

# Agent Installation Guide

## ZENworks Patch Management 6.4 SP2





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# Notices

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## Version Information

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# Preface

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## About This Document

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This User Guide is a resource written for all users of Novell ZENworks Patch Management 6.4 SP2. This document defines the concepts and procedures for installing, configuring, implementing, and using Novell ZENworks Patch Management 6.4 SP2.

**Tip:** Novell documentation is updated on a regular basis. To acquire the latest version of this or any other published document, please refer to the *Novell Documentation Web page* (<http://www.novell.com/documentation/>).

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## Typographical Conventions

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The following conventions are used throughout this documentation to help you identify various information types.

| Convention                 | Usage  |
|----------------------------|--|
| <b>bold</b>                | Buttons, menu items, window and screen objects.                                    |
| <b><i>bold italics</i></b> | Wizard names, window names, and page names.  |
| <i>italics</i>             | New terms, options, and variables.   |
| UPPERCASE                  | SQL Commands and keyboard keys.  |
| <i>monospace</i>           | File names, path names, programs, executables, command syntax, and property names. |

## Contacting Novell

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The following table lists the available technical support options.

|  |   |
|--|---|
| <b>Call Novell Support</b><br>Phone: +1 800.858.4000 | <b>Web Support</b><br><a href="http://www.novell.com/support">http://www.novell.com/support</a> |
|--|---|





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# Chapter 1

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## Preparing for Agent Installation

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### In this chapter:

- *Installation Methods*
- *Agent Supported Operating Systems*
- *Agent Supported Languages*
- *Agent System Requirements*

Having successfully installed your Patch Management Server, you can now proceed to the installation of your Patch Management Agents. Following installation, the agent is monitored and maintained by the Patch Management Server, requiring no additional 'on-site' maintenance.

## Installation Methods

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Patch Management Agents can be deployed using any one, or combination, of the following methods.

Table 1: Installation Options

| Installation Type                                  | Description   |
|--|---|
| Singe Agent Installer for pre-Windows Vista        | Allows you to run the installer, entering the information as prompted. You can also modify the Microsoft Software Installer (.msi) file, using an MSI editor, to include your organization's configuration. The file can then be delivered by using a login script, Active Directory Group Policy Object (GPO), or other remote software installation method. |
| Single Agent Installer for pre-Windows Vista (x64) | Allows you to run the installer, entering the information as prompted. You can also modify the Microsoft Software Installer (.msi) file, using an MSI editor, to include your organization's configuration. The file can then be delivered by using a login script, Active Directory Group Policy Object (GPO), or other remote software installation method. |

| Installation Type  | Description   |
|--|---|
| Single Agent Installer for Windows Vista   | Allows you to run the installer, entering the information as prompted. You can also modify the Microsoft Software Installer (.msi) file, using an MSI editor, to include your organization's configuration. The file can then be delivered by using a login script, Active Directory Group Policy Object (GPO), or other remote software installation method. |
| Single Agent Installer for Windows Vista (x64)   | Allows you to run the installer, entering the information as prompted. You can also modify the Microsoft Software Installer (.msi) file, using an MSI editor, to include your organization's configuration. The file can then be delivered by using a login script, Active Directory Group Policy Object (GPO), or other remote software installation method. |
| Single Agent Installer for Mac   | Allows you to run the installer, entering information as prompted.  |
| Single Agent Installer for Linux/Unix/Mac  | Allows you to run the installer, entering the information as prompted. You can also perform a silent installation using <i>rsh</i> or <i>ssh</i> .  |
| <p><b>Note:</b> Regardless of the installation method it is vital that, when installing agents, you enter the same serial number that was used to install your server. Failure to do so could lock out the <i>PLUS_AGENT</i> user account, disabling <b>all</b> agent communication.</p> |   |

## Agent Supported Operating Systems

The following table lists the supported platforms on which the Patch Management Agent 6.4 SP2 is supported.

Table 2: Agent Supported Operating Systems

| Operating System | OS Versions   | OS Edition | OS Data Width | Proc. Family       | Proc. Data Width | Min. JRE |
|------------------|---------------|------------|---------------|--------------------|------------------|----------|
| Apple Mac OS X   | 10.3 - 10.5.x | All        | 32/64 bit     | x86(Intel)/PowerPC | 32/64 bit        | 1.4.0    |
| HP-UX            | 11.00 - 11.31 | All        | 64 bit        | PA-RISC            | 64 bit           | 1.4.0    |
| IBM AIX          | 5.1 - 6.1     | All        | 32/64 bit     | PowerPC            | 32/64 bit        | 1.4.0    |

| Operating System                             | OS Versions | OS Edition                                   | OS Data Width | Proc. Family  | Proc. Data Width | Min. JRE |
|--|-------------|--|---------------|---------------|------------------|----------|
| Microsoft Windows XP                         | All         | Pro <sup>(1)</sup>                           | 32/64 bit     | x86           | 32/64 bit        | N/A      |
| Microsoft Windows Vista <sup>(3)</sup>       | All         | Business<br>Enterprise<br>Ultimate           | 32/64 bit     | x86           | 32/64 bit        | N/A      |
| Microsoft Windows Server 2008 <sup>(3)</sup> | All         | Web <sup>(2)</sup><br>Standard<br>Enterprise | 32/64 bit     | x86           | 32/64 bit        | N/A      |
| Novell Netware                               | 6.5         | All  | 32 bit        | x86           | 32 bit           | 1.3.0    |
| Novell SUSE Linux                            | 9 -10       | Enterprise                                   | 32/64 bit     | x86           | 32/64 bit        | 1.4.0    |
| Red Hat Linux                                | 3 - 5       | Enterprise<br>AS, ES, WS                     | 32/64 bit     | x86           | 32/64 bit        | 1.4.0    |
| Sun Solaris                                  | 8 - 10      | All  | 32/64 bit     | SPARC/<br>x86 | 32/64 bit        | 1.4.0    |

(1) Home, Media Center, and Tablet PC editions are not supported.

(2) The Datacenter and Core Editions of this OS family are not supported.

(3) Windows Vista and Windows Server 2008 support requires .NET 3.0.

**Note:** Red Hat Enterprise Linux and Sun Solaris support requires additional configuration steps. Please refer to the *Supporting Red Hat Enterprise and Sun Solaris Agents* section of the ZENworks Patch Management 6.4 SP2 User Guide for additional details.

## Agent Supported Languages

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ZENworks Patch Management Agent 6.4 SP2 is supported on the following languages:

- en-AU: English (Australia)
- en-BZ: English (Belize)
- en-CA: English (Canada)
- en-JM: English (Jamaica)
- en-NZ: English (New Zealand)
- en-ZA: English (South Africa)
- en-GB: English (United Kingdom)
- en-US: English (United States)
- es-ES: Spanish (Spain)
- fi-FI: Finnish (Finland)
- fr-FR: French (France)
- de-DE: German (Germany)
- it-IT: Italian (Italy)
- ja-JP: Japanese (Japan)
- ko-KR: Korean (Korea)
- nl-NL: Dutch (Netherlands)
- pt-BE: Portuguese (Brazil)
- sv-SE: Swedish (Sweden)
- zh-CN: Chinese (Simplified)
- zh-CHS: Chinese (Simplified)
- zh-TW: Chinese (Traditional)
- zh-CHT: Chinese (Traditional)

## Agent System Requirements

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The following section lists the hardware and software requirements for the Patch Management 6.4 SP2 Agent.

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**Note:** You must disable any virus-scanning software prior to the installation of the Patch Management Agent. Failure to do so may result in an unsuccessful agent installation.

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## Agent for Windows

The Agent for Windows system requirements are as follow.

- Local or Domain Administrator or administrator equivalent user rights.

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**Note:** The install (and uninstall) must be done by an Administrator or administrator equivalent user.

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- A 500 MHz Processor or higher.
- Minimum of 256 MB of RAM.
- Minimum of 20 MB of free disk space for installation.
- Sufficient free space to download and install patches (varies dependent upon the size of the patch).
- Windows Installer 2.0 or higher.
- Microsoft Internet Explorer 5.01 or higher (Internet Explorer 5.5 or higher if using SSL).
- 10 Mbps network connection to your Patch Management Server (6.4 SP2 or higher).

## Agent for Linux, Unix, and Mac

The Agent for Linux, UNIX, and Mac system requirements are as follow.

- Superuser privileges on the target computer.

---

**Note:** The install (and uninstall) must be done by the root user (superuser).

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- Minimum of 2 MB free disk space for the text-based installation.
- Minimum of 20 MB free disk space for the graphical installation.
- A 500 MHz Processor or higher.
- Minimum of 256 MB of RAM.
- 10 Mbps network connection to your Patch Management Server (6.4 SP2 or higher)
- Sufficient free space to download and install patches (varies dependent upon the size of the patch).
- Presence of */tmp* directory (*/var/tmp* directory on Solaris) for temporary file storage and processing.

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**Note:** There must be no whitespaces (such as a space, tab, or newline character) in the absolute path of the installation directory.

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# Chapter 2

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## Installing Agents

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### In this chapter:

- *Downloading the Installer*
- *Installing the Agent for Windows*
- *Installing the Agent for Windows Vista and Windows 2008*
- *Installing the Agent for Linux, Unix, and Mac*
- *Installing the Agent for Mac*

This section includes the following instructions for installing the Patch Management Agent.

- *Downloading the Installer* on page 15.
- *Installing the Agent for Windows* on page 16.
- *Installing the Agent for Windows Vista and Windows 2008* on page 19.
- *Installing the Agent for Linux, Unix, and Mac* on page 21.
- *Installing the Agent for Mac* on page 22.

## Downloading the Installer

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The standard agent install requires logging into the Patch Management Server administration console from the target computer then downloading the installer to that computer.

1. Log on to the target computer as the local administrator or a member of the *LOCAL\_ADMINS* group (root or superuser on Linux, UNIX, Mac systems).
2. Launch your web browser.
3. Type your server URL in your web browser's **Address** field.
4. Press **ENTER**.
5. Type your user name in the **User Name** field.
6. Type your password in the **Password** field.
7. Click **OK**.

**Step Result:** The *ZENworks Patch Management Server Home* page opens.

8. Select **Devices**.

## 9. Click **Install**.

**Step Result:** The *Agent Installers* window opens.

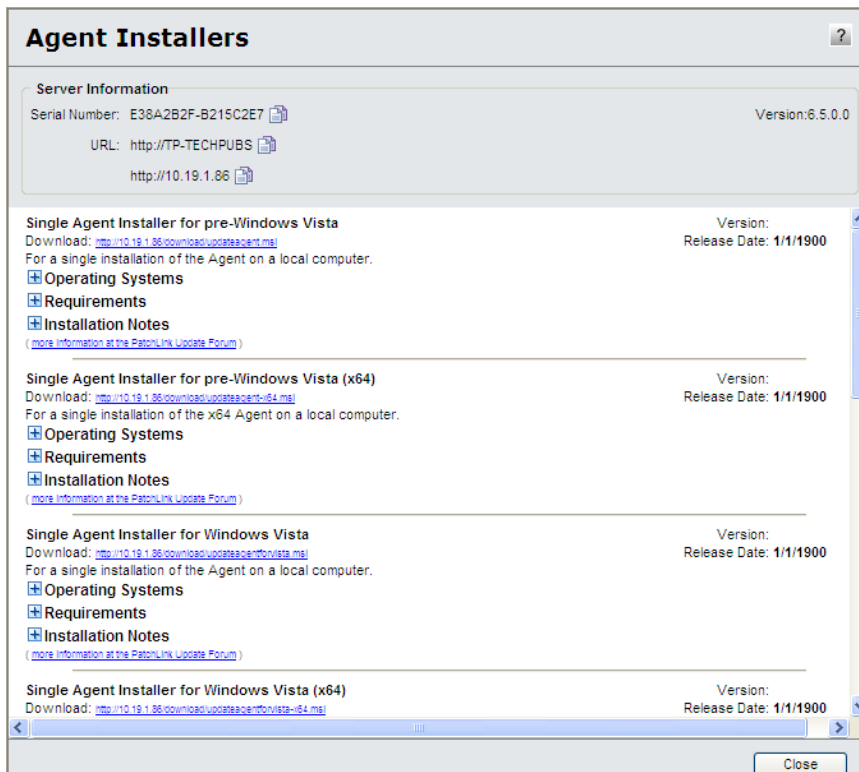


Figure 1: Agent Installers

## 10. Select the download link corresponding with the installer you need.

## 11. Click **Save**.

**Step Result:** The installer downloads to the location you specify.

## Installing the Agent for Windows

The following steps apply to both the Single Agent Windows MSI Installer and the Single Agent Windows x64 MSI Installer. To install the agent for Windows Vista, refer to *Installing the Agent for Windows Vista and Windows 2008* on page 19.

1. From the download location, select the *updateagent.msi* to extract the **ZENworks Patch Management Agent for Windows Install Shield Wizard**.



2. Click **Next**.

**Step Result:** The *License Agreement* page opens.

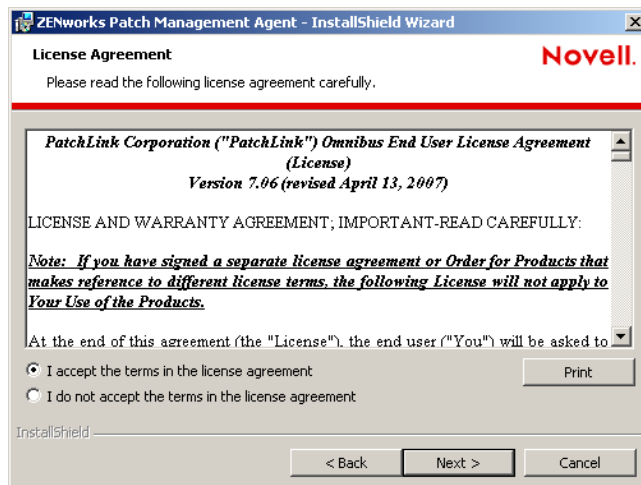


Figure 2: License Agreement Page

3. If you agree to the license terms select the **I accept the terms in the license agreement** option.
4. Click **Next**.

**Step Result:** The *Destination Folder* page opens.

5. If desired, change the agent installation folder.
  - a) Click **Change**.

**Step Result:** The *Change Current Destination Folder* window opens.

- b) Browse to the desired destination folder.
- c) Click **OK**.

**Step Result:** The *Change Current Destination Folder* window closes, returning to the *Destination Folder* page with the new location selected.

6. Click **Next**.

**Step Result:** The *Agent Registration* page opens.

7. Type the appropriate URL, including the protocol (*http://ServerAddress* or *https://ServerAddress* for a secure server), in the **Patch Management Server URL** field.

8. Type your serial number in the **Patch Management Server Serial Number** field.

---

**Important:** Be sure to use the same serial number that was used for the installation of your Patch Management Server. Otherwise, the agent will be unable to communicate with the server.

---

9. If your LAN users a proxy server:
  - a) Select **Use a Proxy Server**.

**Step Result:** The *Proxy Information* window opens.

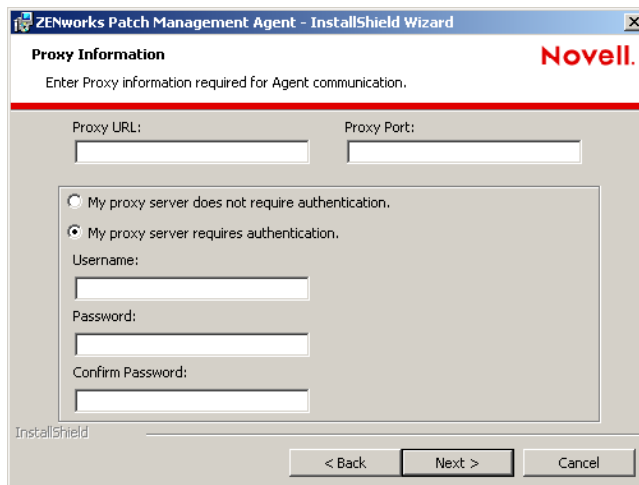


Figure 3: Proxy Information Page

- b) Type the proxy URL in the **Proxy URL** field.
- c) If required, type the proxy port in the **Proxy Port** field.
- d) If you are using an authenticated proxy, select the **My proxy server requires authentication** option.
- e) Type the required proxy user name in the **User Name** field.
- f) Type the associated password in the **Password** and **Confirm Password** fields.

---

**Note:** In many LAN environments, although a proxy is used for internet access, a proxy bypass is used for all internal access. Therefore, only enter proxy information if your agents will be required to use a proxy when accessing your Patch Management Server.

---

10. Click **Next**.

**Step Result:** The *Ready to Install the Program* page opens.

## 11. Click **Install**.

**Step Result:** The agent is installed and when complete the **Installation Complete** page opens.

## 12. Click **Finish** to exit the wizard.

# Installing the Agent for Windows Vista and Windows 2008

The following steps apply to both the Single Agent for Windows Vista and Windows 2008 MSI Installer and the Single Agent for Windows Vista and Windows 2008 x64 MSI Installer. To install the agent for pre-Windows Vista, refer to *Installing the Agent for Windows* on page 16.

1. From the download location, select the *updateagentforvista.msi* to extract the **ZENworks Patch Management Agent for Windows Vista Install Shield Wizard**.
2. Click **Next**.

**Step Result:** The **License Agreement** page opens.

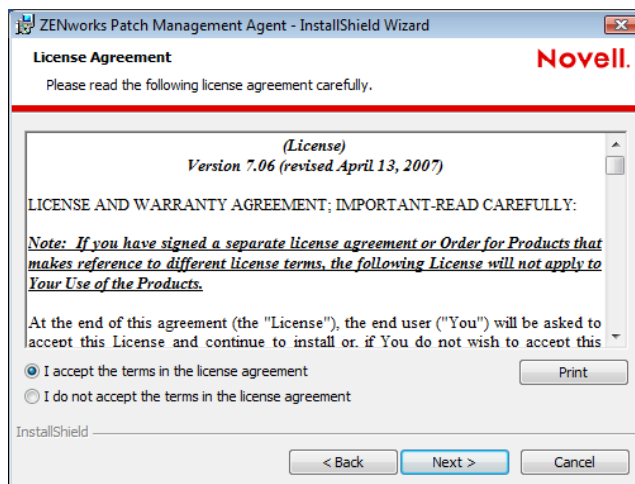


Figure 4: License Agreement Page

3. If you agree to the license terms select the **I accept the terms in the license agreement** option.
4. Click **Next**.  
**Step Result:** The **Destination Folder** page opens.
5. If desired, change the agent installation folder.

- a) Click **Change**.

**Step Result:** The **Change Current Destination Folder** window opens.

- b) Browse to the desired destination folder.
- c) Click **OK**.

**Step Result:** The **Change Current Destination Folder** window closes, returning to the **Destination Folder** page with the new location selected.

6. Click **Next**.

**Step Result:** The **Agent Registration** page opens.

7. Type the appropriate URL, including the protocol (*http://ServerAddress* or *https://ServerAddress* for a secure server), in the **Patch Management Server URL** field.
8. Type your serial number in the **Patch Management Server Serial Number** field.

---

**Important:** Be sure to use the same serial number that was used for the installation of your Patch Management Server. Otherwise, the agent will be unable to communicate with the server.

---

9. If your LAN users a proxy server:

- a) Select **Use a Proxy Server**.

**Step Result:** The **Proxy Information** window opens.

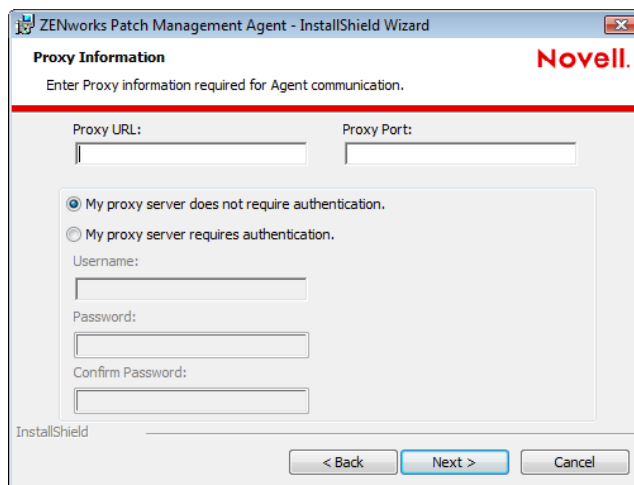


Figure 5: Proxy Information Page

- b) Type the proxy URL in the **Proxy URL** field.
- c) If required, type the proxy port in the **Proxy Port** field.

- d) If you are using an authenticated proxy, select the **My proxy server requires authentication** option.
- e) Type the required proxy user name in the **User Name** field.
- f) Type the associated password in the **Password** and **Confirm Password** fields.

---

**Note:** In many LAN environments, although a proxy is used for internet access, a proxy bypass is used for all internal access. Therefore, only enter proxy information if your agents will be required to use a proxy when accessing your Patch Management Server.

---

10. Click **Next**.

**Step Result:** The *Ready to Install the Program* page opens.

11. Click **Install**.

**Step Result:** The agent is installed and when complete the *Installation Complete* page opens.

12. Click **Finish** to exit the wizard.

## Installing the Agent for Linux, Unix, and Mac

---

Prior to installing the Agent, you must ensure that the currently installed Java version meets the requirements defined under *Agent Supported Operating Systems* on page 10.

After ensuring the computer contains an appropriate version of Java, complete the following steps to install the Agent.

1. In the */root* directory, create an *UnixUpdateAgent* directory.
2. From the downloaded location, select the *UnixUpdateAgent.tar* and extract the file's contents to the */root/UnixUpdateAgent* directory.
3. Open a Terminal Window.
4. Navigate to the */root/UnixUpdateAgent* directory.
5. Type *./install* to start the installation process.
6. At the **Enter the Directory where Patch Management Agent should be installed [usr/local]:** prompt, type the desired installation path or press *ENTER* to accept the default path of */usr/local*.
7. At the **Please enter a name for this machine:** prompt, type a name for the machine on which you are installing the agent.
8. At the **Enter your Patch Management Server Address:** prompt, type the URL or IP of your Patch Management Server, to which the agent will be communicating.

Enter the server address in the format *http://ServerAddress* or *https://ServerAddress*

- At the **Enter the product serial number that appears as xxxxxxxx-xxxxxxx:** prompt, type your serial number.

---

**Note:** You must enter your serial number in the xxxxxxxx-xxxxxxx format.

---

- At the **Do you have a Proxy [Y/N]:** prompt, type *y* to configure a proxy, or press *ENTER* to continue without a proxy.

- At the **Do you wish to add this agent to existing groups on “ZENworks Patch Management Server”?** [Y/N]: prompt, type *y* to add the agent to a group or *n* to continue.

**Result:** The installation completes and the terminal link can be disconnected.



---

**Caution:** Some issues when installing the Agent for Linux, Unix, Mac may include: An incorrect server address (if using SSL, the URL starts with *https://*), An incorrect serial number, Networking problems, or An incorrect proxy address or port.

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## Installing the Agent for Mac

---

The following steps apply to the Graphical Single Agent Installer for Mac.

- From the downloaded location, select the *updateagentformac.dmg* to extract the **Agent for Mac Installer**.
- When the installer opens, enter your system *password*.

**Step Result:** The **Introduction** page opens.



Figure 6: Agent for Mac Installer - Introduction

3. Click **Next**.

**Step Result:** The *License Agreement* page opens.



Figure 7: Agent for Mac Installer - License Agreement

4. If you agree to the license terms, select the **I accept the terms of the License Agreement** option.

5. Click **Next**.

**Step Result:** The *Enter Root Password* page opens.

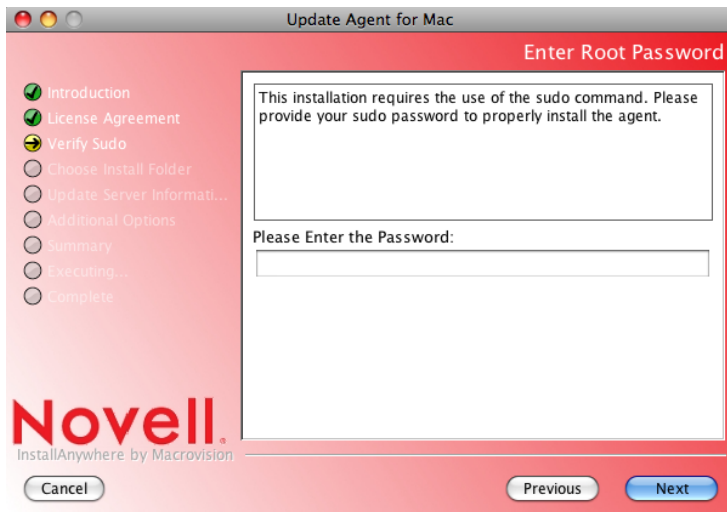


Figure 8: Agent for Mac Installer - Enter Root Password

6. Enter your system password in the **Please Enter the Password** field.

---

**Note:** This is the same password that you entered in step 2.

---



7. Click **Next**.

**Step Result:** The **Choose Install Folder** page opens.



Figure 9: Agent for Mac Installer - Choose Install Folder

## 8. To change the install location:

a) Click **Choose**.

**Step Result:** The **Finder** window opens.

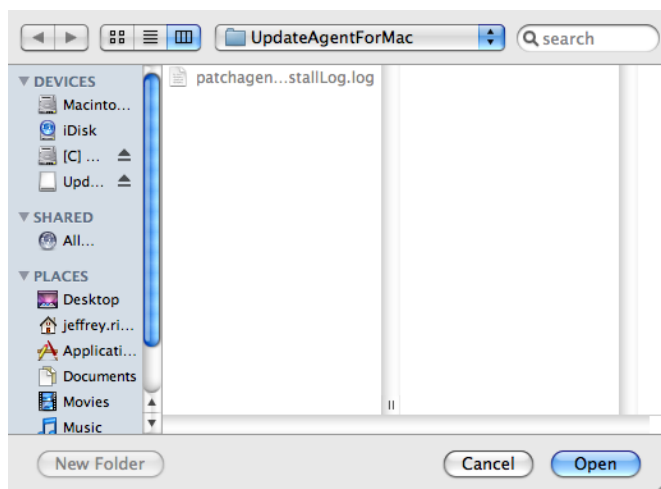


Figure 10: Mac Finder Window

- b) Browse to and select the desired location.
- c) Click **Open**.

9. Click **Next**.

**Step Result:** The **ZENworks Patch Management Server Information** page displays.

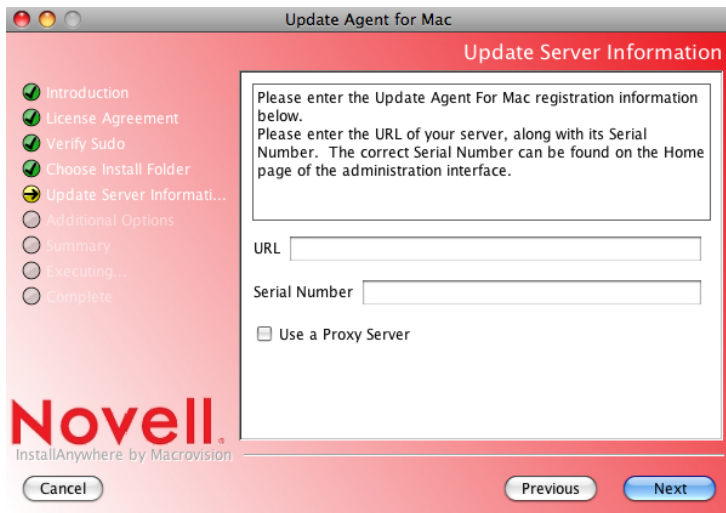


Figure 11: Agent for Mac Installer - Patch Management Server Information

10. Type the appropriate *URL* in the **Patch Management Server URL** field.

---

**Note:** You must also include the protocol (*http://* or *https://*) when entering the server URL.

---

11. Type your *serial number* in the **Patch Management Server Serial Number** field.

---

**Note:** Use the same serial number that was used for the installation of your Update Server otherwise the agent will be unable to communicate with the server.

---

12. If your LAN uses a proxy server:

- a) Select the **Use a Proxy Server** option.

b) Click **Next**.

**Step Result:** The **Proxy Configuration** page opens.

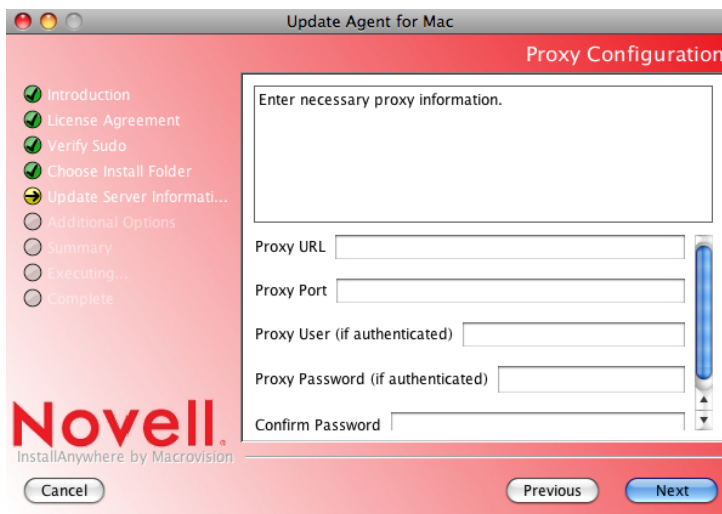


Figure 12: Agent for Mac Installer - Proxy Configuration

- c) In the **Proxy URL** field, type the proxy *URL*.
- d) In the **Proxy Port** field, type the proxy *port* (if one is required).
- e) If you are using an authenticated proxy, type the proxy server *user name* in the **Proxy User (if authenticated)** field.
- f) Type the proxy user's *password* in the **Proxy Password (if authenticated)** and **Confirm Password** fields.

**13. Click Next.**

**Step Result:** The **Additional Options** page opens.

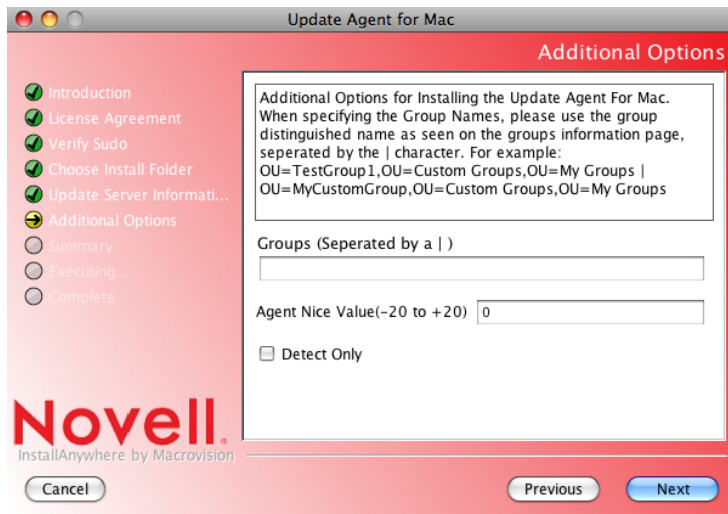


Figure 13: Agent for Mac Installer - Additional Options

- 14.** To optionally add the agent to specific device groups, enter the names of the groups in the **Groups** field. Separating multiple groups using a pipe (|) symbol.
- 15.** To optionally set the operating system's prioritization value for the ZENworks Patch Management Agent, enter a value in the **Agent Nice Value** field.
- 16.** To optionally configure the agent so that although it is detectable, it cannot receive deployments, select the **Detect Only** option.

17. Click **Next**.

**Step Result:** The *Pre-Installation Summary* page opens.

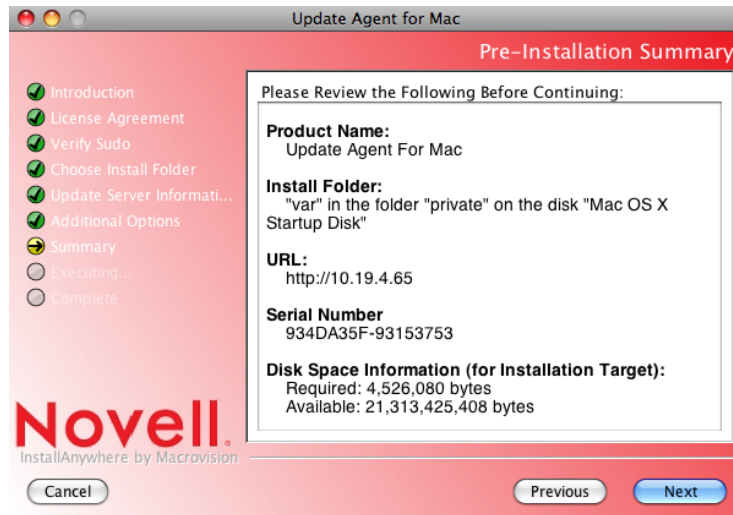


Figure 14: Agent for Mac Installer - Pre-Installation Summary

18. Verify the accuracy of the summary information and click **Next** to begin the installation.

**Step Result:** When the installation completes, the *Install Complete Success* page displays.

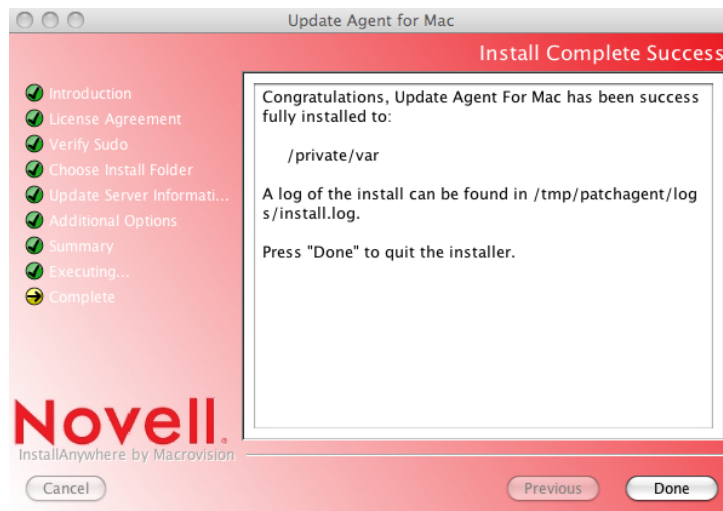


Figure 15: Agent for Mac Installer - Install Complete Success

**19.** Click **Done** to exit the installation wizard.

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# Chapter 3

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## Automating the Agent Installation

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### In this chapter:

- *Automating the Windows MSI Installer*
- *Performing a Silent Install From a Command Prompt*

The following section includes instructions for automating the installation of the ZENworks Patch Management Agent.

### Automating the Windows MSI Installer

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The Single Agent Windows MSI Installer can be used to perform a single installation on the current computer or through the use of the MSI Installer, Group Policy Objects (GPOs), and the **Orca** package editor on multiple computers. Using these tools you can install the Update Agent on all windows computers within your domain.

To use the MSI installer with Group Policy Objects you must:

1. Create a network share.  
(See *Creating a Network Share* on page 32 for additional information.)
2. Modify the Single Agent Windows MSI Installer (.msi) file.  
(See *Modifying the MSI File* on page 32 for additional information.)
3. Create an Organizational Unit.  
(See *Creating an Organizational Unit* on page 36 for additional information.)

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**Note:** Microsoft Group Policy Object (GPO) allows for mandatory software distribution to computers under control of a particular Organizational Unit (OU) and can be used to distribute the Patch Management Agent. However, the GPO installation does not check for an existing installation of the agent on the target computer and will reinstall the agent on any computers in the OU. In order to avoid potential problems caused by reinstalling the agent, ensure that computers with existing Patch Management Agents are NOT members of the OU which contains the ZENworks Patch Management software GPO.

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## Creating a Network Share

Create a network share (with Read-Only access) from which all users will be able to access and install the Patch Management Agent using the MSI installer.

1. Create the *NovellMSI* folder on a network computer.
2. Share the *NovellMSI* folder, granting *Everyone* Read access, and *Domain Admins* Full Control.
3. Copy the *updateagent.msi*, from downloaded location, into the *NovellMSI* folder.

## Modifying the MSI File

To fully automate the Agent installation you must modify the MSI file to include your Host Name and Serial Number. Microsoft Orca allows you to make changes to the application so your users will not have to manually enter their name and serial number for their installs. This also allows the application to be installed remotely.

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**Note:** Modifying the digitally signed MSI file will invalidate the digital signature assigned by Novell. Depending upon your security settings, this may introduce security warnings and restrictions during the agent installation.

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The user modifiable installer properties are defined in the following table:

1. Install Microsoft Orca (or a similar MSI editor) to your management workstation.

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**Note:** Orca is installed from the Microsoft Windows Installer SDK which can be downloaded from <http://msdn.microsoft.com/en-us/library/aa370557.aspx>.

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2. Select **Start > Programs > Orca** to open Microsoft Orca.



- Open the *updateagent.msi* file that you copied to the network share.

**Step Result:** Orca displays the *updateagent.msi* file.

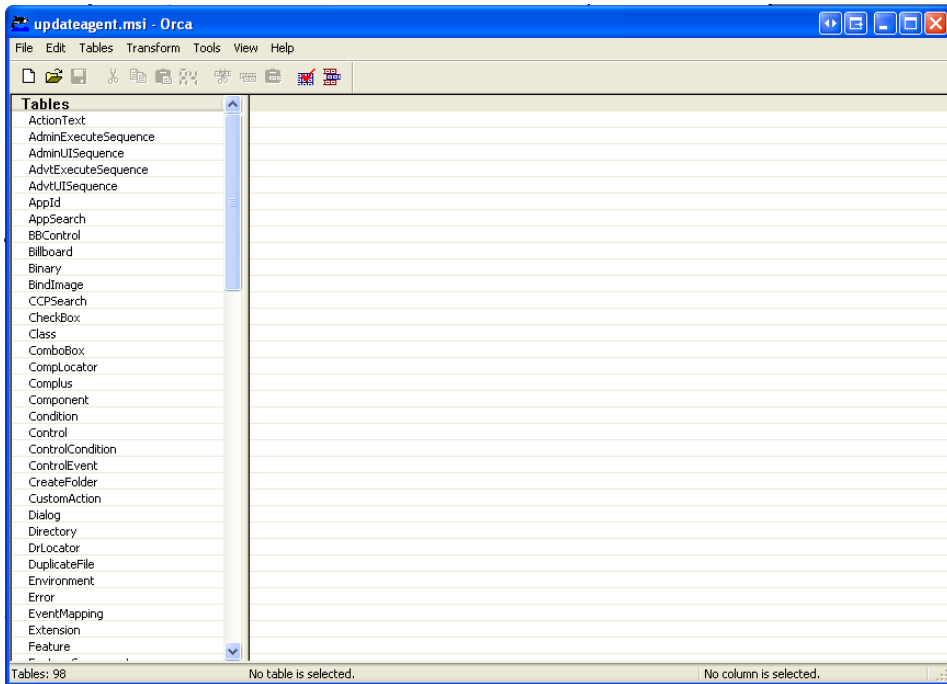


Figure 16: Microsoft Orca

- Scroll through the **Tables** list and select the *Property* table.

**Step Result:** The **Rows** field populates with the rows associated with the *Property* table.

- Locate the *Host* row, and click the **Value** field.

**Step Result:** The **Value** field is activated and can be edited.

- Type the Patch Management Server URL, as *http://ServerName* (or *https://ServerName* if using SSL), in the **Value** field.

7. Locate the *Serial* row, and click the **Value** field.

**Step Result:** The **Value** field is activated and can be edited.

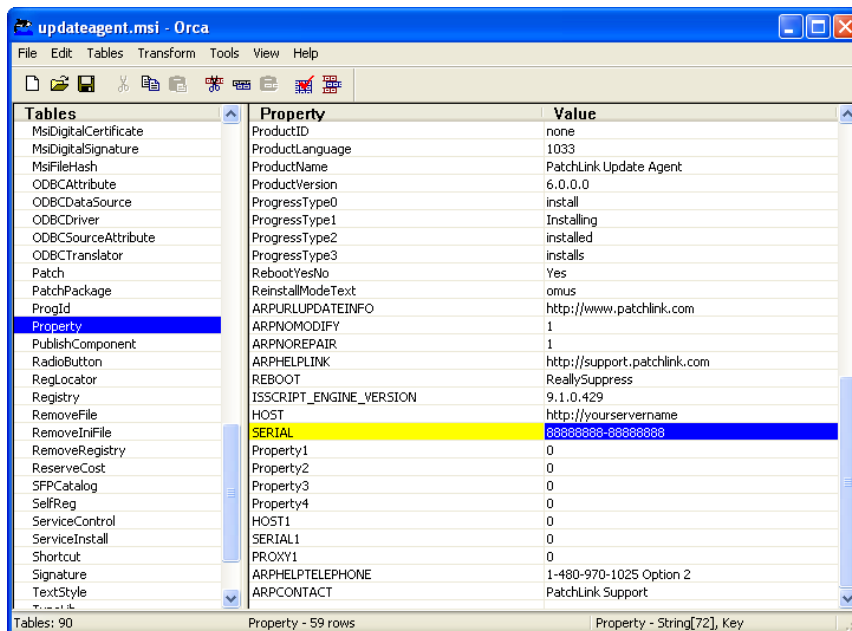


Figure 17: Orca - Enter Serial Number

8. Type your Patch Management Server Serial Number in the **Value** field.

9. If you are using a proxy server, add the necessary proxy entries as follows:

- a) Right-click in the right window pane and select **Add Row**.

**Step Result:** The **Add Row** dialog box opens.

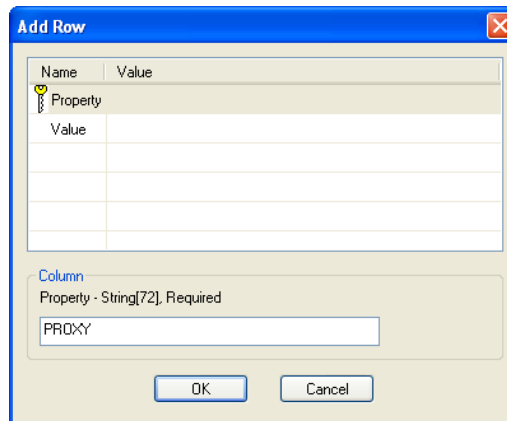


Figure 18: Orca - Add Row

- b) Enter *useproxy* as the **Property** column field.  
 c) Select **Value**, and type *1* to indicate that a proxy is in use.  
 d) Click **OK**.

**Step Result:** The *Proxy* row is added to the *Property* table.

10. Repeat step 9, adding additional rows as needed for the following proxy entries.

| Property         | Value   |
|------------------|---|
| <b>useproxy</b>  | <i>1</i>  |
| <b>proxyurl</b>  | <i>http://YourProxyServer:ProxyPort</i>         |
| <b>proxyuser</b> | Login user, for authenticated proxy.            |
| <b>proxypass</b> | Login user's password, for authenticated proxy. |

11. To automatically add the agent to an existing group, add the following entry:

- a) Right-click in the right window pane and select **Add Row**.

**Step Result:** The **Add Row** dialog box opens.

- b) Enter *group*list as the **Property** column field.  
 c) Select **Value**, and enter the group names.

Type the group names as: "*GroupName1;GroupName2;GroupNameN*".

d) Click **OK**.

**Step Result:** The *grouplist* row is added to the *Property* table.

12. Click **Save**.

**Step Result:** The changes are saved to the *updateagent.msi* file.

13. Exit Microsoft Orca.

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### After Completing This Task:

You can now use the *updateagent.msi* file to manually install the Patch Management Agent by browsing, from the target computer, to the network share you created and manually opening the file.

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## Creating an Organizational Unit

1. Click **Start > Administrative Tools > Active Directory Users and Computers**.

**Step Result:** The *Active Directory Users and Computers* management console opens.

2. Right-click the domain tree (*mydomain.com*) and select **New > Organizational Unit**.

**Step Result:** The ***New Object - Organizational Unit*** window opens.

3. In the **Name** field, type a name for your Organizational Unit (OU).

4. Click **OK**.

**Step Result:** The ***New Object - Organizational Unit*** window closes, returning to the ***Active Directory Users and Computers*** management console.

5. Right-click the new OU and select **Properties**.

**Step Result:** The OU *Properties* window opens.

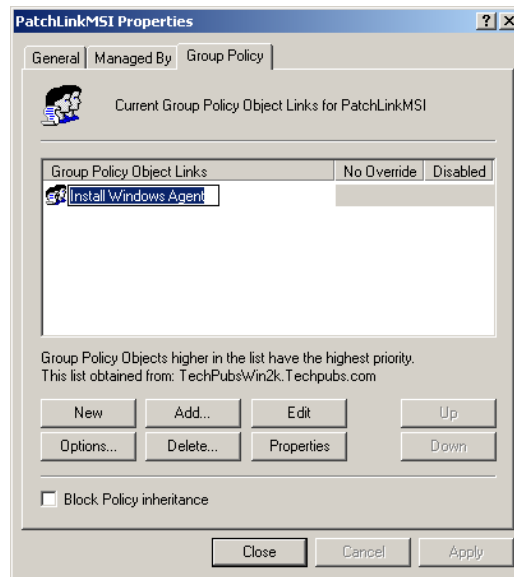


Figure 19: Organizational Unit Properties

6. Select the **Group Policy** tab.
7. Click **New** and type a name for the new group policy.

8. Select your new *Group Policy* and click **Edit**.

**Step Result:** The *Group Policy Editor* opens.

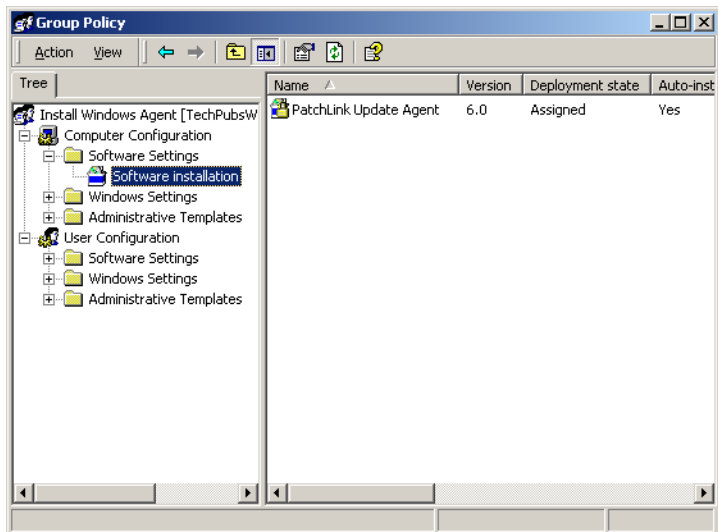


Figure 20: Group Policy Editor

9. Expand the *Software Settings* sub-branch of the *Computer Configuration* branch.

10. Right-click *Software Installation* and select **Properties**.

**Step Result:** The ***Software Installation Properties*** window opens.

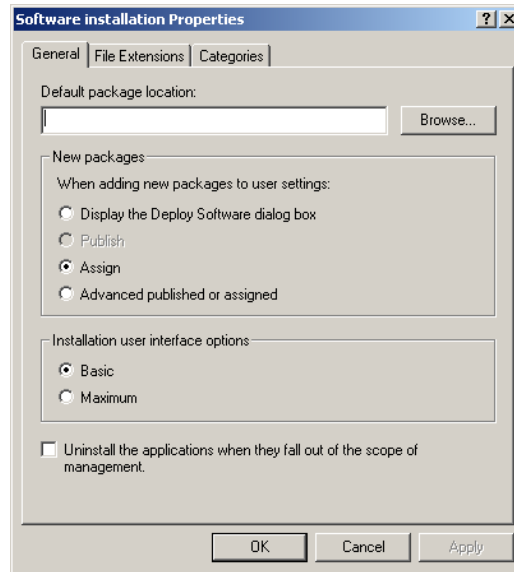


Figure 21: Software Installation Properties - General Tab

11. Select the **General** tab.

12. Select **Assign**.

13. Select **Uninstall the applications when they fall out of the scope of management**.

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**Note:** If using Windows 2003, the **Uninstall the applications when they fall out of the scope of management** option is on the **Advanced** tab.

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14. Click **OK**.

**Step Result:** The ***Software Installation Properties*** window closes.

15. Right-click *Software Installation* and select **New > Package**.

16. Browse to the shared folder you created earlier, and select the modified *updateagent.msi* file.

17. Close the **Group Policy Editor** and click **Close**.

18. In the **Active Directory Users and Computers** management console, select the Computers branch of your domain tree.

19. Select the computers to be added to the new OU.

20. Right-click the computers and select **Move...**

**Step Result:** The **Move** window opens.

21. Select your new OU.

22. Close the **Active Directory Users and Computers** management console.

## Performing a Silent Install From a Command Prompt

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In addition to the Patch Management Server URL (or IP) and Serial Number, you can also define a Proxy and Auto-Assign groups when performing a silent install of the Patch Management Agent.

### Installing the Windows Agent

From a command line, the following user modifiable properties can be used when performing a silent installation of the Windows Agent.

The following steps will demonstrate how to perform a silent installation of the Windows Agent from a command line.

1. Open a command prompt.
2. Define the host location, serial number, and other optional settings using the following syntax:
  - Perform a silent install with a proxy:

```
msiexec /i "C:\updateagent.ms" /qn
HOST="http://myServer" SERIAL="88888888-88888888"
USEPROXY=1 PROXYURL="http://myProxy" PROXYPORT="8080"
PROXYUSER="ProxyUser" PROXYPASS="ProxyPassword"
GROUPLIST="Group1 Distinguished Name|GroupN Distinguished Name"
```

- Perform a silent install without a proxy:

```
msiexec /i "C:\updateagent.ms" /qn
HOST="http://myServer" SERIAL="88888888-88888888" USEPROXY=0
GROUPLIST="Group1 Distinguished Name|GroupN Distinguished Name"
```

### Installing the Linux, Unix, and Mac Agent

From a command line, the following user modifiable properties can be used when performing a silent installation of the Linux, UNIX, Mac Agent.

Table 3: Description of LUM Agent Modifiable Installation Properties

| Property | Description                     |
|----------|---------------------------------|
| -silent  | Performs installation silently. |



| Property | Description  |
|----------|--|
| -d       | The install directory.   |
| -p       | The URL (or IP) of your server.  |
| -sno     | The serial number of your server.  |
| -proxy   | The URL (or IP) of your proxy.   |
| -port    | The port used by your proxy.   |
| -g       | Automatically add the agent to the defined group(s). Either the Group Name, or Distinguished Name can be used.<br><hr/> <b>Note:</b> If the Group Name is used, the agent will be added to all of the groups with that name. |

The following steps will demonstrate how to perform a silent installation of the Linux, UNIX, Mac Agent from a command line.

1. Open a command prompt.
2. Define the host location, serial number, and other optional settings using the following syntax:
  - Perform a silent install with a proxy:

```
./install -silent -d "/user/local" -p "http://myServer" -sno "88888888-88888888"
-proxy "http://myProxy" -port ##
-g "Group1 Distinguished Name|GroupN Distinguished Name"
```

- Perform a silent install without a proxy:

```
./install -silent -d "/user/local" -p "http://myServer" -sno "88888888-88888888"
-g "Group1 Distinguished Name|GroupN Distinguished Name"
```

