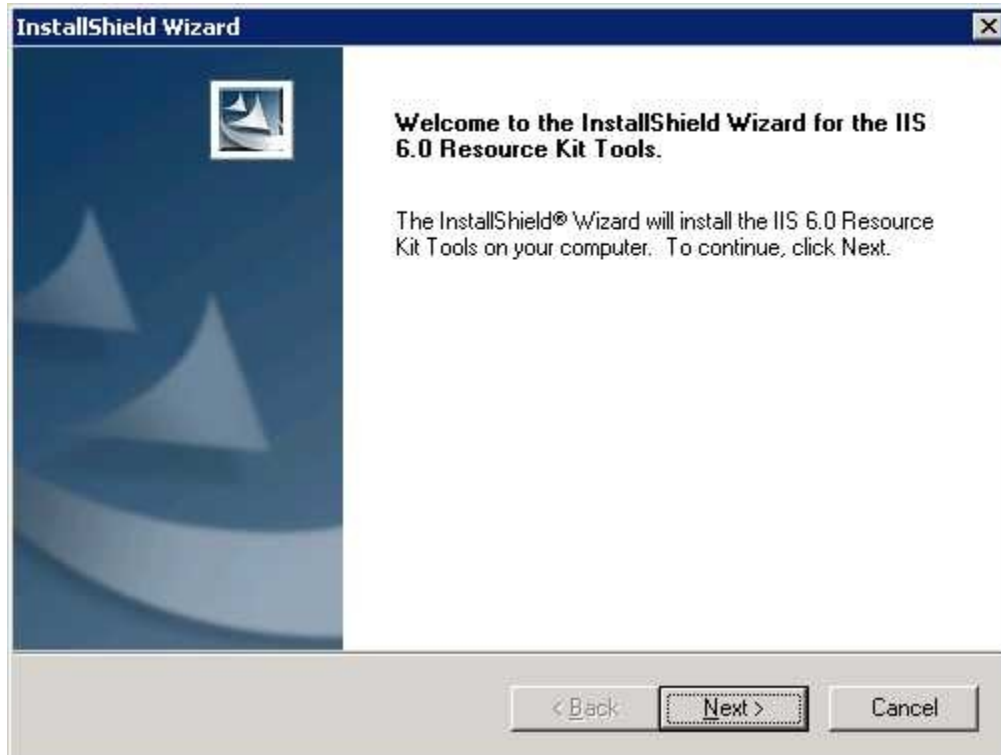


## Creating Self Signed SSL Certificates on IIS 6.0 and Windows Server 2003

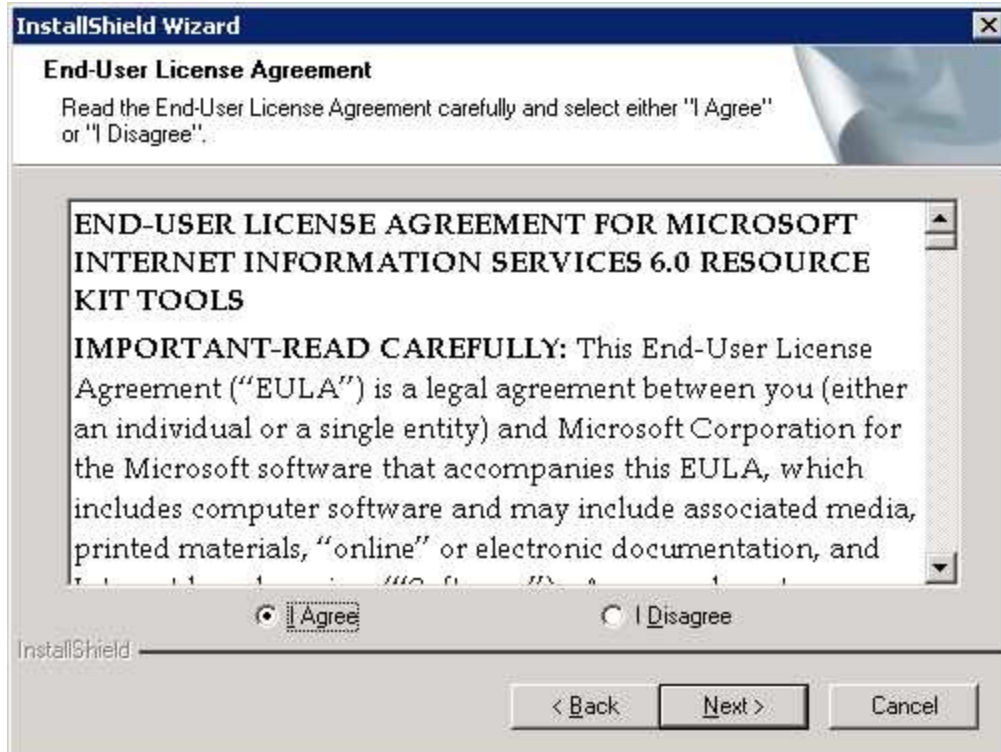
If you need to deploy and test your code in SSL environment on IIS 6.0 and Windows Server 2003, but you do not have a valid SSL certificate on your development / test server issued by a trusted third party Certificate Authority (since it costs money), you can easily do so by creating a self signed test certificate using a tool called SelfSSL which comes with IIS 6.0 Resource Kit Tools. SelfSSL is a console line application which is free to use :-). You can download IIS 6.0 Resource Kit Tools from [here](#).

After downloading and executing this kit, make sure you either choose Complete installation option or if you choose Custom installation option, make sure you have selected the SelfSSL feature. See below step by step screen shots for the Custom installation option.

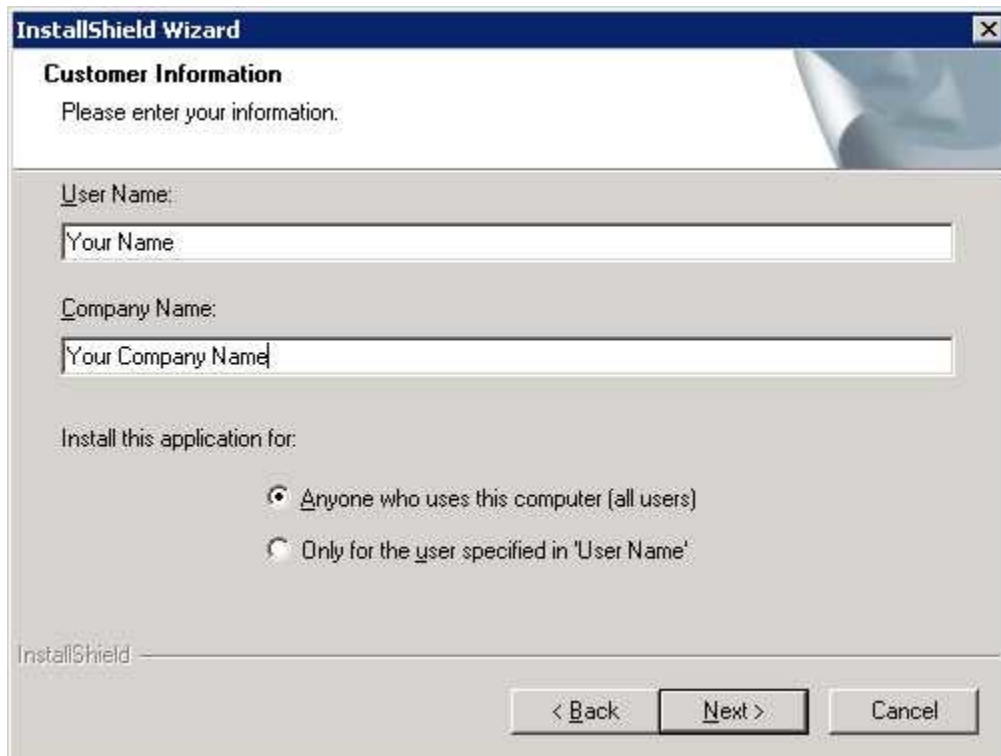
Step 1: Click Next.



Step 2: Choose I Agree and click Next.



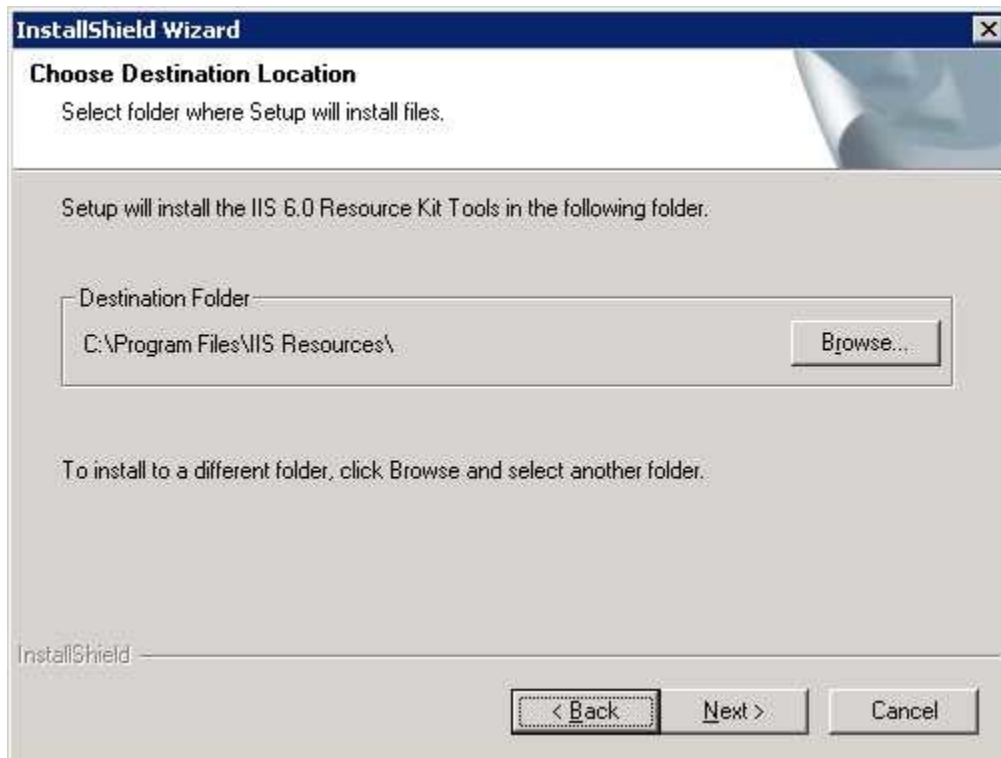
Step 3: Enter appropriate details and click Next.



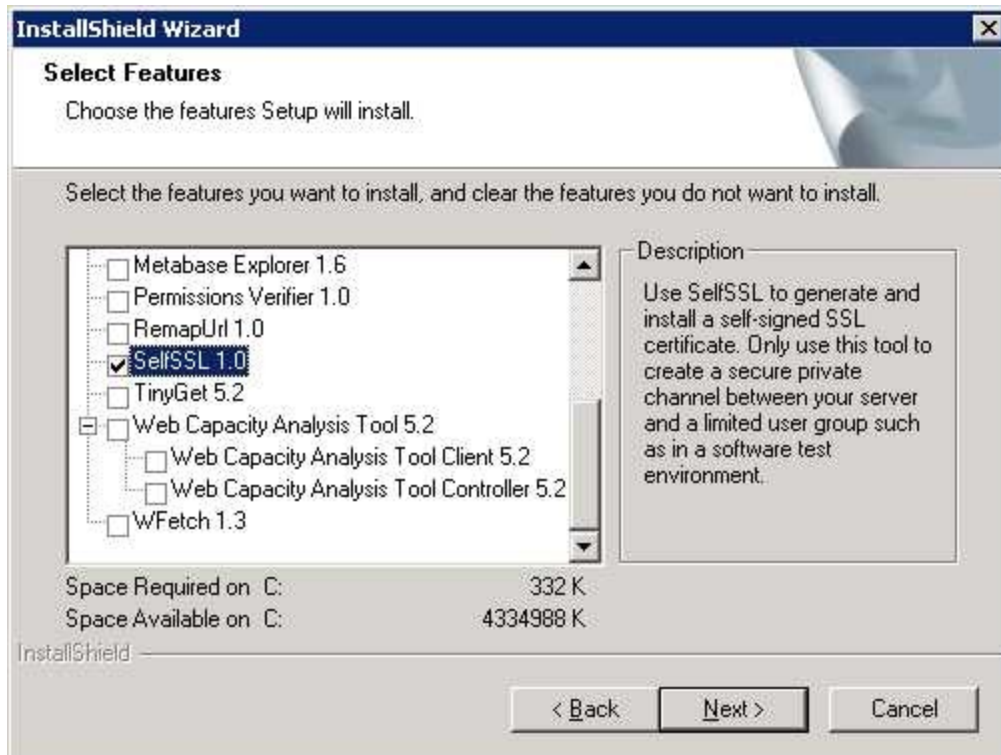
Step 4: Choose Custom installation option if you just want to install SelfSSL else choose Complete installation option to install all features and click Next.



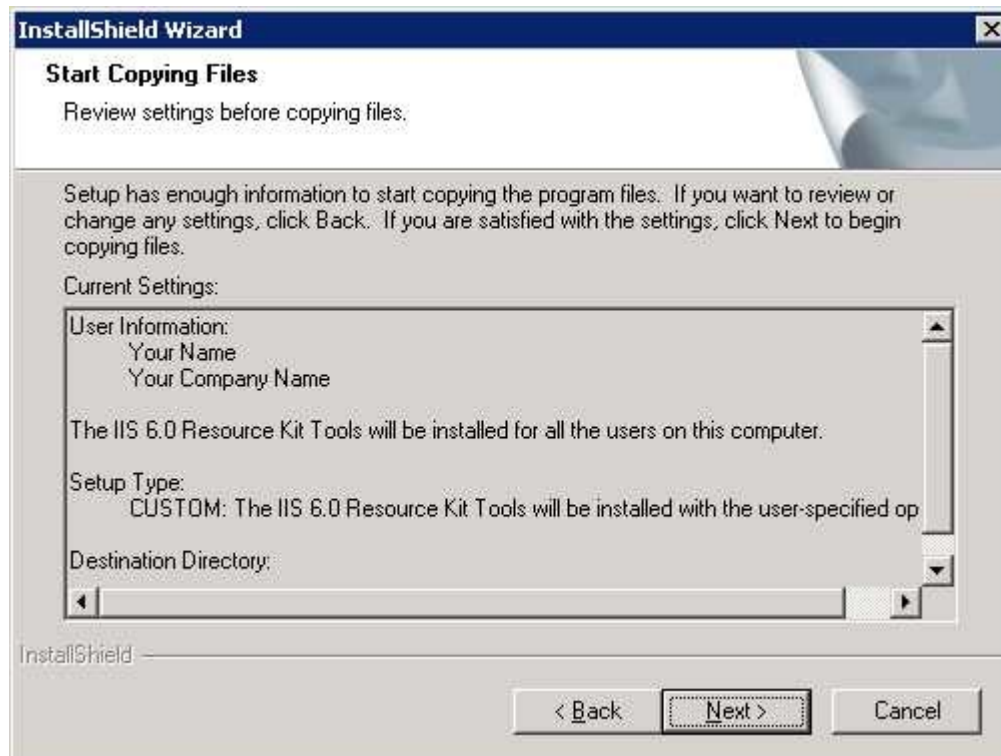
Step 5: Enter the installation location and click Next.



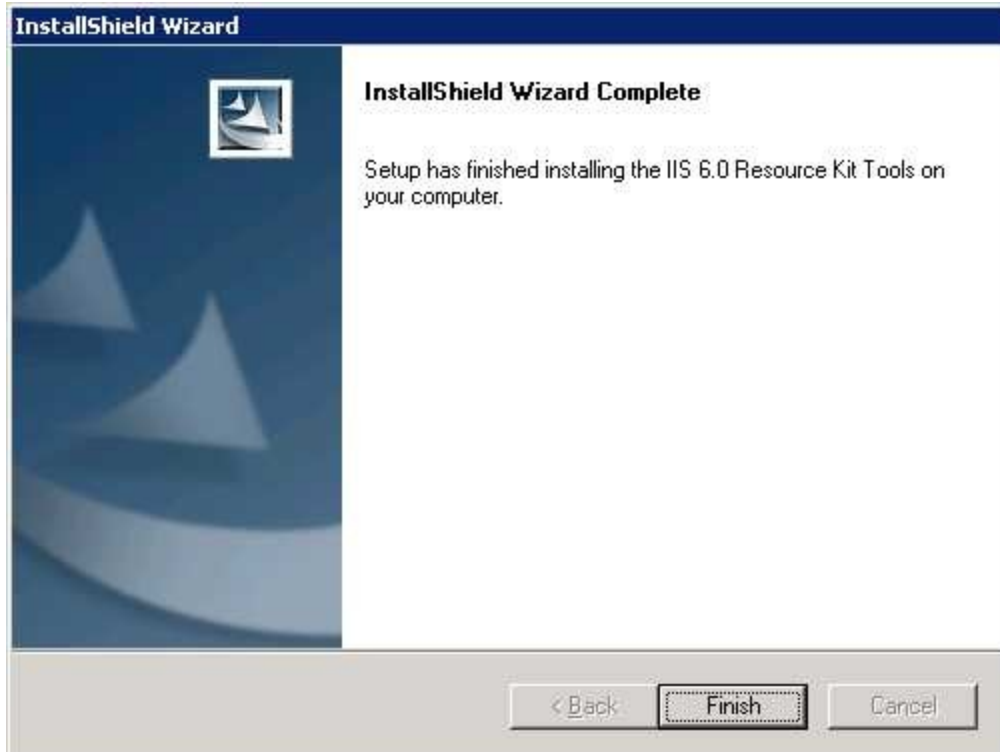
Step 6: Select SelfSSL and click Next.



Step 7: Review settings and click Next.



Step 8: Click Finish.



Once you have successfully installed, click on Start > All Programs > IIS Resources > SelfSSL > SelfSSL to run the SelfSSL utility. On doing so, you should see the command prompt along with help instructions (see below screen shot).

```
SelfSSL
Microsoft (R) SelfSSL Version 1.0
Copyright (C) 2003 Microsoft Corporation. All rights reserved.

Installs self-signed SSL certificate into IIS.
SELFSSL [/T] [/N:cn] [/K:key size] [/S:site id] [/P:port]

/T          Adds the self-signed certificate to "Trusted Certificates"
            list. The local browser will trust the self-signed certificate
            if this flag is specified.
/N:cn       Specifies the common name of the certificate. The computer
            name is used if not specified.
/K:key size Specifies the key length. Default is 1024.
/U:validity days Specifies the validity of the certificate. Default is 7 days.
/S:site id  Specifies the id of the site. Default is 1 (Default Site).
/P:port     Specifies the SSL port. Default is 443.
/Q         Quiet mode. You will not be prompted when SSL settings are
            overwritten.

The default behaviour is equivalent with:

selfssl.exe /N:CN=IMANOMUMBAI2 /K:1024 /U:7 /S:1 /P:443

C:\Program Files\IIS Resources\SelfSSL>
```

If you simply type selfssl.exe and press enter, it would use the default settings to install the SSL certificate which are equivalent to:

- /N:CN=<YOUR COMPUTER NAME> (common name of the certificate)
- /K:1024 (key length of the certificate)
- /U:7 (validity of the certificate in days)



/S:1 (ID of the site to which the certificate needs to be installed)

/P:443 (SSL port)

Type selfssl.exe and press enter, then type y and press enter again to confirm the installation (see screen shot below).



```
SelfSSL - selfssl.exe
Installs self-signed SSL certificate into IIS.
SELFSSL [/T] [/N:cn] [/K:key size] [/S:site id] [/P:port]

/T          Adds the self-signed certificate to "Trusted Certificates"
           list. The local browser will trust the self-signed certificate
           if this flag is specified.
/N:cn       Specifies the common name of the certificate. The computer
           name is used if not specified.
/K:key size Specifies the key length. Default is 1024.
/U:validity days Specifies the validity of the certificate. Default is 7 days.
/S:site id  Specifies the id of the site. Default is 1 (Default Site).
/P:port     Specifies the SSL port. Default is 443.
/Q         Quiet mode. You will not be prompted when SSL settings are
           overwritten.

The default behaviour is equivalent with:

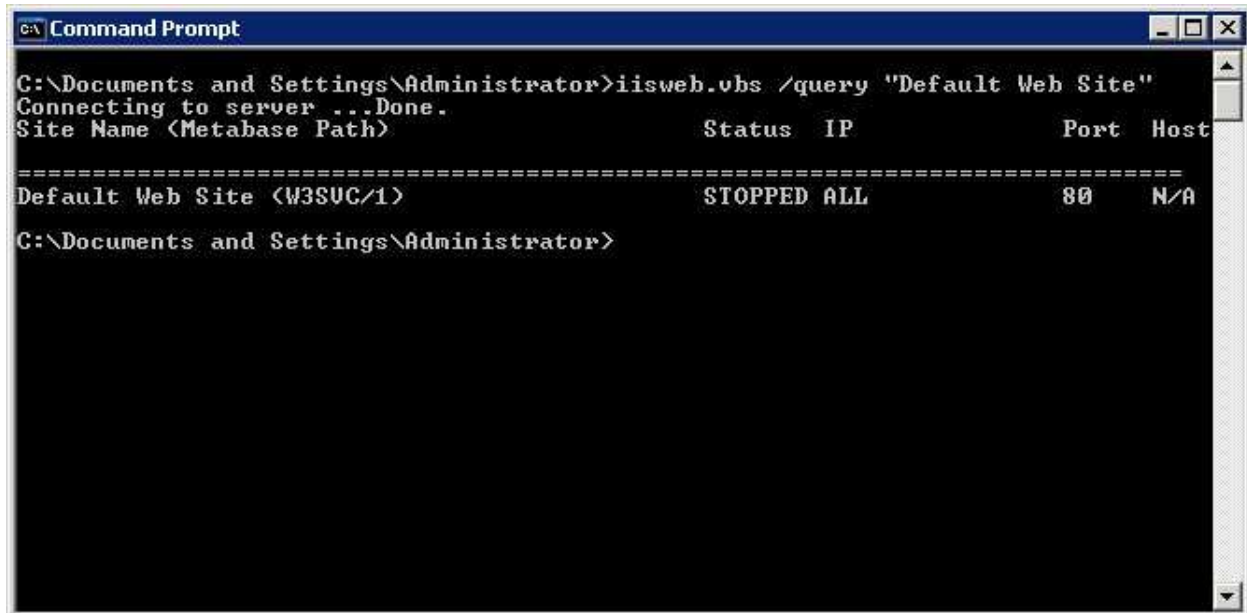
selfssl.exe /N:CN=IMANOMUMBAI2 /K:1024 /U:7 /S:1 /P:443

C:\Program Files\IIS Resources\SelfSSL>selfssl.exe
Microsoft (R) SelfSSL Version 1.0
Copyright (C) 2003 Microsoft Corporation. All rights reserved.

Do you want to replace the SSL settings for site 1 (Y/N)?y
```

The most important option here is the site id parameter and SelfSSL uses the site id 1 by default which maps to "Default Web Site".

To find the site id for any website in IIS 6.0 you can simply execute iisweb.vbs /query "<NAME OF THE WEBSITE>" from command prompt (see below screen shot).



```
Command Prompt
C:\Documents and Settings\Administrator>iisweb.vbs /query "Default Web Site"
Connecting to server ...Done.
Site Name (Metabase Path)      Status  IP          Port  Host
=====
Default Web Site (W3SVC/1)     STOPPED ALL          80    N/A
C:\Documents and Settings\Administrator>
```

In the above screen shot, you can clearly see that I executed iisweb.vbs /query "Default Web Site" to find the site id for "Default Web Site" which is "W3SVC/1", however we are only interested in the text which follows "W3SVC/" which is "1".

Suppose you had another website by the name "RajTest" and you wanted to install a test SSL certificate having common name "RajTestCertificate" valid for 10 days to "RajTest" on port 444, you would first find the site id for "RajTest" by executing the following command at command prompt: **iisweb.vbs /query "RajTest"**. Once you know

the site id for "RajTest" (lets assume it was "1234567") you would execute the following command at the SelfSSL command prompt: **selfssl.exe /N:CN=RajTestCertificate /V:10 / S:1234567 /P:444**