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#!/bin/bash
# Begin auto-lfs
#
# For Gentoo 12.1-systemd
# you can use it after proceeding with <7.2 Changing Owner>
# Mount and unmount kernel virtual file system and entering to chroot
environment

VERSION=0.1.7
Gentoo=/mnt/gentoo
Gentoo_PART=/dev/nvme0n1p10
Gentoo_BOOT=/dev/nvme0n1p6
Gentoo_EFI=/dev/nvme0n1p2
Gentoo_HOME=/dev/nvme0n1p7
# Dedicated partition mount argument is s , -s , start
if [ "$1" == "s" ] || [ "$1" == "-s" ] || [ "$1" == "start" ]; then
    if ! mountpoint -q $Gentoo;          then mount $Gentoo_PART
$Gentoo; fi
    if ! mountpoint -q $Gentoo/boot;    then mount $Gentoo_BOOT
$Gentoo/boot; fi
    if ! mountpoint -q $Gentoo/boot/efi; then mount $Gentoo_EFI
$Gentoo/boot/efi; fi
    if ! mountpoint -q $Gentoo/home;    then mount $Gentoo_HOME
$Gentoo/home; fi
    if ! mountpoint -q /mnt/n40l/Gentoo; then mount n40l:/mnt/1st-
bay/Gentoo /mnt/n40l/Gentoo; fi

    # Mount point dirctory check
    if [ ! -d $Gentoo/dev ]; then
        echo "Make necessary directories"
        mkdir -pv $Gentoo/{dev,proc,sys,run}
    else
        echo "All required directories have been verified."
    fi
fi
# To prepare for run 'chroot', run 'umount' block if a directory exists, or
run 'mount' block
case $1 in
    clean|c|-c)
        if mountpoint -q $Gentoo; then
            # Unmount Kernel Virtual File System used in previous Gentoo
sessions.
            echo "Gentoo is now set to '$Gentoo'"
            echo "Now proceed with the unmount of <Kernel Virtual File
System> for chroot"
            umount -q -l $Gentoo/dev/{shm,pts}
            umount -q -R $Gentoo
            sleep 10
            for kvfs in dev/shm dev/pts sys proc run dev ; do
                if mountpoint $Gentoo/$kvfs; then umount -q
$Gentoo/$kvfs; fi
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done
findmnt -o FSTYPE,SIZE,USED,AVAIL,USE%,TARGET | grep lfs
echo "Ok unmount unnecessary devices"
echo "Good bye"
exit 0
else
echo "Cleanup of Kernel Virtual File System is Complete."
findmnt -o FSTYPE,SIZE,USED,AVAIL,USE%,TARGET | grep gentoo
exit 0
fi
;;
start|s|-s)
# Mount the Kernel Virtual File System to Enter Gentoo chroot
environment.
echo "Now proceed with the mount of <Kernel Virtual File System> for
chroot"
echo "Gentoo is now set to '$Gentoo'"
if ! mountpoint -q $Gentoo/proc; then mount --type proc /proc
$Gentoo/proc; fi
if ! mountpoint -q $Gentoo/dev; then mount --rbind /dev $Gentoo/dev;
mount --make-rslave $Gentoo/dev; fi
if ! mountpoint -q $Gentoo/sys; then mount --rbind /sys $Gentoo/sys;
mount --make-rslave $Gentoo/sys; fi
if ! mountpoint -q $Gentoo/run; then mount --rbind /run $Gentoo/run;
mount --make-rslave $Gentoo/run; fi
if ! mountpoint -q $Gentoo/mnt/Gentoo; then mount --rbind
/mnt/n40l/Gentoo $Gentoo/Gentoo; fi
findmnt -o FSTYPE,SIZE,USED,AVAIL,USE%,TARGET | grep gentoo
# Run 'chroot'
chroot "$Gentoo" $(type -p env) -i \
HOME=/root \
TERM="$TERM" \
PS1='<Gentoo> \u@\h [ \w ] \$ ' \
PATH=/usr/bin:/usr/sbin \
MAKEFLAGS="-j$(nproc)" \
TESTSUITEFLAGS="-j$(nproc)" \
NINJAJOBS="$(nproc)" \
/bin/bash --login
exit 0
;;
version|v|-v)
echo "Gentoo chroot script $VERSION"
exit 0
;;
help|h|-h)
echo "Gentoo chroot script $VERSION"
echo "Usage:"
echo "clean or c- Unmount Kernel Virtual File System"
echo "start or s- Mount and run 'chroot' command with necessary
variables"
echo "version or v- Print script version"

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    echo "help    or h - This screen"
    exit 0
;;
*)
    #Guidance on the factors needed to execute script
    echo "sh ./Auto_Gentoo.sh [ start | clean | help | version ]"
    exit 0
;;
esac
```

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