

Tivoli Provisioning Manager for OS Deployment 7.1.1

Unattended setup



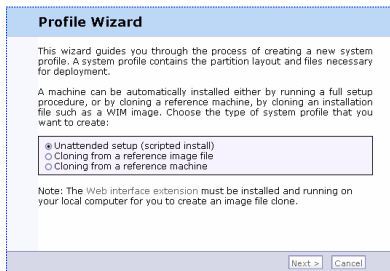
In this module, you learn how to create an unattended setup profile for any supported target operating system, including Windows®, Linux®, AIX®, and Solaris.

Unattended setup profile

- You must have an OS image on a machine running the Web Interface Extension
- To create a Vista/2008 profile, you also need WAIK 1.1 32-bit and a Windows 32-bit operating system
 - From **OS deployment > System profiles**, click the New profile button
 - In the Profile Wizard, select **Unattended setup (scripted install)**

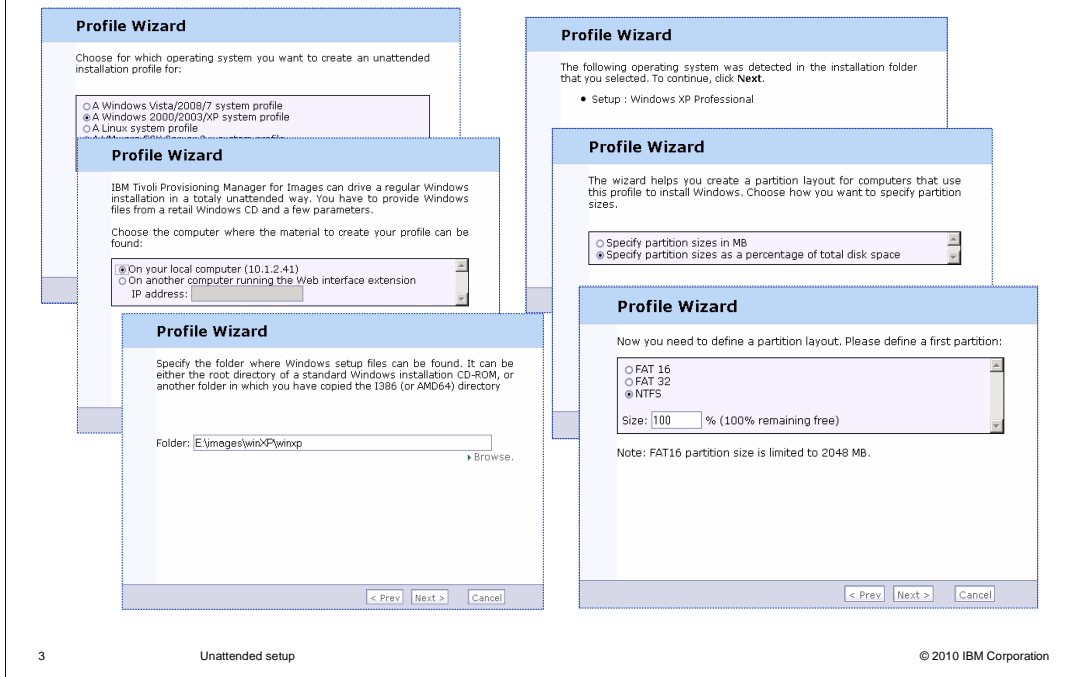


New profile



In Tivoli® Provisioning Manager for OS Deployment, an unattended setup image is a profile that is created from an operating system image, for example, a Windows CD/DVD image. The first prerequisite to create this profile is to have the operating system image on a machine that is running the Web Interface Extension. For AIX and Solaris unattended profiles, additional actions are needed. If you are building a Windows Vista/2008 unattended profile, that machine must also have WAIK 1.1 32-bit installed and must run a Windows 32-bit operating system. Windows 2000 is not supported. After you have the source image available, you click the New profile button from the OS deployment > System profiles page in the product WEBUI and follow the wizard. Then, you specify the computer where the material to create your profile can be found and the directory where the images are located.

Windows 2000/2003/XP unattended setup (1 of 2)



To create a Windows 2000, 2003, or XP system profile you need the Windows source images available on a machine running the Web Interface Extension. From the OS deployment > System profiles page in the product WEBUI, you click the New profile button. Then, you select A Windows 2000/2003/XP system profile. You specify the computer where the material to create your profile can be found. It can be the Tivoli Provisioning Manager for OS Deployment server itself or another computer with the Web Interface Extension running. You also specify the directory where the images are located. You can specify the partition layout and the partition type for the first partition only. Later, you can edit the created profile and add new partitions or modify the existing one.

Windows 2000/2003/XP unattended setup (2 of 2)

The image displays four sequential screenshots of the Profile Wizard dialog boxes:

- Top Left:** A dialog box titled "Profile Wizard" with the text: "If you want the deployment to run fully unattended and you want to use the same Windows Product Key on all machines, enter it below." It features a text input field for the product key and a note: "Important: make sure the product key is correct, or your Windows setup will ask for it interactively at deployment time."
- Top Right:** A dialog box titled "Profile Wizard" with the text: "You can specify a custom configuration file (unattend.txt) with advanced settings that you want to use in your system profile. IBM Tivoli Provisioning Manager for Images server automatically merge this file with host-specific settings." It includes a checked checkbox "Use a custom setup configuration file." and a "File:" field containing "C:\unattend.txt" with a "Browse..." button.
- Bottom Left:** A dialog box titled "Profile Wizard" with the text: "You may specify additional fixed properties to use for all machines that you deploy this system profile on. If left blank, these properties have to be set individually for each target or Windows setup might ask for them interactively." It contains fields for "Registered owner:" (IBM), "Organization:" (IBM), "Admin password:" (masked with dots), "Confirm:" (masked with dots), "Time zone:" (dropdown menu showing "(GMT+01:00) Amsterdam, Berlin, Vienna"), and "Language:" (dropdown menu showing "Italian (Italy)"). A note at the bottom states: "Note: You will be able to customize additional properties later on by editing the newly created OS configuration (under Profiles > View Details > OS configuration)." Buttons for "< Prev", "Next >", and "Cancel" are at the bottom.
- Bottom Right:** A dialog box titled "Profile Wizard" with the text: "Enter a description for your new system profile. The console uses this description when displaying your System Profile." It has a "Description:" field containing "Setup . Windows XP Professional" and a larger "Comment:" text area. A note at the bottom says: "To finish creating the system profile, click **Next**." Buttons for "< Prev", "Next >", and "Cancel" are at the bottom.

At the bottom of the overall image, the text "4 Unattended setup" is on the left and "© 2010 IBM Corporation" is on the right.

The Profile wizard prompts you to specify the Windows product key. If you are setting the key at a profile level, that value is used for all the deployed machines. You also specify additional fixed properties, like the administrator password. You can set these fixed properties separately for each host. If you want to use a custom configuration file with advanced Windows installation settings, you can specify the full path to the unattend.txt file. Notice that the settings in the unattend.txt file will be merged by the product with the host-specific settings during the operating system deployment.

Windows Vista/2008 unattended setup

Profile Wizard

Choose for which operating system you want to create an unattended installation profile for:

- A Windows Vista/2008 system profile
- A Windows 2000/2003/XP system profile
- A Linux system profile.

Profile Wizard

Here are the Windows Vista configurations found in the installation folder you provided. Select the ones that you want to include in your profile (each one will be stored as a different configuration of the same profile).

- Setup : Windows Longhorn SERVERDATACENTER (en-US)
- Setup : Windows Longhorn SERVERDATACENTERCORE (en-US)
- Setup : Windows Longhorn SERVERENTERPRISE (en-US)
- Setup : Windows Longhorn SERVERENTERPRISECORE (en-US)

Profile Wizard

IBM Tivoli Provisioning Manager for OS Deployment has detected that your system is not compatible with Microsoft BitLocker Drive Encryption, do you want to prepare the disk layout to be compatible with this program or with other encryption programs? Microsoft BitLocker Drive Encryption allows you to encrypt your operating system but needs an extra partition to be usable.

- Prepare the disk for Microsoft BitLocker Drive Encryption.

Profile Wizard

If you want the deployment to run fully unattended. And you want to use the same Windows Product Key on all machines for **Setup : Windows Longhorn SERVERSTANDARD**, enter it below:

Profile Wizard

Profile building through web extension in progress, please wait...

Copying Windows Vista (73MB/1625MB)

5 Unattended setup © 2010 IBM Corporation

Microsoft BitLocker Drive Encryption is a security tool that protects data by encrypting it and rendering the content of a hard disk unreadable, if stolen. BitLocker requires at least two partitions: a boot partition containing the BitLocker tool and at least 1.5 GB and an operating system partition that can be encrypted.

A Windows Vista/2008 unattended profile creation is very similar to the Windows 2000/2003/XP. The difference that you see in the sequence of screen captures is that you can select multiple Vista/2008 configurations to be included in the profile. You can also choose to prepare the disk for the Microsoft® BitLocker drive encryption. This encryption is a security tool protecting data by encrypting it and making a hard disk unusable if stolen. This option requires at least two partitions, and the boot partition must have at least 1.5 GB.

Linux unattended setup (1 of 2)

The image displays three sequential screenshots of the 'Profile Wizard' interface for Linux unattended setup.

- First Screenshot:** The wizard asks to 'Choose for which operating system you want to create an unattended installation profile for:'. The options are:
 - A Windows Vista/2008/7 system profile
 - A Windows 2000/2003/XP system profile
 - A Linux system profile
 - A VMware ESX Server 3.x system profile
 - A Solaris system profile
 - An AIX system profile
- Second Screenshot:** The wizard asks to 'Choose the computer where the material to create your profile can be found:'. The options are:
 - On your local computer (10.1.2.41)
 - On another computer running the Web interface extension
 An 'IP address:' field is visible below the second option.
- Third Screenshot:** The wizard asks 'Select where your Linux distribution CD-ROM/DVD-ROM file is located.'. The 'Folder:' field contains 'E:\images\RHEL5'. Below this, it states: 'The following operating system was detected in the installation folder that you selected. To continue, click **Next**.' The detected system is 'Linux RHEL5.3 Setup'.

The final screenshot shows partitioning options:

- 'How much disk space do you want to allocate for paging?' with 'swap size: 1024 MB'.
- 'How much disk space do you want to allocate for the system?' with 'root size: 100 percent'.
- A checked checkbox for 'Use a separate partition for /boot.' with '/boot size: 512 MB'.

At the bottom of the page, the text '6 Unattended setup © 2010 IBM Corporation' is visible.

For a Linux unattended profile creation, you must have the Linux setup image on a machine running the Web Interface Extension. You must specify the image folder in the profile wizard. During the profile creation, you can modify the base partition layout by setting the partition sizes.

Linux unattended setup (2 of 2)

The image displays three sequential screenshots of the 'Profile Wizard' during a Linux unattended setup. The first screenshot shows the initial profile selection, with 'Base' as the only option. The second screenshot shows a tree view of software groups to be installed, including 'Applications', 'Base System', 'Desktop Environments', and 'Development'. The third screenshot shows the configuration of system properties, including a root password, time zone (GMT+01:00), and language (Italian). The final screenshot shows the 'Description' and 'Comment' fields, with 'Setup: Linux RHEL5.3 Setup' entered in the description field. Navigation buttons for '< Prev', 'Next >', and 'Cancel' are visible at the bottom of each wizard window.

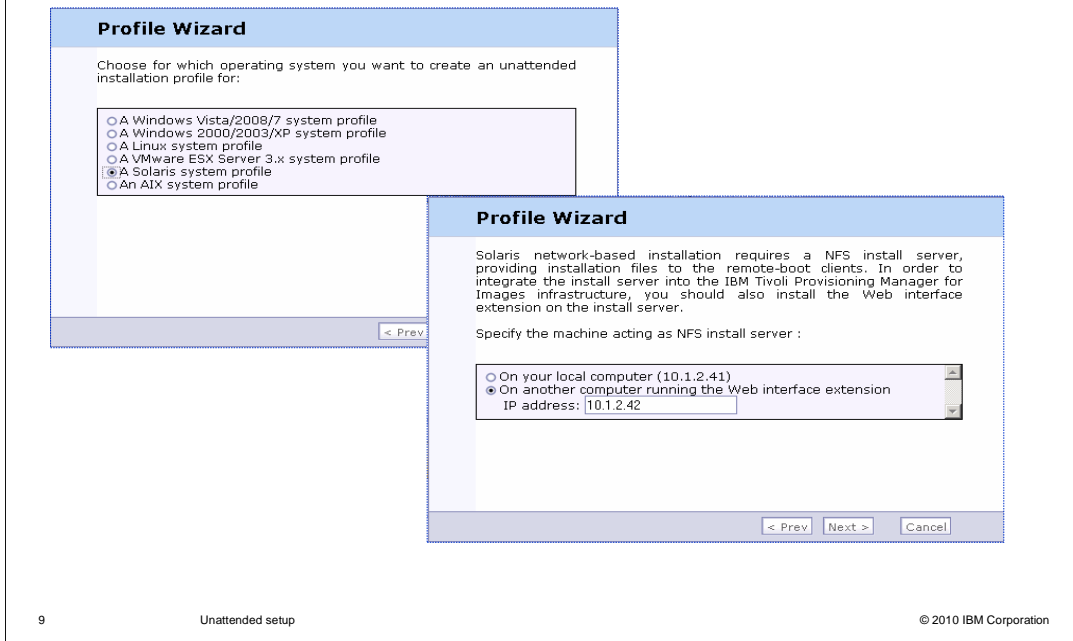
In the wizard, you can select additional Linux software groups to be installed among the ones available in the setup image. You can then specify some additional system properties, such as the root password, that can be set later individually for each target. If you want to use a custom configuration file, `ks.cfg`, you specify its location so that the product merges those advanced settings with the host-specific settings during the deployment on the target system.

Solaris unattended setup (1 of 2)

- To create a Solaris unattended profile, you need a Solaris install server that is also running the Web interface extension
 1. Set up a Solaris install server
 2. Configure a network file system share and load the installation content of Solaris operating systems
 3. Download and run the Web interface extension on the Solaris install server
 4. Create the profile using the WEBUI (Unattended is only supported in V7.1.1)

Tivoli Provisioning Manager for OS Deployment does not require a full Solaris installation environment (with JumpStart) to provision Solaris. The only requirement is to have the corresponding operating system image files available using a Network File System (NFS) share to create the Solaris unattended setup. To create a Solaris profile, you need to have a Solaris install server, which can be configured on any standard Solaris computer. You must also be running the Web interface extension. Here are the required steps: 1. Set up a Solaris install server; 2. Configure a network share and load the Solaris installation images into that folder; 3. Download and run the Web interface extension on the Solaris install server; 4. Create the Solaris unattended profile from the product WEBUI.

Solaris unattended setup (2 of 2)



During the Solaris profile creation, you must specify the IP address of the Solaris machine that is hosting the image files in a network file system share and running the Web Interface Extension.

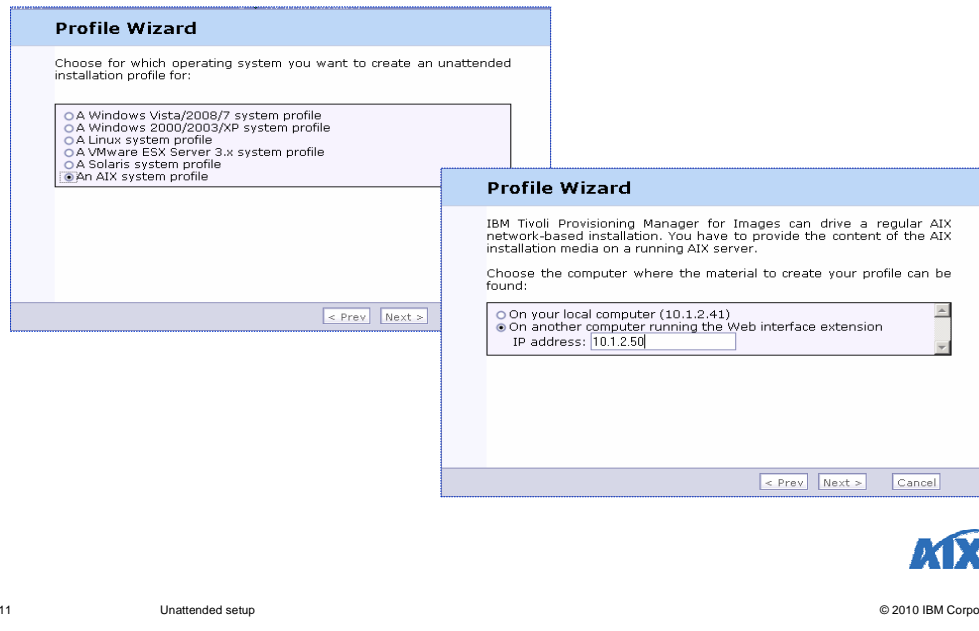
AIX unattended setup (1 of 2)

- To create an AIX unattended system profile, you must work on an AIX operating system of the same version as the profile you want to create, and be running the Web Interface Extension
 - Copy the content of the installation DVD to disk
 - Export the path of the folder in which you have copied the installation files by NFS
- Create the OS profile by using the WEBUI (an unattended profile is only supported in V7.1.1)



To create an AIX unattended setup profile, you must have the AIX operating system image files. To obtain the files, use a Network File System (NFS) share on an AIX machine that is running the Web interface extension. First, copy the content of the installation DVD to disk. Next, export the path of the folder in which you have copied the installation files by NFS. Then, create the OS profile by using the WEBUI. Notice that in 7.1.1 you can only create unattended profiles for AIX.

AIX unattended setup (2 of 2)



When creating the AIX profile, in the wizard, you specify the IP address of the machine that is hosting the AIX image files using the NFS share and is running the Web Interface Extension.

Summary

In this module, you learned about:

- The unattended profile concept
- Creating unattended profiles for supported operating systems
- Additional details for AIX and Solaris unattended profile creation

In this module, you learned about the unattended profile concept, how to create unattended profiles for supported operating systems, and additional details for AIX and Solaris unattended profile creation.



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