

IBM Endpoint Manager  
Version 9.1

*Patch Management for Ubuntu  
User's Guide*





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**Note**

Before using this information and the product it supports, read the information in "Notices" on page 13.

This edition applies to version 9, release 1, modification 0 of IBM Endpoint Manager for Patch Management (product number 5725-C45) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Chapter 1. Overview

IBM® Endpoint Manager Patch Management for Ubuntu provides Fixlets that you use to manage the security updates and service packs that Ubuntu releases. These Fixlets are available through the Patches for Ubuntu sites.

IBM Endpoint Manager Patch Management for Ubuntu keeps your Ubuntu clients current with the latest updates and service packs. Patch management is available through the Patches for Ubuntu sites. For each new security update that becomes available, Tivoli Endpoint Manager releases a Fixlet that identifies and updates all the computers in your enterprise that need it.

With a few keystrokes, the Endpoint Manager Console operator can apply the patch to all the relevant computers and visualize its progress as it deploys throughout the network. The Endpoint Manager agent checks the operating system version, processors, and the existing installed packages to determine when and if a patch is necessary.

Using Fixlets, you can manage large numbers of updates and patches with comparative ease, enabling automated, highly targeted deployment on any schedule that you want. Large downloads can be phased to optimize network bandwidth and the entire deployment process can be monitored, graphed, and recorded for inventory or audit control.

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### Supported Versions and Platforms

Patch for Ubuntu sites support Ubuntu versions 8.04, 10.04, and 12.04 LTS (Long Term Support), which are releases typically used for large-scale deployments.

The Endpoint Manager Patch for Ubuntu Fixlet sites provide support for the following versions and platforms:

*Table 1. Versions and platforms supported by the Patch for Ubuntu Fixlet sites*

Version	Platform (Supports servers and desktops)	Fixlet Site Name
Ubuntu 8.04 LTS	x86 and AMD64	Patches for Ubuntu 0804
Ubuntu 10.04 LTS	x86 and AMD64	Patches for Ubuntu 1004
Ubuntu 12.04 LTS	x86 and AMD64	Patches for Ubuntu 1204

**Note:** In Ubuntu, 'LTS' stands for Long Term Support, which are releases typically used for large-scale deployments.

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### Site subscription

Sites are collections of Fixlet messages that are created internally by you, by IBM, or by vendors.

Subscribe to a site to access the Fixlet messages to patch systems in your deployment.

You can add a site subscription by acquiring a Masthead file from a vendor or from IBM or by using the Licensing Dashboard. For more information about subscribing to Fixlet sites, see the *IBM Endpoint Manager Installation Guide*.

For more information about sites, see the *IBM Endpoint Manager Console Operator's Guide*.



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## Chapter 2. Using Patch Management for Ubuntu

Access Ubuntu Fixlets sites for Ubuntu security updates from the Endpoint Manager console.

You can manage the security updates that Ubuntu issues with the use of the Patch Management for Ubuntu Fixlets. These Fixlets are available in the Patches for Ubuntu Fixlets sites, which are accessed from the Endpoint Manager console. The term *superseded*, when applied to Fixlets, has different meanings when used by IBM Endpoint Manager, and by the Launchpad website, which hosts various software, including Ubuntu.

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### Patch Using Fixlets

From the console, select the action for the appropriate Fixlets that you want to deploy. The action propagates across your deployment and applies patches based on the settings that you make in the Fixlet work area and the Take Action dialog.

You can deploy the Ubuntu Fixlets from the Endpoint Manager Console.

In the *Patch Management* domain, click *OS Vendors* from the navigation tree and click *Canonical*.

The navigation tree expands. Select the correct version of *Patches for Ubuntu*.

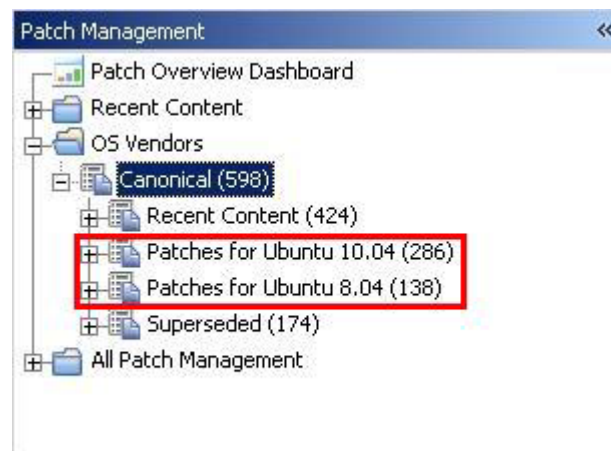


Figure 1. Selecting the correct version of Patches for Ubuntu

From the list panel on the right, double-click the Fixlet that you want to deploy.

ID	Name	Source Severity	Site	Applicable Com...	Open Action Co...	Category
113200110	USN-1320-1 - ffmpeg vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	1 / 3	0	Security
113170110	USN-1317-1 - ghostscript vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113160110	USN-1316-1 - t1lib vulnerability - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113150110	USN-1315-1 - jasper vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113140110	USN-1314-1 - python3.1, python3.2 vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113130110	USN-1313-1 - linux-its-badport-oneirc vulnerability - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113110110	USN-1311-1 - linux vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113100110	USN-1310-1 - libarchive vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113080110	USN-1308-1 - bop2 vulnerability - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113070110	USN-1307-1 - php5 vulnerability - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
113010110	USN-1301-1 - linux-its-badport-natty vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
112990110	USN-1299-1 - linux-ec2 vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security
112970110	USN-1297-1 - python-django vulnerabilities - Ubuntu 10.04 - (amd64)	<Unspecified>	Patches for Ubuntu...	0 / 3	0	Security

Figure 2. Selecting the Fixlet from the list panel

The Fixlet opens in the work area. Click the tabs at the top of the window to review details about the selected Fixlet.

Click the link in the Actions box to start the deployment. The Ubuntu website opens to display the package information and links to download files.

Fixlet: USN-1320-1 - ffmpeg vulnerabilities - Ubuntu 10.04 - (amd64)

Take Action | Edit | Copy | Export | Hide Locally | Hide Globally | Remove

Description | Details | Applicable Computers (0) | Action History (0)

**Description**

A security update for ffmpeg vulnerabilities is now available.

Target packages:

- libavcodec52\_0.5.1-1ubuntu1.3\_amd64
- libavformat52\_0.5.1-1ubuntu1.3\_amd64

**Note:** This Fixlet is relevant only if a previous version of any of the targeted packages exists on the targeted system.

See the patch page for more detailed information.

**Actions**

Click [here](#) to view the patch page.

Figure 3. Fixlet details and the link in the Actions box that starts deployment

## Action Logging

Use the Endpoint Dependency Resolution - Deployment Results analysis to confirm if an action is successful by checking the log file on the endpoint. You can also check if dependencies are resolved by deploying a test run before applying patches.

If an action is successful, the results are written in a log file on the endpoint. You can view the results of the action when you activate the **Endpoint Dependency Resolution - Deployment Results** analysis

To activate the analysis, click the **Patch Management Domain**. From the navigation tree, click **All Patch Management > Analyses**.

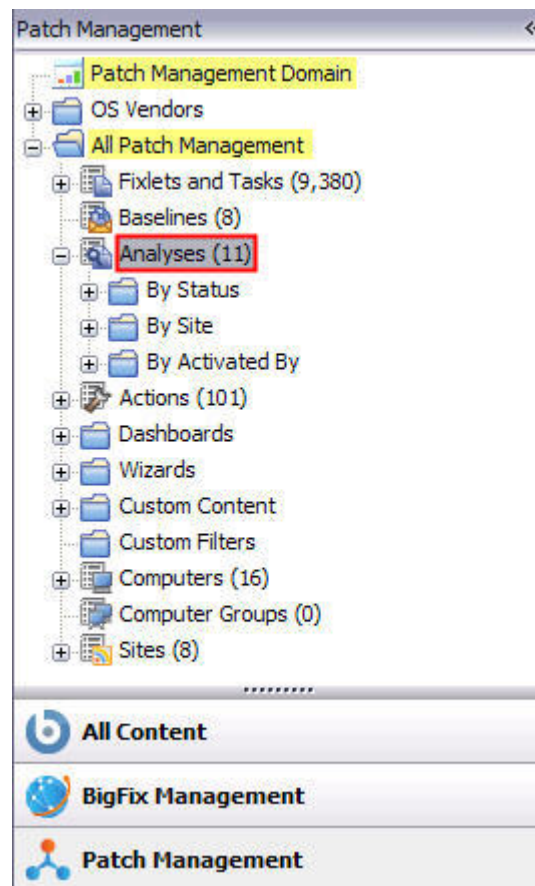


Figure 4. Selecting Analyses from the navigation tree

Click **Endpoint Dependency Resolution - Deployment Results** from the Analyses List panel on the right. Click **Activate** or, from the Actions box, click the link that activates the analysis.

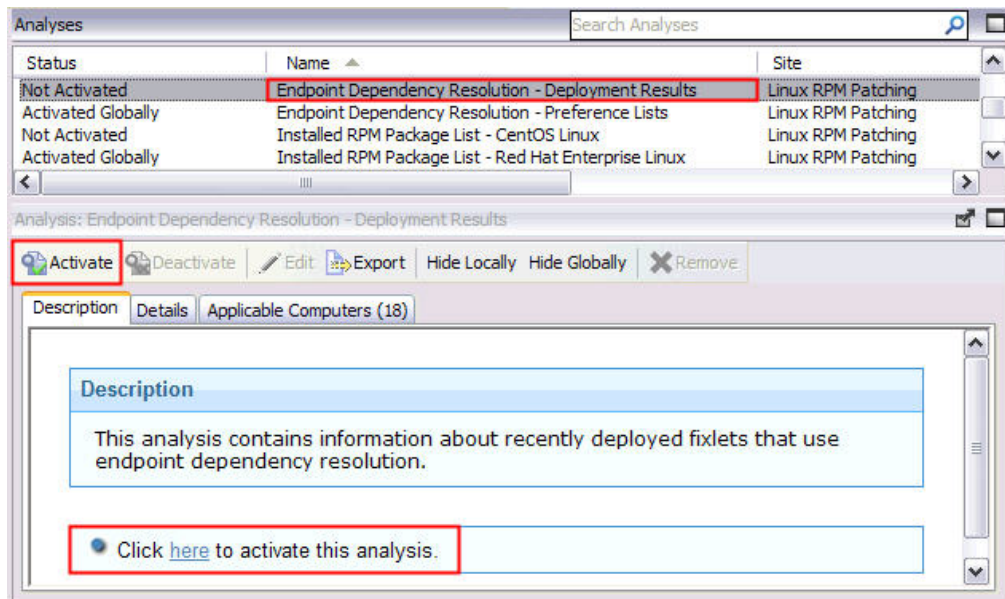


Figure 5. Activating the Endpoint Dependency Resolution - Deployment Results analysis

Click the **Results** tab in the Analysis window that is displayed after you activate the analysis.

When you review the properties of an endpoint, you can view the current deployment information on that system. To view this data, go to the **All Content** domain and select the Computers node. Select the computer that you want to inspect in the work area; then scroll down to the Deployment Results section.

When running an Ubuntu patch Fixlet, you can also deploy a test run prior to applying the patch. You can view the Deployment Results analysis to determine if the dependencies are resolved and if an installation is successful.

You can limit the length of the output by running the task called Endpoint Dependency Resolution – Set deployment results analysis report length. To access this task, click **All Patch Management > Analyses** from the navigation tree, and then click the Ubuntu subnodes. The default analysis report length is 100 entries.

**Note:** This action reports back as fixed, even if the test fails.

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## Patches for Ubuntu Fixlet Sites

Ubuntu security updates are available through email lists, RSS feeds, and through the Ubuntu website and Launchpad, the web support site that hosts applications such as Ubuntu.

The Patches for Ubuntu Fixlet sites provide the corresponding Fixlet content for Ubuntu security updates. Ubuntu distributes security notices through mail lists and RSS feeds. Installation packages and details of the security notices are also released through the Ubuntu and Launchpad websites. The Ubuntu website maintains an archive of the security notices. The Launchpad website is the hosting website for various software, including Ubuntu.

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## Superseded Fixlets

In IBM Endpoint Manager, supersedence is a property of Fixlets that provides multiple packages. In Launchpad, the host website for applications such as Ubuntu, supersedence is a property of every package.

Superseded Fixlets are Fixlets that contain outdated packages. If a Fixlet is superseded, a newer Fixlet exists with newer versions of the packages. You can find the new Fixlet ID in the description of the superseded Fixlet.

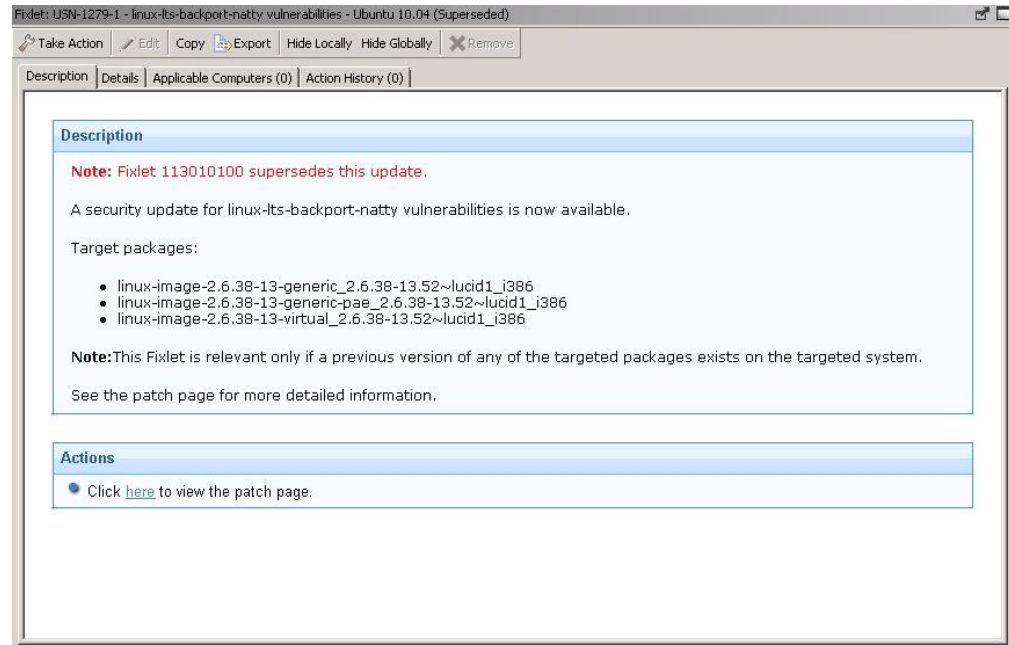


Figure 6. Description of a superseded Fixlet showing the newer Fixlet ID

## Supersedence as defined by Tivoli Endpoint Manager and Launchpad

IBM Endpoint Manager for Patch Management and Launchpad use the term *supersedence* differently. A package with superseded status on the Launchpad website does not mean the same as when a fixlet is described as superseded in Endpoint Manager.

In Launchpad terminology, *supersedence* is a property of every package. For Endpoint Manager for Patch Management, *supersedence* is a property of Fixlets that provides multiple packages. When a Fixlet is superseded, it means that there is an existing, newer, and more advanced Fixlet with the same set of packages.

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## Uninstall patches

Set the Uninstall Ubuntu .deb task to uninstall Ubuntu Debian packages that do not have dependencies on other packages. The Uninstall action removes the Ubuntu .deb package, but does not remove the configuration files for the package that is uninstalled. You can remove also the configuration files through the purge action link in the Actions box.

You can uninstall Ubuntu Debian packages using the Uninstall Ubuntu .deb packages task.

**Note:** The Uninstall Ubuntu .deb packages task uninstalls a package only if the package you want to remove does not have a dependency on other packages.

To uninstall patches, click the **Patch Management Domain**. In the navigation tree, click **All Patch Management > Sites > External Sites > Linux RPM Patching > Fixlets and Tasks**.

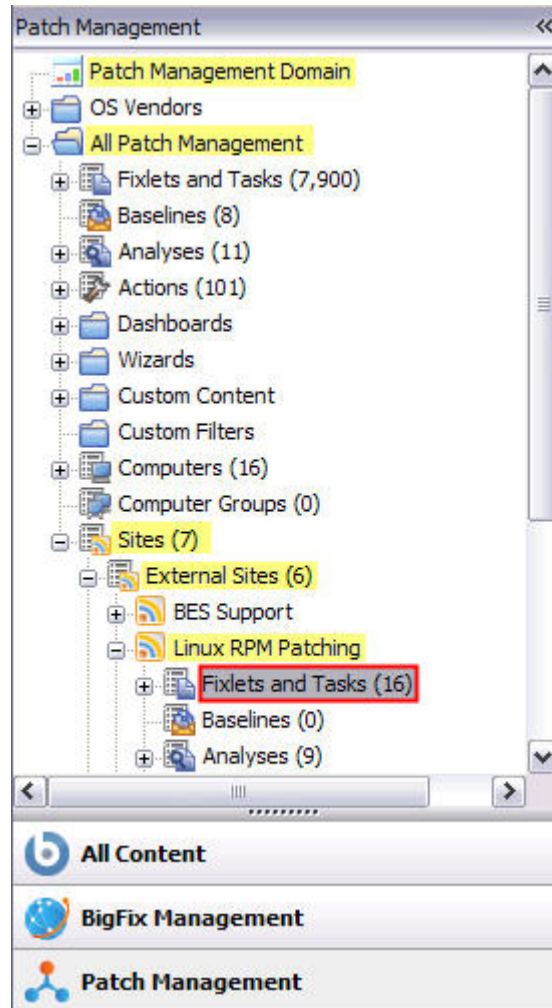


Figure 7. Selecting Fixlets and tasks from the navigation tree

In the List panel on the right, select **Uninstall Ubuntu .deb Packages**.

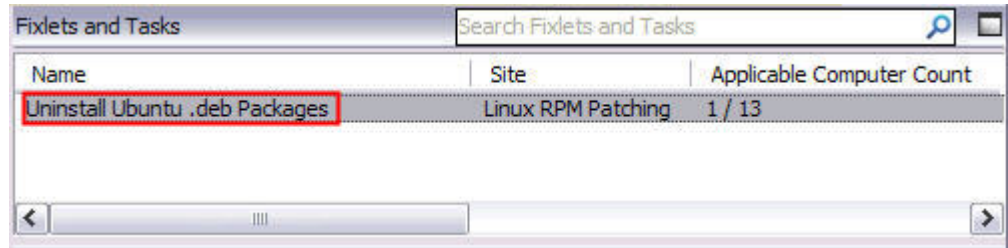


Figure 8. Selecting the Ubuntu .deb package to be uninstalled

In the Actions box, click the link to start the uninstallation action.

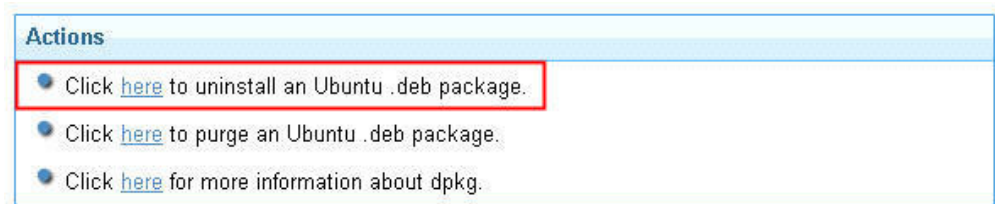


Figure 9. Selecting the link that uninstalls the Ubuntu .deb package

The **Action Parameter** window opens. Enter the package name and click **OK**. The affected computers report the uninstall patch task that was run as either completed or failed. You can also activate the Endpoint Dependency Resolution - Deployment Results analysis, which shows the results of an action in a log file. For more information about using the Endpoint Dependency Resolution - Deployment results analysis, see “Action Logging” on page 4.

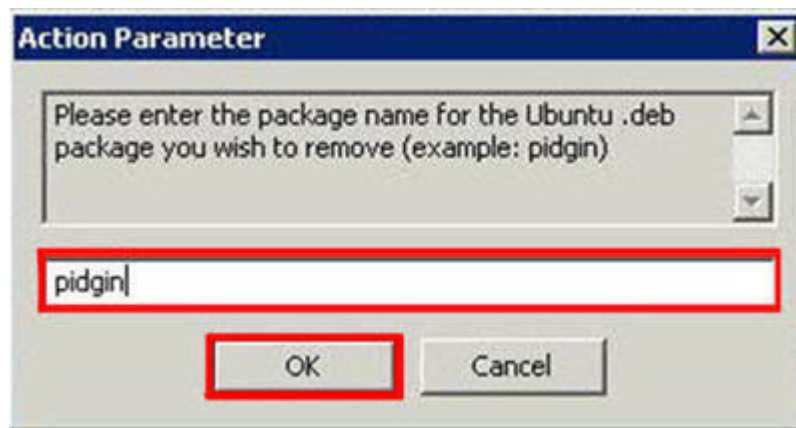
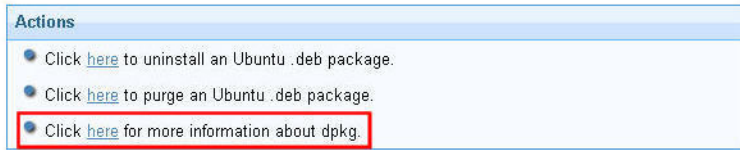


Figure 10. Entering the package name and clicking OK

The Uninstall action removes the Ubuntu .deb package, but does not remove the configuration files for the package that is uninstalled. Click the purge action link to remove also the configuration files.

The last action in the Actions box opens a link that gives information about using **dpkg**, the Ubuntu Debian package manager.



*Figure 11. Selecting the link that gives information about the dpkg package manager*



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## Appendix. Support

For more information about this product, see the following resources:

- [http://pic.dhe.ibm.com/infocenter/tivihelp/v26r1/topic/com.ibm.tem.doc\\_9.1/welcome/welcome.html](http://pic.dhe.ibm.com/infocenter/tivihelp/v26r1/topic/com.ibm.tem.doc_9.1/welcome/welcome.html)
- IBM Endpoint Manager Support site
- IBM Endpoint Manager wiki
- Knowledge Base
- Forums and Communities



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