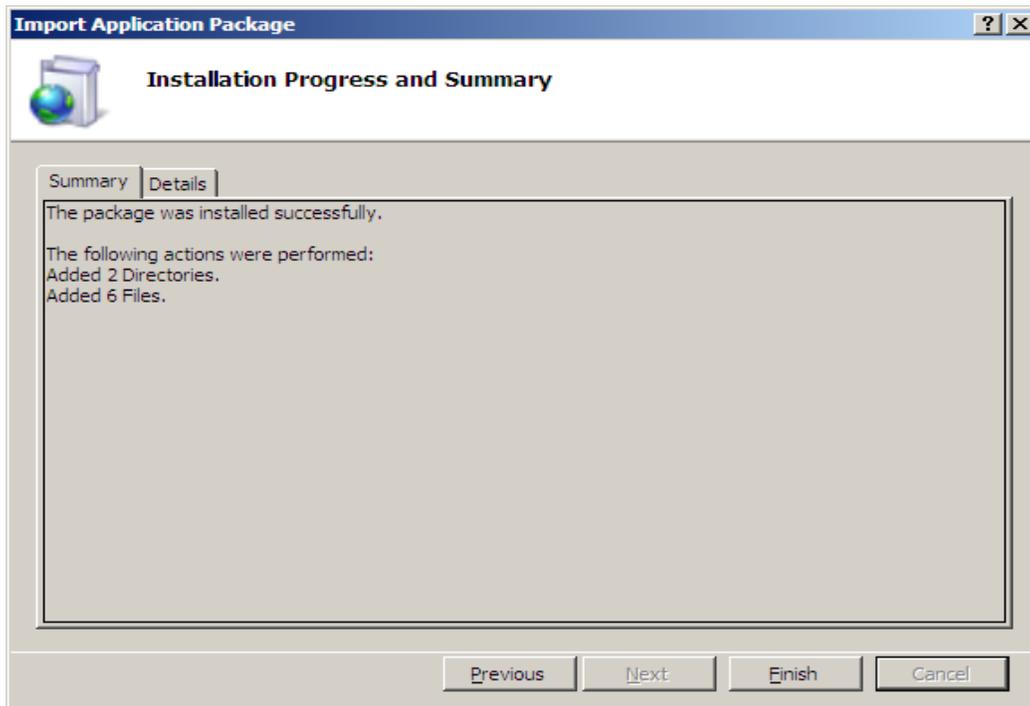
20) Back in the main view of IIS Manager expand the new web site until you see the listing of the new application. In this case it is *Sites/Web2/ClockTest*.
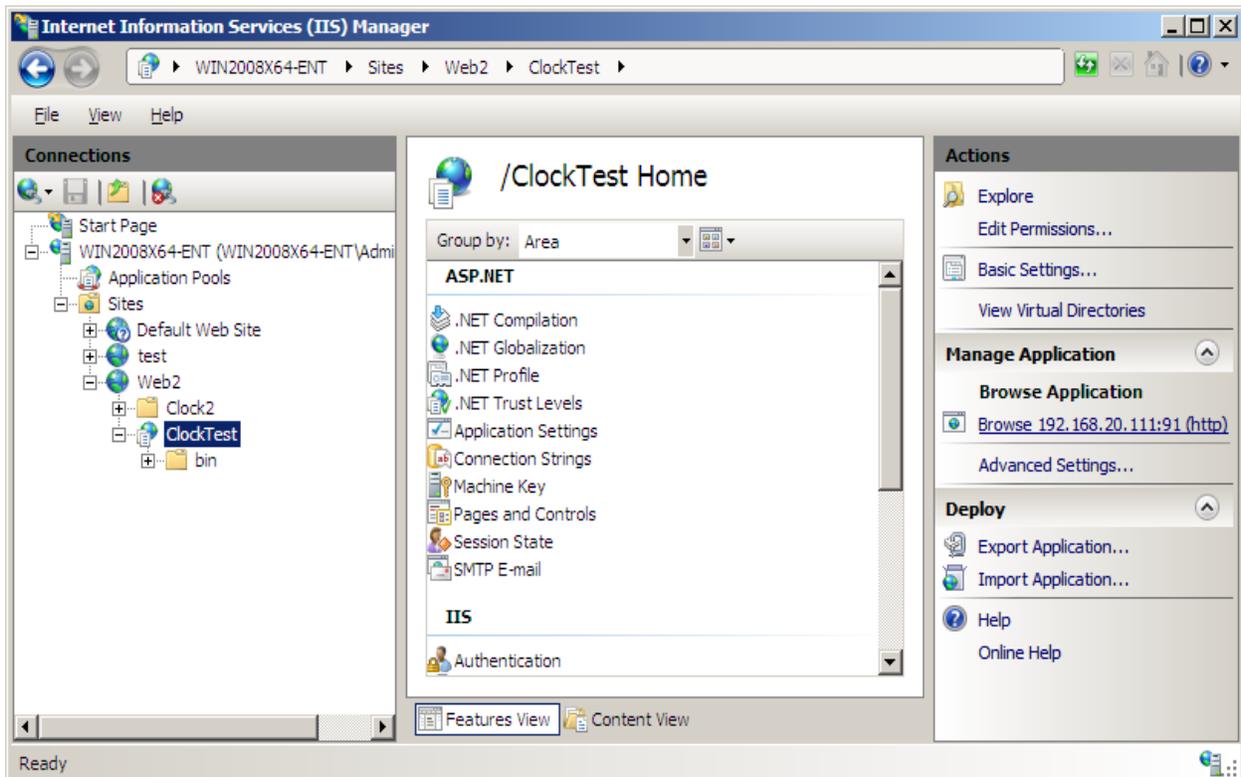
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1) In the right Actions pane go to the Manage Application section then click on the http link under the Browse Application section. This will load the application in your Web Browser.
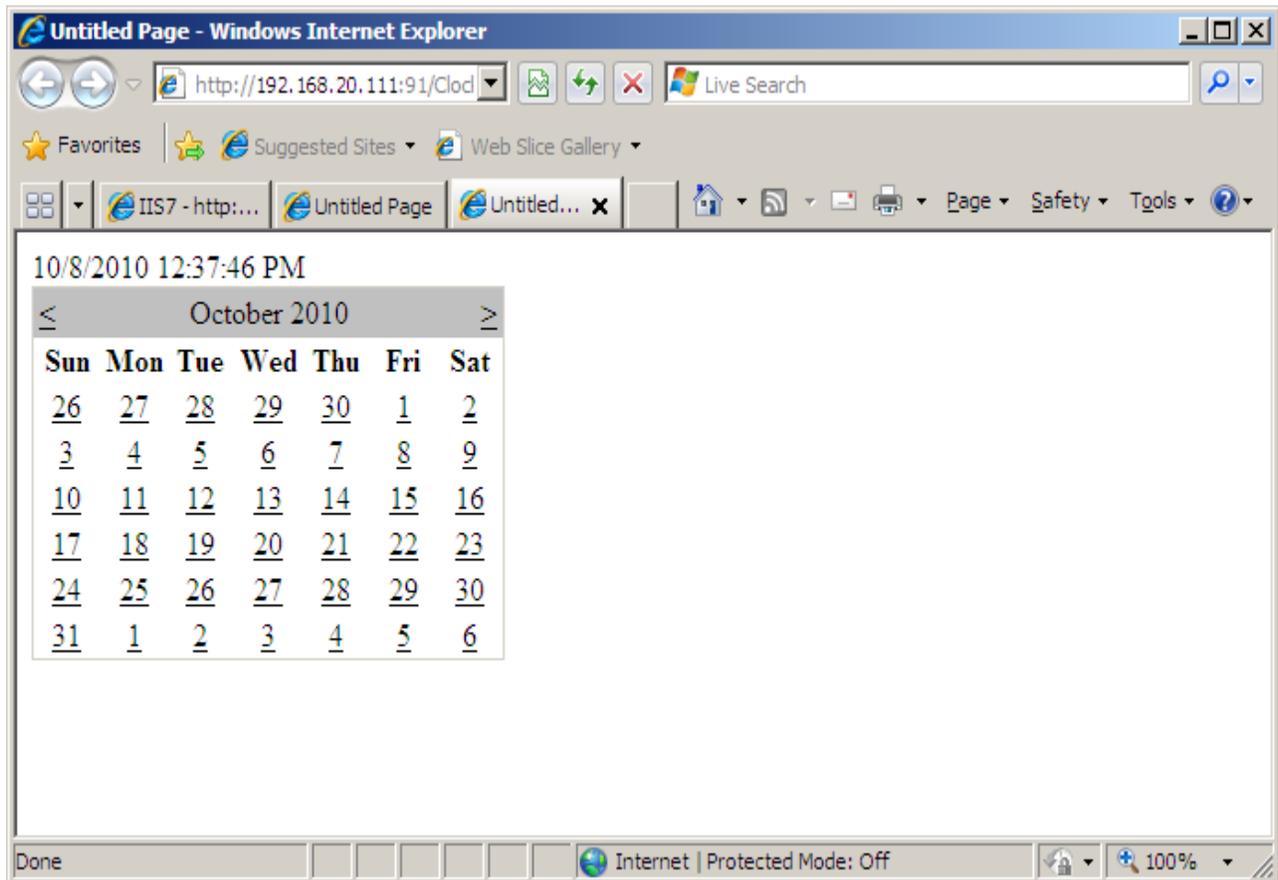
22) Start a command line, (click the [Start] button, then select "run", enter CMD, then select [OK]

23) Start the Time Machine service by entering "net start 3stms".

24) Assign a virtual date to the "Web2" account. *In this example we will set the date to February 28, 2019 at 11:59 pm. The command will be "tmuser -a -u Web2 -x 022823592019".*

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```
Administrator: C:\Windows\system32\cmd.exe                              _ □ ×

C:\Users\Administrator>tmuser -a -u Web2 -x 022823592019

C:\Users\Administrator>
```

25) Verify the virtual date if you wish by running "tmuser -l".
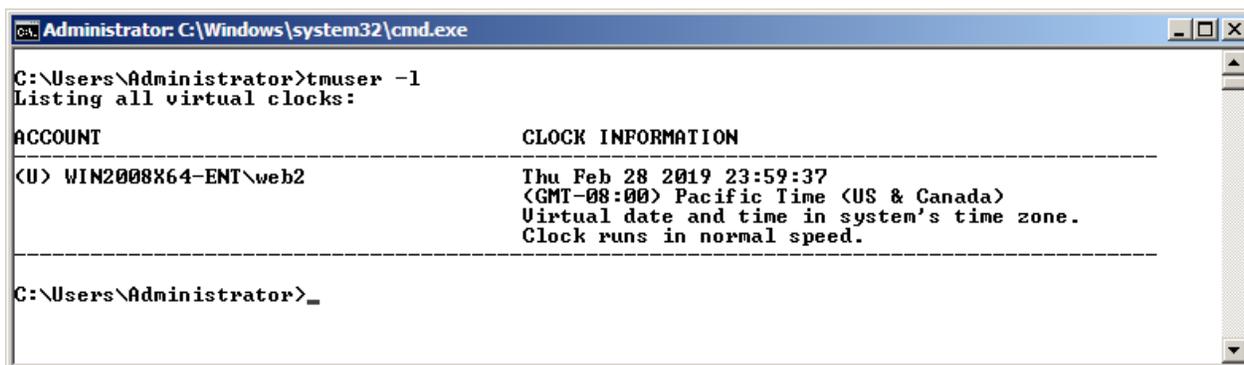
```
Administrator: C:\Windows\system32\cmd.exe                              _ □ ×

C:\Users\Administrator>tmuser -l
Listing all virtual clocks:

ACCOUNT                                CLOCK INFORMATION
--------------------------------------------------------------------------
(U) WIN2008X64-ENT\web2                Thu Feb 28 2019 23:59:37
                                       (GMT-08:00) Pacific Time (US & Canada)
                                       Virtual date and time in system's time zone.
                                       Clock runs in normal speed.
--------------------------------------------------------------------------

C:\Users\Administrator>_
```

26) Now go back to the recently added .NET application in your web browser. You should see the code is now running under the virtual date.

```
Untitled Page - Windows Internet Explorer                              _ □ ×

       http://192.168.20.111:91/Clocl

Favorites    Suggested Sites     Web Slice Gallery

   IIS7 - http:...    Untitled Page    Untitled... ×        Page   Safety   Tools

3/1/2019 12:01:29 AM
  ≤          March 2019           ≥
 Sun  Mon  Tue  Wed  Thu  Fri  Sat
  24   25   26   27   28   1    2
  3    4    5    6    7    8    9
  10   11   12   13   14   15   16
  17   18   19   20   21   22   23
  24   25   26   27   28   29   30
  31   1    2    3    4    5    6

                          Internet | Protected Mode: Off            100%
```
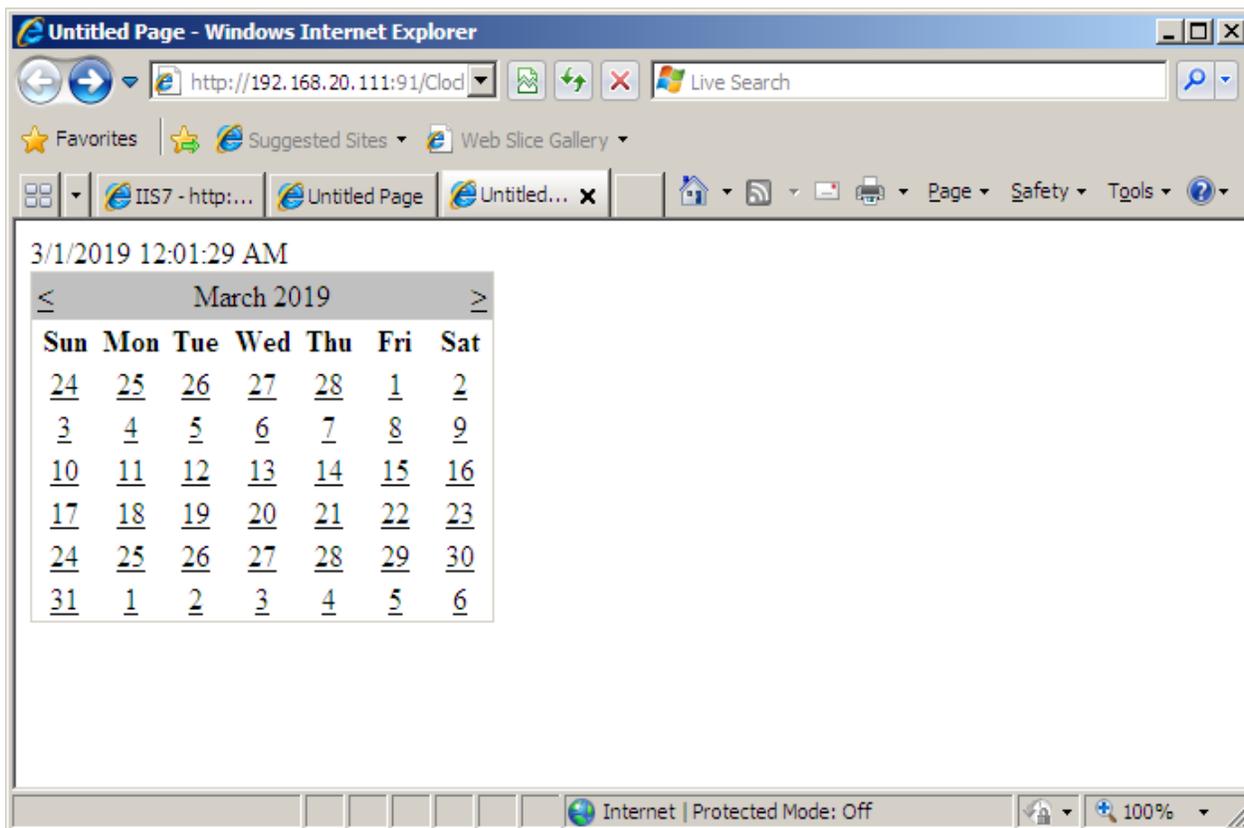
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27) The following is a screen shot of a version of the same application running in system time concurrently.
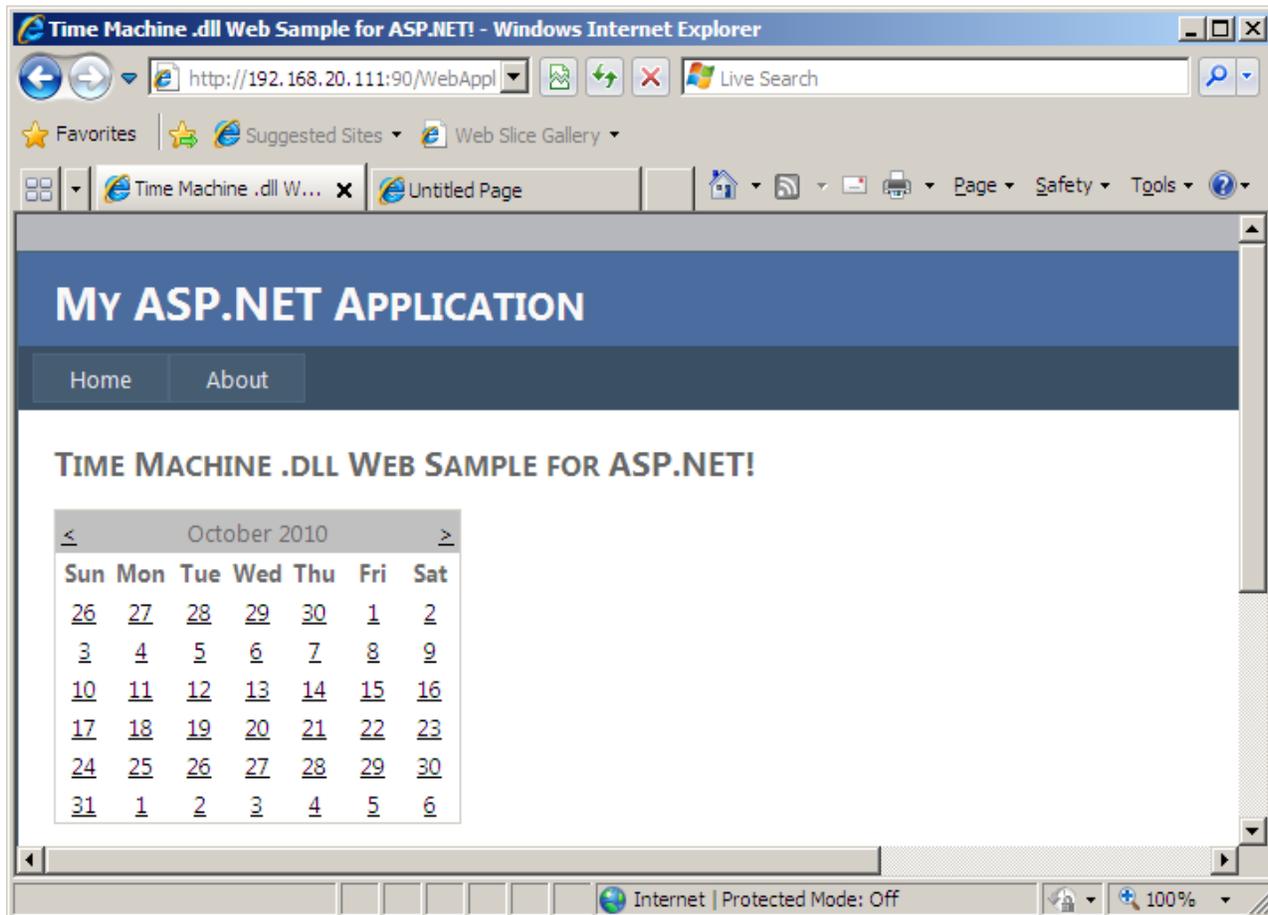
Following the procedures in this guide you can easily set each of your IIS hosted .NET web sites on the same machine to run under any time and or date you desire independently.

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