Rocky Enterprise Linux 9.2 Manual Pages on command 'pivot_root.8'

$ man pivot_root.8

PIVOT_ROOT(8)   System Administration   PIVOT_ROOT(8)

NAME

   pivot_root - change the root filesystem

SYNOPSIS

   pivot_root new_root put_old

DESCRIPTION

   pivot_root moves the root file system of the current process to the directory put_old and

   makes new_root the new root file system. Since pivot_root(8) simply calls pivot_root(2),

   we refer to the man page of the latter for further details.

   Note that, depending on the implementation of pivot_root, root and current working

   directory of the caller may or may not change. The following is a sequence for invoking

   pivot_root that works in either case, assuming that pivot_root and chroot are in the

   current PATH:

      cd new_root

      pivot_root . put_old

      exec chroot . command

   Note that chroot must be available under the old root and under the new root, because

   pivot_root may or may not have implicitly changed the root directory of the shell.

   Note that exec chroot changes the running executable, which is necessary if the old root

   directory should be unmounted afterwards. Also note that standard input, output, and error

   may still point to a device on the old root file system, keeping it busy. They can easily

   be changed when invoking chroot (see below; note the absence of leading slashes to make it

   work whether pivot_root has changed the shell?s root or not).

OPTIONS

    -V, --version

        Display version information and exit.

    -h, --help

        Display help text and exit.

EXAMPLE

    Change the root file system to /dev/hda1 from an interactive shell:

        mount /dev/hda1 /new-root

        cd /new-root

        pivot_root . old-root

        exec chroot . sh <dev/console >dev/console 2>&1

        umount /old-root

    Mount the new root file system over NFS from 10.0.0.1:/my_root and run init:

        ifconfig lo 127.0.0.1 up   # for portmap

        # configure Ethernet or such

        portmap   # for lockd (implicitly started by mount)

        mount -o ro 10.0.0.1:/my_root /mnt

        killall portmap   # portmap keeps old root busy

        cd /mnt

        pivot_root . old_root

        exec chroot . sh -c 'umount /old_root; exec /sbin/init' \

          <dev/console >dev/console 2>&1

SEE ALSO

    chroot(1), pivot_root(2), mount(8), switch_root(8), umount(8)

REPORTING BUGS

    For bug reports, use the issue tracker at https://github.com/karelzak/util-linux/issues.

AVAILABILITY

    The pivot_root command is part of the util-linux package which can be downloaded from

    Linux Kernel Archive <https://www.kernel.org/pub/linux/utils/util-linux/>.

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