

```

#!/bin/bash
# shellcheck shell=bash source=/dev/null
#####
# Install kz package.
#
# Written by Karel Zimmer <info@karelzimmer.nl>, CC0 1.0 Universal
# <https://creativecommons.org/publicdomain/zero/1.0>, 2016-2023.
#####

#####
# Import
#####

export TEXTDOMAIN=kz
export TEXTDOMAINDIR=/usr/share/locale
source /usr/bin/gettext.sh

#####
# Variables
#####

program_name='kz-getdeb'
program_desc=$(gettext 'Install kz package')
display_name=${program_name/kz-/kz }

options_short='huv'
options_long='help,usage,version'
# shellcheck disable=SC2034
options_usage='[-u|--usage] [-h|--help] [-v|--version]'
usage=$(eval_gettext "Usage: \${display_name} \${options_usage}")
options_help="  -h, --help      \$(gettext 'give this help list')
  -u, --usage    \$(gettext 'give a short usage message')
  -v, --version  \$(gettext 'print program version')"
help="\$(eval_gettext "Usage: \${display_name} [OPTION...]")"

\${program_desc}.

\${options_help}
usage_line=\$(eval_gettext "Type '\${display_name} --usage' for more \
information.")

bold=\$(tput bold)
normal=\$(tput sgr0)

#####
# Functions
#####

function init_script {
    set -o erretrace
    set -o nounset
    set -o pipefail
}

function check_input {
    local -i rc=0
    local parsed=''

    parsed=\$(
        getopt  --alternative  \
               --options      "\${options_short}"  \
    )
}

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        --longoptions "$options_long" \
        --name "$program_name" \
        -- "$@"
    ) || rc=$?
if [[ $rc -ne 0 ]]; then
    printf '%s\n' "$usage_line" >&2
    exit 1
fi
eval set -- "$parsed"

while true; do
    case $1 in
        -h|--help)
            process_option_help
            cleanup
            exit 0
            ;;
        -u|--usage)
            process_option_usage
            cleanup
            exit 0
            ;;
        -v|--version)
            process_option_version
            cleanup
            exit 0
            ;;
        --)
            shift
            break
            ;;
        *)
            shift
            ;;
    esac
done

if [[ -n "$*" ]]; then
    printf "$display_name: *: %s\n$usage_line\n" \
        "$(gettext 'arguments are not allowed')"
    cleanup
    exit 1
fi
}

function process_option_help {
    printf '%b\n' "$help

$(eval_gettext "Type 'man \${display_name}' or see the \
\e]8;;man:\${program_name}(1)\e\\\${display_name} man page\e]8;;\e\\ for more \
information.")"
}

function process_option_usage {
    printf '%s\n' "$usage

$(eval_gettext "Type '\${display_name} --help' for more information.")"
}

function process_option_version {
    local build_id='????-??-?? ??:??'

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local grep_expr='# <https://creativecommons.org'
local program_year='????'
local program_path
program_path=$(cd "$(dirname "$(realpath "$0")")" && pwd)

if [[ -e /usr/local/etc/kz-build-id ]]; then
    build_id=$(cat /usr/local/etc/kz-build-id)
else
    build_id='????-??-?? ??:??'
fi

program_year=$(
    grep --regexp="$grep_expr" "$program_path/$program_name" |
    cut --delimiter=' ' --fields=3
) || true
if [[ $program_year = '' ]]; then
    program_year='????'
fi

printf '%s\n' "$program_name (kz) 365 ($build_id)

$(eval_gettext "Written by Karel Zimmer <info@karelzimmer.nl>, CC0 1.0 \
Universal
<https://creativecommons.org/publicdomain/zero/1.0>, \
$program_year)")"
}

function process_input {
    if groups "$USER" | grep --quiet --regexp='sudo'; then
        sudo true
    else
        printf '%s\n' "$(gettext 'Already performed by the administrator.')"
        term_script
    fi
    install_package
}

function install_package {
    local site_deb='https://karelzimmer.nl/assets/kz/kz_365_all.deb'
    local temp_deb=''

    temp_deb=$(mktemp -t "$program_name-XXXXXXXXXX.deb")
    # Prevent "N: ... user '_apt'. - pkgAcquire::Run (13: Permission denied)".
    chmod o+r "$temp_deb"
    printf "${bold}%s${normal} ($display_name)\n" "$(gettext 'Download')"
    wget --output-document="$temp_deb" $site_deb
    check_dpkgd_snapd
    printf "${bold}%s${normal} ($display_name)\n" "$(gettext 'Install')"
    sudo DEBIAN_FRONTEND=noninteractive \
        apt-get \
        reinstall \
        --yes \
        "$temp_deb"
    rm "$temp_deb"
}

function check_dpkgd_snapd {
    local -i dpkg_wait=10
    local text
    text=$(eval_gettext \
        "Wait \${dpkg_wait}s for another package manager to finish...")
}

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if find /snap/core/*/var/cache/debconf/config.dat &> /dev/null; then
    # System with snaps.
    while sudo fuser
        /var/{lib/{dpkg,apt/lists},cache/apt/archives}/lock \
        /var/cache/debconf/config.dat \
        /snap/core/*/var/cache/debconf/config.dat \
        &> /dev/null; do
        printf '%s\n' "$text"
        sleep $dpkg_wait
    done
else
    # System without snaps.
    while sudo fuser
        /var/{lib/{dpkg,apt/lists},cache/apt/archives}/lock \
        /var/cache/debconf/config.dat \
        &> /dev/null; do
        printf '%s\n' "$text"
        sleep $dpkg_wait
    done
fi
}

function cleanup {
    # Do not delete kz and kz.1 due to scripts and manuals with the same name.
    rm --force kz.{2..99}
    # But do delete them if in HOME, as described in Checklist installation.
    rm --force "$HOME"/kz "$HOME"/kz.1
}

function term_script {
    local title
    title=$(gettext 'Finished')
    local text
    text=$(gettext "Package kz has been successfully installed.")

Now follow the steps as described
in the Checklist installation.

Checklist installation can be found
on the site https://karelzimmer.nl,
under Linux.

Type 'exit' to close this window.")

    clear -x
    TERM=ansi whiptail --backtitle "$display_name - $program_desc" \
        --title "$title" \
        --infobox "$text" \
        16 47

    cleanup
    exit 0
}

#####
# Main
#####

function main {
    init_script
    check_input "$@"
}

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```
    process_input
    term_script
}
main "$@"
```