

IBM Software Demos

Tivoli Provisioning Manager for OS Deployment

For many organizations, a move to **Microsoft® Windows Vista** will be on the horizon soon. But even the best-prepared companies may find the task of migrating to a new **OS** daunting.

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Tivoli Provisioning Manager for OS Deployment provides an easy-to-use, and highly scalable solution for the deployment of **Vista**. It automates the installation process, and all desktops and laptops in a network can be deployed from a single console, without the need for local on-site support.

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In this demonstration we will see how **TPM for OS Deployment** manages a migration from **Microsoft Windows XP to Vista**, stores the user's **XP** settings, and then restores those user settings in **Vista**.

{Begin Demonstration}

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As you can see, the user has several documents in folders on the **Windows XP** desktop. The goal is to keep all of these documents when we migrate to **Vista**.

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Clicking on the "**Vista** migration info" icon, we see that the user has a page showing how to migrate to **Vista**. This page can be customized to contain information specific to the organization. In the two-step migration process in this example, the user first captures the user settings, and then indicates that the computer is ready to migrate to **Vista**.

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The first step runs a **Microsoft** tool which captures user settings from **Windows XP** and stores the settings on the server. The user is now ready to migrate to **Vista**, all the user specific files and settings have been backed up on a central server.

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In step two, the user indicates that the computer is ready for **Vista** migration. This can be chosen to execute immediately or later ... at the end of the workday, for example.

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TPM for OS Deployment includes the command line tool you see here. It will contact the server and flag this computer as being ready for **Vista**. The user can now turn the computer off and leave for the day.

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To see how the computer will be deployed, we will use **TPM for OS Deployment's** central web console.

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On the web console we'll click on the "**OS Deployment**" icon to see the disk images and software applications to be deployed, as well as the list of computers that can be deployed to.

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In the Host Monitor window, you can see all of the hosts that are managed by the server. We can organize hosts into groups and then perform operations on each host. The "**Vista Ready**" group contains all computers for which the user has successfully backed up the user data and settings, and which have been marked as ready for **Vista** deployment.

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We now see the computer that the user just flagged as ready for deployment. To begin the deployment we'll select "Deploy Now", choose "**Windows Vista**" from the list of available images, and then, clicking "Edit manual software bindings", we can select the software to be included in this deployment.

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In this case, **Acrobat Reader**, and **Firefox** are available as well as a software package used to restore the user settings that have been backed up in **Windows XP**. **TPM for OS Deployment** allows you to define multiple software packages separately from the base image, an important value of the product. For example, you can create a **Windows Vista** image without **Firefox**. You can then create a package for **Firefox** separately and then decide whether you want Firefox or not on a computer-by-computer basis.

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We will select the "Copy **USMT** and restore user state" package to restore the settings captured and stored on the server.

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We now begin the deployment. Switching to the end user's computer screen, we can watch as it boots on the network and enters the **TPM for OS deployment** installation environment.

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The **TPM for OS Deployment** installation environment is very light and powerful. It prepares the hard disk, installs the disk image, and then launches the installation of the operating system.

In this step, we see the hard disk partitioning, the download of the image, and the preparation of the installation of **Vista**.

The computer now boots into **Vista** to run the different installation phases. During the first phase, **Vista** is being configured with keyboard layout, time zone, and host name.

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During the second stage, **Vista** will boot again to run the software package command lines -- in our case **Firefox**, **Adobe Reader**, and the restoration of the user settings.

As **Vista** boots we see window showing the execution of command lines. **Adobe Reader** is installed ...

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...and then **Firefox**. After that the user data and settings are restored.

With **TPM for OS deployment** you can define as many software packages as you like, and organize them as you desire. You can also create software packages that simply run a command line.

At the end of the process the **Microsoft** tool "**Sysprep**" prepares the system for the final boot of **Vista**.

The installation engine checks that the installation is complete and then boots into **Vista**.

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As the computer boots into the **Vista** user environment for the first time we can see that the user still has all the documents that were present in **Windows XP**.

The migration from **XP** to **Vista** was a complete reinstallation but the user information was not lost in the process. The documents are still in the folders of the user and were carried over successfully.

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Here we have seen how **IBM Tivoli Provisioning Manager for OS Deployment** was used to deploy **one** workstation to **Windows Vista**. In this same efficient

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manner you can remotely deploy hundreds, thousands - even tens of thousands of workstations from the same central Web console.

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When initiated from the Web console, deployments are completely automated; helping your business facilitate a “zero-touch installation,” which minimizes the time your **IT** administrators must spend to manage the migration. You can even deploy **Vista** from a “factory fresh” laptop or desktop with an empty hard drive by plugging it onto your network.