



IBM System Storage with ProtecTIER Software

Release Notes

UNDO DIRTYCOW PSIRT





© Copyright IBM Corporation 2011, 2014. US Government Users Restricted Rights - Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

References in this documentation to IBM® products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program or service is not intended to state or imply that only IBM's product, program or service may be used. Any functionally equivalent product, program or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, are the user's responsibility.



© 2017 IBM Corporation Table of Contents

Release notes	4
Introduction	4
Prerequisites	4
Installation	5
Documentation format	6
Notices and trademarks	7
Notices	7
Trademarks	7
THIRD-PARTY LICENSE TERMS AND CONDITIONS, NOTICES AND INFORMATION	7

Release notes

These release notes are for IBM System Storage with ProtecTIER Software.

Release date: April 16th, 2017

Introduction

This package intends to undo DIRTYCOW PSIRT.

Customers which have installed the Dirty Cow PSIRT will not be able to upgrade to next ProtecTIER code level without running this undo fix. Therefore this undo fix should be installed on every machine which has the Dirty Cow PSIRT installed.

This Undo release downgrades the kernel level to the correct version.

A fixed Dirty Cow PSIRT will be released in the near future.

Prerequisites

For V3.4.x.x and V3.3.x.x

Copy package "PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64.tar" to "/install/new/"

For V1.2.1x

Copy package "PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64.tar" to "/install/"

Installation

For V3.4.x.x and V3.3.x.x

1. Copy package to /install /new/ directory.
2. Open the menu by:

```
# menu
```
3. Select “ProtecTIER Configuration (...)”.
 Type the corresponding number and press <Enter>.
4. Select “Single Node - code upgrade (For Support Use ONLY)”.
 Type the corresponding number and press <Enter>.
5. Type y to install:

```
PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64.tar
```
6. The undo package will be activated upon server reboot only.

Note: The undo package could only be implemented by using “Single Node - code upgrade...” from the RAS menu.

For V1.2.1x

1. Copy package to /install/ dir:

```
# cp PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64.tar /install/.
```
2. Change directory to install:

```
# cd /install/
```
3. Open tar package:

```
# tar -xvf PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64.tar
```
4. Change directory into the open package:

```
# cd PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64
```
5. Open the second tar file

```
# tar -xvf PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64.tar
```
6. Change directory into the second open tar file:

```
# cd PT_MD5_UNDO_DIRTYCOW_V3.3.991.UNDO_DIRTY_COW.x86_64
```
7. Install package:

```
# ./autorun -f
```
8. The undo package will be activated upon server reboot only.

Documentation format

The publications for this product are in Adobe Portable Document Format (PDF) and should be compliant with accessibility standards.

If you experience difficulties when you use the PDF files and want to request a web-based format or accessible PDF document for a publication, send a request by email to starpubs@us.ibm.com. In the request, be sure to include the IBM publication number and title.

When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

Notices and trademarks

Notices

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you. This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Trademarks

Linux is a trademark of Linus Torvalds in the United States, other countries, or both. Microsoft, Windows, and Windows Server are trademarks of Microsoft Corporation in the United States, other countries, or both. Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Other company, product, or service names may be trademarks or service marks of others.

THIRD-PARTY LICENSE TERMS AND CONDITIONS, NOTICES AND INFORMATION

The license agreement for this product refers you to this file for details concerning terms and conditions applicable to third party software code included in this product, and for certain notices and other information IBM must provide to you under its license to certain software code. The relevant terms and conditions, notices and other information are provided or referenced below. Please note that any non-English version of the licenses below is unofficial and is provided to you for your convenience only. The English version of the licenses below, provided as part of the English version of this file, is the official version. Notwithstanding the terms and conditions of any other agreement you may have with IBM or any of its related or affiliated entities (collectively "IBM"), the third party software code identified below are "Excluded Components" and are subject to the following terms and conditions:

- The Excluded Components are provided on an "AS IS" basis
- IBM DISCLAIMS ANY AND ALL EXPRESS AND IMPLIED WARRANTIES AND CONDITIONS WITH RESPECT TO THE EXCLUDED COMPONENTS, INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF NON-INFRINGEMENT OR INTERFERENCE AND THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
- IBM will not be liable to you or indemnify you for any claims related to the Excluded Components
- IBM will not be liable for any direct, indirect, incidental, special, exemplary, punitive or consequential damages with respect to the Excluded Components.