

## Linux Simple Home Directory Backup and Restore

The presentation walks through building a simple home directory backup and using the backup with an external USB drive. The presentation shows a possible home directory restore script.

The narration has not been added.

Preuss

11/7/2019



Home



Trash



CentOS 7 x86\_64



## home\_backup.sh - SciTE

File Edit Search View Tools Options Language Buffers Help

## 1 home\_backup.sh

```
#!/bin/bash
- # This will backup the requested home directory
# Please make sure you have permission
# www.ss64.com
# Preuss 11/7/2019

echo "Please run this script as root."

clear
echo -n "Please enter the login name of the home directory to backup. "
read LOGIN01

echo -n "Please enter the absolute path to the backup drive without ending / "
read DRIVE01
echo "This is a tar/zip only."

# This will now setup the necessary directory
mkdir -p "$DRIVE01"/"$HOSTNAME"_"$(date +%m-%d-%Y)"

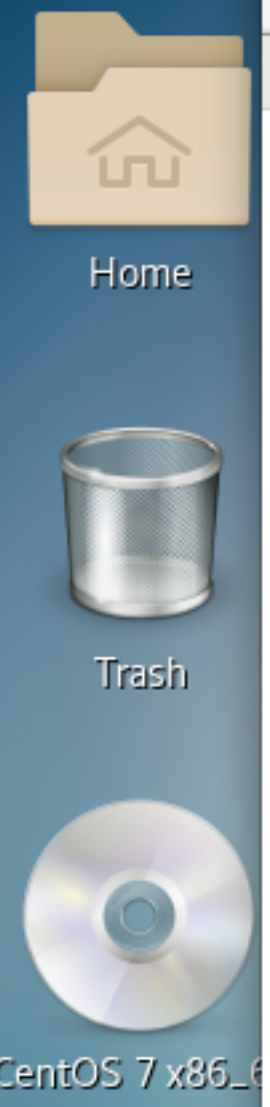
# This should create the tar for /etc
echo "The current directory in backup is /home/$LOGIN01"
tar czvf "$DRIVE01"/"$HOSTNAME"_"$(date +%m-%d-%Y)"/home.tgz /home/"$LOGIN01" >> /tmp/backup_"$(date +%m-%d-%Y)"
#A clear

echo "This will update the permissions."
chown -R "$LOGIN01" $DRIVE01/*.tgz

ls -l "$DRIVE01"/"$HOSTNAME"_"$(date +%m-%d-%Y)"/

echo "Done"|
```



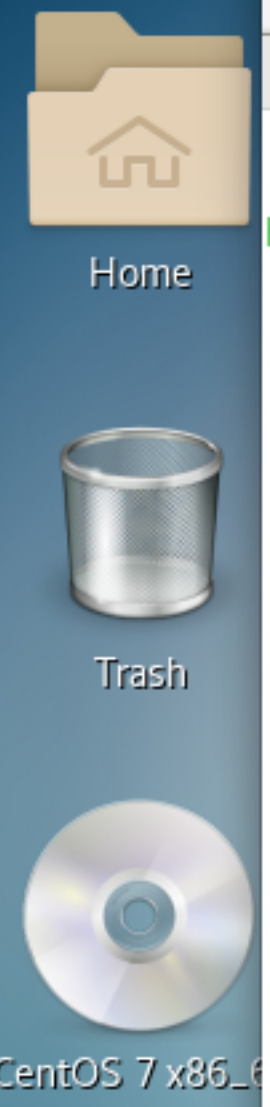


```
preuss@red-vm:/home/preuss
```

---

```
File Edit View Search Terminal Help
```

```
[root@red-vm preuss]#
```



```
preuss@red-vm:/home/preuss/backup
File Edit View Search Terminal Help
[root@red-vm preuss]# cd backup/
[root@red-vm backup]# ls
home_backup.sh  home_restore.sh
[root@red-vm backup]#
```

## home\_backup.sh - SciTE

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#A clear

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chown -R "$LOGIN01" $DRIVE01/*.tgz

ls -l "$DRIVE01"/"$HOSTNAME"_"$(date +%m-%d-%Y)"/

echo "Done"
```

Player ▾

- File >
- Power >
- Removable Devices >
- Send Ctrl+Alt+Del
- Manage >
- Full Screen Ctrl+Alt+Enter
- Unity
- Help >
- Exit

- ✓ CD/DVD (IDE) >
- ✓ Network Adapter >
- Sound Card >
- Edimax 802.11n WLAN Adapter >
- SanDisk Cruzer >
- Broadcom 5880 >
- Shared Broadcom Corp Contacted SmartCard 0 >

preuss@red-vm:/home/preuss/backup



Trash



CentOS 7 x86\_64

Player | [Pause] [Screenshot] [Fullscreen] [Close]

[System tray icons: network, volume, power]

- File >
- Power >
- Removable Devices >
- Send Ctrl+Alt+Del
- Manage >
- Full Screen Ctrl+Alt+Enter
- Unity
- Help >
- Exit

- ✓ CD/DVD (IDE) >
- ✓ Network Adapter >
- Sound Card >
- Edimax 802.11n WLAN Adapter >
- SanDisk Cruzer >
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- Connect (Disconnect from host)
- Change Icon...
- ✓ Show Icon

preuss@red-vm:/home/preuss/backup



Trash



CentOS 7 x86\_64



preuss@red-vm:/home/preuss/backup

File Edit View Search Terminal Help

```
[root@red-vm preuss]# cd backup/  
[root@red-vm backup]# ls  
home_backup.sh home_restore.sh  
[root@red-vm backup]#
```



Home



Trash



CentOS 7 x86\_64

red\_vm - VMware Workstation 15 Player

A USB device is about to be unplugged from the host and connected to this virtual machine. It will first be stopped to enable safe removal. With some devices, the host may display the message "The device can now safely be removed."

Do not show this message again

OK Cancel



Home



Trash



CentOS 7 x86\_64



CRUZER-4

```
preuss@red-vm:/home/preuss/backup
File Edit View Search Terminal Help
[root@red-vm preuss]# cd backup/
[root@red-vm backup]# ls
home_backup.sh  home_restore.sh
[root@red-vm backup]#
```

- Favorites
- Accessories
- Documentation
- Internet
- Office
- Programming
- Sound & Video
- Sundry
- System Tools
- Utilities
- Other

- Calculator
- Clocks
- Files
- Kate
- Text Editor
- Tweaks
- Weather

Activities Overview



preuss@red-vm:/home/preuss/backup

---

Navigation: < > Home

Search [Magnifying Glass] [Grid] [List] [Maximize] [Close]

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- Downloads
- Music
- Pictures
- Videos
- Trash
- CentOS 7 x8... ▲
- CRUZER-4 ▲
- + Other Locations

backup	cifs_rpt01.txt	cifs_test.sh	data01.txt
Desktop	dnsmasq.conf	Documents	Downloads
ending01.sh	happy_file.txt	happy_judly.txt	honu_happy.txt
hosts	judly.txt	Music	output

Terminal Window

```

preuss@red-vm:/home/preuss/backup$ ./home_backup.sh
[home_backup.sh - SciTE]

```

Navigation: < > | **CRUZER-4** | 🔍 ⌵ ☰ - □ ×

- 🕒 Recent
- 🏠 Home
- 📄 Documents
- ⬇ Downloads
- 🎵 Music
- 📷 Pictures
- 📺 Videos
- 🗑 Trash
- 🌐 CentOS 7 x8... ▲
- 📁 CRUZER-4** ▲
- + Other Locations

Content:

- 📁 airtame
- 📁 backup
- 📁 dban
- 📁 System Volume Information

Background: Blue gradient desktop background.

Window: A white window with a grey title bar (min, max, close) is partially visible on the right side of the screen.

CRUZER-4

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- CentOS 7 x8... ▲
- CRUZER-4** ▲
- + Other Locations

airtime dban System Volume Information

CRUZER-4

- Open
- Open in New Tab
- Open in New Window
- Add Bookmark
- Remove
- Rename...
- Eject
- Safely Remove Drive
- Properties
- Format...

airtime dban System Volume Information

CRUZER-4

+ Other Locations

CRUZER-4

CRUZER-4 Properties

Basic Permissions

Name: CRUZER-4  
 Type: Folder (inode/directory)  
 Contents: 15 items, totalling 212.4 MB

Parent Folder: /run/media/preuss  
 Volume: CRUZER-4

212.5 MB used  
 3.8 GB free  
 Total capacity: 4.0 GB  
 Filesystem type: msdos



◀ ▶ ◀ CRUZER-4 ▶ 🔍 ⌵ ☰ - ◻ ×

- 🕒 Recent
- 🏠 Home
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- ⬇ Downloads
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- 📷 Pictures
- 📺 Videos
- 🗑 Trash
- 🌐 CentOS 7 x8...

### CRUZER-4 Properties

Basic
Permissions

---

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Contents: 15 items, totalling 212.4 MB

Parent Folder: /run/media/preuss

Volume: CRUZER-4

preuss@red-vm:/home/preuss/backup - ◻ ×

```
File Edit View Search Terminal Help
[root@red-vm preuss]# cd backup/
[root@red-vm backup]# ls
home_backup.sh home_restore.sh
[root@red-vm backup]# ./home_backup.sh
```

Navigation: < > < CRUZER-4 > | Search, View, Menu, Window, Close

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- Trash
- CentOS 7 x8...

### CRUZER-4 Properties

**Basic** | Permissions

Name: CRUZER-4  
 Type: Folder (inode/directory)  
 Contents: 15 items, totalling 212.4 MB

Parent Folder: /run/media/preuss  
 Volume: CRUZER-4

Terminal Title: preuss@red-vm:/home/preuss/backup

```
File Edit View Search Terminal Help
Please enter the login name of the home directory to backup. preuss
```


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### CRUZER-4 Properties

**Basic** | Permissions

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 Type: Folder (inode/directory)  
 Contents: 15 items, totalling 212.4 MB

Parent Folder: /run/media/preuss  
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- CRUZER-4
- + Other Locat...

```
File Edit View Search Terminal Help
Please enter the login name of the home directory to backup. preuss
Please enter the absolute path to the backup drive without ending / /run/media/preuss
```

CRUZER-4

- Recent
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- CentOS 7 x86...

### CRUZER-4 Properties

Basic Permissions

Name: CRUZER-4

Type: Folder (inode/directory)

Contents: 15 items, totalling 212.4 MB

Parent Folder: /run/media/preuss

Volume: CRUZER-4

- CRUZER-4
- Other Locations

```
preuss@red-vm:/home/preuss/backup
File Edit View Search Terminal Help
Please enter the login name of the home directory to backup. preuss
Please enter the absolute path to the backup drive without ending / /run/media/preuss
This is a tar/zip only.
The current directory in backup is /home/preuss
tar: Removing leading `/' from member names
tar: /home/preuss/.speech-dispatcher/speechd.sock: socket ignored
This will update the permissions.
chown: cannot access '/run/media/preuss/*.tgz': No such file or directory
total 140624
-rw-r--r--. 1 root root 143995051 Nov  7 17:05 home.tgz
Done
[root@red-vm backup]#
```

## home\_restore.sh - SciTE

File Edit Search View Tools Options Language Buffers Help

1 home\_backup.sh 2 home\_restore.sh

```
#!/bin/bash
- # This will restore the requested home directory to a directory of your choice
# Please make sure you have permission
# www.ss64.com
# Preuss 11/7/2019

echo "Please run this script as root."
echo -n "Please enter the absolute path to the drive with the restore without ending /  "
read DRIVE01

ls -lR $DRIVE01

echo -n "Please enter the relative (without drive) path and tgz file to restore  "
read DRIVE02

echo -n "Please enter the absolute path and directory name to restore the files from the backup without ending /  "
read DIR01

# This will now create and enter the restore directory
mkdir -p $DIR01
cd $DIR01

# This copies the tgz to the restore directory
cp "$DRIVE01"/"$DRIVE02" "$DIR01"

# This should extract the tar for /etc
echo "The current directory in backup is /home/$LOGIN01"
tar xzvf *.tgz
#A clear

ls -lR "$DIR01"

echo "Done"
```



Home



Trash



CentOS 7 x86\_64



CRUZER-4