



nFront Web Password Change

Version 3.4.0
Documentation

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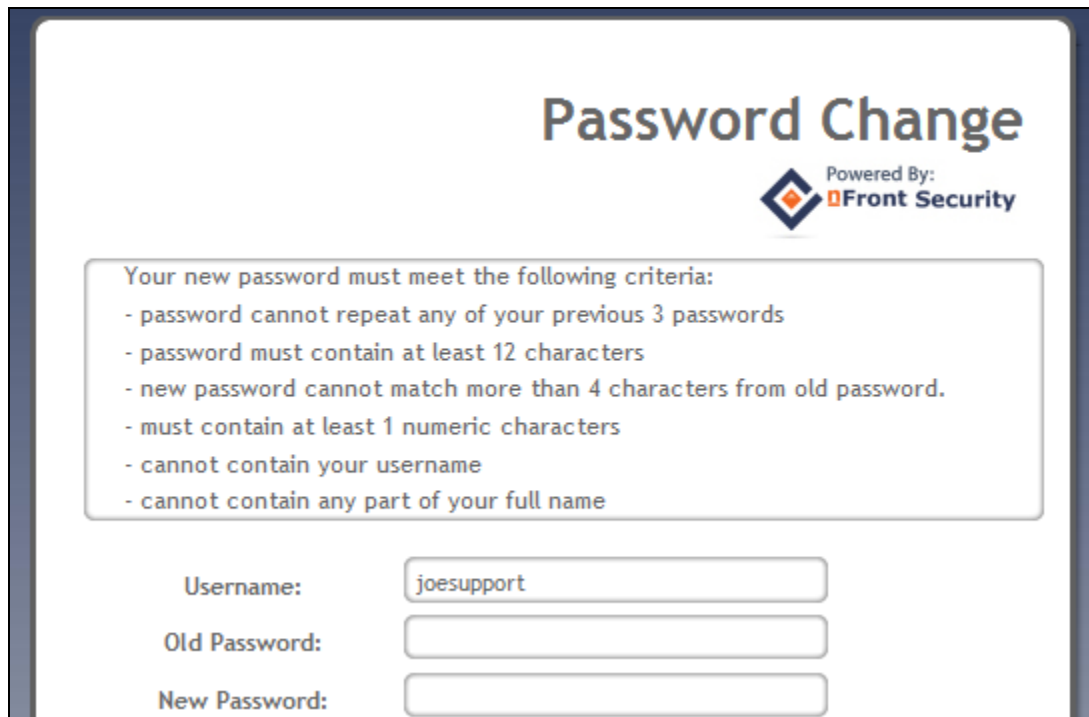


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NOTE: Please report any problems with this document to feedback@nFrontSecurity.com. Your feedback is important and we sincerely appreciate your help.

1.0 Overview

The nFront Web Password Change is a password change web application for Active Directory users which is “nFront Password Filter aware.” It will dynamically display the list of password requirements for the user and a very detailed failure message of the password is not accepted.



The screenshot shows a web application titled "Password Change" with the nFront Security logo. Below the title, a box lists password requirements: "Your new password must meet the following criteria: - password cannot repeat any of your previous 3 passwords - password must contain at least 12 characters - new password cannot match more than 4 characters from old password. - must contain at least 1 numeric characters - cannot contain your username - cannot contain any part of your full name". At the bottom, there are three input fields: "Username:" with the value "joesupport", "Old Password:", and "New Password:".

1.1 Requirements:

- Windows Server 2008, 2012, 2016 (R2 versions supported). The server may be a member server or a domain controller.
- Internet Information Server
- .NET Framework 3.5 or later installed
- nFront Password Filter installed on all domain controllers

1.2 What's New

What is new in Version 3.4?

- Installer has been updated to better work with all platforms (Windows 2008, 2012, 2016)
- Installer eliminates most post configuration steps required in prior versions.

What is new in Version 3.2?

- Supports modifying the language for the rules and failure message.

What is new in Version 3.1?

- Modified code to show error codes (if an error occurs) without the need to turn on debugging

- Added error messages for error 1351 (if anonymous authentication is on and windows authentication is not enabled) and error 2221 (process running under credentials of trusted user outside of this domain).

What is new in Version 3.0?

- CSS modifications to look better in Internet Explorer 9.
- x86 and x64 versions for Windows 2003, Windows 2008
- Additional error cases for accounts that are disabled or password is less than the minimum age.

What is new in Version 2.0?

- It can block a password change to a similar password. This rule was added to nFront Password Filter 4.16 but requires support from the client and web interface.
- A registry value for “successURL” was added to redirect a successful password change to a different web page.
- You can turn on debugging to see error codes for failed password changes. This is handy when troubleshooting network or firewall configuration issues.
- The “Test Password” button is now optional and requires a registry modification to display the button.
- Requirements window automatically sizes to list all rules (with no scroll bars).

What is new in Version 1.2?

- A button labeled “Test Password” was added to allow users to test a potential password before changing to it.

2.0 Installation

There are 2 MSI packages (one for x86 machines and one for x64 machines). The package may be installed on a domain controller or a member server.

In version 3.4.0 the software was packaged with a new installer that automates some post-configuration steps needed by prior versions.

Before running the installer, please make sure IIS is installed with the correct features. The remaining sections will cover the installation on Windows 2008 R2, Windows 2012 R2 and Server 2016. Please refer to the instructions for your specific OS.

2.1 Installation on Windows 2008 R2

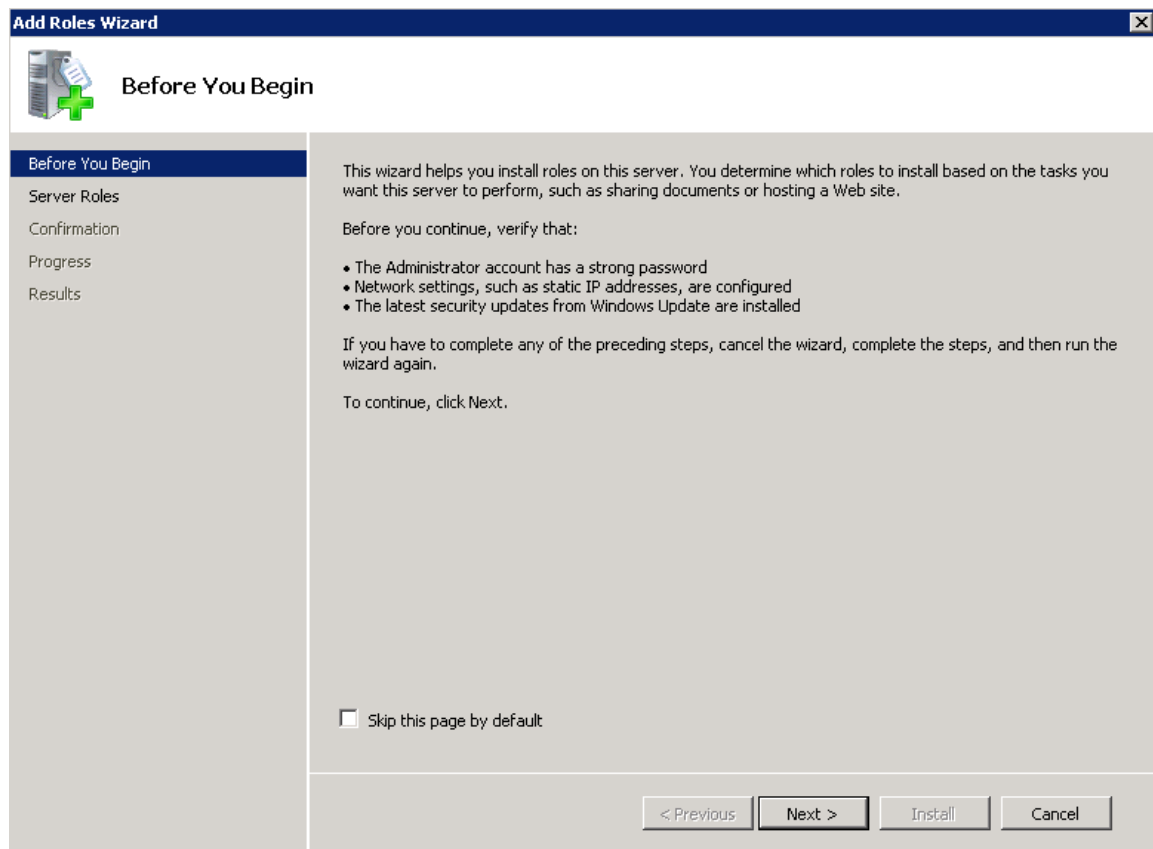


Figure 2.1.1 – Adding Web Server (IIS) Role on Windows 2008 R2

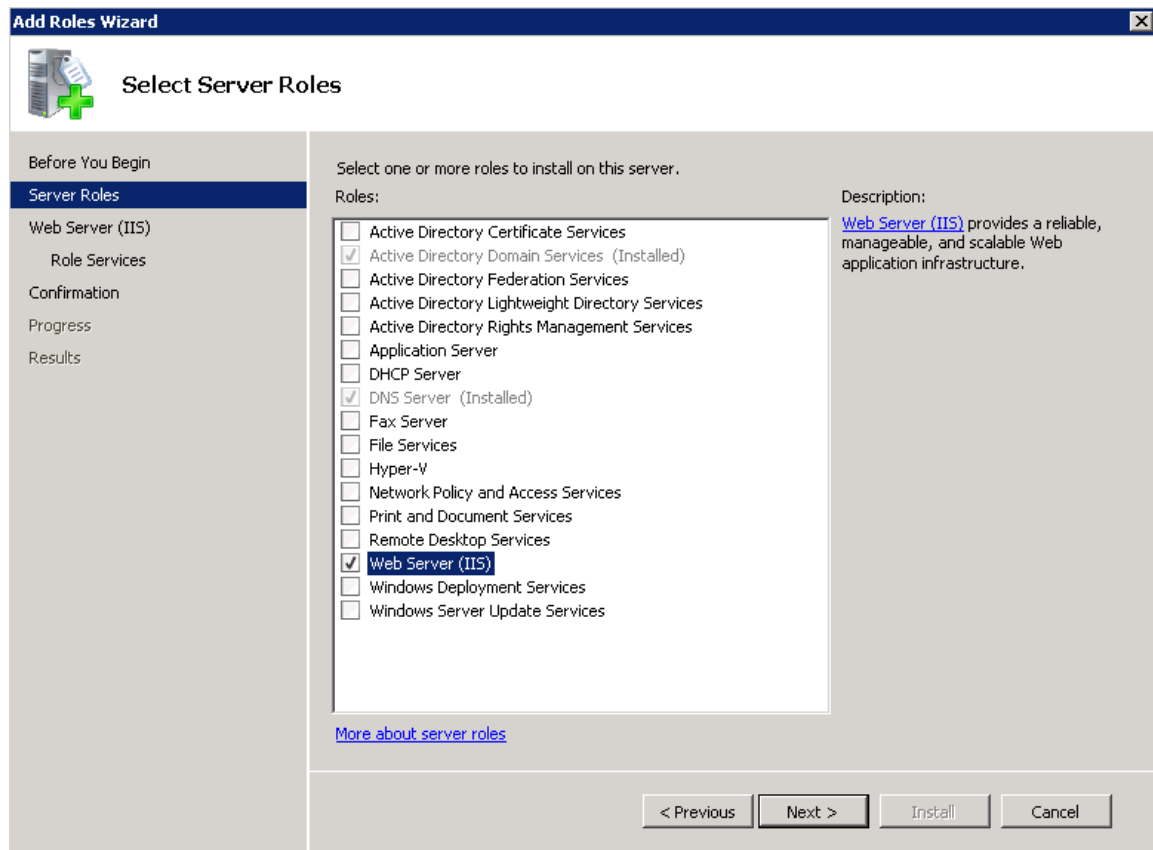


Figure 2.1.2 –Windows 2008 R2 Add Roles Wizard Step 2

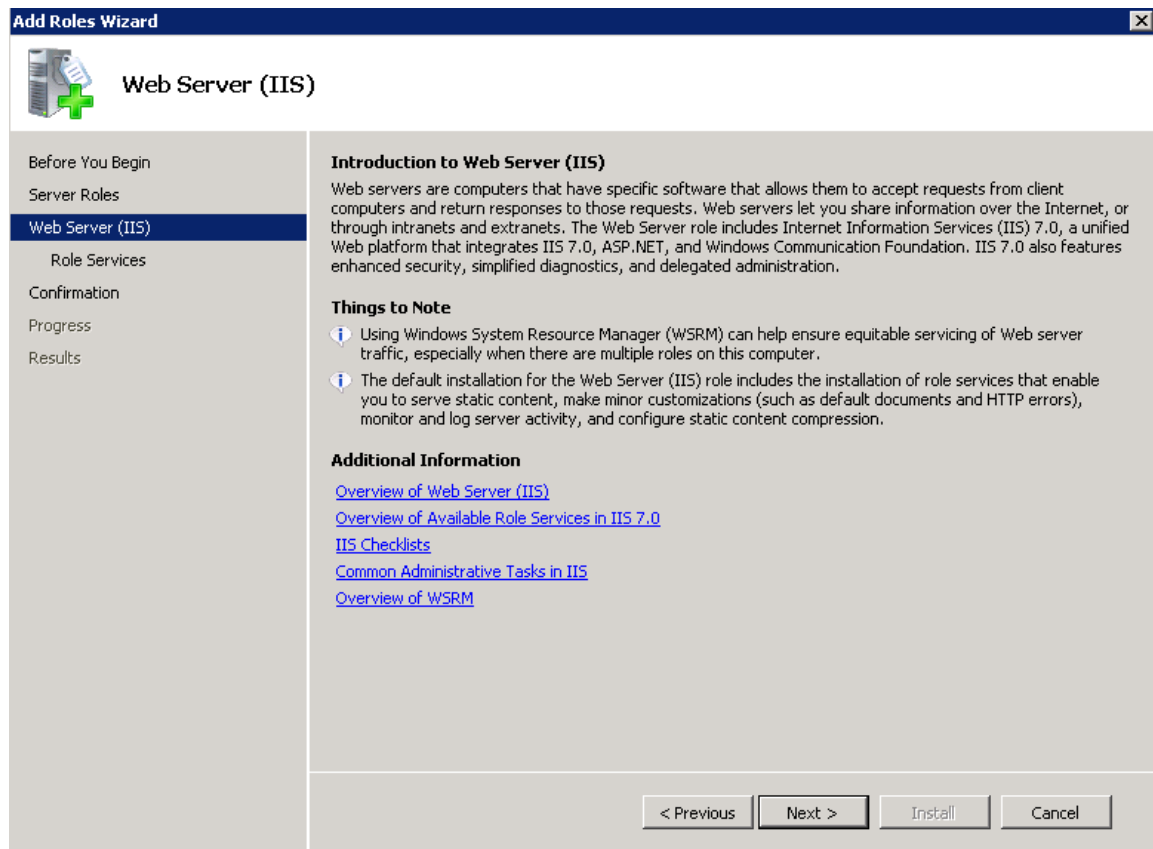


Figure 2.1.3 –Windows 2008 R2 Add Roles Wizard Step 3

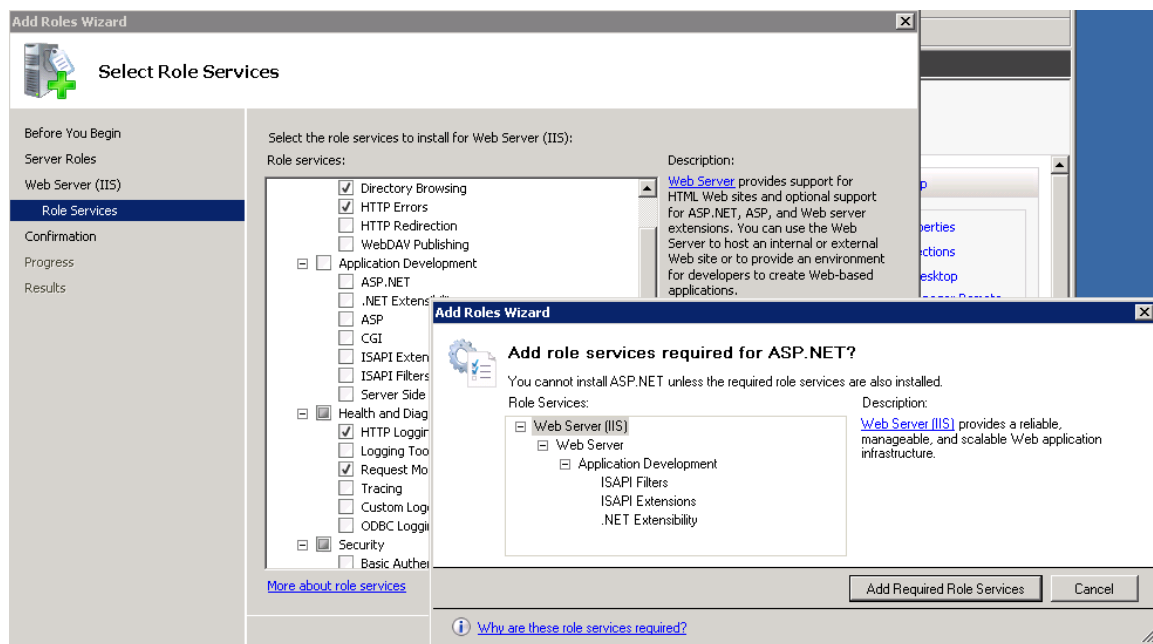


Figure 2.1.4 –Windows 2008 R2 Add Roles Wizard Step 4

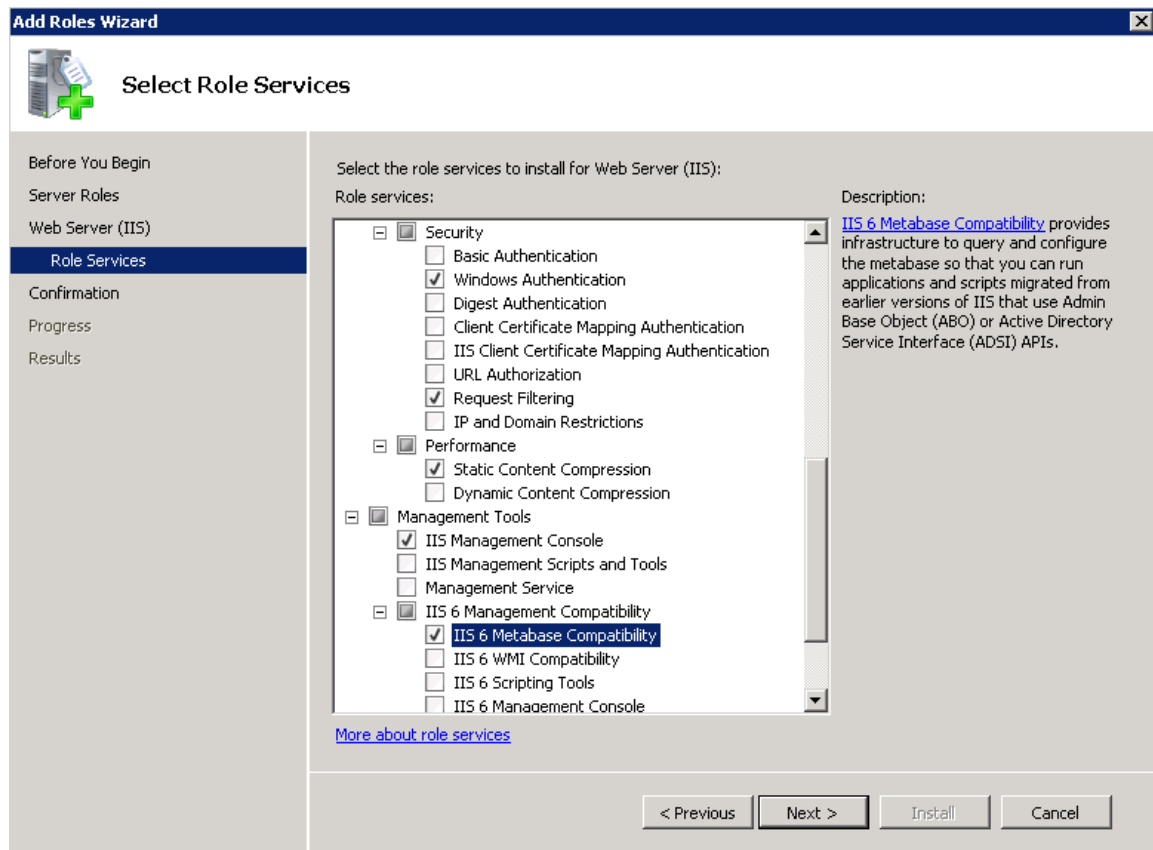


Figure 2.1.5 –Windows 2008 R2 Add Roles Wizard Step 5

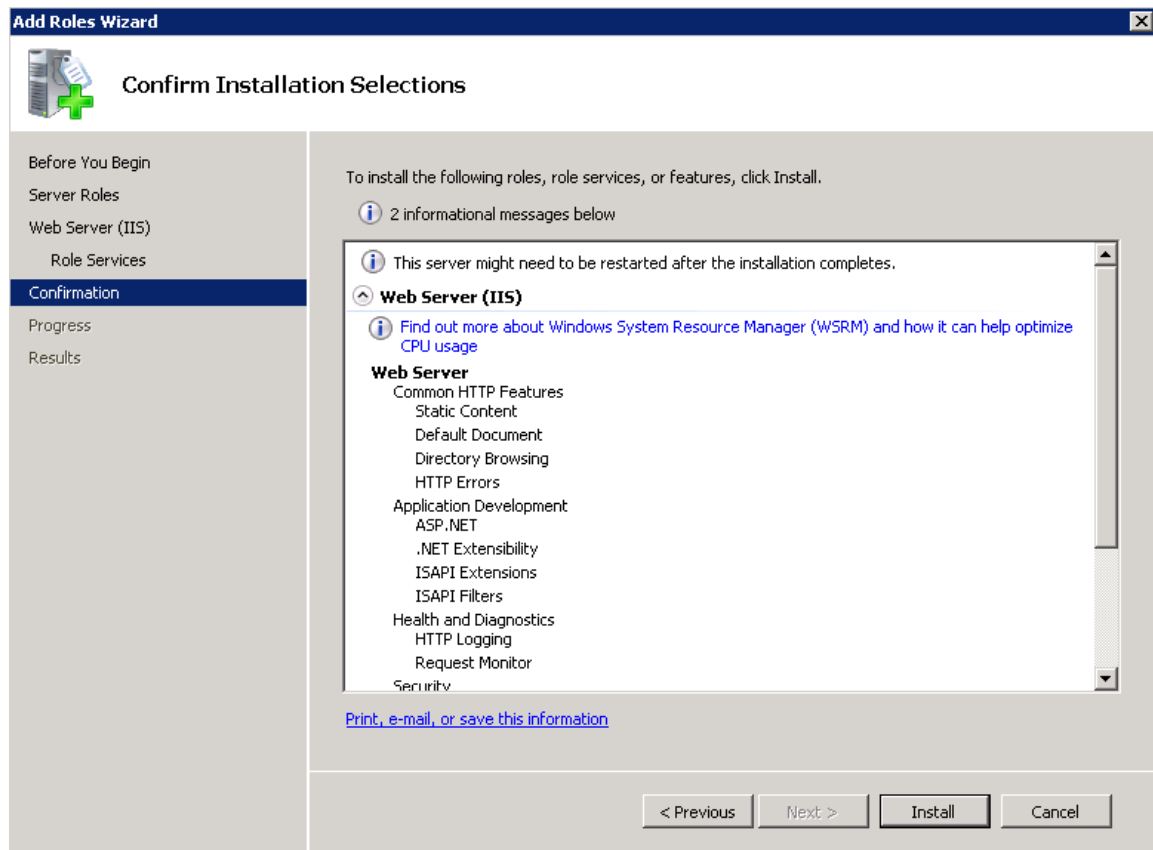


Figure 2.1.6 –Windows 2008 R2 Add Roles Wizard Step 6

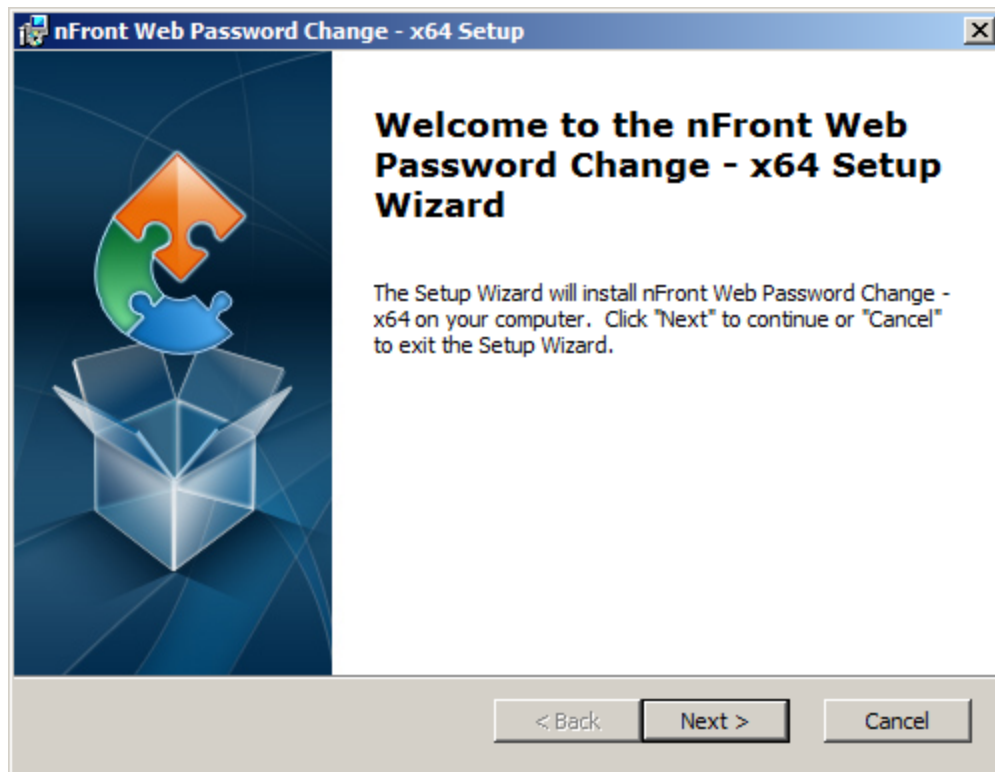


Figure 2.1.7 –NPF-WEB Installer – Step 1

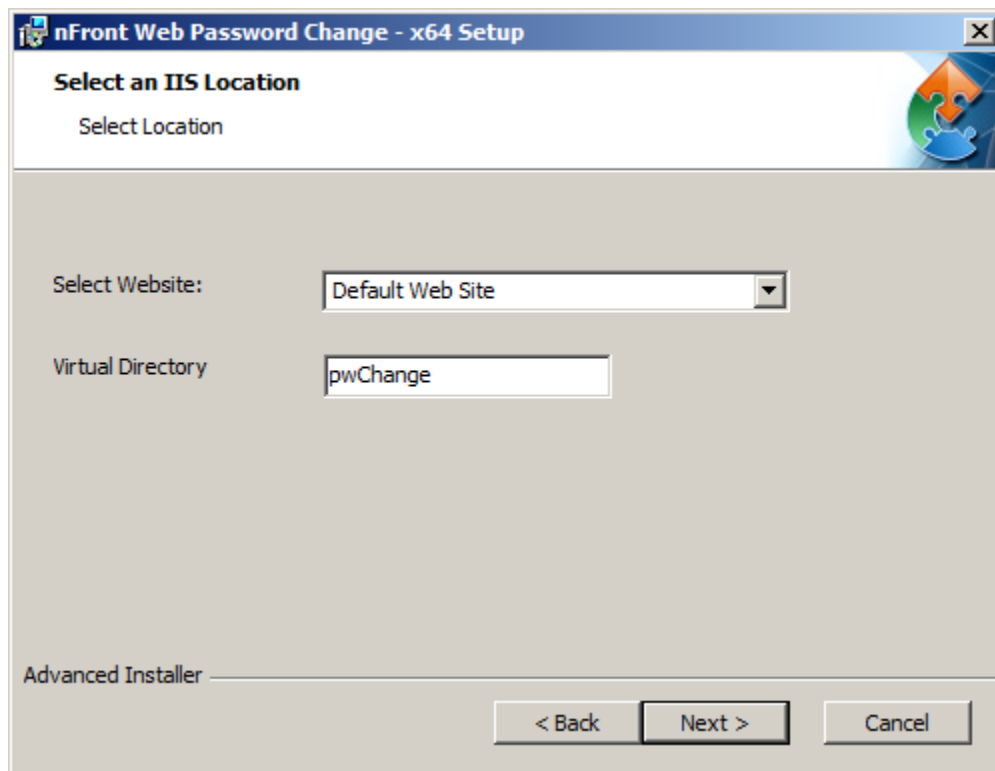


Figure 2.1.8 –NPF-WEB Installer – Step 2

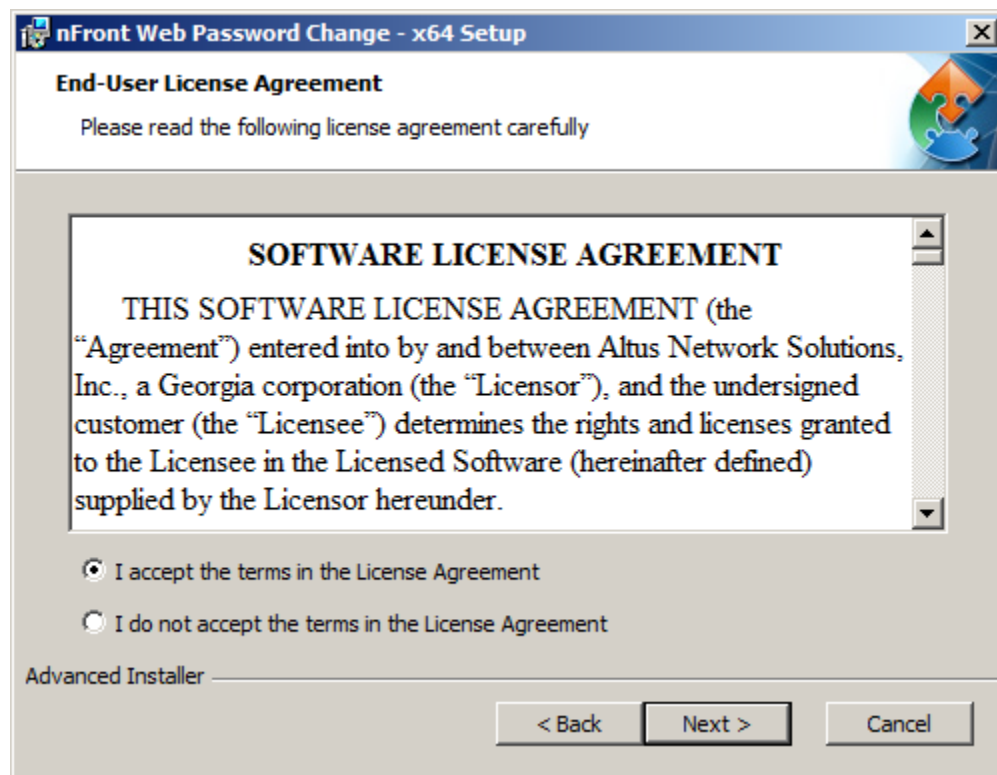


Figure 2.1.9 –NPF-WEB Installer – Step 3

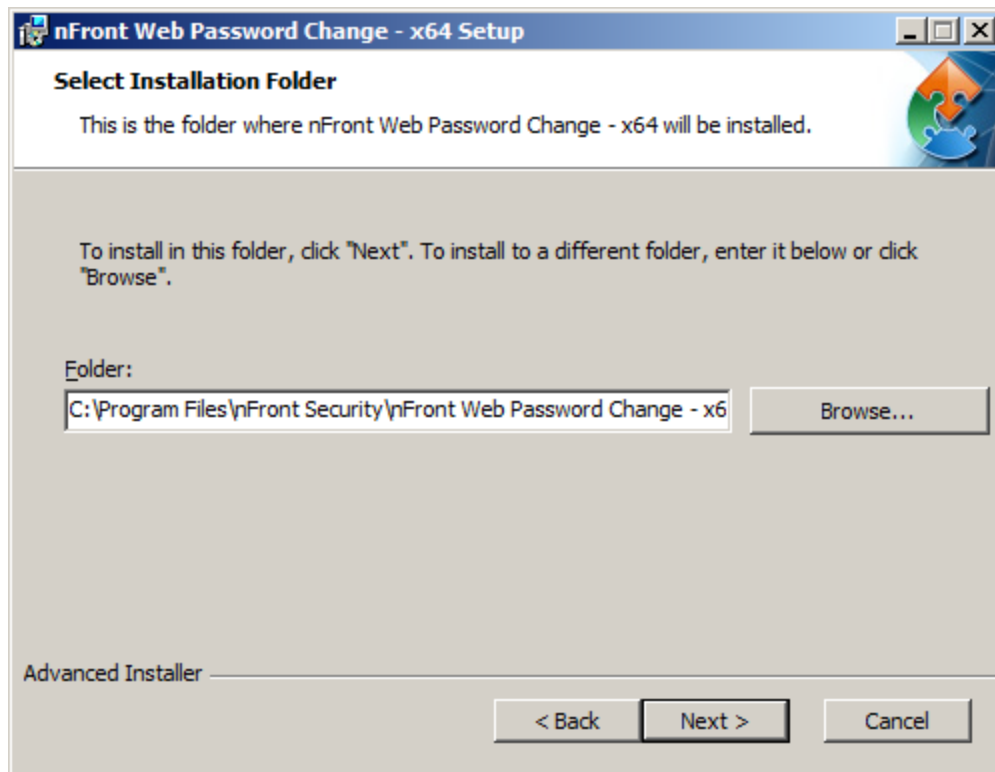


Figure 2.1.10 –NPF-WEB Installer – Step 4

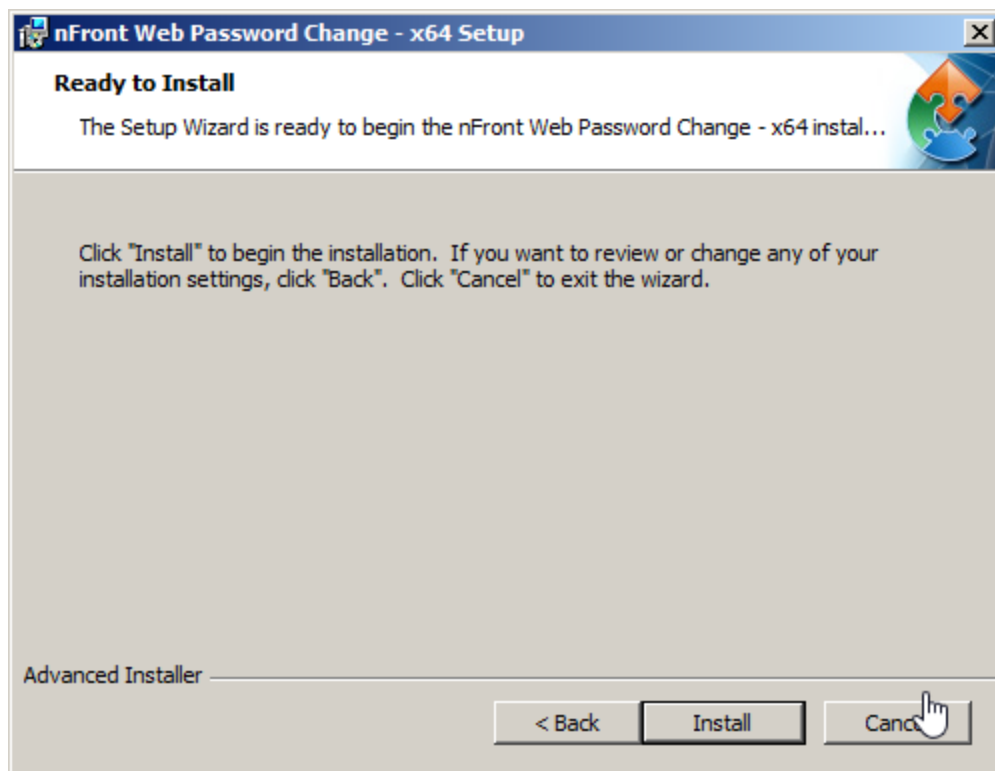


Figure 2.1.11 –NPF-WEB Installer – Step 5

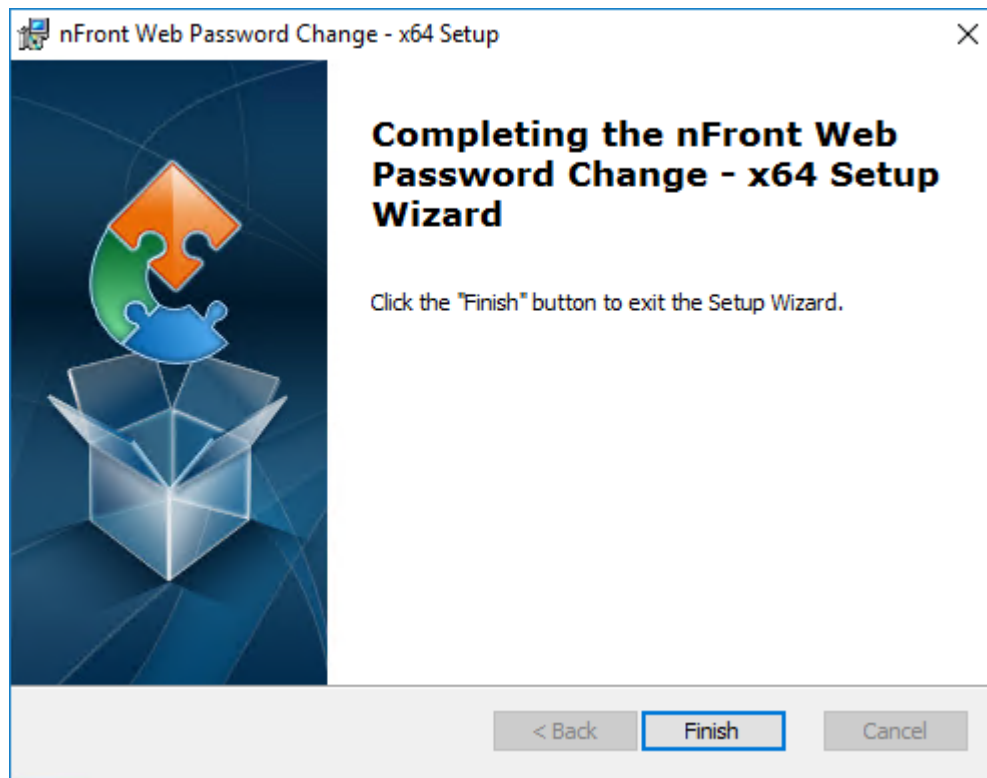


Figure 2.1.12 –NPF-WEB Installer – Step 6

If you test at this point you will get error 404.17. You will need to run a command line utility to install ASP.NET 4.0.

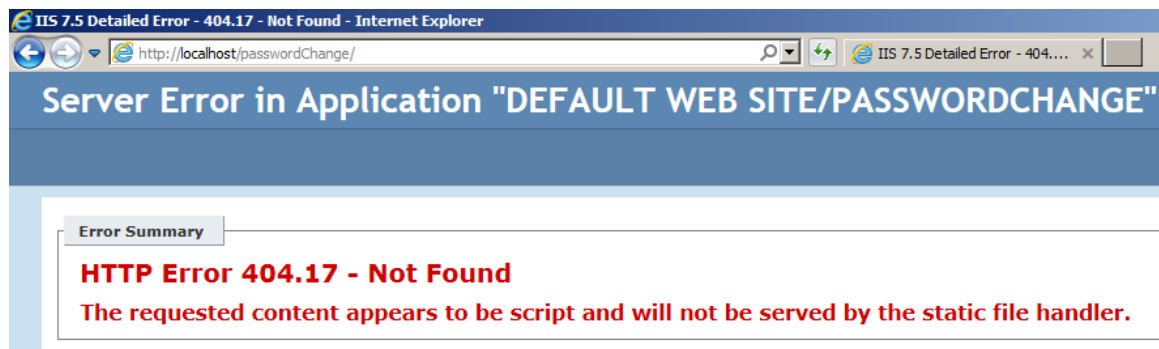
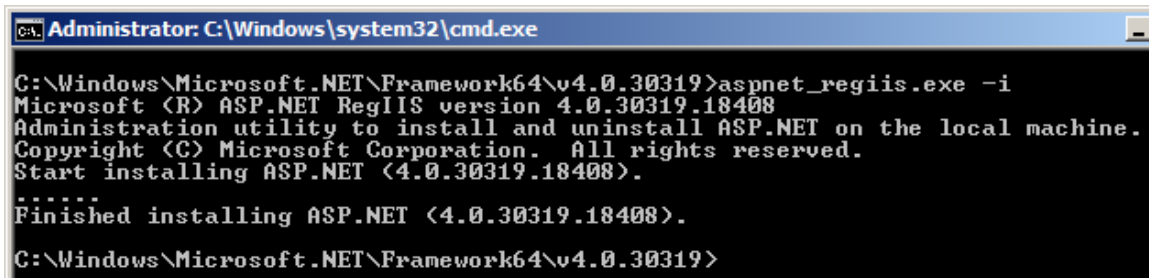


Figure 2.1.13 – Application not working until you register ASP.NET 4

You will need to navigate to C:\Windows\Microsoft.NET\Framework64\v4.0.30319 and type the following command:

```
aspnet_regiis.exe -i
```



```
Administrator: C:\Windows\system32\cmd.exe
C:\Windows\Microsoft.NET\Framework64\v4.0.30319>aspnet_regiis.exe -i
Microsoft (R) ASP.NET RegIIS version 4.0.30319.18408
Administration utility to install and uninstall ASP.NET on the local machine.
Copyright (C) Microsoft Corporation. All rights reserved.
Start installing ASP.NET (4.0.30319.18408).
*****
Finished installing ASP.NET (4.0.30319.18408).
C:\Windows\Microsoft.NET\Framework64\v4.0.30319>
```

Figure 2.1.14 – Registering ASP.NET 4

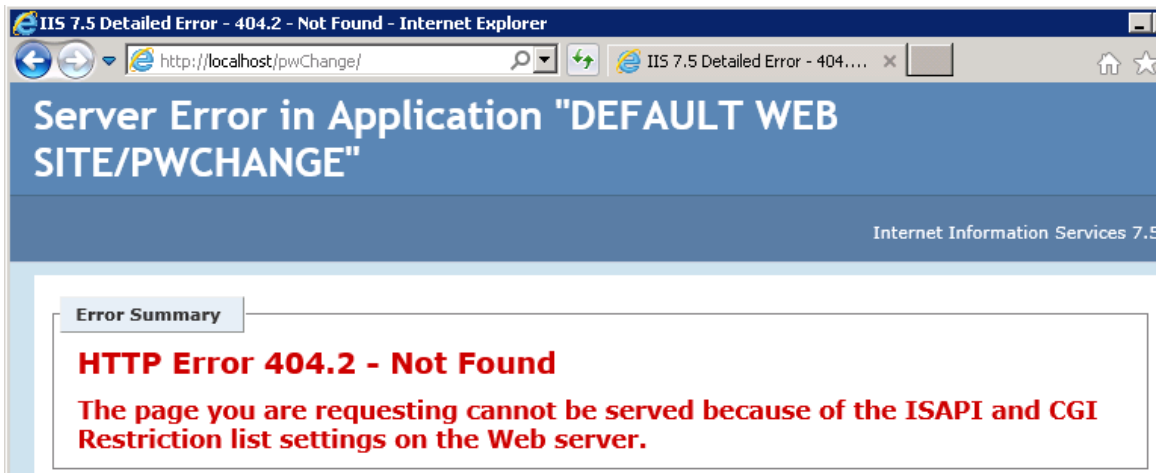


Figure 2.1.15 – The application will still not work until ISAPI and CGI settings are changed

In the IIS Manager, select the server in the left pane, and double click ISAPI and CGI Restrictions in the right pane.

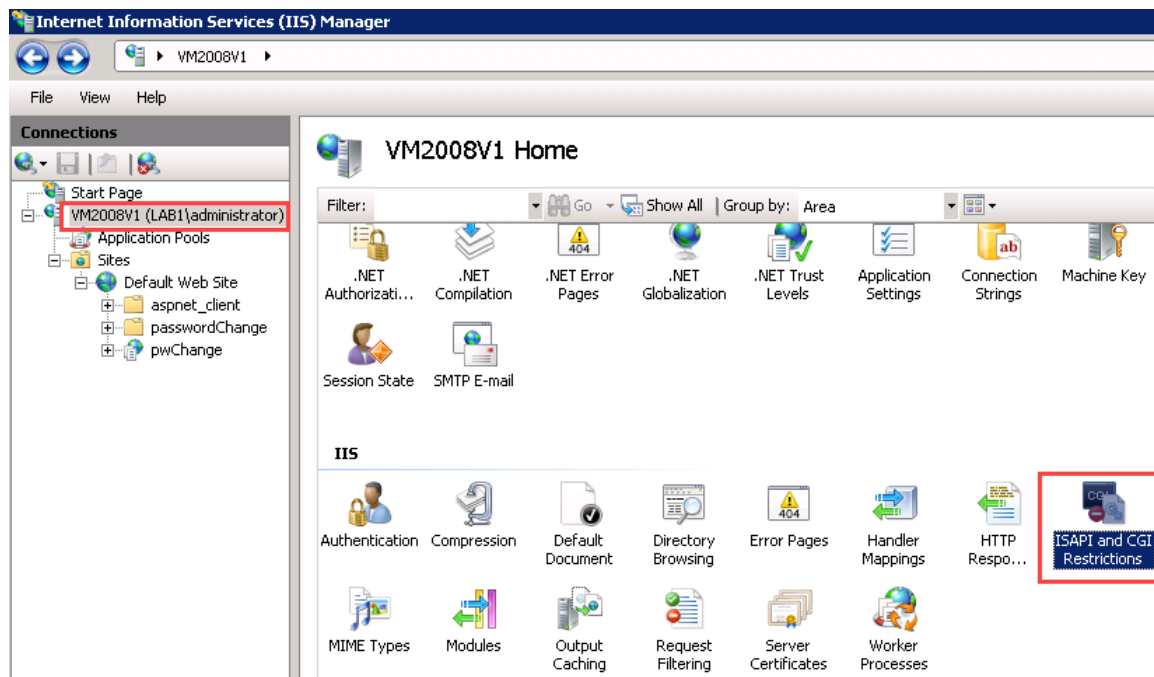


Figure 2.1.16 – Select ISAPI and CGI Restrictions

Right click ASP.NET v4.0.30319 for both Framework64 and select Allowed. Do the same for the Framework entry.

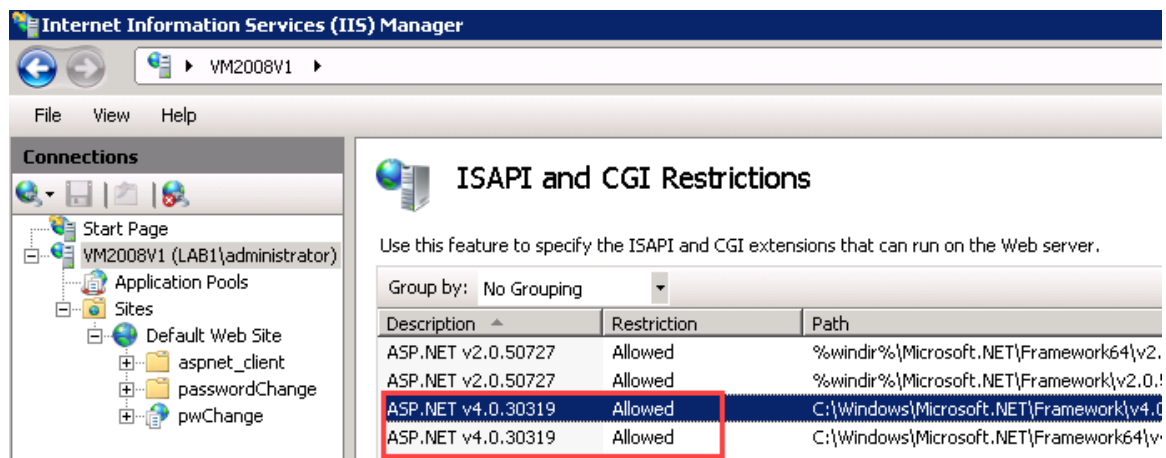
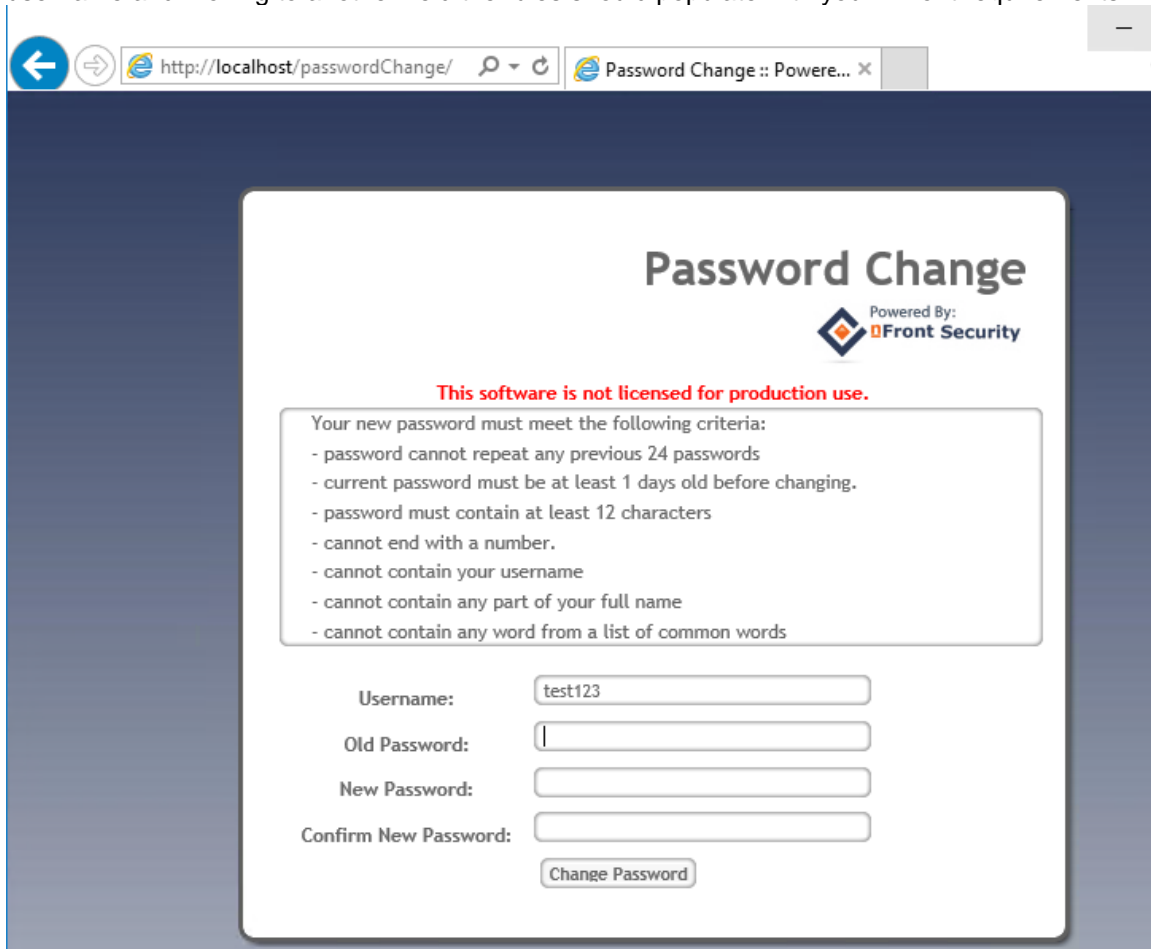


Figure 2.1.17 – Allow ISAPI and CGI for ASP.NET v4

Now a test of <http://localhost/passwordChange> should work as expected. After typing in a username and moving to another field the rules should populate with your nFront requirements.



The screenshot shows a web browser window with the address bar displaying <http://localhost/passwordChange/>. The page title is "Password Change :: Powere...". The main content area has a dark blue background with a white central box. Inside the box, the title "Password Change" is displayed in large black font, followed by the nFront Security logo and the text "Powered By: nFront Security". Below this, a red warning message states: "This software is not licensed for production use." A list of password criteria is provided: "Your new password must meet the following criteria:" followed by a bulleted list: "password cannot repeat any previous 24 passwords", "current password must be at least 1 days old before changing.", "password must contain at least 12 characters", "cannot end with a number.", "cannot contain your username", "cannot contain any part of your full name", and "cannot contain any word from a list of common words". Below the criteria, there are four input fields: "Username:" (containing "test123"), "Old Password:" (empty), "New Password:" (empty), and "Confirm New Password:" (empty). A "Change Password" button is located at the bottom right of the form.

Figure 2.1.18 – NPF-WEB test on Windows 2008 R2

2.2 Installation on Windows 2012 R2

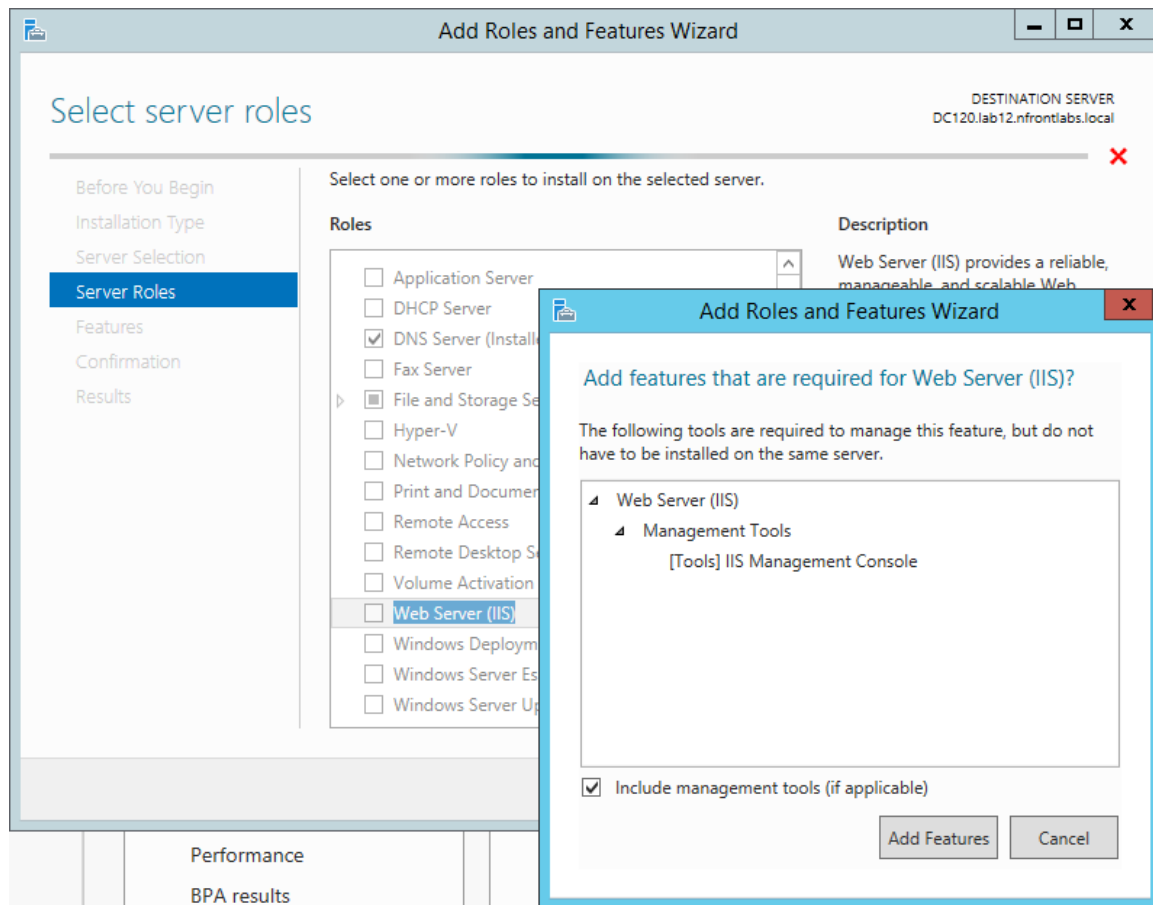


Figure 2.2.1 – Adding Web Server (IIS) Role on Windows 2012 R2

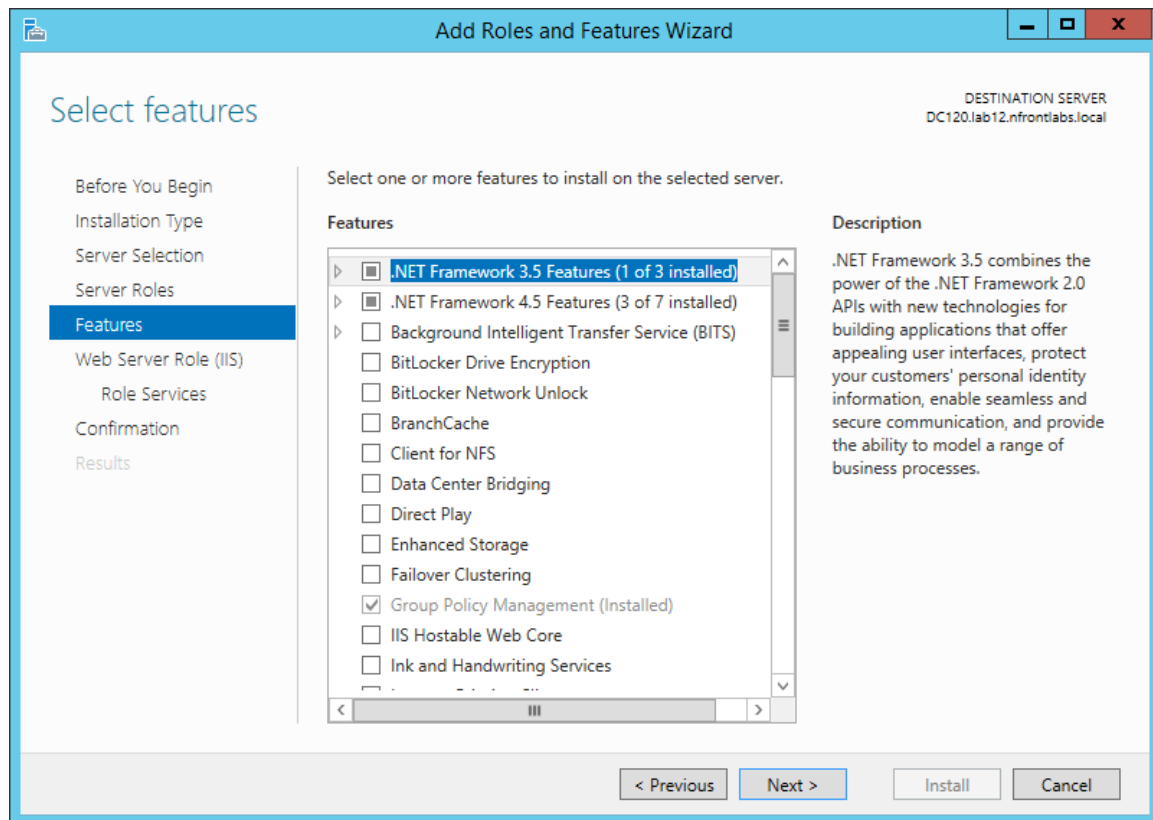


Figure 2.2.2 –Windows 2012 R2 Add Roles Wizard Step 2

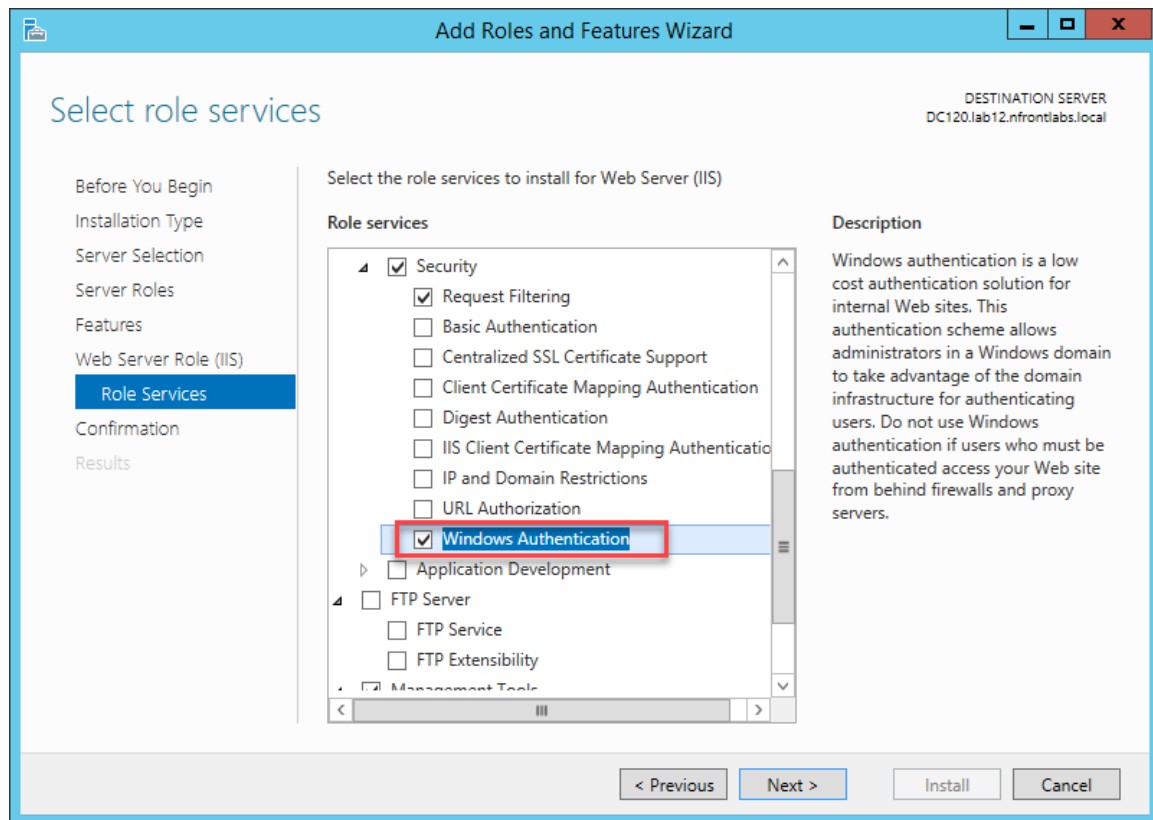


Figure 2.2.3 –Windows 2012 R2 Add Roles Wizard Step 3



Figure 2.2.4 –NPF-WEB Installer – Step 1

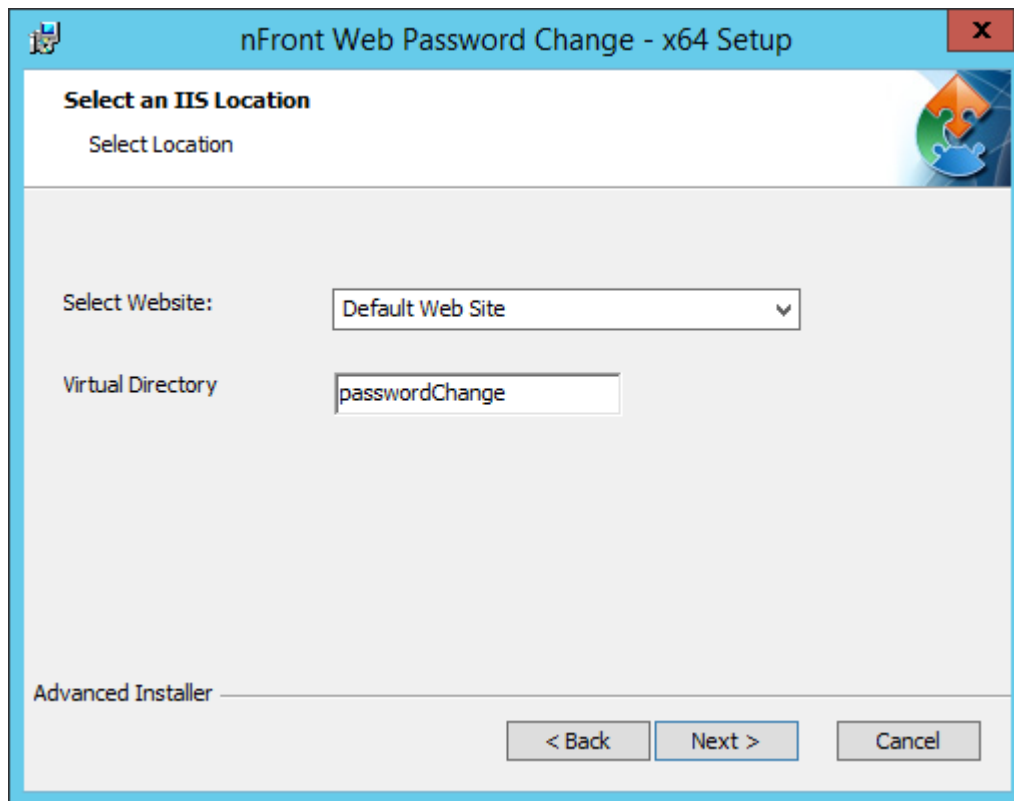


Figure 2.2.5 –NPF-WEB Installer – Step 2

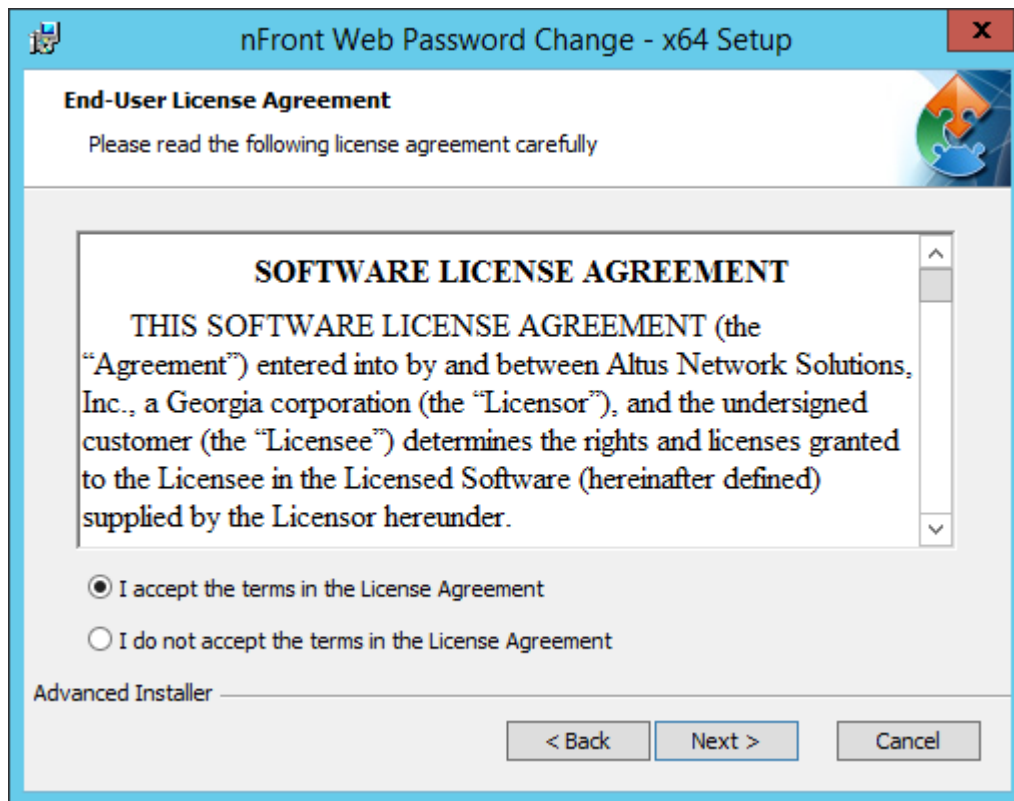


Figure 2.2.6 –NPF-WEB Installer – Step 3

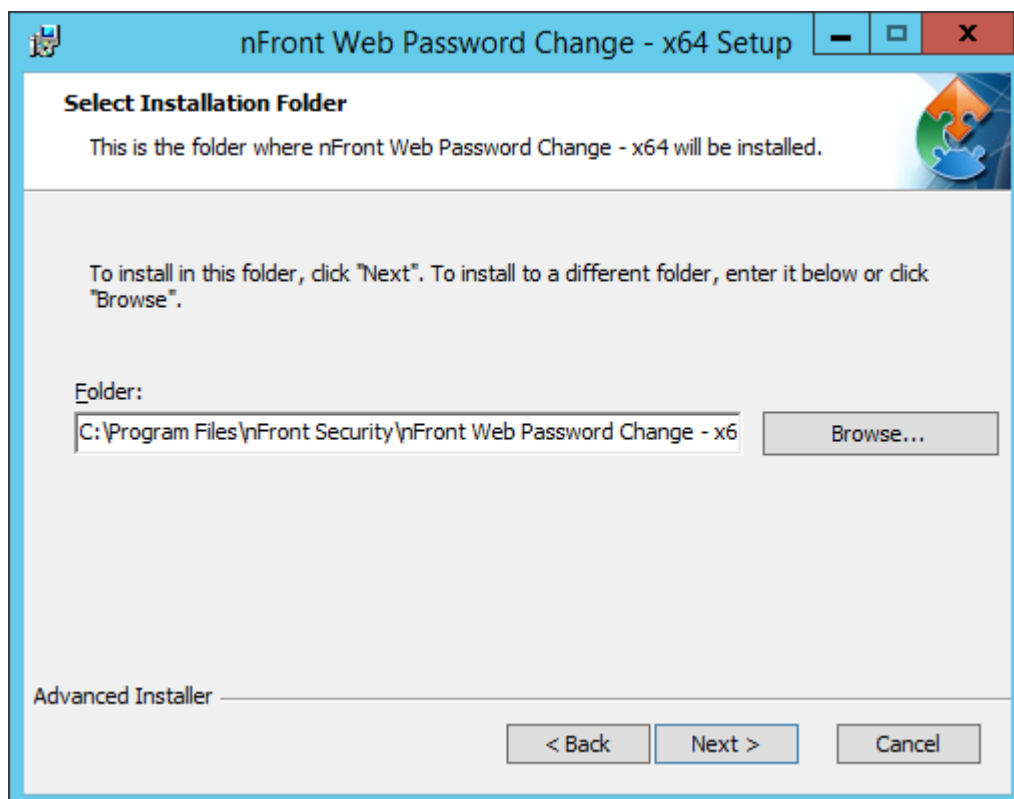
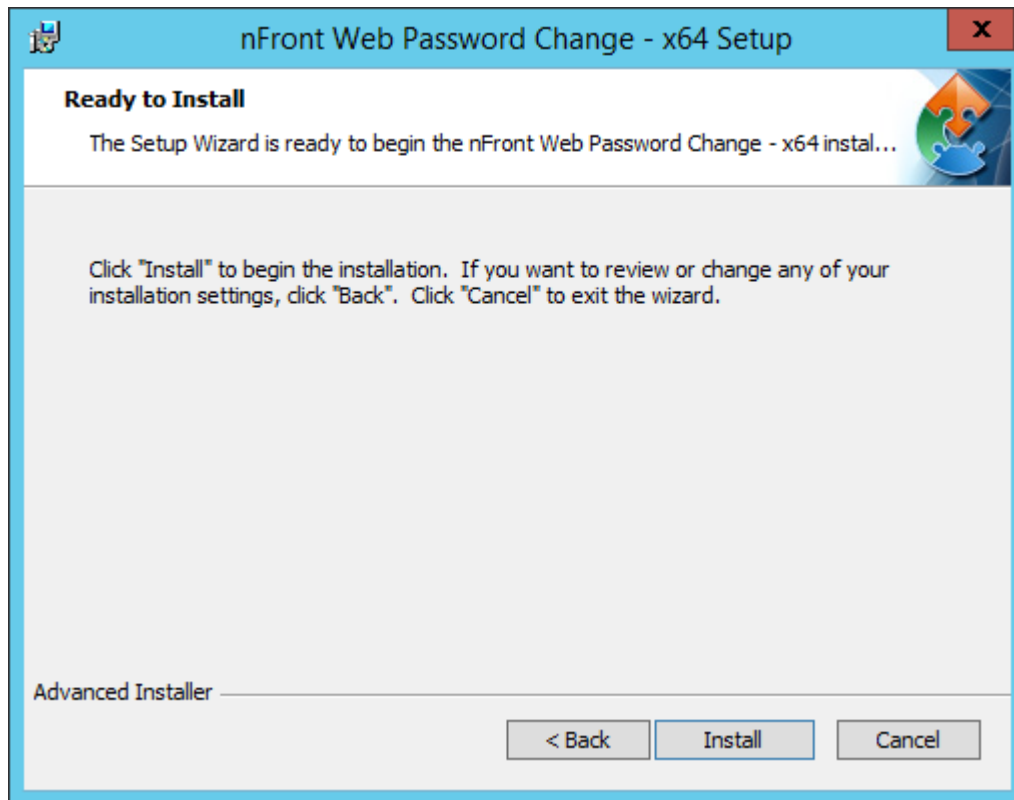


Figure 2.2.7 –NPF-WEB Installer – Step 4**Figure 2.2.8 –NPF-WEB Installer – Step 5**

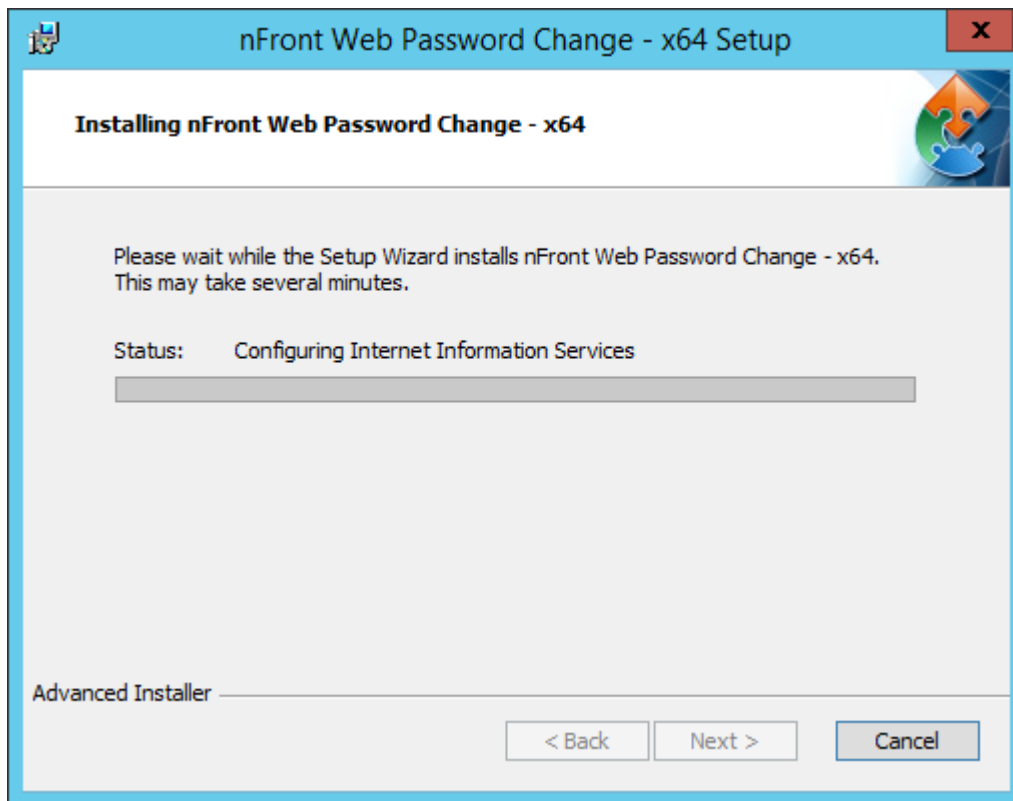
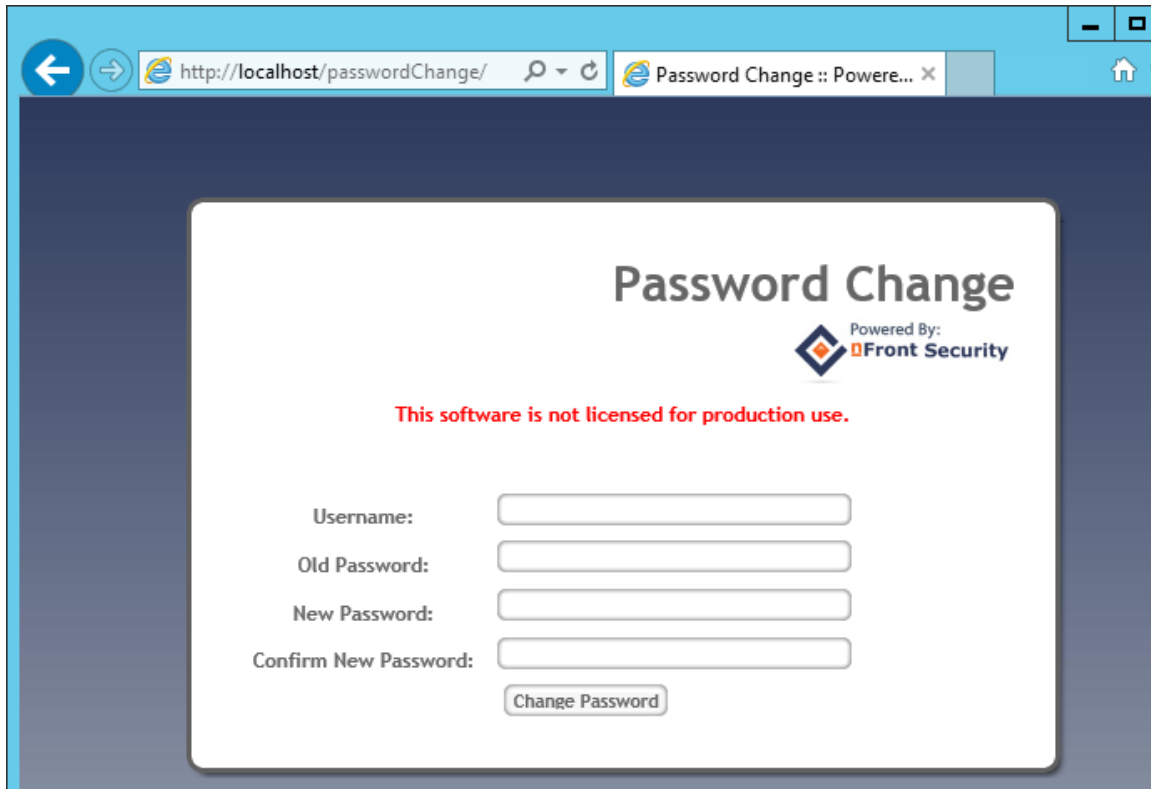


Figure 2.2.9 –NPF-WEB Installer – Step 6



Figure 2.2.10 –NPF-WEB Installer – Step 7

Now a test of `http://localhost/passwordChange` should work as expected. After typing in a username and moving to another field the rules should populate with your nFront requirements.



The screenshot shows a web browser window with the address bar displaying `http://localhost/passwordChange/`. The page title is "Password Change :: Powere...". The main content area has a dark blue background. In the center, there is a white box with the title "Password Change" and the nFront Security logo. Below the logo, a red warning message states: "This software is not licensed for production use." The form contains four input fields: "Username:", "Old Password:", "New Password:", and "Confirm New Password:". A "Change Password" button is located below the "Confirm New Password" field.

Figure 2.2.11 –NPF-WEB working on Server 2012 R2

2.3 Installation on Windows Server 2016

For the IIS configuration it is important to have:

- Windows Authentication (under Security category)
- ASP.NET 4.6 (under Application Development category)
- IIS 6 Metabase Compatibility (under Management Tools category)

If you already have IIS installed you can go back and add those items. The screenshots below go through adding the Web Server (IIS) Role to a server that does not have it.

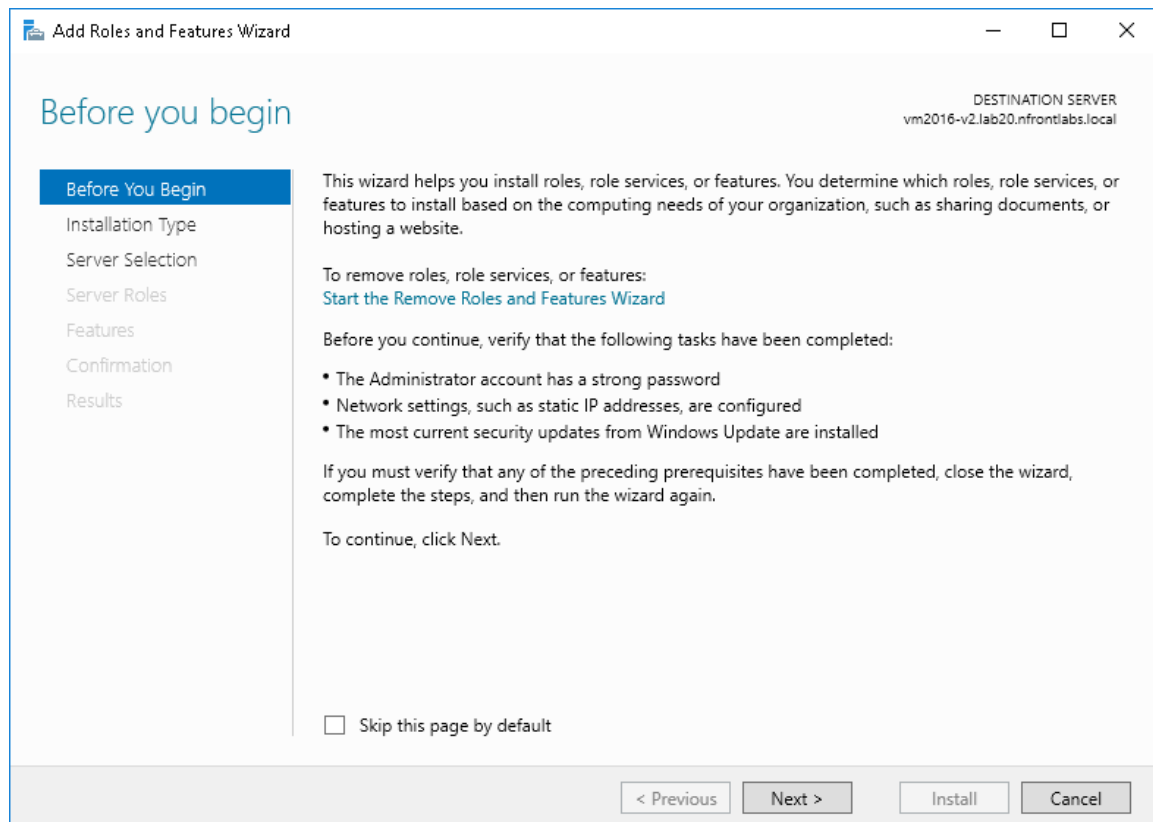


Figure 2.3.1 – Server 2016 Add Roles Wizard Step 1

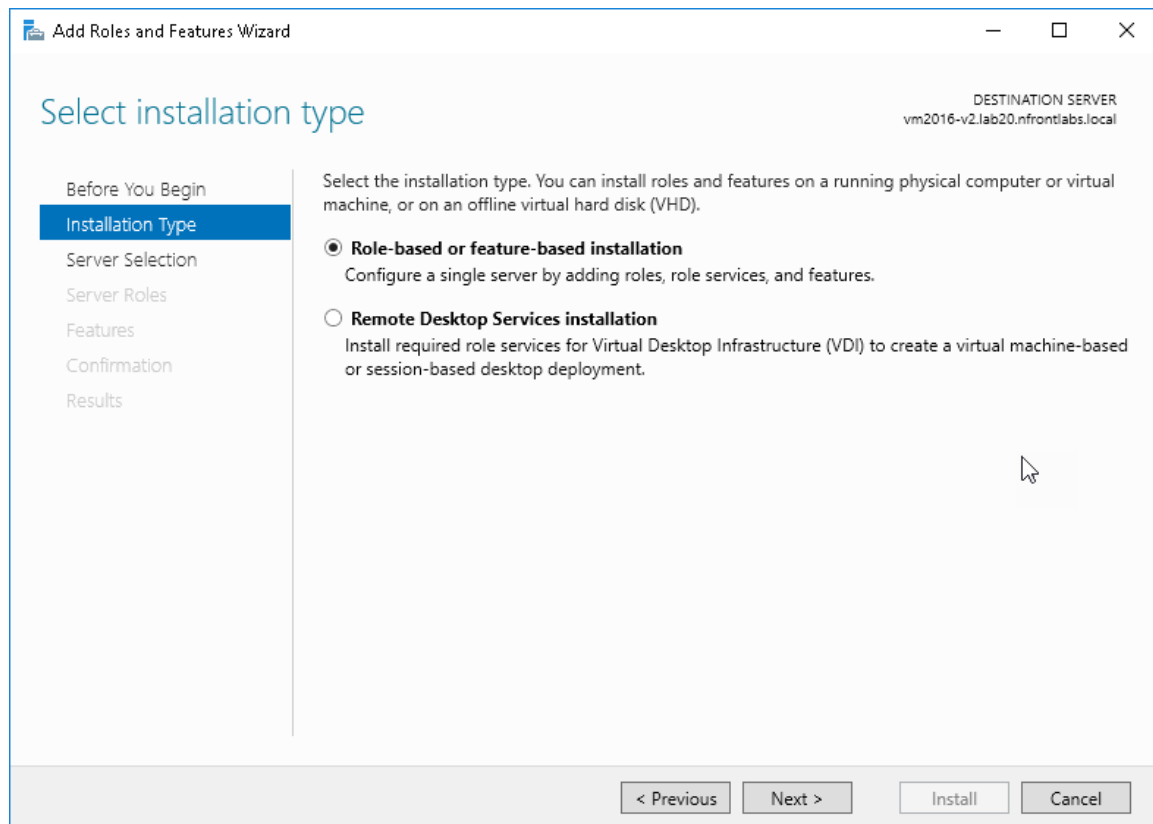


Figure 2.3.2 – Server 2016 Add Roles Wizard Step 2

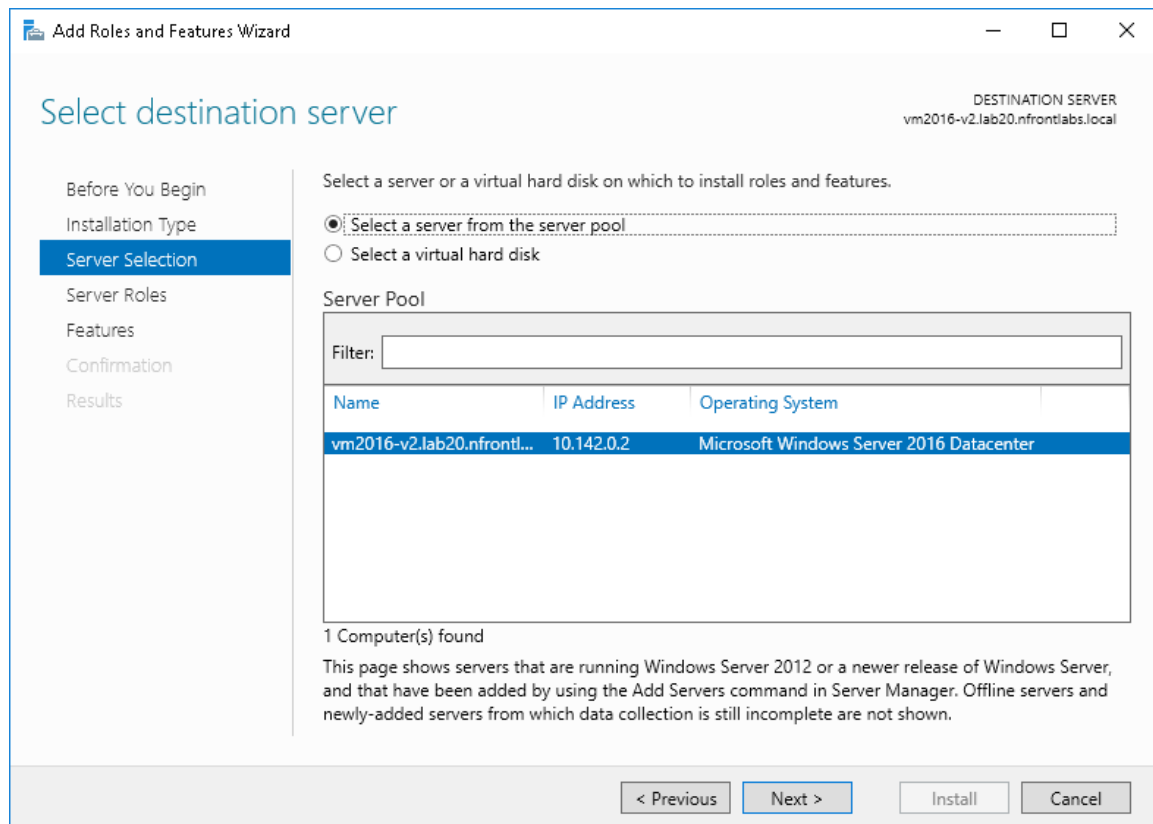


Figure 2.3.3 – Server 2016 Add Roles Wizard Step 3

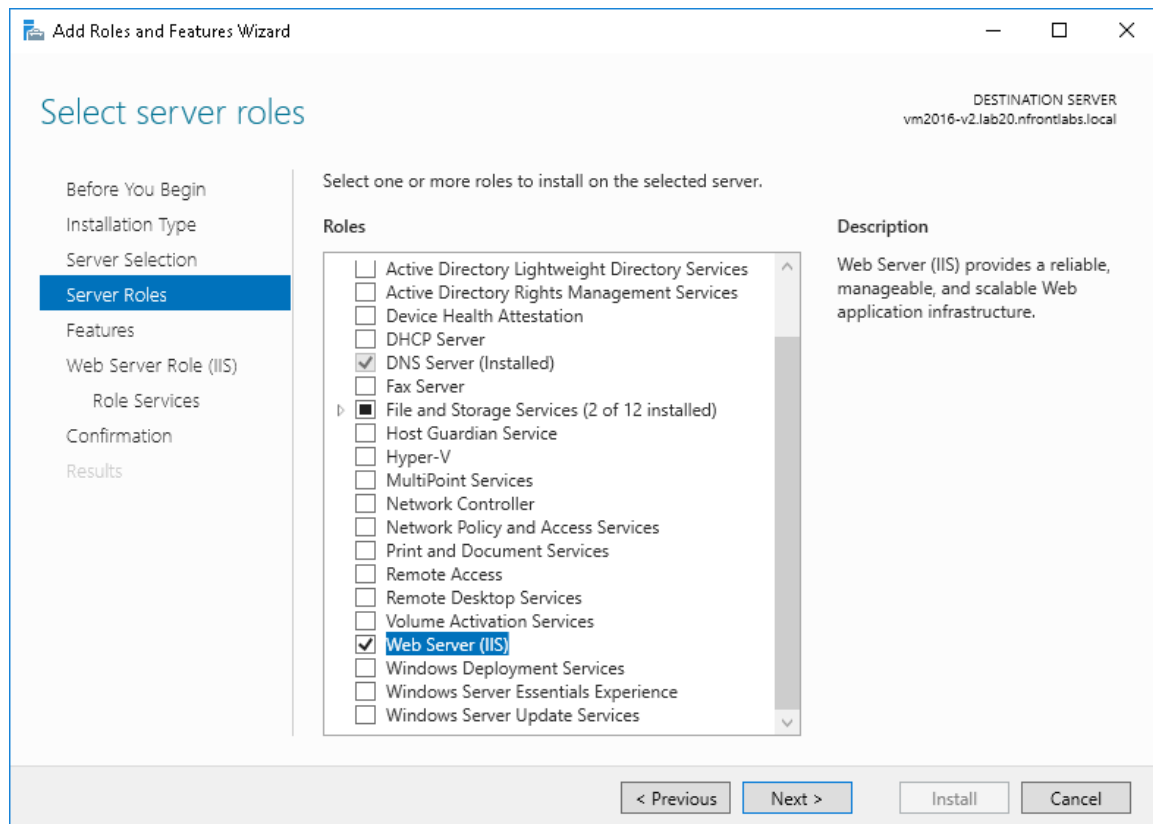


Figure 2.3.4 – Server 2016 Add Roles Wizard Step 4

When you select Web Server (IIS) you will be immediately prompted to add the Management tools. Click Add Features to continue.

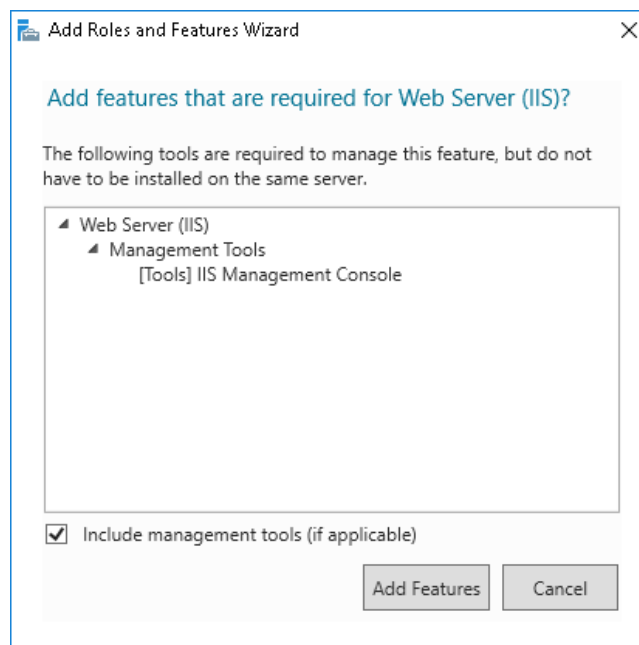


Figure 2.3.5 – Server 2016 Add Roles Wizard – adding management tools

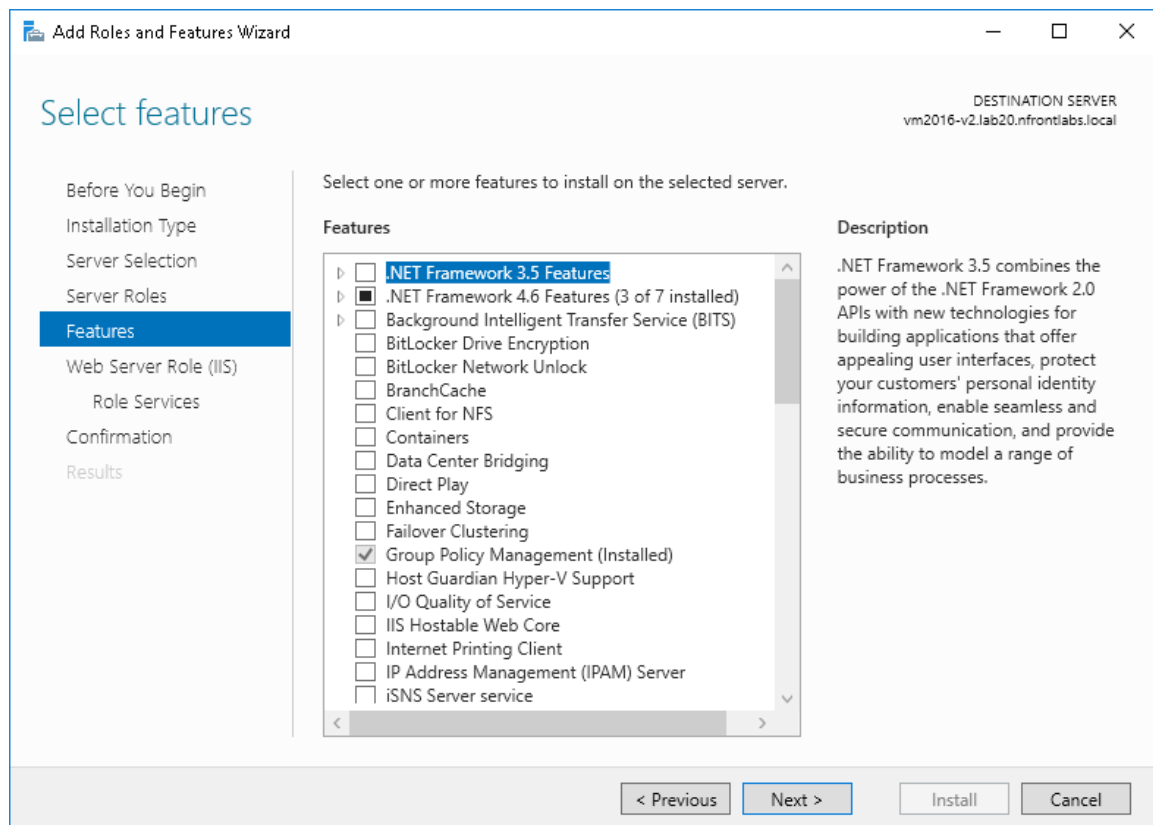


Figure 2.3.6 – Server 2016 Add Roles Wizard Step 5

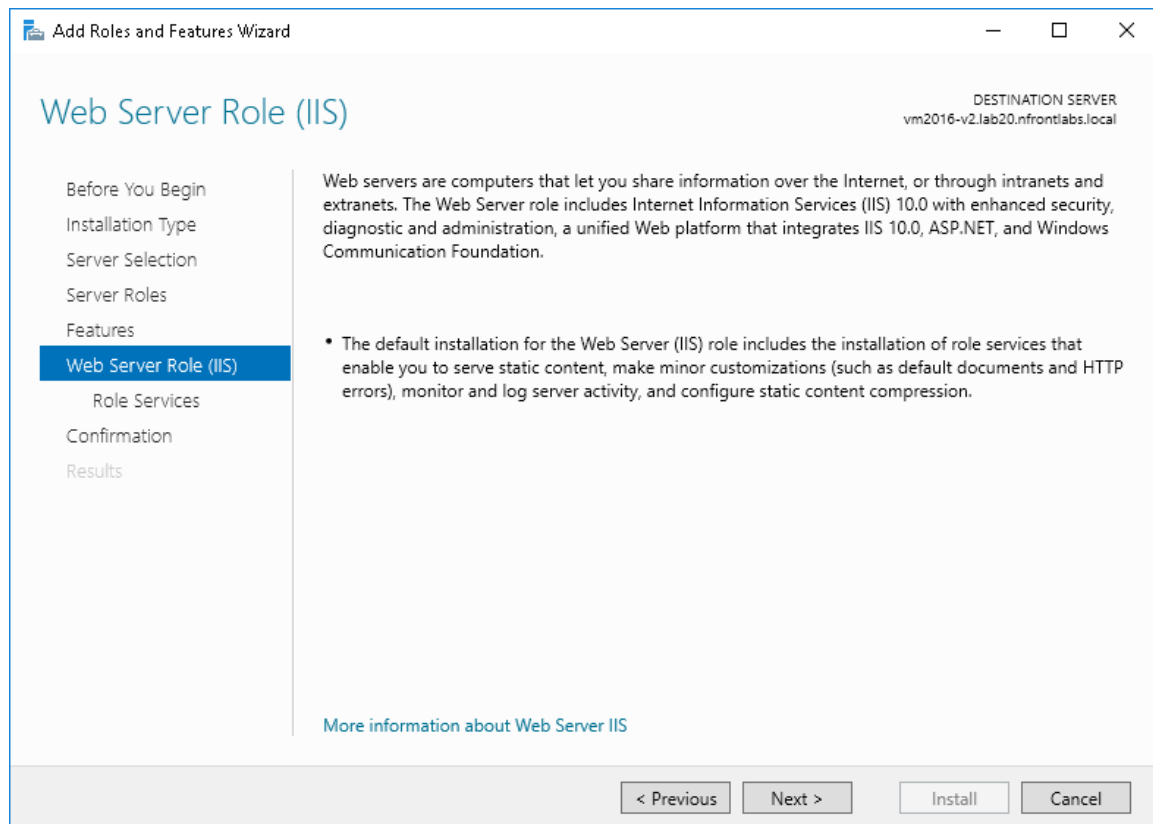


Figure 2.3.7 – Server 2016 Add Roles Wizard Step 6

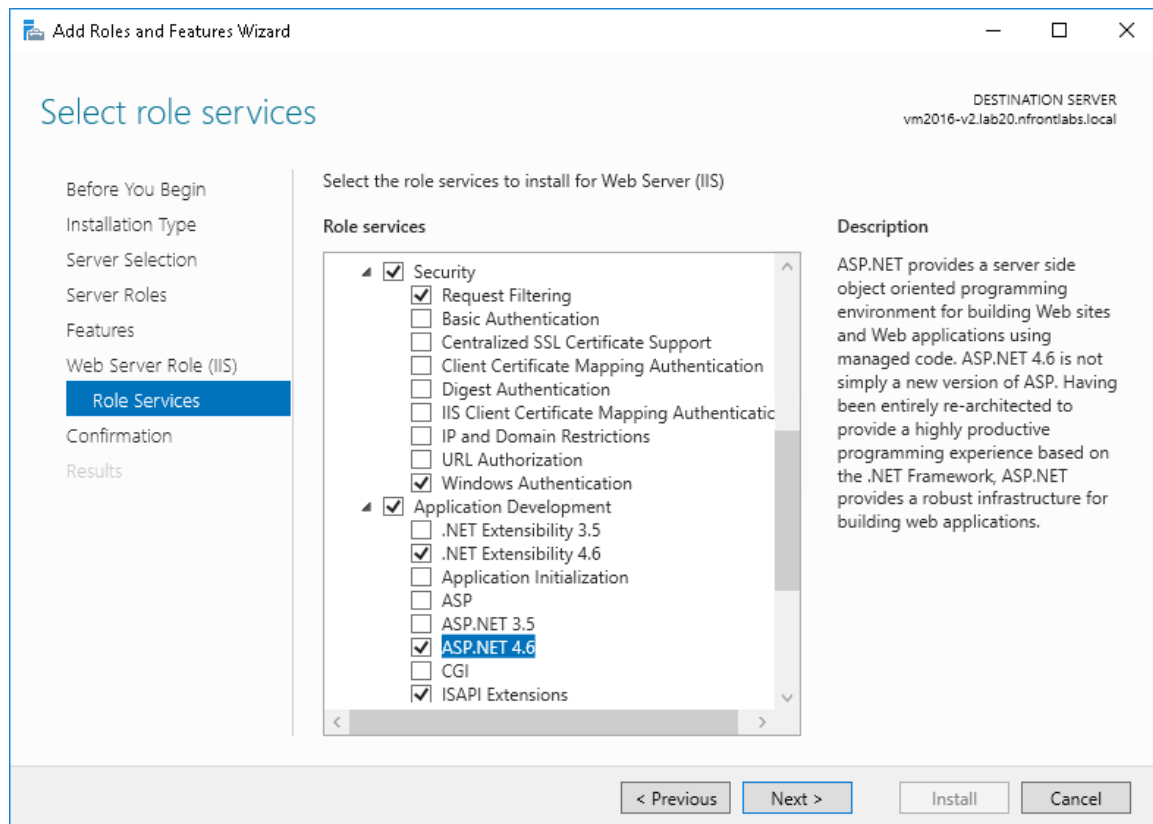


Figure 2.3.8 – Server 2016 Add Roles Wizard Step 7

When you select ASP.NET 4.6 you will be immediately prompted to add additional items. Click Add Features to continue.

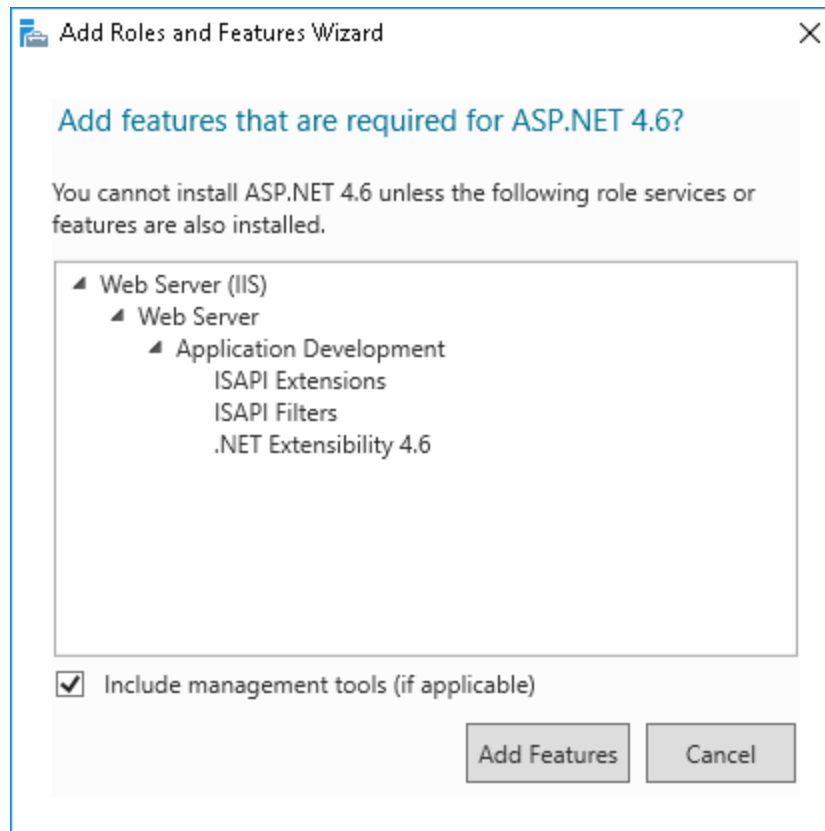
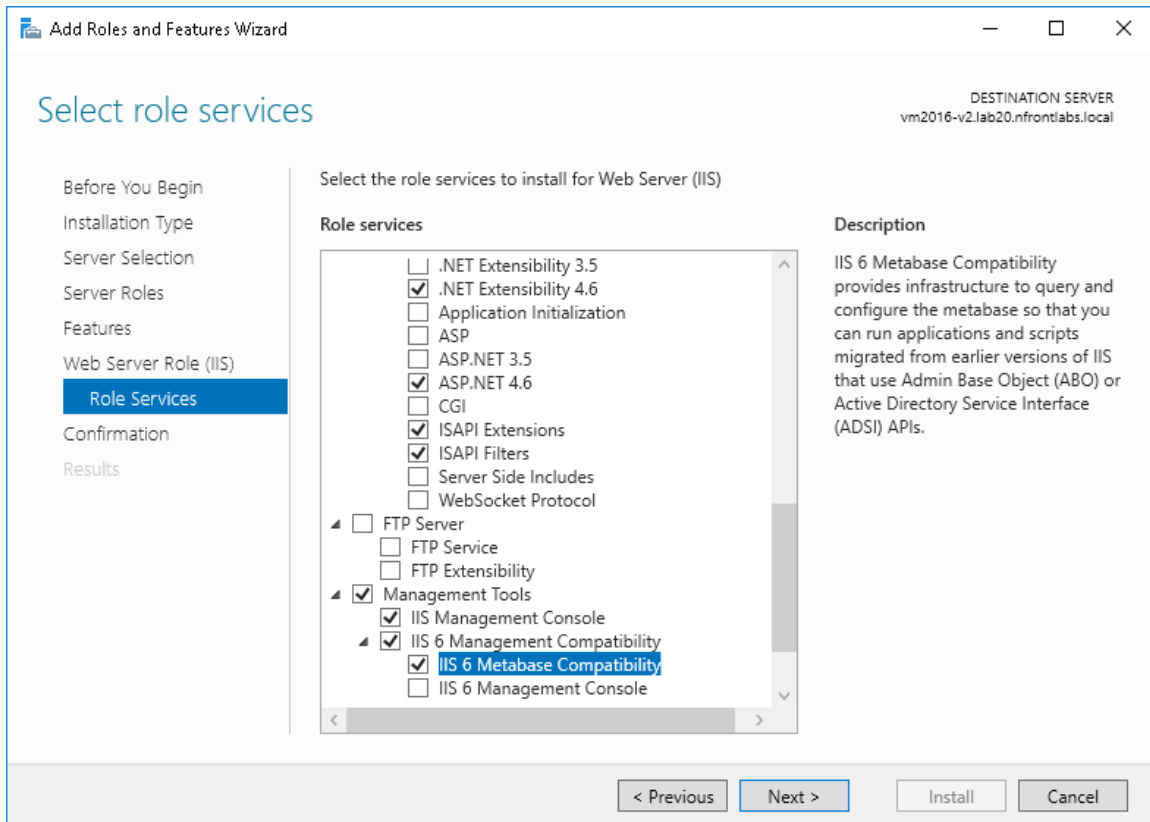


Figure 2.3.9 – Server 2016 Add Roles Wizard – adding ASP.NET features

**Figure 2.3.10 – Server 2016 Add Roles Wizard Step 8**

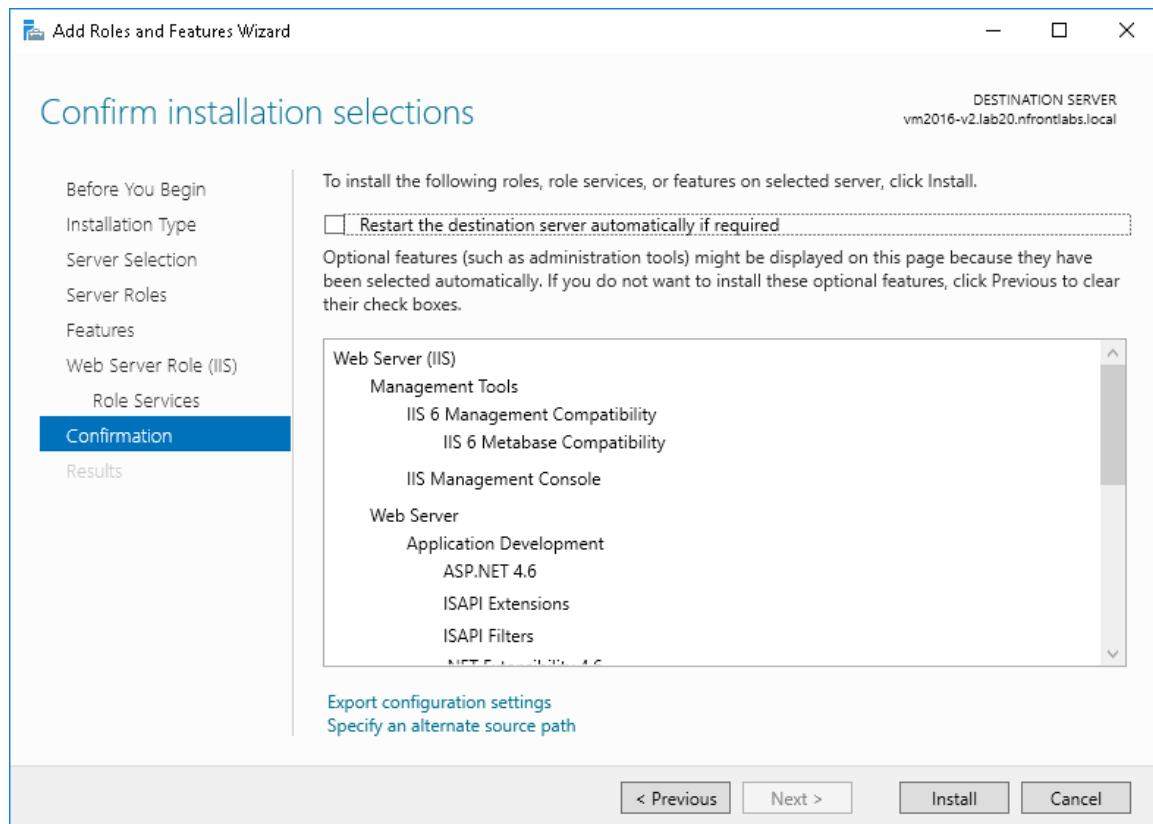


Figure 2.3.11 – Server 2016 Add Roles Wizard Step 9

After the IIS Role is successfully added you can proceed with the installation of nFront Web Password Change.

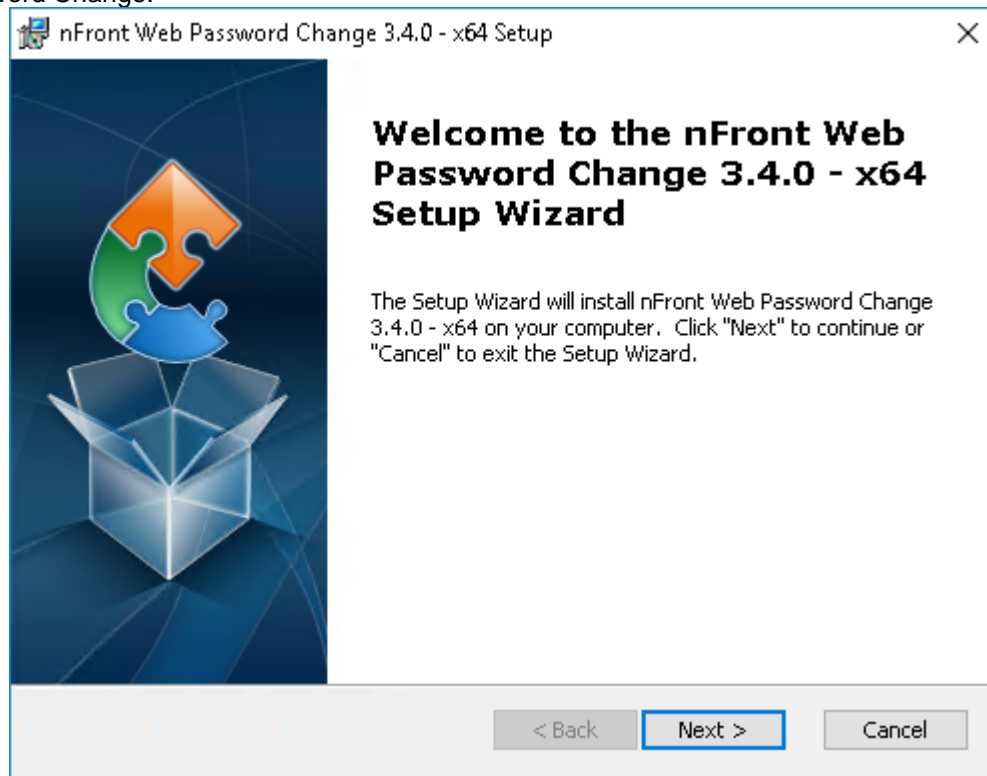


Figure 2.3.12 –NPF-WEB Installer – Step 1

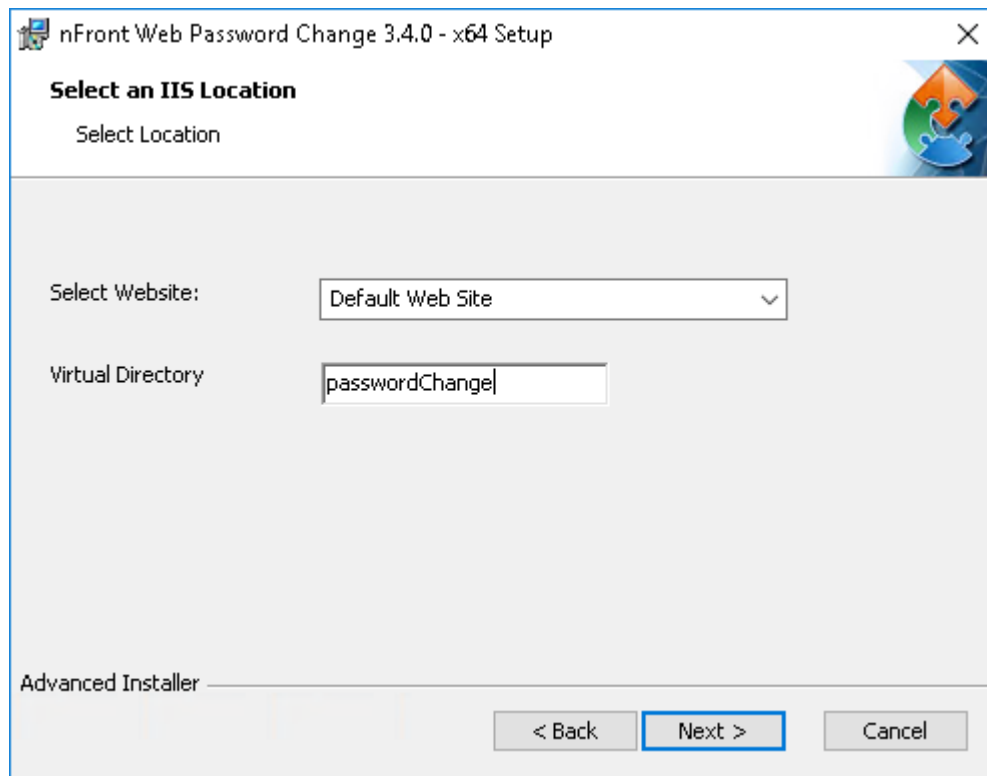


Figure 2.3.13 –NPF-WEB Installer – Step 2

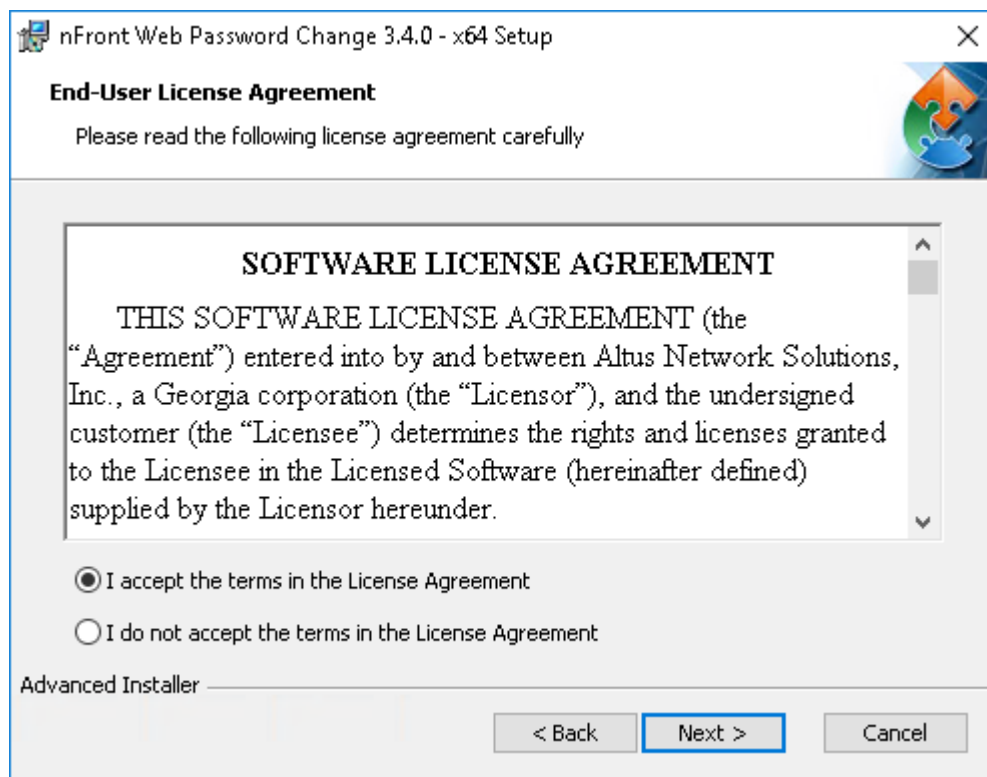


Figure 2.3.14 –NPF-WEB Installer – Step 3

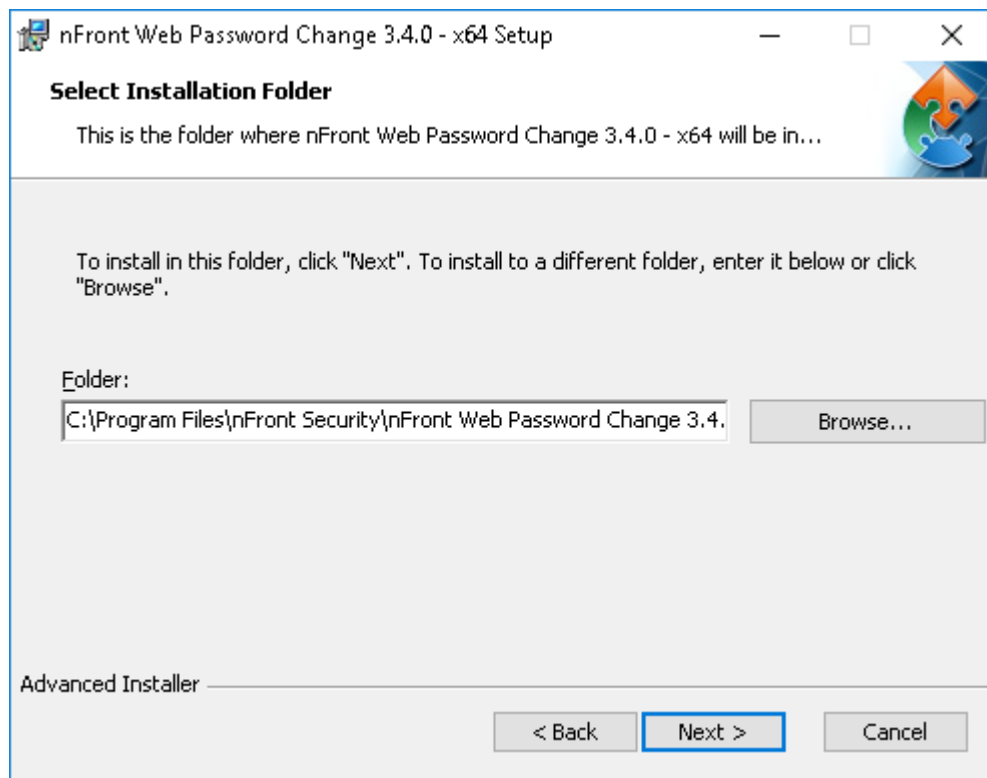


Figure 2.3.15 –NPF-WEB Installer – Step 4

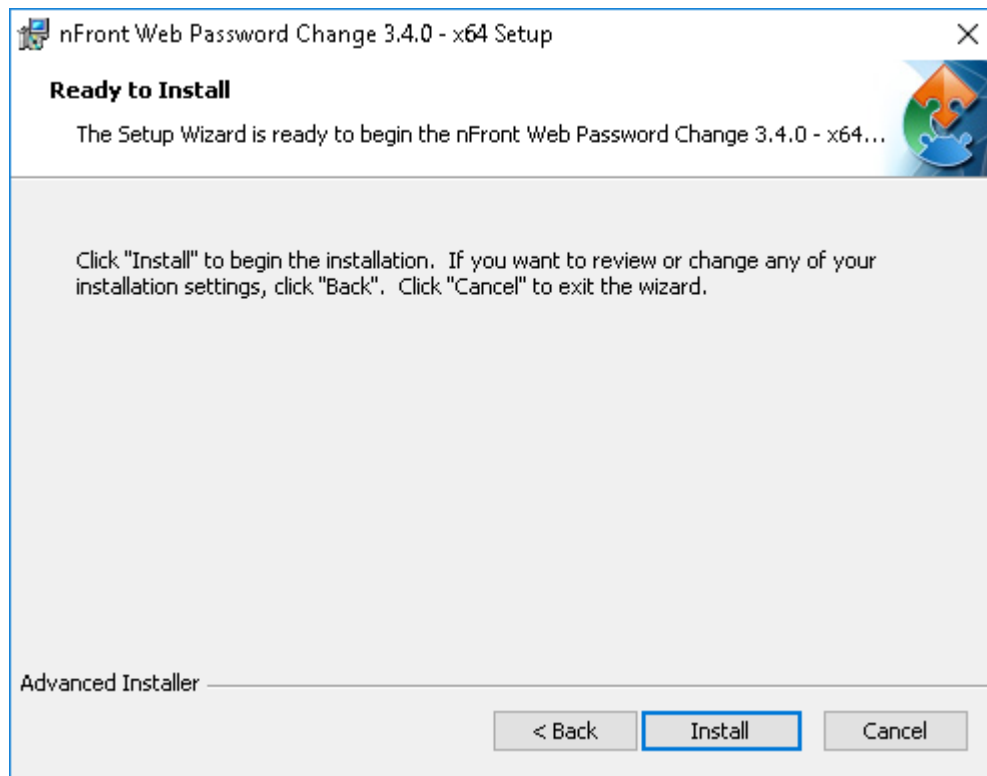


Figure 2.3.16 –NPF-WEB Installer – Step 5

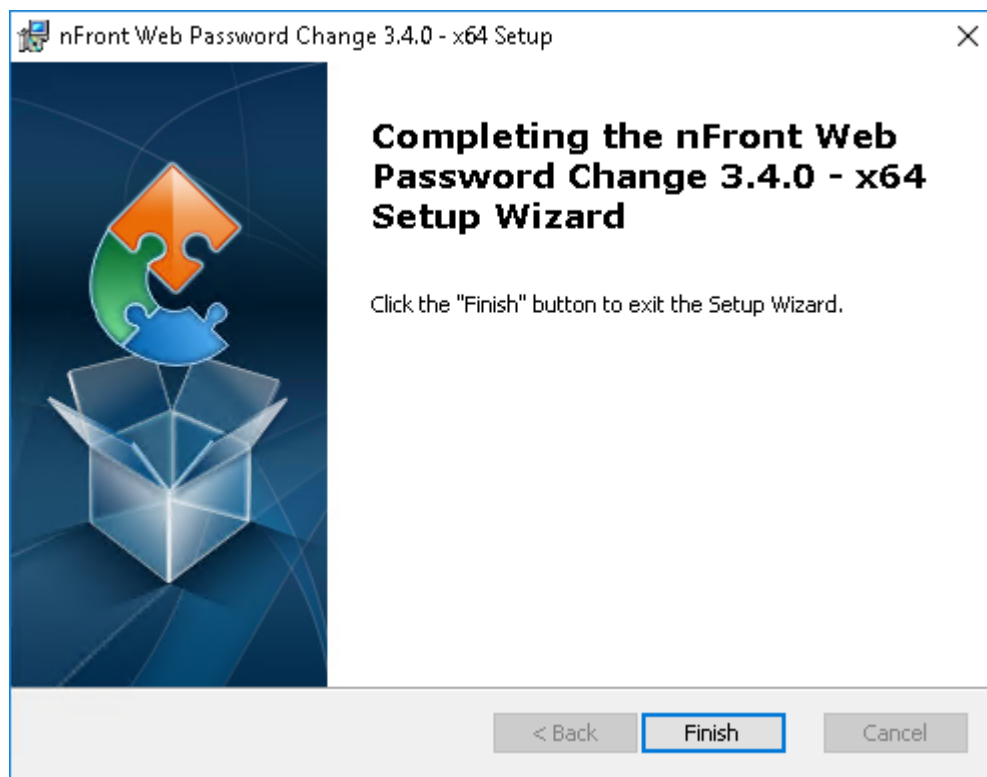


Figure 2.3.17 –NPF-WEB Installer – Step 6

2.4 Check the Installation

You can simply open a web browser and go to <http://<machine-name>/<virtual directory>> or <http://localhost/<virtual directory>>. If you chose a different site or port number you will need to use that in the URL. You should see a screen like the one below in Figure 2.4.1.

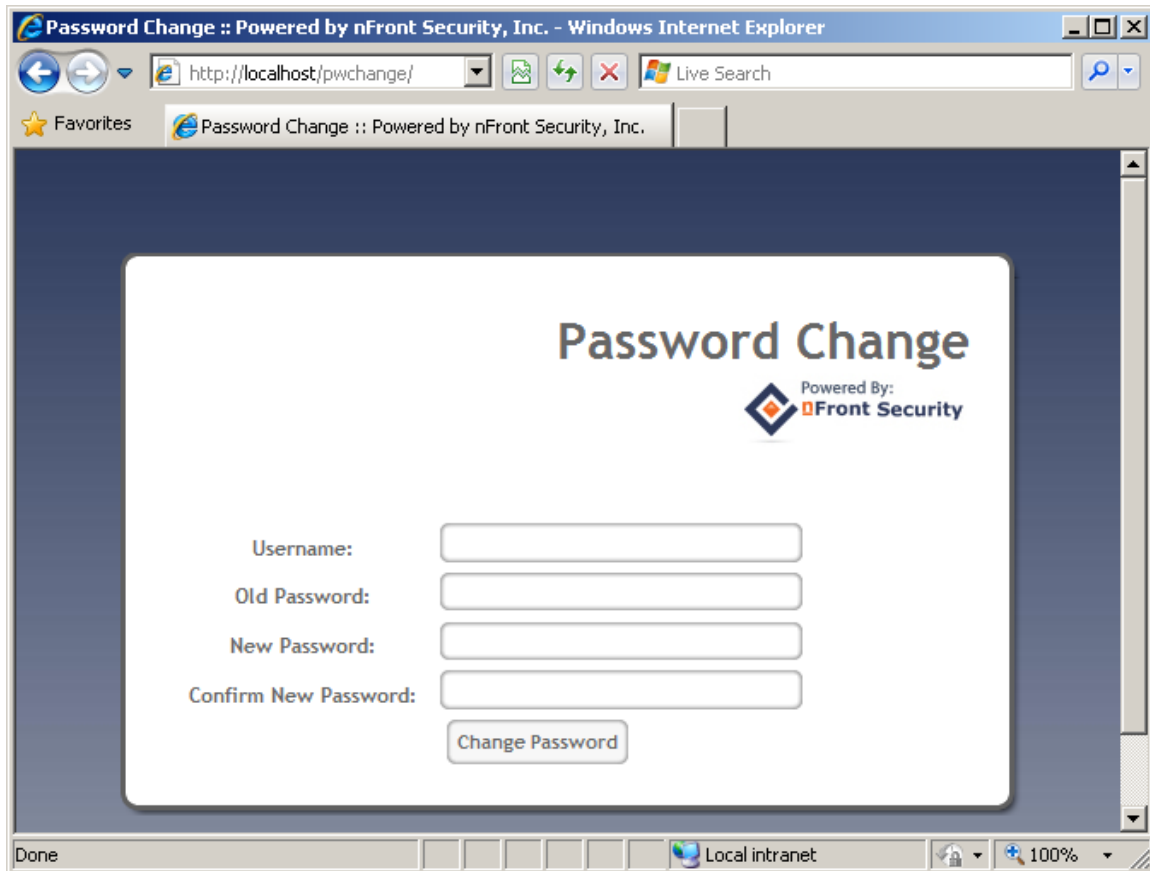


Figure 2.4.1: nFront Web Password Change screen in Internet Explorer

If you are prompted for authentication when using <http://localhost/<virtual directory>> then you may need to check the permissions on the virtual directory to ensure the directory is configured for Integrated Windows Authentication and anonymous access is disabled. Use Internet Information Services (IIS) Manager to navigate to the website + virtual directory + right-click and select properties + Directory Security tab (Figure 2.4.2). In the Authentication and Access Control section click the Edit button to edit the Authentication Methods. Be sure the system is configured for Integrated Windows Authentication and there is no check for Enable Anonymous Access (Figure 2.4.3).

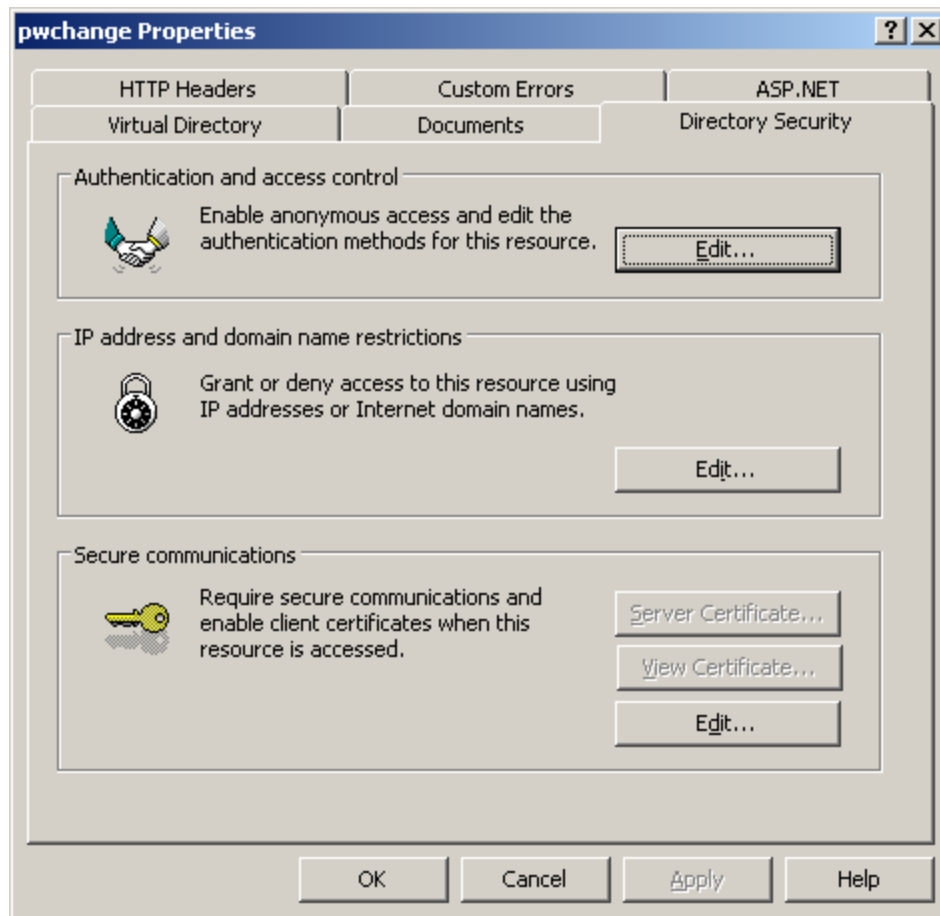


Figure 2.4.2: Properties of virtual directory for application

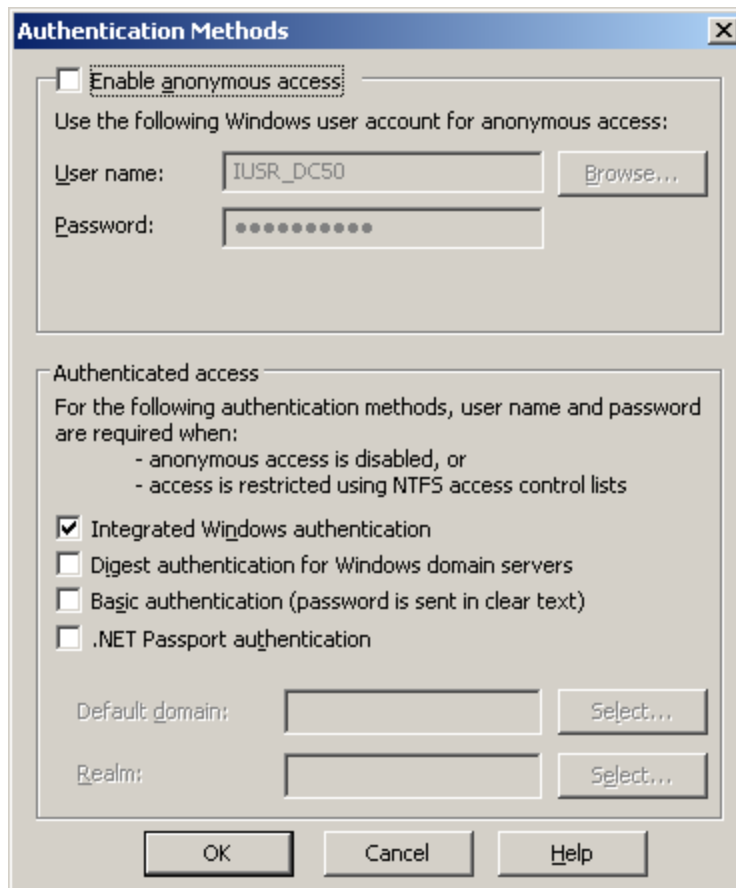


Figure 2.4.3: Authentication Methods for web application virtual directory

2.5 Fixing the problem with the Authentication prompt

If you modify your DNS to point to the server running nFront Web Password Change you will likely notice an authentication prompt when you attempt to connect to a location like "intranet.xyz.local/pwchange" (Figure 2.5.1).

Any browser other than Internet Explorer will always prompt for authentication when you make your initial connection to the web application.

Internet Explorer will perform integrated authentication (and not prompt the user) but only under certain conditions. According to KB article 258063 (<http://support.microsoft.com/kb/258063>), IE assumes the address is an internet address if the address contains periods. The solution is to add the website address to the Local Intranet. You can do this manually on each browser or via Group Policy. The Microsoft Knowledge Base says you should consult the IE Resource Kit for information on using Group Policy to distribute modifications to the Local Intranet settings of all browsers. There are many good Internet articles that cover this topic. Here is a good example: <http://www.makeuseof.com/tag/configure-trusted-sites-internet-explorer-group-policy/>.

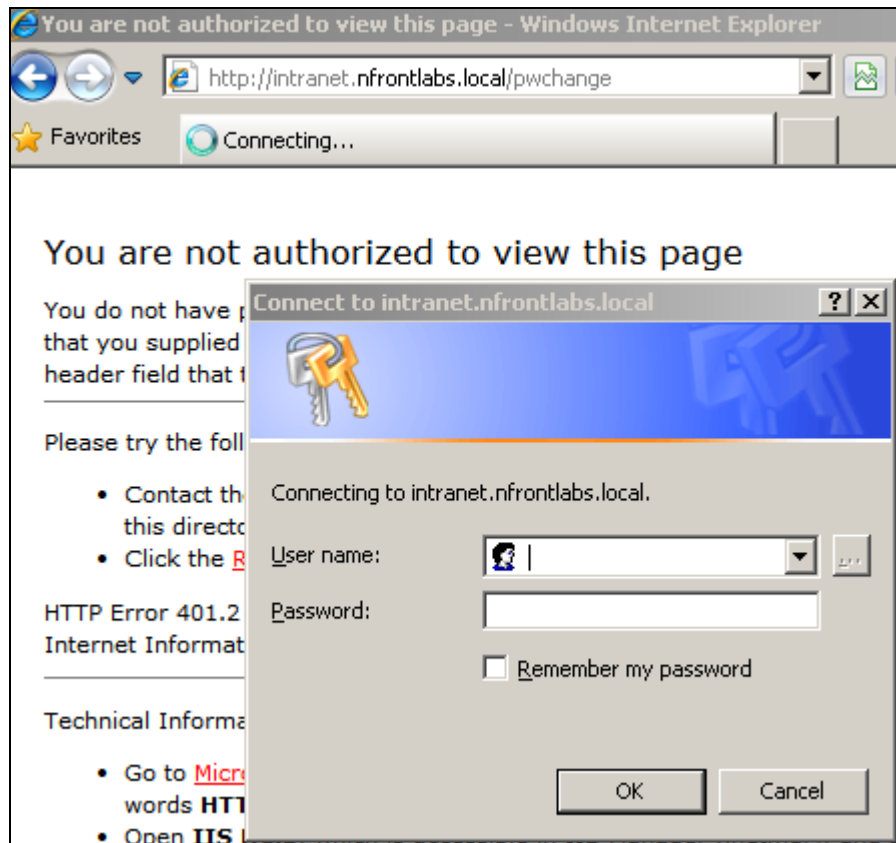


Figure 2.5.1: IE does not perform integrated windows authentication when URL contains periods.

In the next section you can find instructions to modify Internet Explorer to perform integrated windows authentication when contacting your internal website.

2.5.1 Manually modifying Local Intranet settings in Internet Explorer

In Internet Explorer go to Tools + Internet Options + Security Tab (Figure 2.5.1A)

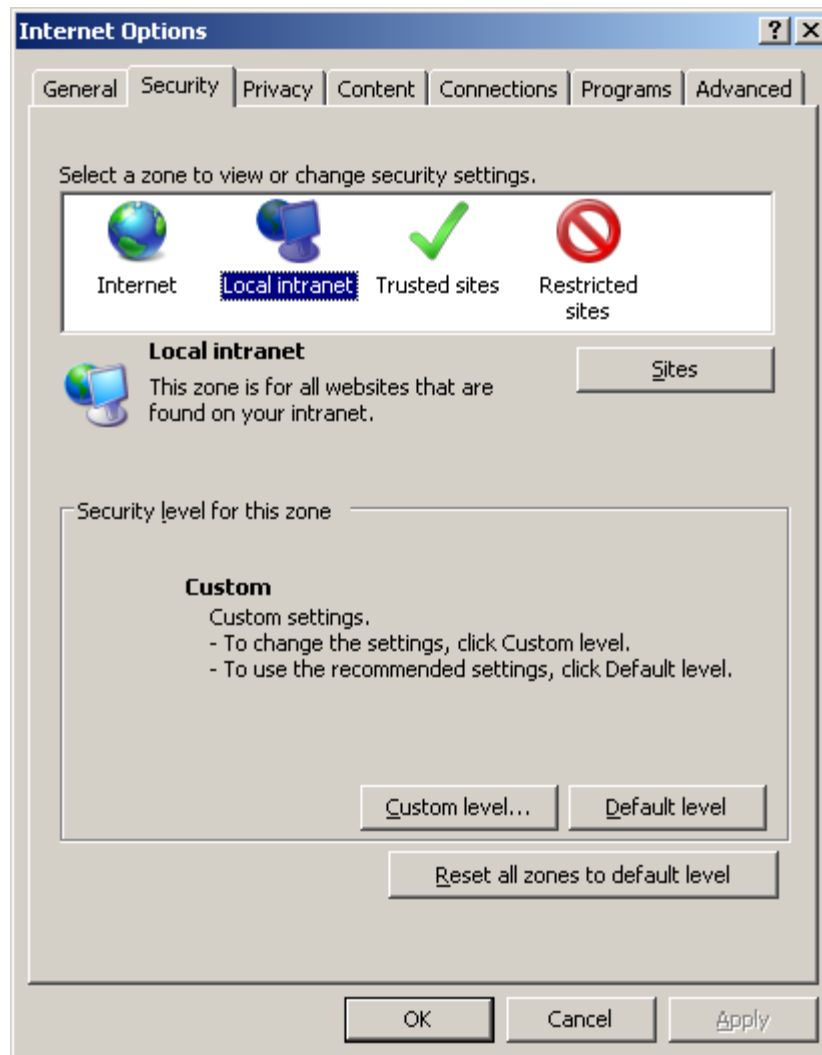


Figure 2.5.1A: IE Security Zones

In the Zones area select the Local intranet zone and click on the Sites button so go to the Local intranet settings (Figure 2.5.1B).

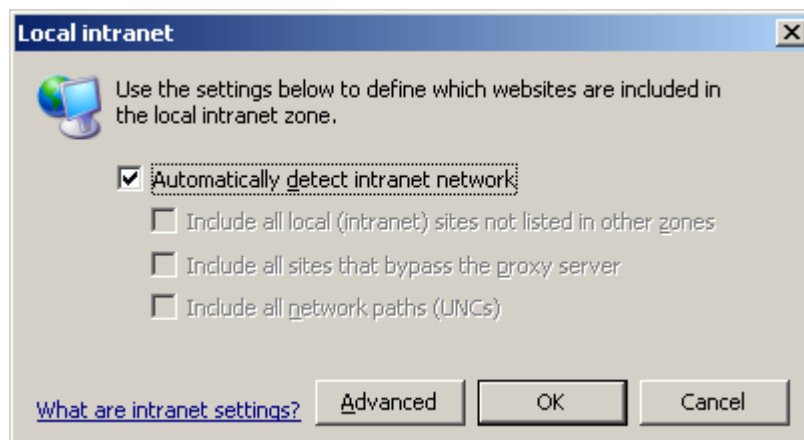


Figure 2.5.1B: IE Local intranet zone settings

Click on the Advanced button to add your website to the zone (Figure 2.5.1C). In the example below the URL is not https. On your network you should have your site secured with SSL to prevent clear text communication between the IE client and nFront Web Password Change on the server.

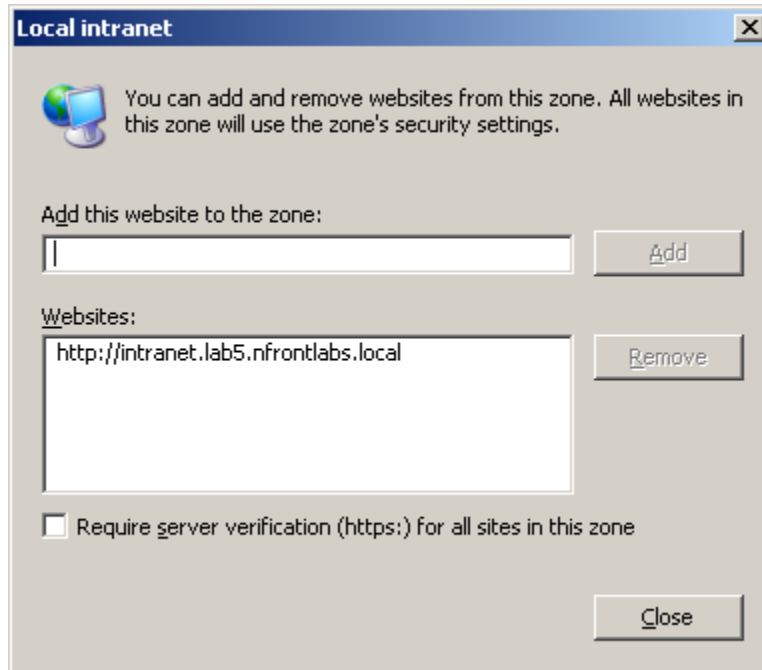
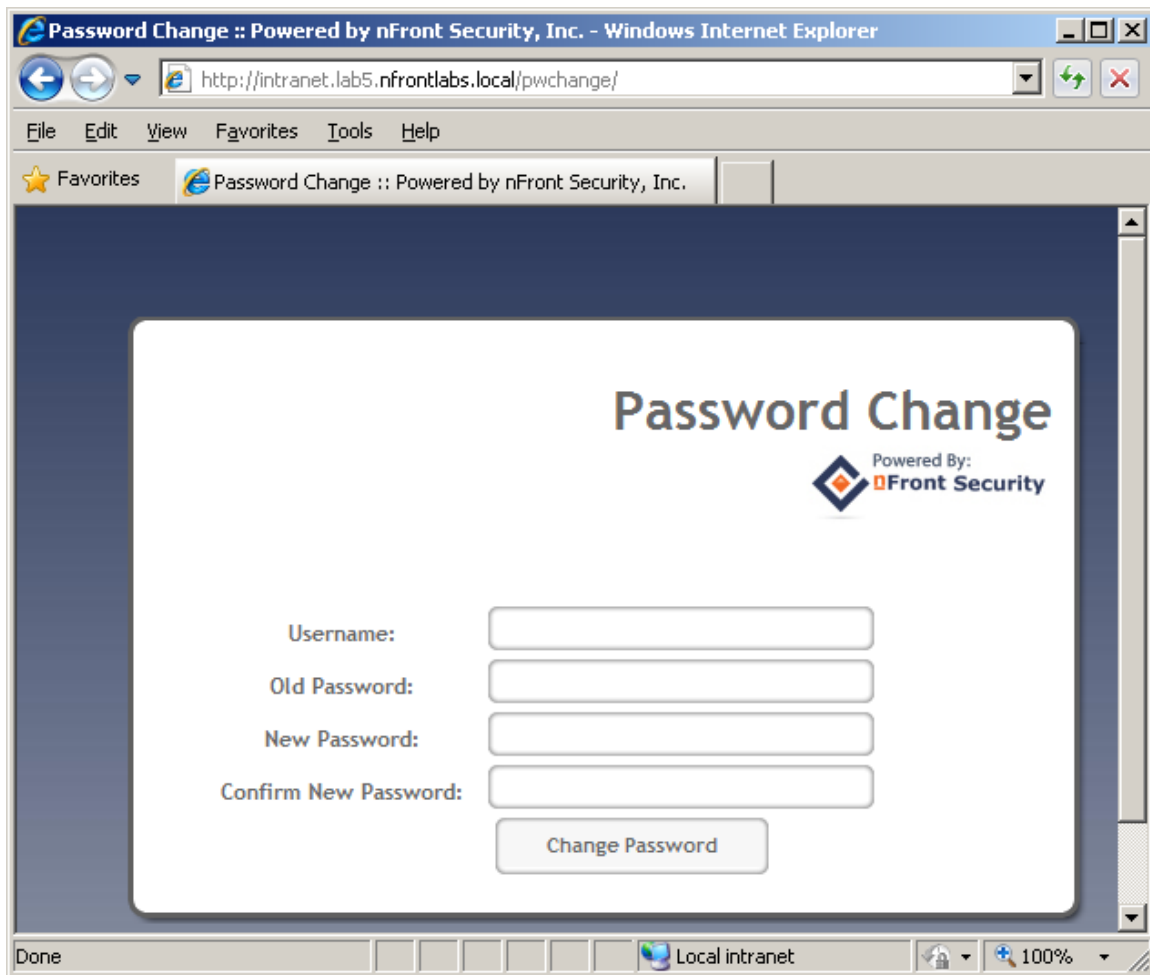


Figure 2.5.1C: Adding a new website to the Local intranet zone

After the change you should be able to navigate to the website with no prompts for authentication if using Internet Explorer.



2.6 Securing the site with SSL

You should never run the website internally or externally without using SSL to secure the site. Without SSL the communication from the Internet Explorer (or other) clients to the server will not be encrypted. Thus, it would be trivial to obtain clear text passwords.

If nFront Web Password Change is running on a member server it will need to communicate with a domain controller to get a list of password requirements and to test the password against the policies configured in nFront Password Filter. This communication is done using encrypted RPC from a DLL on the web server (altusgina.dll) and the nFront Password Policy Service on a domain controller. The service listens on port 1333. If you are running Windows 2008 domain controllers you must enable this port on the firewall. See the online nFront Knowledge Base for information on doing this.

You should apply an SSL certificate to the website on which the application runs. Instructions for obtaining and applying an SSL certificate are not covered here. However, any reputable vendor of SSL certificates will provide you with detailed instructions on the installation and configuration of SSL on your IIS server. Generally speaking it is a very simple process. nFront Web Password Change has been tested and verified to work fine with SSL.

2.7 Customization

You can customize companyLogo.jpg to your liking. The new logo file should have the same name and a dimension of 200 by 65 pixels.

nFront Web Password Change stores its registry settings in the following location:
HKLM\Software\nFront Security\Web Password Change

*All REG_DWORD settings are 32-bit values

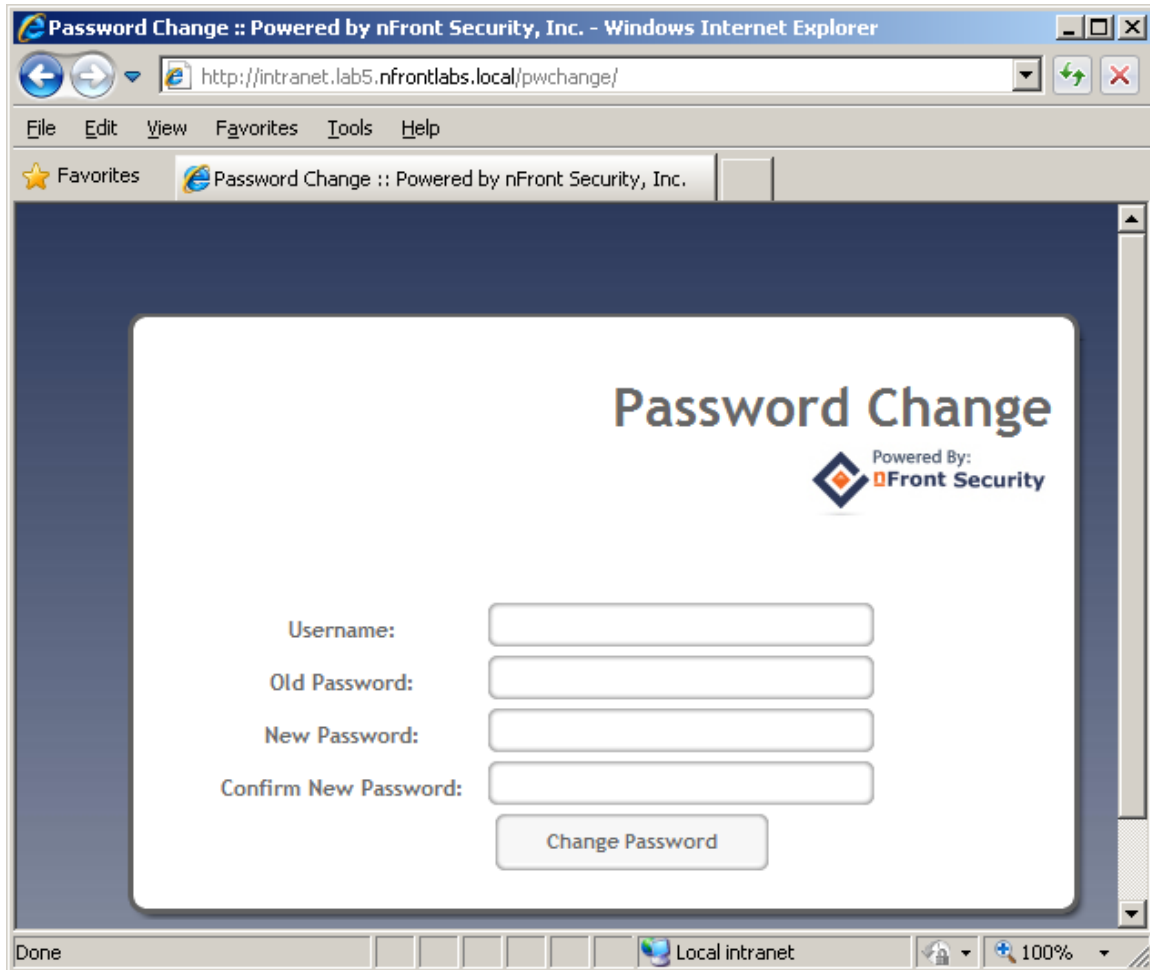
HKLM\Software\nFront Security\Web Password Change\displayTestButton, REG_DWORD	Set to 1 to show the test button. This exposes a button for the user to click to test their password against nFront rules. Please note the password fields will be erased after clicking the button so after testing the user will need to re-type their old and new password. This is a security issue and maintaining data in the fields after the form submission would present the opportunity for a security compromise.
HKLM\Software\nFront Security\Web Password Change\debug, REG_DWORD	Set to 1 to turn on debugging. This is only used to debug firewall issues. When a non-standard error is returned it will be displayed in the web browser. There is no debug log file or a running log to reference.
HKLM\Software\nFront Security\Web Password Change\successURL, REG_SZ	If you use a value like "www.cnn.com" the application will treat it like a relative URL and append it to the current URL. You must use "http://" to have the application treat it as an absolute URL.
HKLM\Software\nFront Security\Web Password Change\altUID, REG_DWORD	Modifies the interface to provide rules and failure message in the locale specified by altUID. Locales supported: 1031 – German 1036 – French 1040 – Italian 3082 - Spanish
HKLM\Software\Altus\PassfiltProClient\targetDC, REG_SZ	Forces the client to use a specific DC for the rules. Typically it uses the DC specified by the %logonserver% variable. This works well if you are testing an only have nFront Password Filter installed on 1 DC in a domain with many DCs. Do not include '\\\' in targetDC value.

2.8 FAQ

- Does the installation require a reboot? No.
- How can I tell it is installed or confirm the version I am running? It will display in Control Panel + Add/Remove Programs. You can click on the link marked "click here for support information" and a small dialog box with the version will be displayed.

3.0 The User Experience

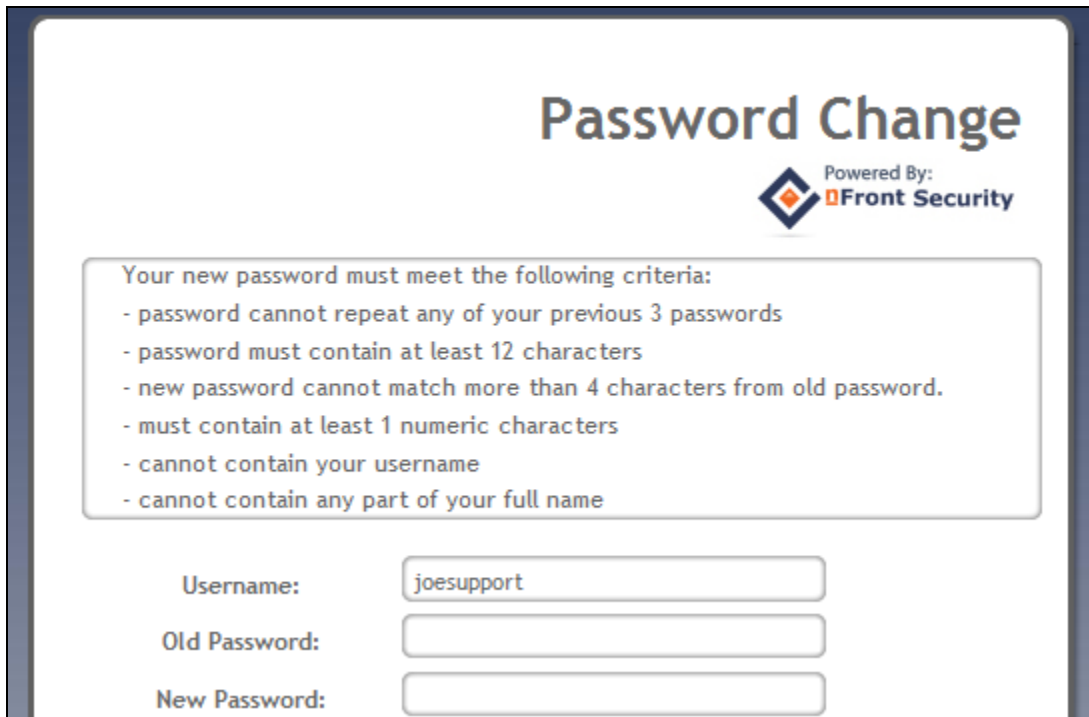
When the user visits the site URL they will see this initial page.



The screenshot shows a Windows Internet Explorer browser window titled "Password Change :: Powered by nFront Security, Inc. - Windows Internet Explorer". The address bar displays the URL "http://intranet.lab5.nfrontlabs.local/pwchange/". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The Favorites bar shows a single entry: "Password Change :: Powered by nFront Security, Inc.". The main content area features a dark blue background with a white rectangular form in the center. The form is titled "Password Change" in a large, bold, dark blue font. Below the title is the nFront Security logo, which consists of a blue diamond shape with an orange square inside, followed by the text "Powered By: nFront Security". The form contains four input fields with labels to their left: "Username:", "Old Password:", "New Password:", and "Confirm New Password:". Below these fields is a "Change Password" button. The browser's status bar at the bottom shows "Done", "Local intranet", and a zoom level of "100%".

Figure 3.1: The initial screen.

After typing in a username (and tabbing to another text box or hitting enter) the page will dynamically refresh and display the list of password requirements.



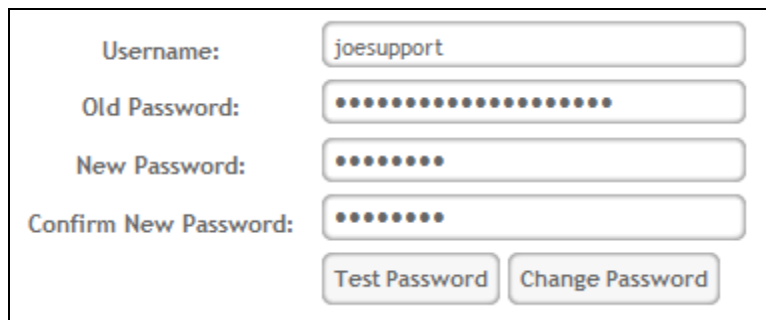
The screenshot shows a web interface titled "Password Change" with a logo for "Powered By: nFront Security". Below the title, a box lists the criteria for a new password:

- password cannot repeat any of your previous 3 passwords
- password must contain at least 12 characters
- new password cannot match more than 4 characters from old password.
- must contain at least 1 numeric characters
- cannot contain your username
- cannot contain any part of your full name

Below the list, there are three input fields: "Username:" with the value "joesupport", "Old Password:", and "New Password:".

Figure 3.2: The rules are displayed after you enter your username

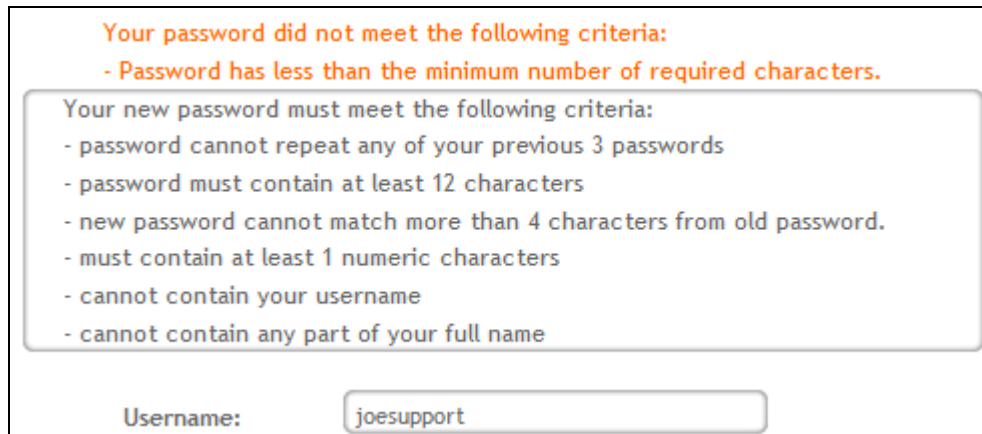
After filling in the fields the user can press the Change Password button or the Test Password button if you have enabled it (see Section 2.6 on customization).



The screenshot shows the same web interface as Figure 3.2, but with the "Old Password:", "New Password:", and "Confirm New Password:" fields filled with masked characters (dots). Below the "Confirm New Password:" field, there are two buttons: "Test Password" and "Change Password".

Figure 3.3: A Test Password button can be displayed.

If the new password fails any of the nFront password rules the reasons for failure are returned and appear in an orange font above the rules.

A screenshot of a web form for password change. At the top, an orange message box states: "Your password did not meet the following criteria: - Password has less than the minimum number of required characters." Below this, a white box with a grey border lists the password requirements: "Your new password must meet the following criteria: - password cannot repeat any of your previous 3 passwords - password must contain at least 12 characters - new password cannot match more than 4 characters from old password. - must contain at least 1 numeric characters - cannot contain your username - cannot contain any part of your full name". At the bottom, there is a "Username:" label and a text input field containing "joesupport".

Your password did not meet the following criteria:

- Password has less than the minimum number of required characters.

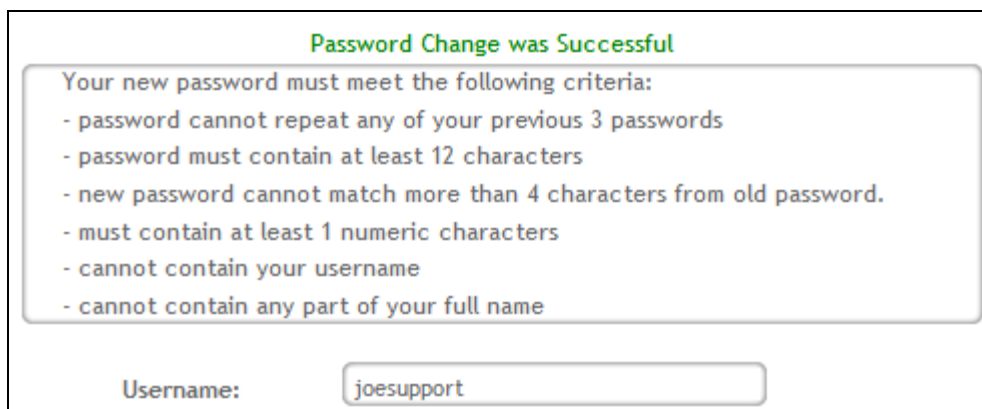
Your new password must meet the following criteria:

- password cannot repeat any of your previous 3 passwords
- password must contain at least 12 characters
- new password cannot match more than 4 characters from old password.
- must contain at least 1 numeric characters
- cannot contain your username
- cannot contain any part of your full name

Username:

Figure 3.4: Failure messages are posted above the rules.

If the password change is successful, a "Password Change was Successful" message will be displayed. You may also send the user to another web page by adding a "successURL" value to the registry of the web server. See section 2.6 on customization.

A screenshot of a web form for password change. At the top, a green message box states: "Password Change was Successful". Below this, a white box with a grey border lists the password requirements: "Your new password must meet the following criteria: - password cannot repeat any of your previous 3 passwords - password must contain at least 12 characters - new password cannot match more than 4 characters from old password. - must contain at least 1 numeric characters - cannot contain your username - cannot contain any part of your full name". At the bottom, there is a "Username:" label and a text input field containing "joesupport".

Password Change was Successful

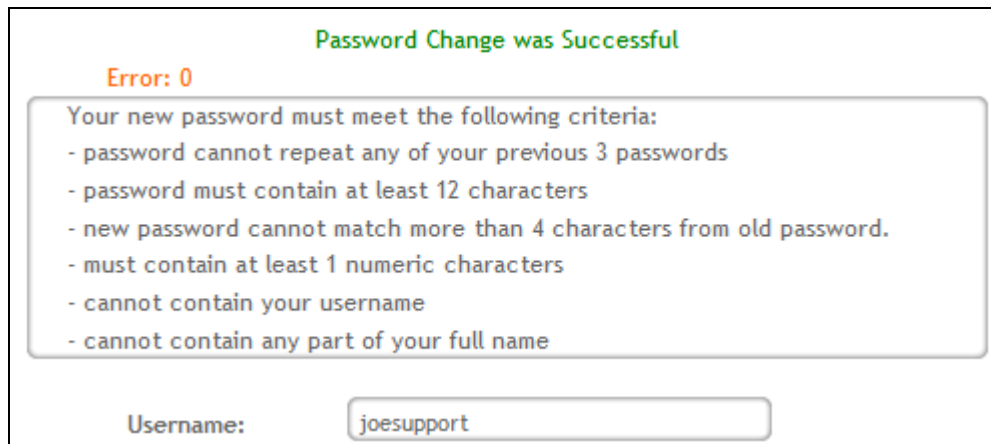
Your new password must meet the following criteria:

- password cannot repeat any of your previous 3 passwords
- password must contain at least 12 characters
- new password cannot match more than 4 characters from old password.
- must contain at least 1 numeric characters
- cannot contain your username
- cannot contain any part of your full name

Username:

Figure 3.5: Example of a successful password change.

If you have turned on debugging (see section 2.6), the error code will be displayed just below the status message. In this case the error is zero because the change was successful. The nFront Web Password Change captures most errors and returns the correct text to the end user. For example, if the old password is incorrect the new password may meet the nFront rules but the password change will not be successful. In such case we trap the error for the incorrect old password and tell the user the old password is not correct.



The screenshot shows a web interface for password change. At the top, a green message states "Password Change was Successful". Below this, an orange "Error: 0" label is present. A light gray box contains a list of password criteria. At the bottom, a "Username:" label is followed by a text input field containing the value "joesupport".

Password Change was Successful

Error: 0

Your new password must meet the following criteria:

- password cannot repeat any of your previous 3 passwords
- password must contain at least 12 characters
- new password cannot match more than 4 characters from old password.
- must contain at least 1 numeric characters
- cannot contain your username
- cannot contain any part of your full name

Username:

Figure 3.6: Password change with debugging turned on.

4.0 Registering your evaluation copy

The evaluation copy will display a red text message above the password rules and username field. The message is not displayed on a licensed copy.

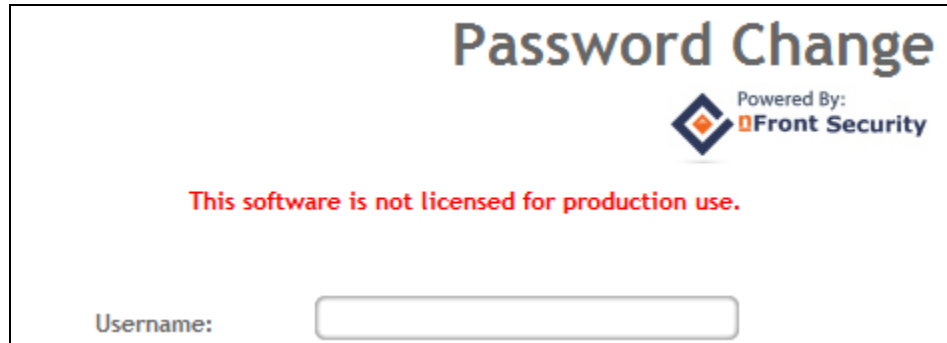


Figure 4.1: Example of evaluation version.

After purchasing your license you will receive an email with a registration code. Go to Start + All Programs + nFront Web Password Change + Registration. Enter your new registration code and the software will no longer display the licensing message when clients connect.

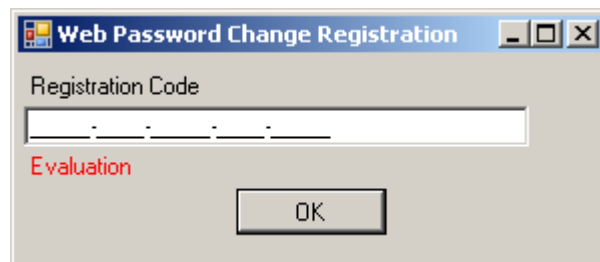


Figure 4.2: Registration dialog box.

5.0 Uninstall nFront Web Password Change

Control Panel + Programs + select nFront Web Password Change + uninstall.

Appendix A - nFront Web Password Change Debug Codes

Since the IIS application is running under the security context of the user sending debug information to a log file is not possible (without security concerns regarding users creating files on the IIS server). When the user clicks the Change Password Button we connect to the nFront Password Policy service on a domain controller to validate the password against nFront rules. If the password meets nFront requirements the regular Microsoft password change process is invoked and we attempt to trap any error codes returned.

Below is a list of error codes we trap. If you turn on debugging

Code	Error Displayed / Reason
5	Your account settings do not allow you to change your password.
86	Your old password is not correct."
1331	User account disabled.");
2245	Your new password has been used before or is less than the minimum password age.
1351	<p>The password change was not completed because the process is running under anonymous credentials. Please turn off Anonymous Authentication.</p> <p>This error is encountered when the web page is displayed via anonymous authentication. The virtual directory for the application should have authentication configure for :</p> <p>Anonymous Authentication: Disabled ASP.NET Impersonation: Enabled Windows Authentication: Enabled</p>
2221	<p>The password change was not completed because this process is running under the credentials of a trusted user outside of this domain.</p> <p>We have seen this error when the IIS app is in one domain and a user logged into another trusted domain in the forest goes to the web page. It occurs because the IIS process is doing impersonation using the trusted user from another domain. Since the app can only change passwords in the local domain it cannot and will not work for any users whose account exist in another domain (trusted or not trusted). If the user in the trusted domain uses another browser like Firefox he or she will be prompted for a username and password. If a user in the same domain as the IIS app is supplied the web page will allow a password change for that user.</p>