

Cloning

- [Clone machines with CloneZilla and iVentoy](#)

Clone machines with CloneZilla and iVentoy

This guide will describe how to clone & restore disks using [CloneZilla](#) booted over PXE using [iVentoy](#) on Windows.

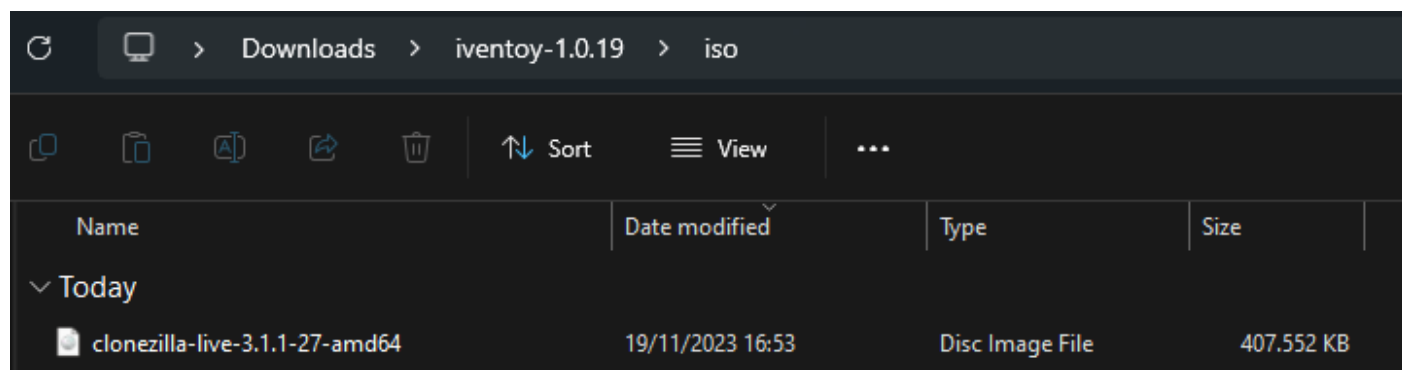
Prerequisites:

CloneZilla ISO: <https://clonezilla.org/downloads/download.php?branch=stable>

iVentoy ZIP: <https://github.com/iventoy/PXE/releases/download/v1.0.19/iventoy-1.0.19-win64-free.zip>

Setup iVentoy:

Unpack the iVentoy ZIP and add the CloneZilla ISO to iVentoy's ISO folder.



Now start iVentoy by running `iventoy_64.exe`, this should open iVentoy's web interface. Here we can start iVentoy's built-in DHCP server to start serving PXE.

 Boot Information

IP Configuration

Select
Server IP

10.141.111.39

NIC Name

Realtek USB GbE Family Controller

Subnet Mask

255.255.255.0

GateWay

10.141.111.254

IP Pool
(begin)

10.141.111.200

IP Pool (end)

10.141.111.219

DNS Server

Optional, can leave it blank

RUNNING

Now you can boot your CloneZilla over PXE on the device you want to clone or restore.



iVentoy 1.0.19 X64 UEFI

www.iventoy.com

----- ISO Boot Menu -----

398MB clonezilla-live-3.1.1-27-amd64.iso

----- Tools Menu -----

Reboot Computer
Screen Resolution
Exit and continue BIOS boot

GNU GRUB version 2.12~rc1-11

```
*Clonezilla live (VGA 800x600)
Clonezilla live (VGA 800x600 & To RAM)
Clonezilla live (VGA with large font & To RAM)
Clonezilla live (Speech synthesis)
Other modes of Clonezilla live
Local operating system (if available)
Memtester (VGA 800x600 & To RAM)
Memtest using Memtest86+
Network boot via iPXE
uEFI firmware setup
Clonezilla live 3.1.1-27-amd64 info
```

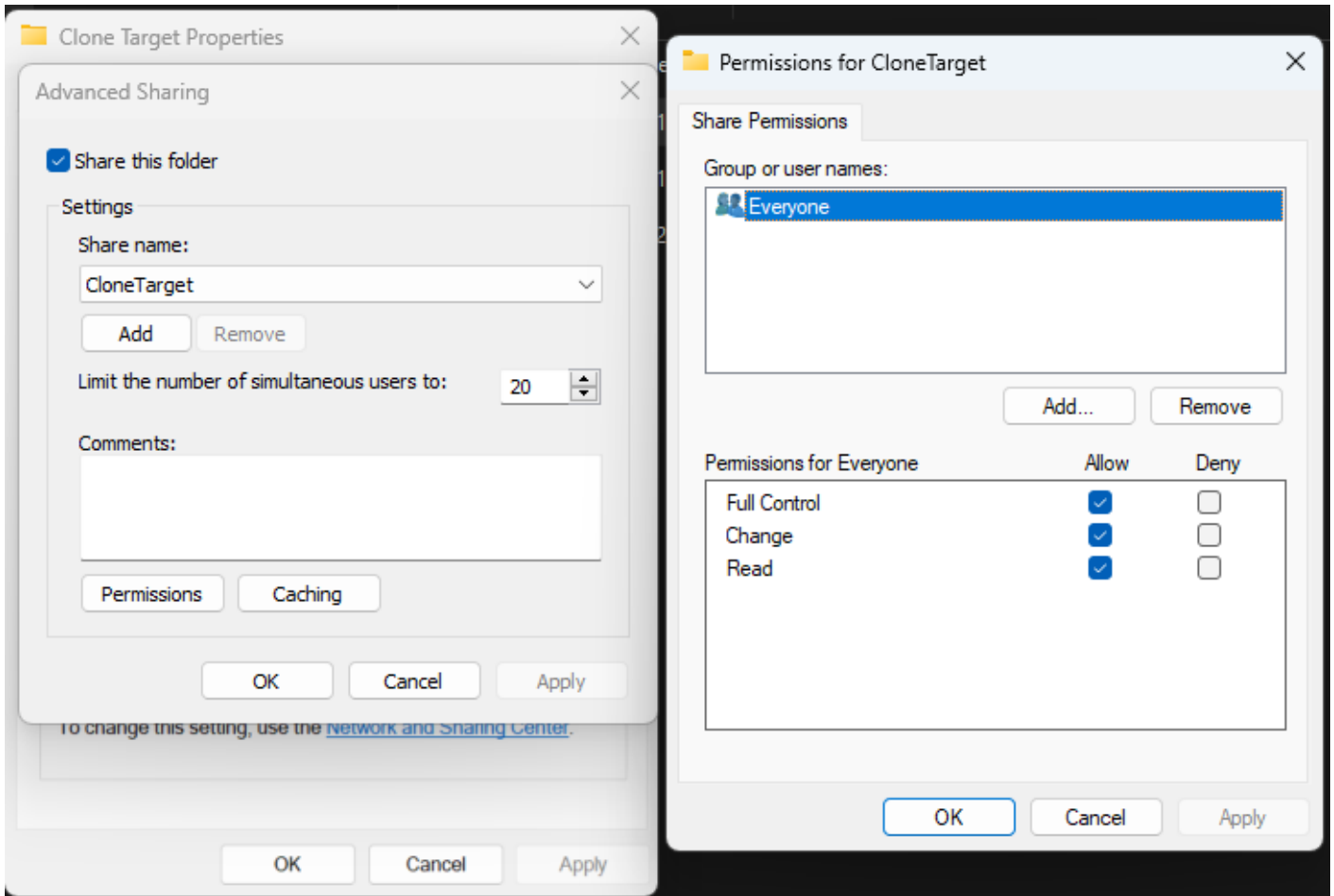
Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands before booting or 'c' for a command-line.

Clonezilla

*Free Software Labs, National Center for
High-Performance Computing, Taiwan*

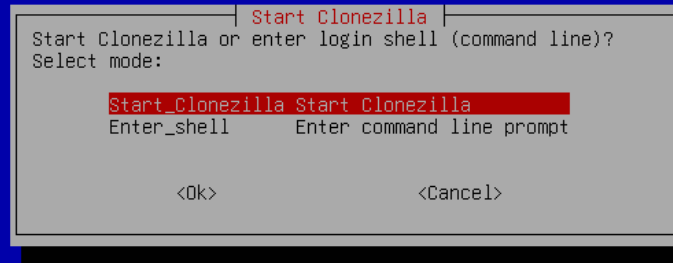
SMB share

Create a SMB-share on the Windows machine running iVentoy, this share will be used as a target for the disk cloning or source for restoring a disk image.



CloneZilla

Start CloneZilla.



Select device-image.

```
Clonezilla - Opensource Clone System (OCS)
*Clonezilla is free (GPL) software, and comes with ABSOLUTELY NO WARRANTY*
///Hint! From now on, if multiple choices are available, you have to press space key to mark your selection. An asterisk (*)
will be shown when the selection is done///
Two modes are available, you can
(1) clone/restore a disk or partition using an image
(2) disk to disk or partition to partition clone/restore.
Besides, Clonezilla lite server and client modes are also available. You can use them for massive deployment
Select mode:
device-image work with disks or partitions using images
device-device work directly from a disk or partition to a disk or partition
remote-source Enter source mode of remote device cloning
remote-dest   Enter destination mode of remote device cloning
lite-server   Enter_Clonezilla_live_lite_server
lite-client   Enter_Clonezilla_live_lite_client

<Ok>                                <Cancel>
```

Select samba_server.

Mount Clonezilla image directory

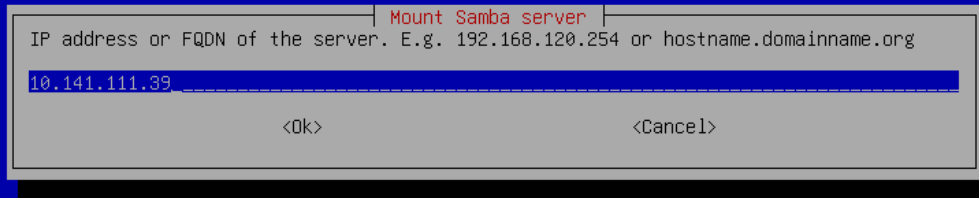
Before cloning, you have to assign where the Clonezilla image will be saved to or read from. We will mount that device or remote resources as /home/partimag. The Clonezilla image will be saved to or read from /home/partimag.
Select mode:

- local_dev Use local device (E.g.: hard drive, USB drive)
- ssh_server Use SSH server
- samba_server Use SAMBA server (Network Neighborhood server)
- nfs_server Use NFS server
- webdav_server Use_WebDAV_server
- s3_server Use_AWS_S3_server
- enter_shell Enter command line prompt. Do it manually
- ram_disk Use memory (OK for BT from raw device)
- skip Use existing /home/partimag (Memory! *NOT RECOMMENDED*)

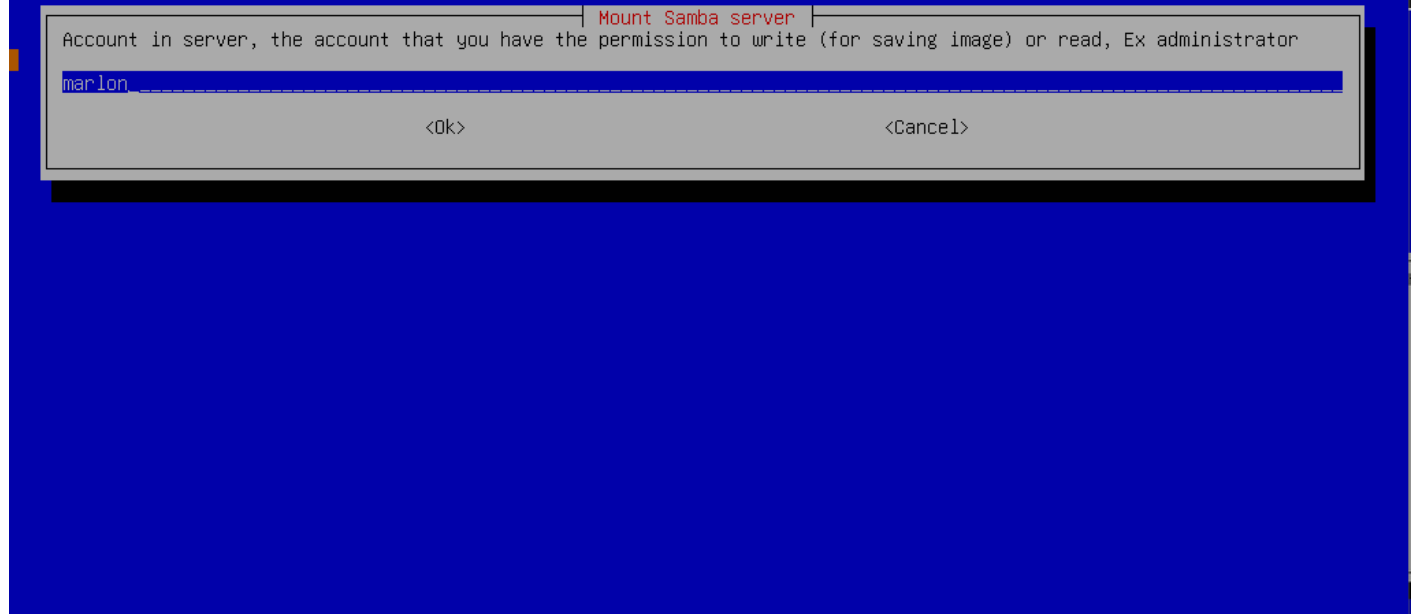
<Ok>

<Cancel>

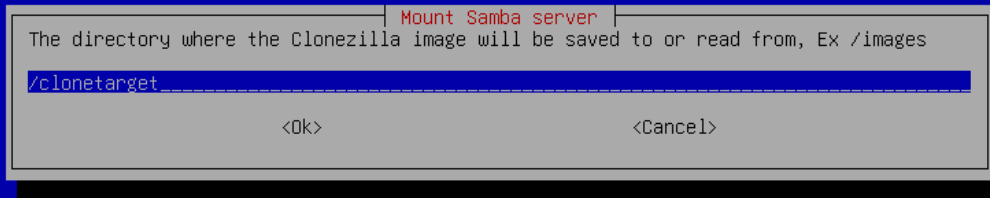
Enter the IP of the device that serves the SMB-share.



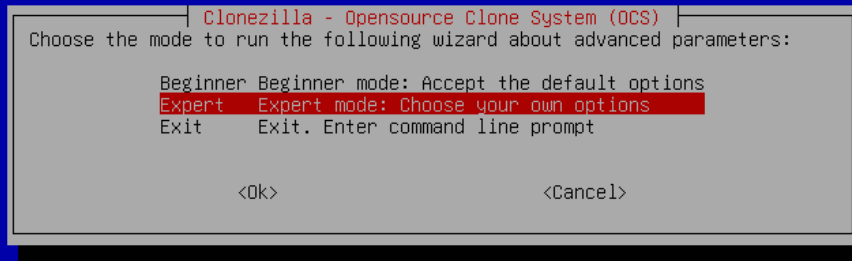
Enter the SMB-share username.



Enter the SMB-share path, after this you will be prompted for your account password.



Select export mode.



Select either savedisk or restoredisk, savedisk will save the disk image to the SMB-share, restoredisk will allow for restoring disk images from the SMB-share.

Clonezilla - Opensource Clone System (OCS): Select mode

Clonezilla is free (GPL) software, and comes with ABSOLUTELY NO WARRANTY

This software will overwrite the data on your hard drive when restoring! It is recommended to backup important files before restoring!***

///Hint! From now on, if multiple choices are available, you have to press space key to mark your selection. An asterisk (*) will be shown when the selection is done///

savedisk	Save_local_disk_as_an_image
saveparts	Save_local_partitions_as_an_image
restoredisk	Restore_an_image_to_local_disk
restoreparts	Restore_an_image_to_local_partitions
1-2-mdisks	Restore_an_image_to_multiple_local_disks
recovery-iso-zip	Create_recovery_Clonezilla_live
chk-img-restorable	Check_the_image_restorable_or_not
cvt-img-compression	Convert_image_compression_format_as_another_image
encrypt-img	Encrypt_an_existing_unencrypted_image
decrypt-img	Decrypt_an_existing_encrypted_image
exit	Exit. Enter command line prompt

<Ok>

<Cancel>