

```

#!/usr/bin/python3
"""
Update system.

This script performs a repair, update, and cleanup.
"""
#####
# Update system.
#
# Written by Karel Zimmer <info@karelzimmer.nl>, CC0 1.0 Universal
# <https://creativecommons.org/publicdomain/zero/1.0>, 2021-2023.
#####
#####
# Import
#####

import gettext
import kz_common
import subprocess
import sys

gettext.bindtextdomain('kz', '/usr/share/locale')
gettext.textdomain('kz')
_ = gettext.gettext

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

program_name = 'kz-update'
program_desc = _('Update system')
display_name = program_name.replace('kz-', 'kz ')

command = ''

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

def perform_repair():
    print('{}{}{} ({}).format(kz_common.bold, _('Repair'), kz_common.normal,
                                program_name))
    command = 'dpkg --configure --pending'
    perform_command(command)

    command = 'apt-get update --fix-missing'
    perform_command(command)

    command = 'apt-get install --fix-broken'
    perform_command(command)

def perform_update():
    print('{}{}{} ({}).format(kz_common.bold, _('Update'), kz_common.normal,
                                program_name))
    command = 'apt-get update'
    perform_command(command)

    command = 'apt-get dist-upgrade --yes'
    perform_command(command)

```

```

snap_refresh()

def perform_command(command):
    print(f'{command}...')
    kz_common.check_dpkgd_snapd()
    try:
        subprocess.run(f'sudo {command}', shell=True, check=True)
    except Exception as ex:
        print(ex)
        sys.exit(kz_common.error)
    else:
        print()

def snap_refresh():
    print(_('Snap refresh...'))
    kz_common.check_dpkgd_snapd()
    try:
        subprocess.run('sudo snap refresh', shell=True, check=True)
    except Exception as ex:
        print(ex)
    else:
        print()

def perform_cleanup():
    print('{}{}{} ({}).format(kz_common.bold, _('Cleanup'), kz_common.normal,
                                program_name))
    command = 'apt-get autoclean --yes'
    perform_command(command)

    command = 'apt-get autoremove --yes'
    perform_command(command)

    snap_cleanup()

def snap_cleanup():
    # Start with LANG=en_US.UTF-8 and check for disabled does not always work.
    cmd = '\
snap list --all | \
while read name ver rev trk pub notes; do \
    if [[ $notes == *uitgeschakeld* || $notes == *disabled* ]]; then \
        sudo snap remove "$name" --revision="$rev"; \
    fi \
done'

    print(_('Snap cleanup...'))
    try:
        subprocess.run({cmd}, shell=True, check=True, executable='/bin/bash')
    except Exception as ex:
        print(ex)

def check_reboot():
    try:
        with open('/var/run/reboot-required') as fh:
            print('\n' + _('*** The computer must restart to complete the '
                            'installation of updates ***'))
    except FileNotFoundError:
        pass
    except Exception as ex:
        print(ex)

```

```
sys.exit(kz_common.error)
```

```
#####  
# Main  
#####
```

```
kz_common.process_option(program_name, program_desc, display_name)
```

```
kz_common.check_on_ac_power(program_name)
```

```
kz_common.check_user_root(program_name, display_name)
```

```
perform_repair()
```

```
perform_update()
```

```
perform_cleanup()
```

```
check_reboot()
```