

Partition Manager

Contents

1. About the Partition Manager	2
2. How to start	3
3. How to	4
3.1. Exit the Partition Manager	4
3.2. Initialize partition table	5
3.3. Create partition	9
3.4. Format existing partition	14
3.5. Backup partition to image file	19
3.6. Restore partition from image file	25
3.7. Direct copying of partitions	32
3.8. Change MBR partition type or GPT partition instance/type GUID or label	36
3.9. Wipe entire partition	41
3.10. Wipe free space in partition	47
3.11. Delete partition	52

1. About the Partition Manager

Partition Manager is a component of Emergency Boot Kit which can be used to initialize partition tables; create, format, delete, wipe partitions; and to edit partition metadata. Also Partition Manager can backup partition to image file, restore partition from image file, and copy partition-to-partition directly. Also Partition Manager can wipe free space in partition (to prevent restoring of recently deleted files).

When saving partition image, user can trade speed for size and vice versa. Partition image files are stored in open format (gzip or lzma2/xzip) so they can be restored with third-party tools if necessary. Marked-as-free-in-filesystem blocks are stored in partition image files in zero-filled form for better compression and processing time.

Partition Manager supports both GPT and MBR formats of partition table.

2. How to start

After booting, Emergency Boot Kit displays its main menu.

To start the Partition Manager, press the **F6** key or click mouse on *Partition manager* line.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3. How to

3.1. Exit the Partition Manager

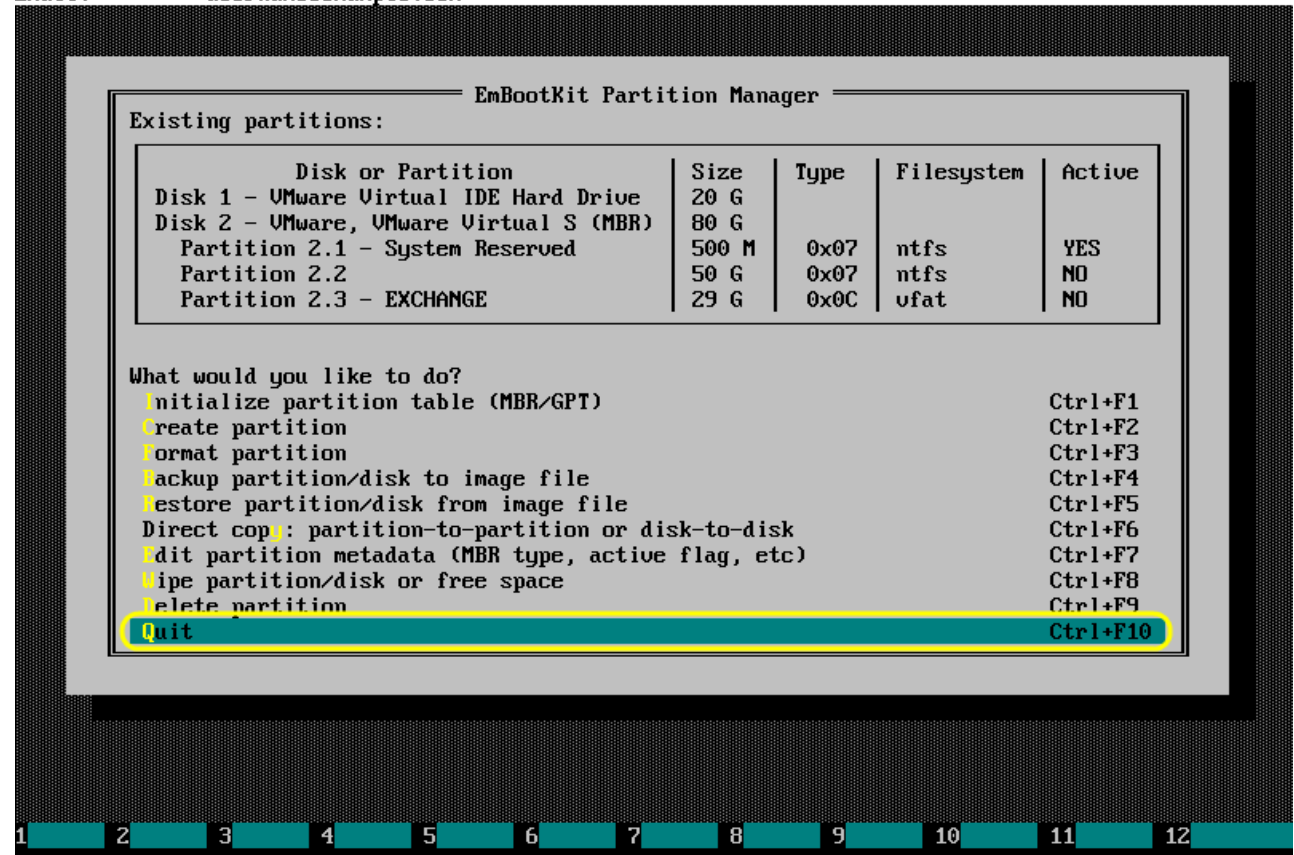
To exit editor, press **Ctrl+F10** or **Esc**.

Alternatively, you can click *Quit* menu item.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name

Email: username@example.com



EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive	20 G			
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Resize partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9
- Quit** **Ctrl+F10**

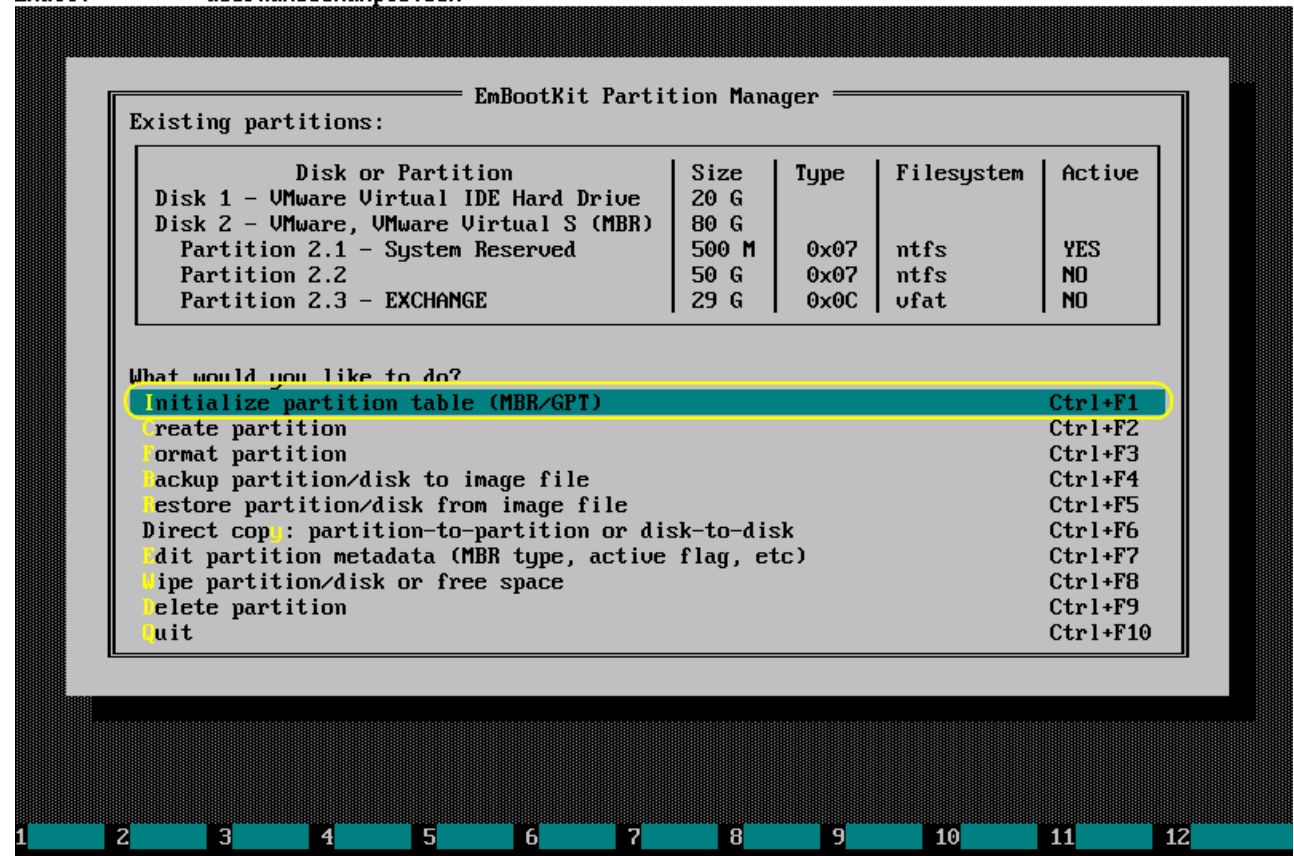
1 2 3 4 5 6 7 8 9 10 11 12

3.2. Initialize partition table

Click *Initialize partition table (MBR/GPT)* or press **Ctrl+F1** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

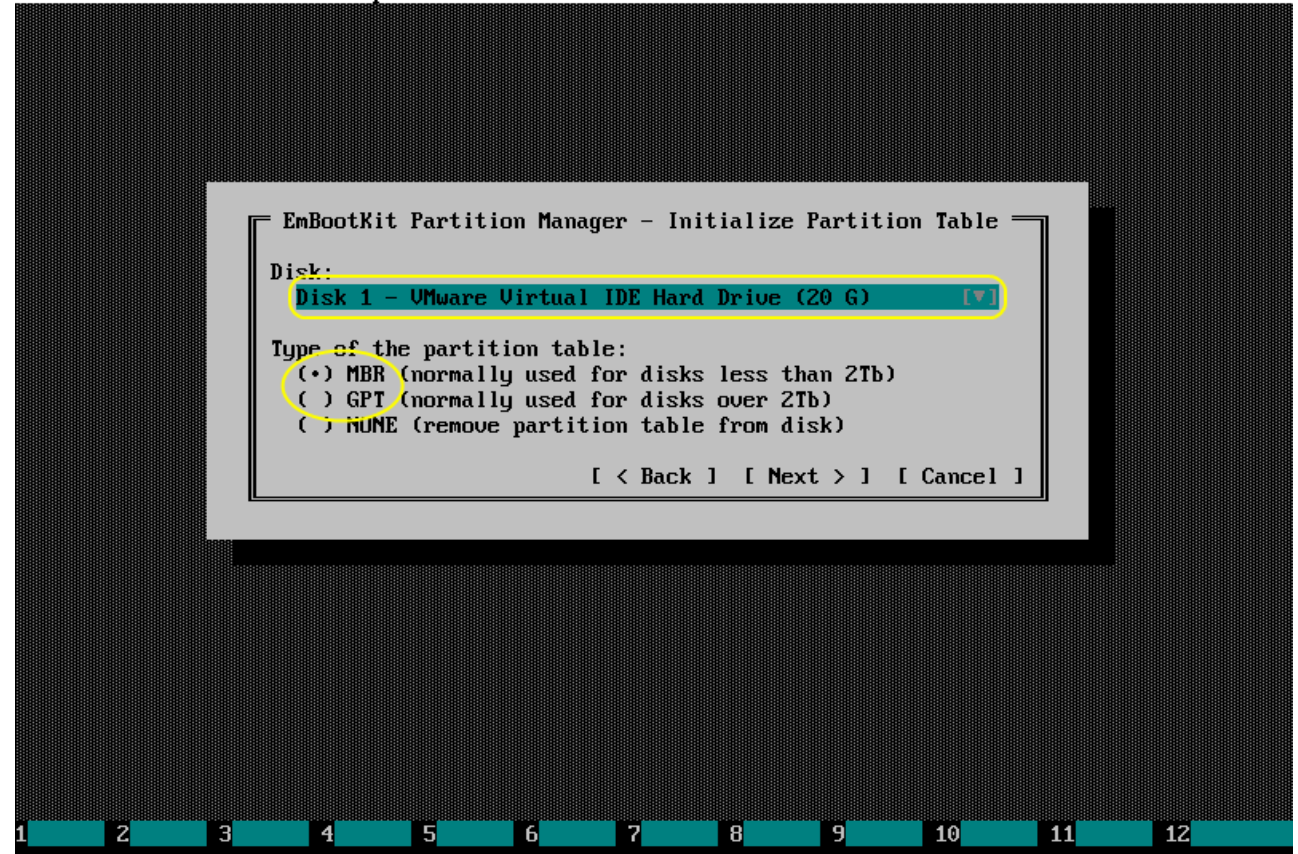


Choose newly attached physical disk and the type of partition table you want to initialize: either MBR or GPT.

If chosen physical disk already has a partition table, Partition Manager won't destroy existing partitions.

Emergency Boot Kit version 1.6a (64-bit)

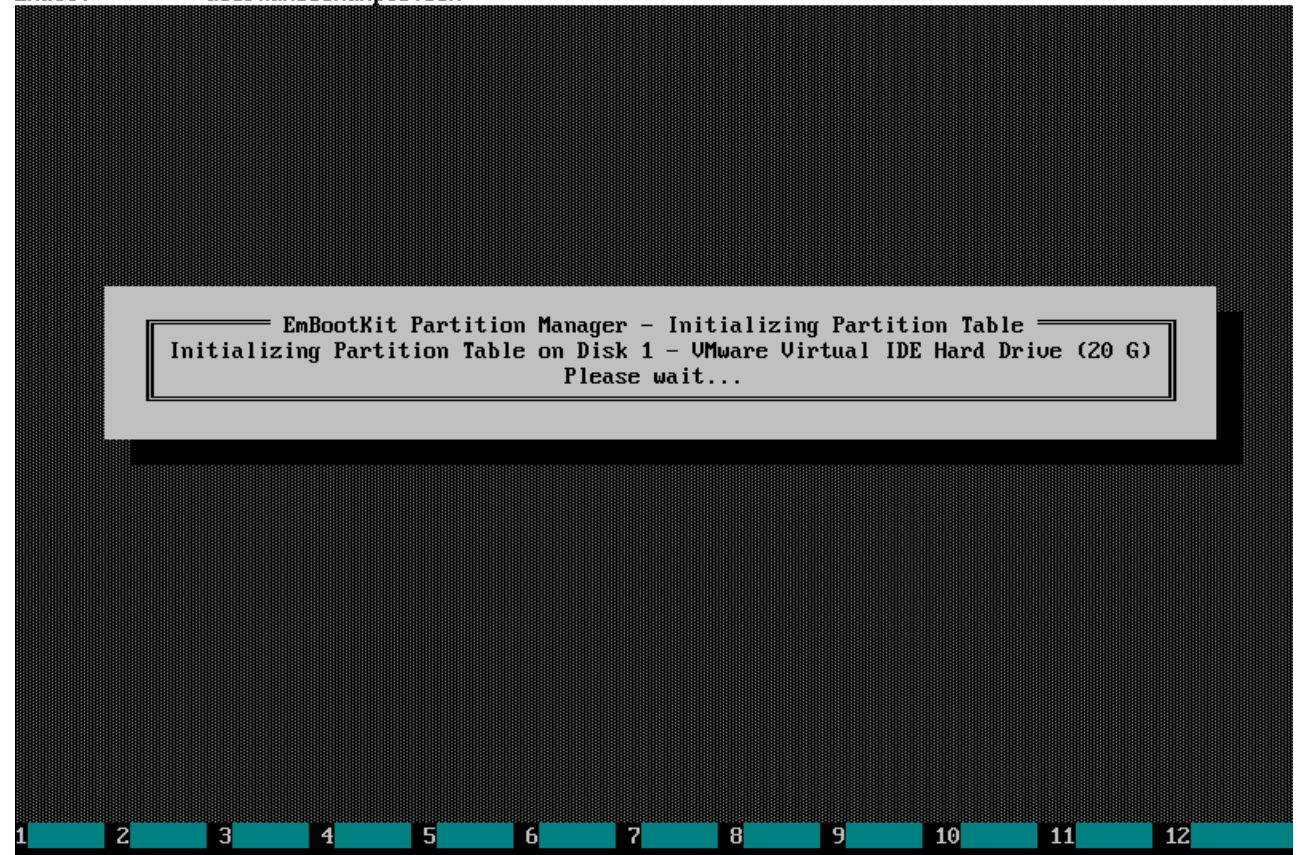
Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

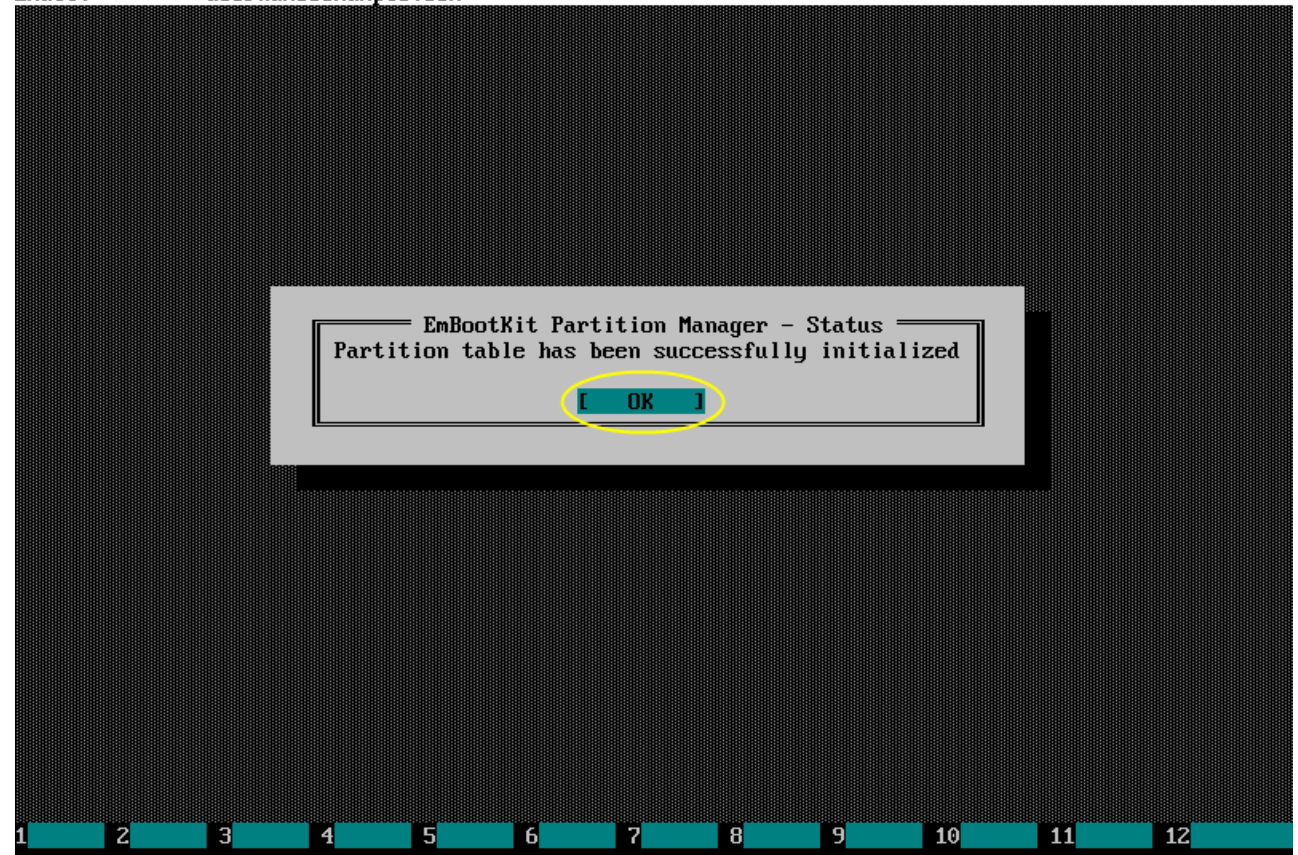
Registered to: User Name
Email: username@example.com



If partition table has been initialized normally, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.3. Create partition

Click *Create partition* or press **Ctrl+F2** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (MBR)	20 G			
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition** **Ctrl+F2**
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Erase partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9
- Quit Ctrl+F10

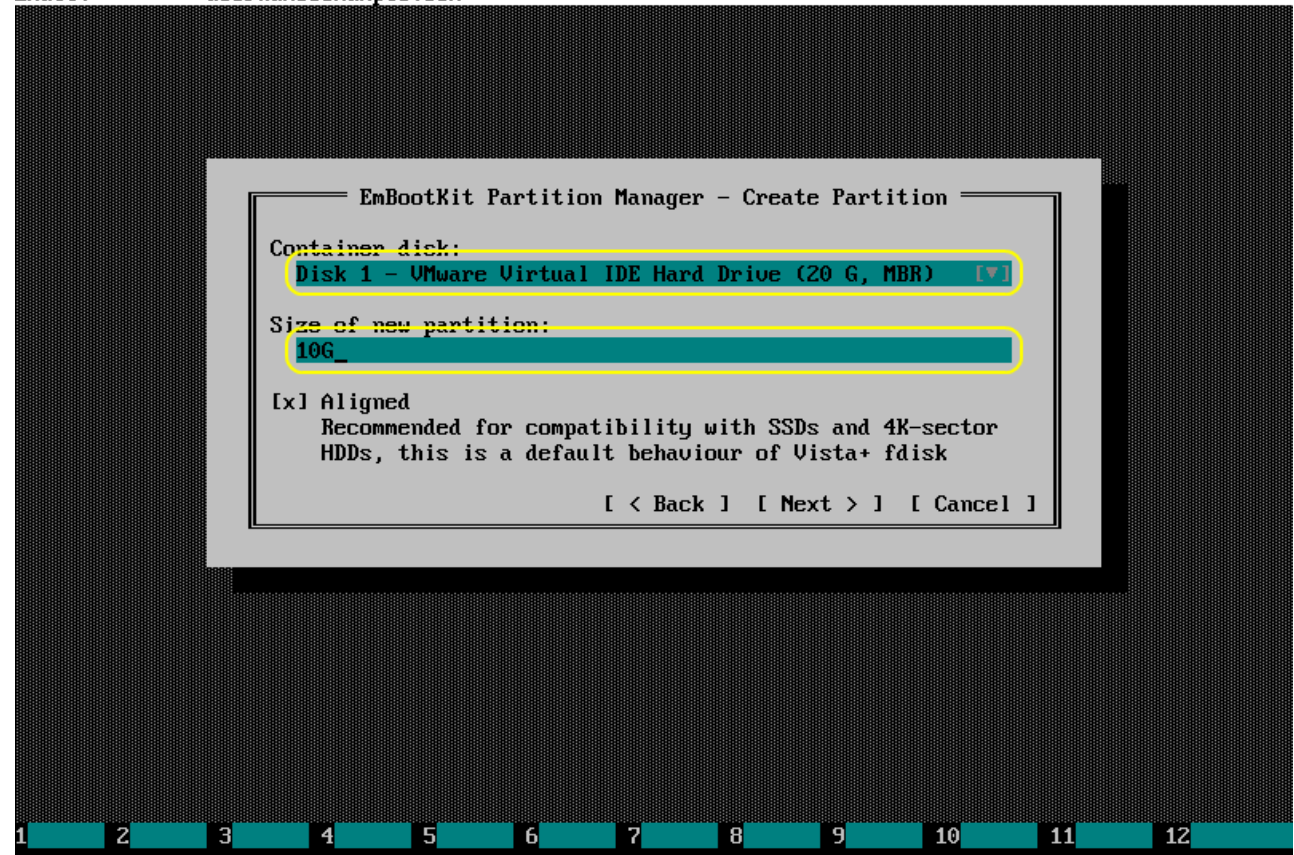
1 2 3 4 5 6 7 8 9 10 11 12

Choose container disk of new partition and set its size in bytes. Common suffixes are supported (*K* for kilo, *M* for mega, *G* for giga, *T* for tera, *P* for peta).

Then click *Next*> or press **Enter**.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

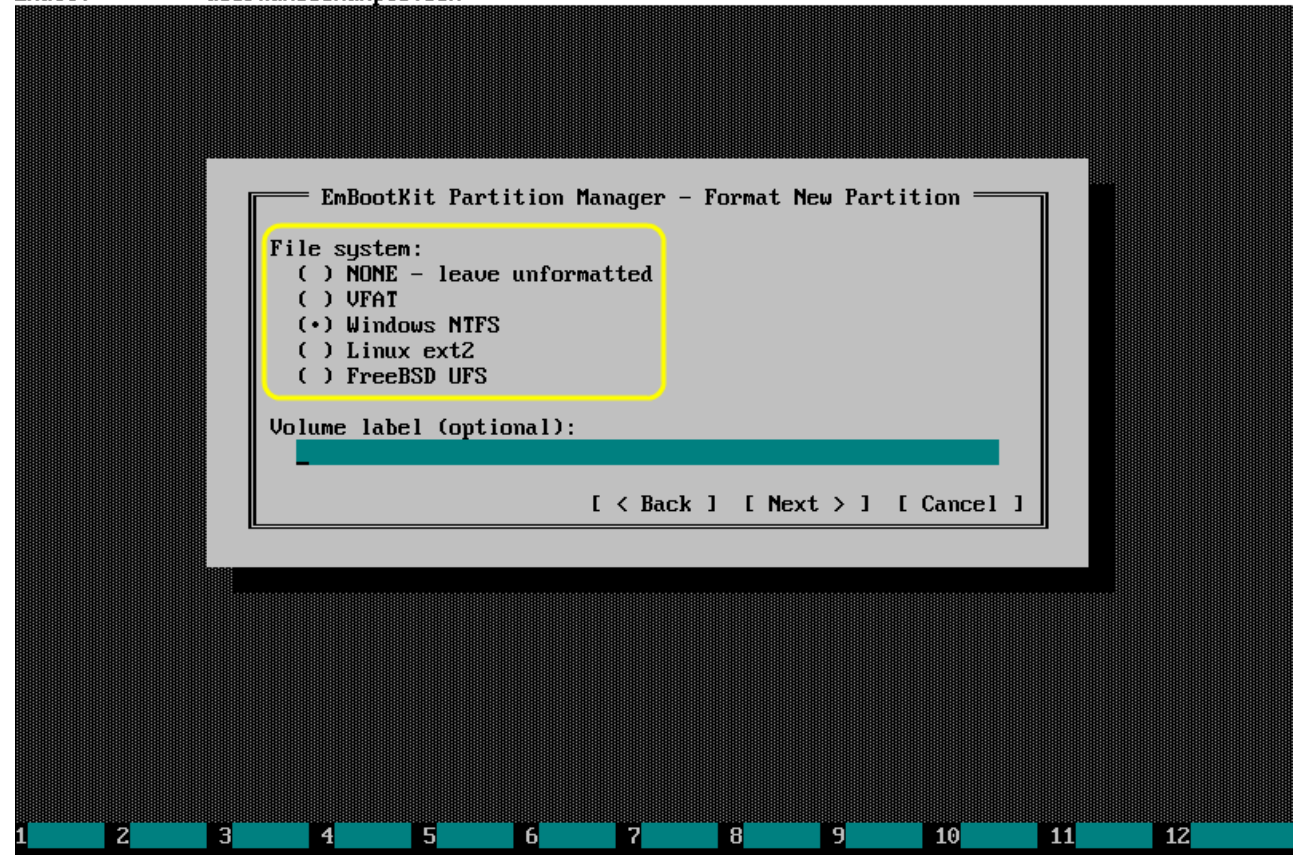


If you are Windows user, normally you want new partition formatted as NTFS.

Set appropriate option, then click *Next*> or press **Enter**.

Emergency Boot Kit version 1.6a (64-bit)

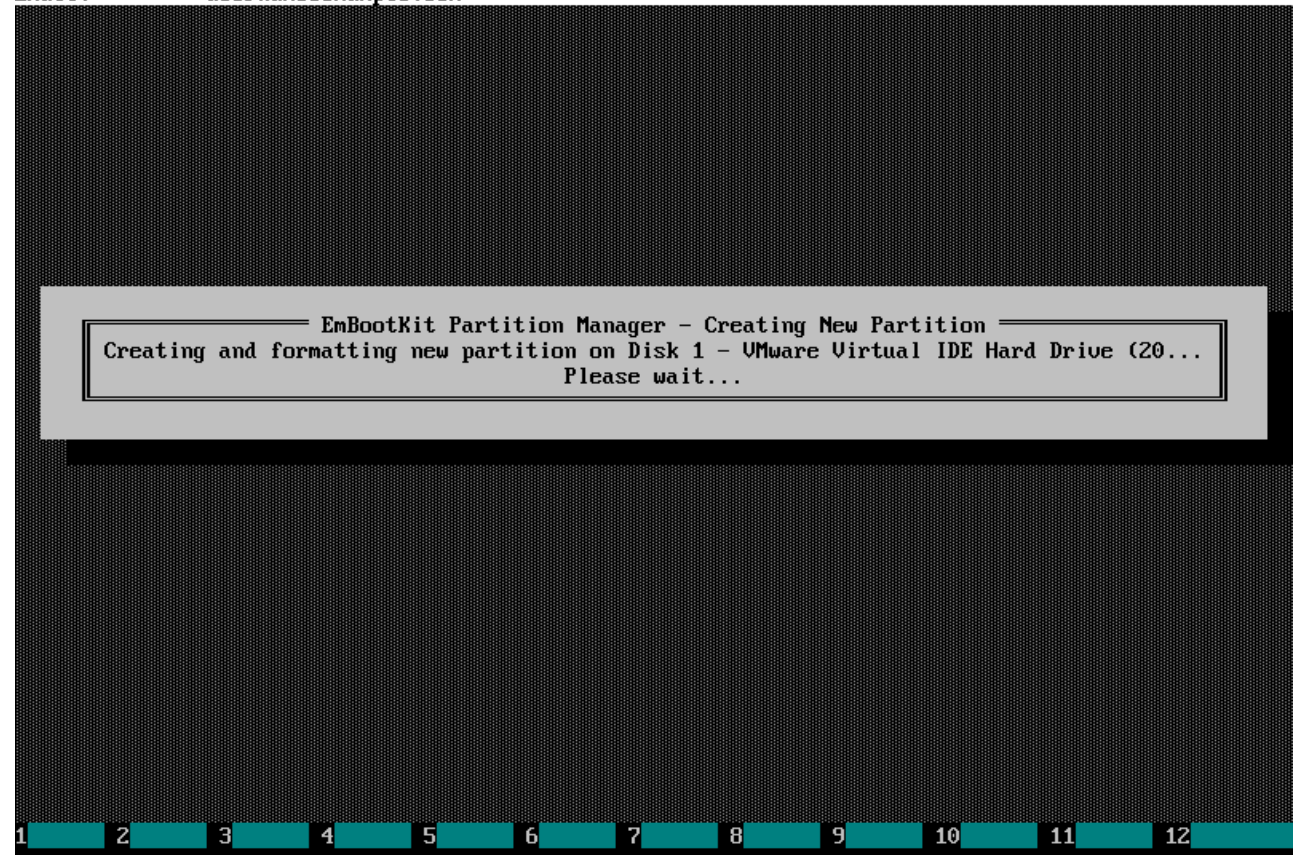
Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

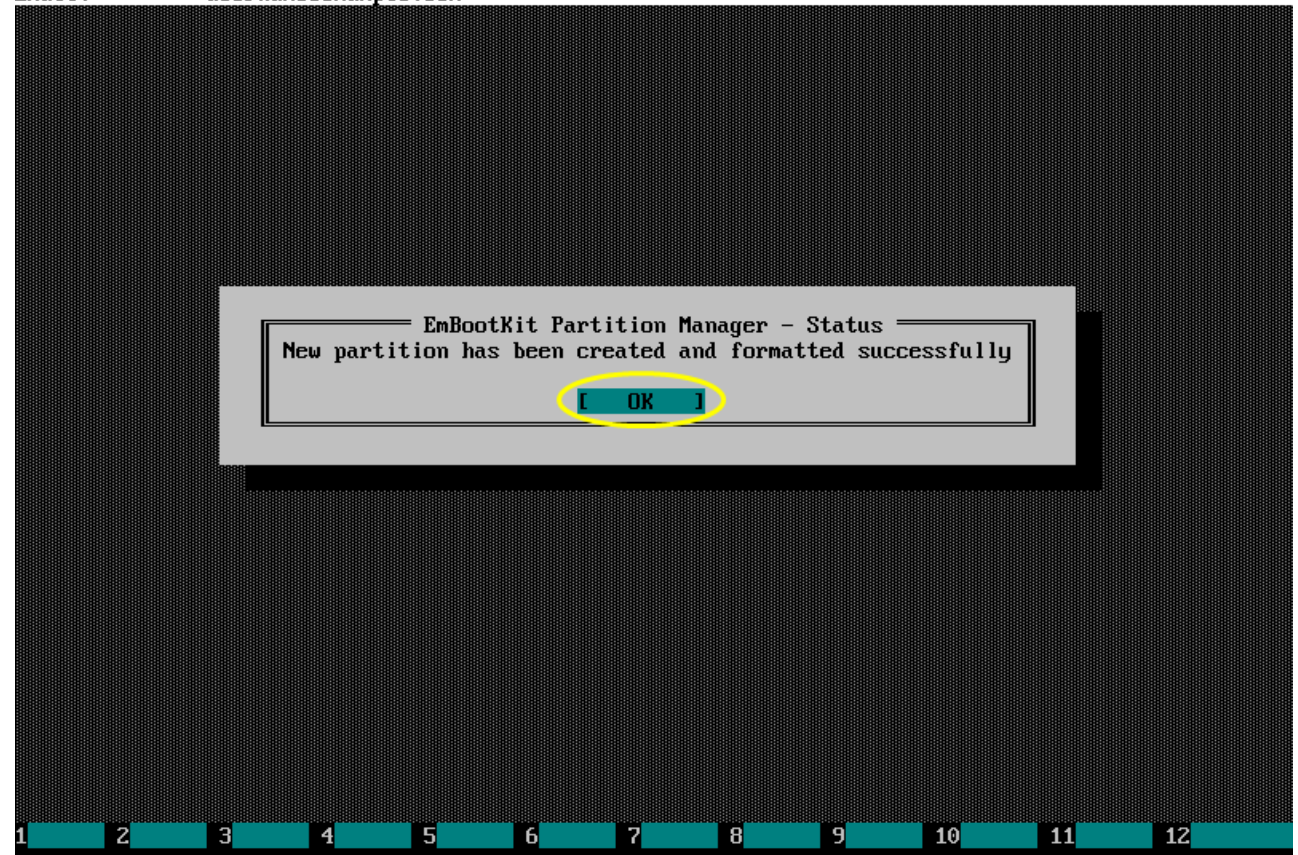
Registered to: User Name
Email: username@example.com



If partition has been created normally, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.4. Format existing partition

Click *Format partition* or press **Ctrl+F3** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (MBR)	20 G			
Partition 1.1	9 G	0x07	ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

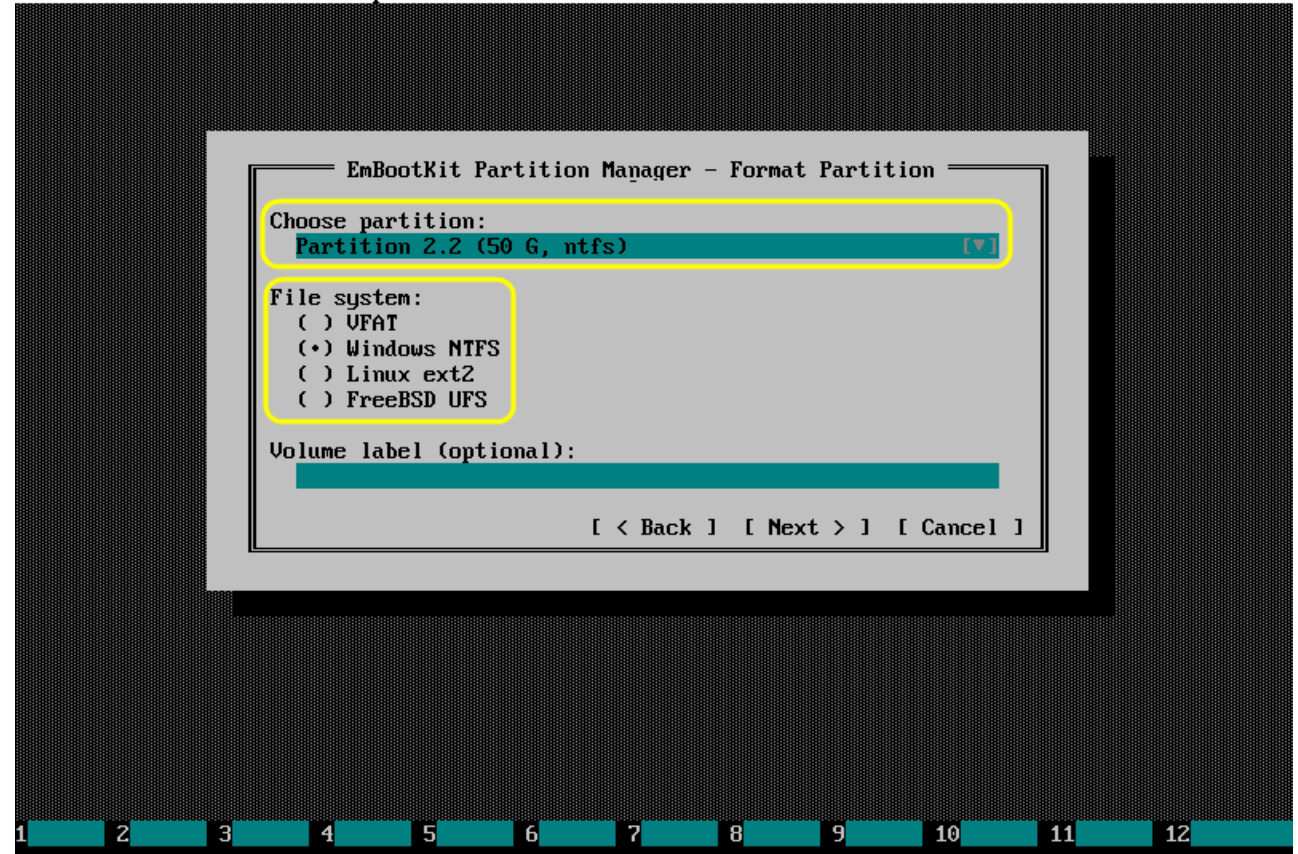
- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition** **Ctrl+F3**
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Wipe partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9
- Quit Ctrl+F10

1 2 3 4 5 6 7 8 9 10 11 12

Choose partition from the dropdown list, then choose partition type. Click *Next*> or press **Enter**.

Emergency Boot Kit version 1.6a (64-bit)

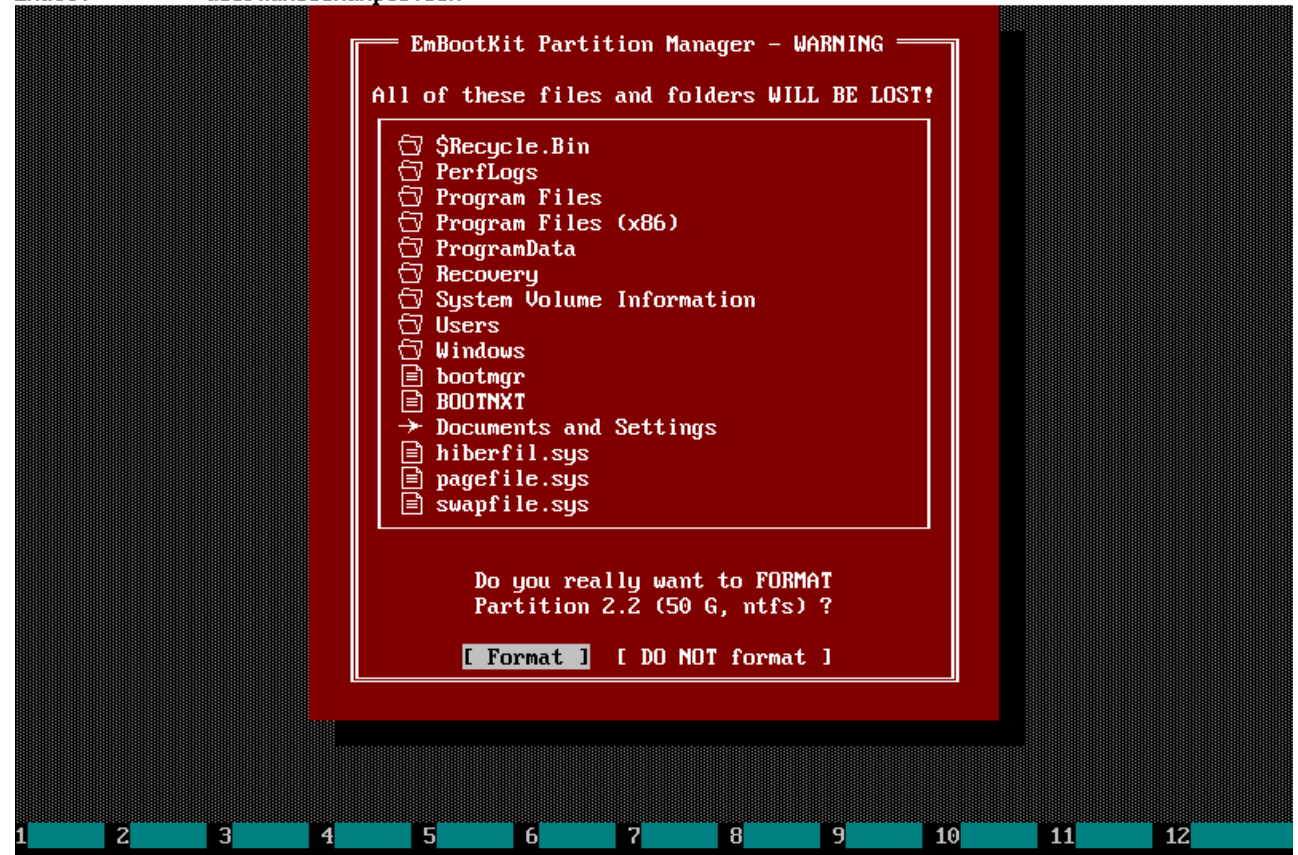
Registered to: User Name
Email: username@example.com



If partition contains any files or folders, then warning like this will be displayed.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

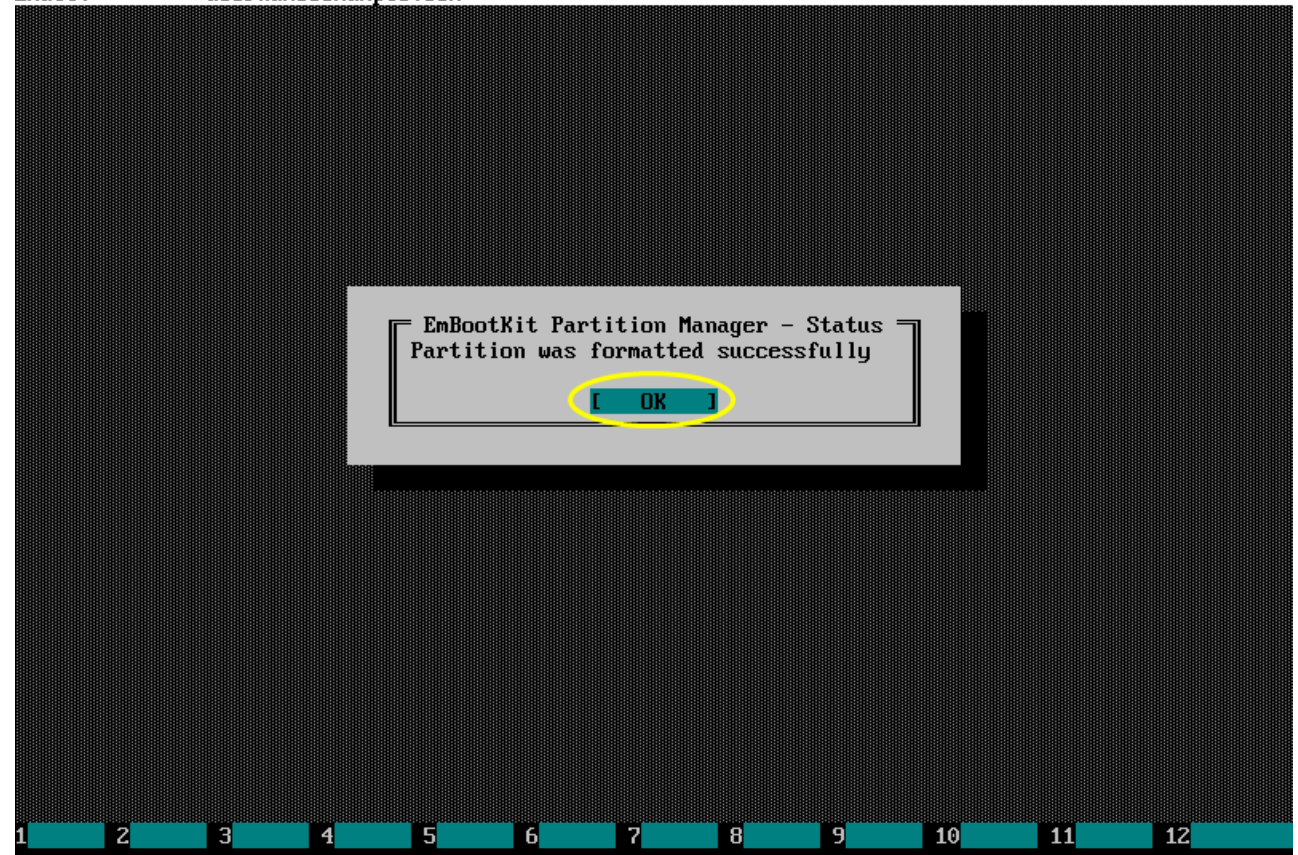
Registered to: User Name
Email: username@example.com



If partition was formatted normally, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.5. Backup partition to image file

Click *Backup partition/disk to image file* or press **Ctrl+F4** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (GPT)	60 G			
Partition 1.1	51 G		ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO
Disk 3 - SanDisk Extreme (MBR)	29 G			
Partition 3.1	29 G	0x0C	ntfs	YES

What would you like to do?

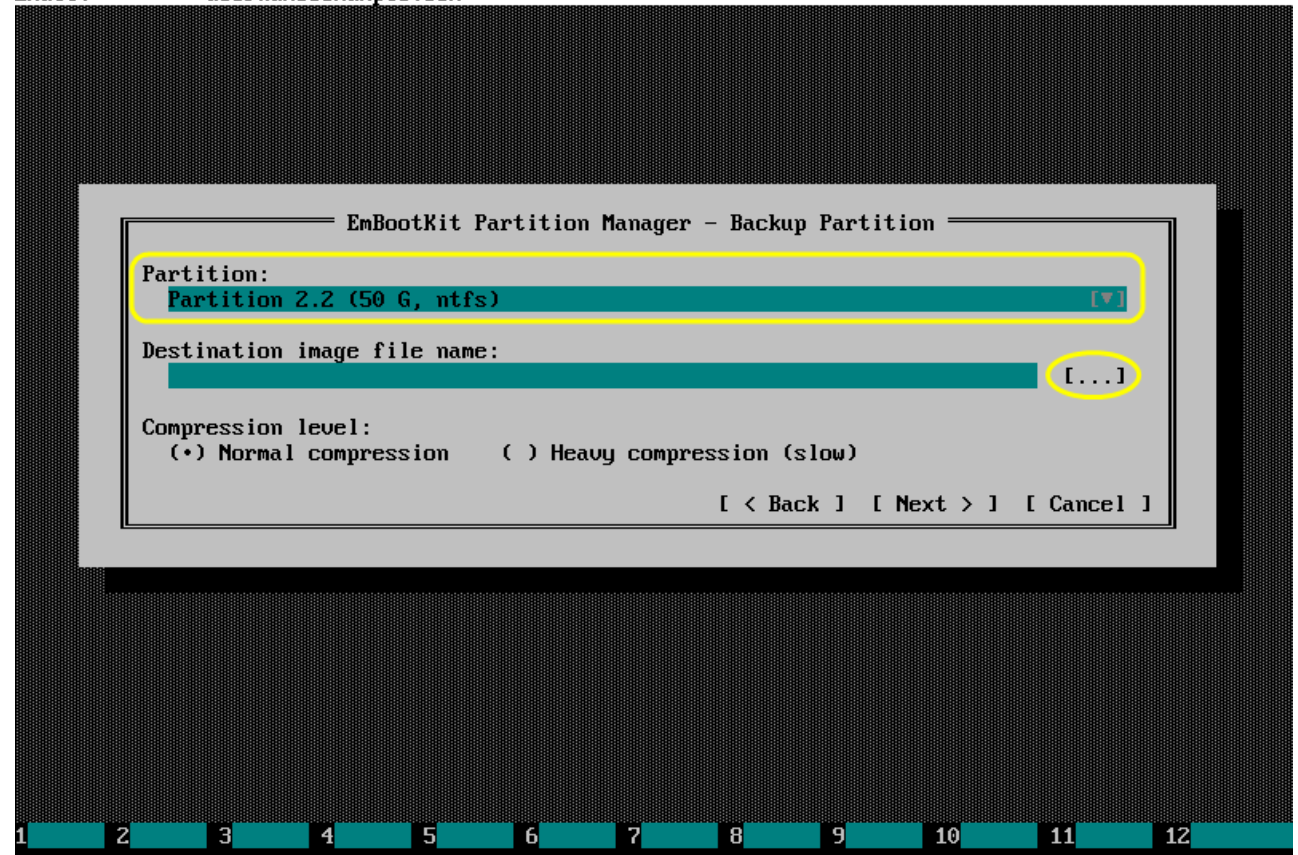
- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4**
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Wipe partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9
- Quit Ctrl+F10

1 2 3 4 5 6 7 8 9 10 11 12

Choose source partition and click [...] button to specify destination image file.

Emergency Boot Kit version 1.6a (64-bit)

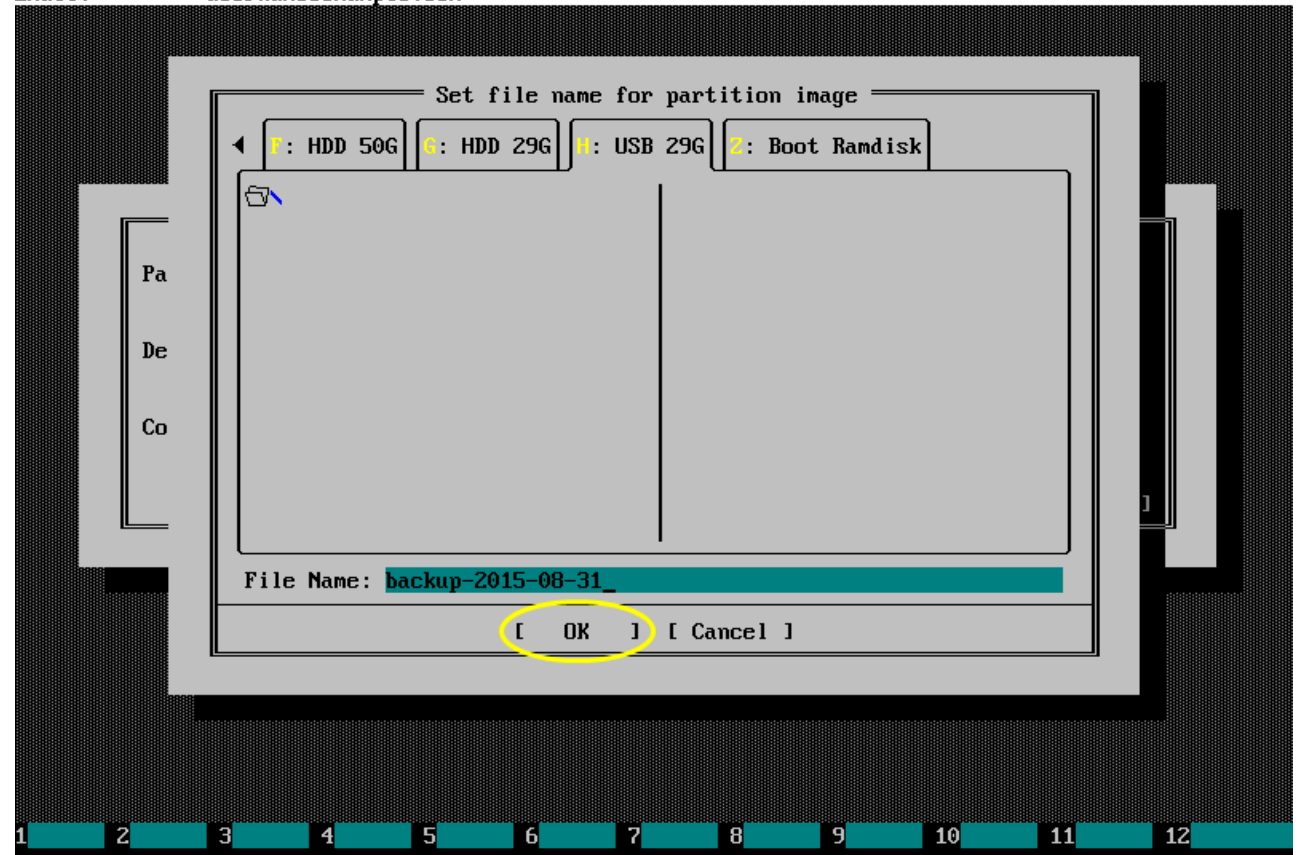
Registered to: User Name
Email: username@example.com



Choose destination drive and folder, enter destination file name. Then press **Enter** or click *OK* button.

Emergency Boot Kit version 1.6a (64-bit)

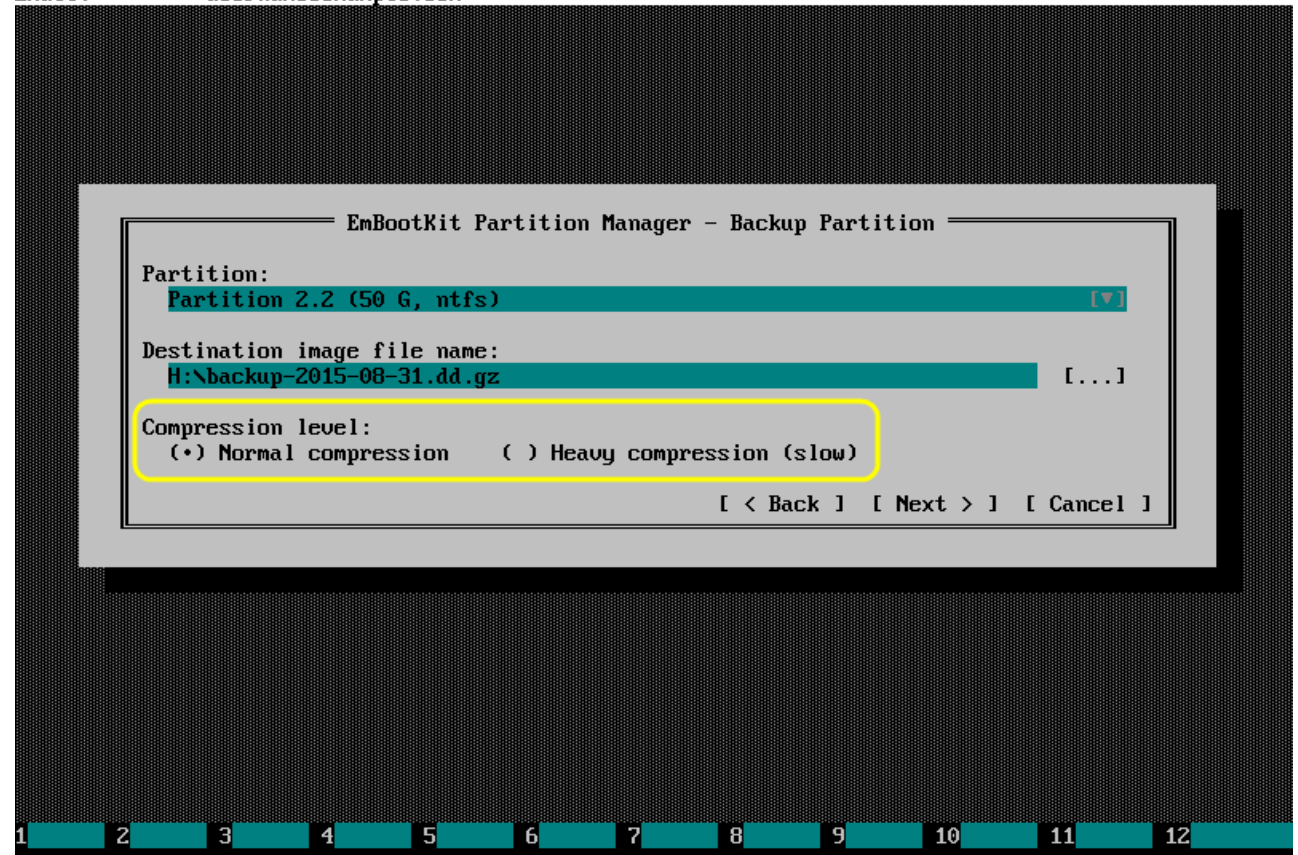
Registered to: User Name
Email: username@example.com



Choose compression type, then press **Enter** or click *Next*>.

Emergency Boot Kit version 1.6a (64-bit)

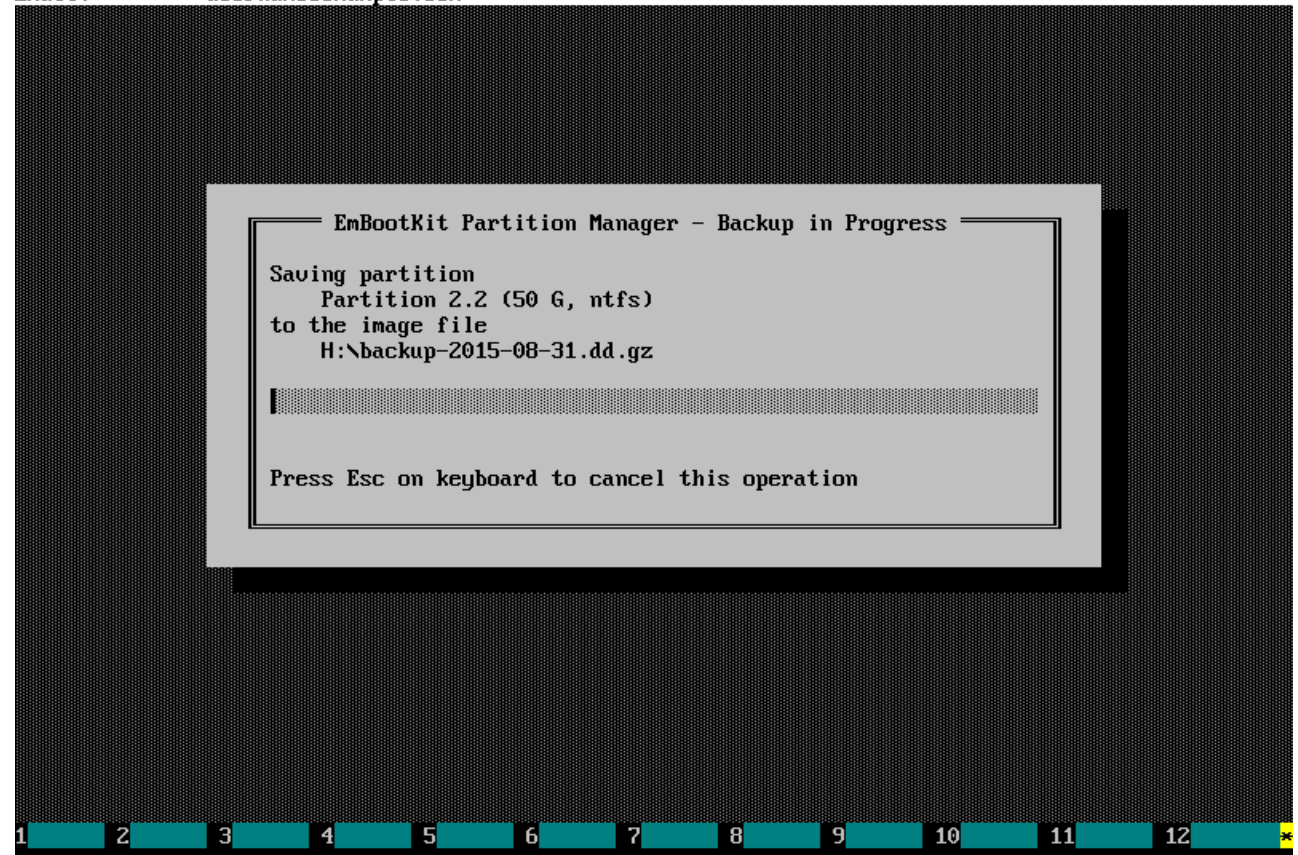
Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



If partition was saved normally, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.6. Restore partition from image file

Click *Restore partition/disk from image file* or press **Ctrl+F5** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (MBR)	20 G			
Partition 1.1	9 G	0x07	ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO
Disk 3 - SanDisk Extreme (MBR)	29 G			
Partition 3.1	29 G	0x0C	ntfs	YES

What would you like to do?

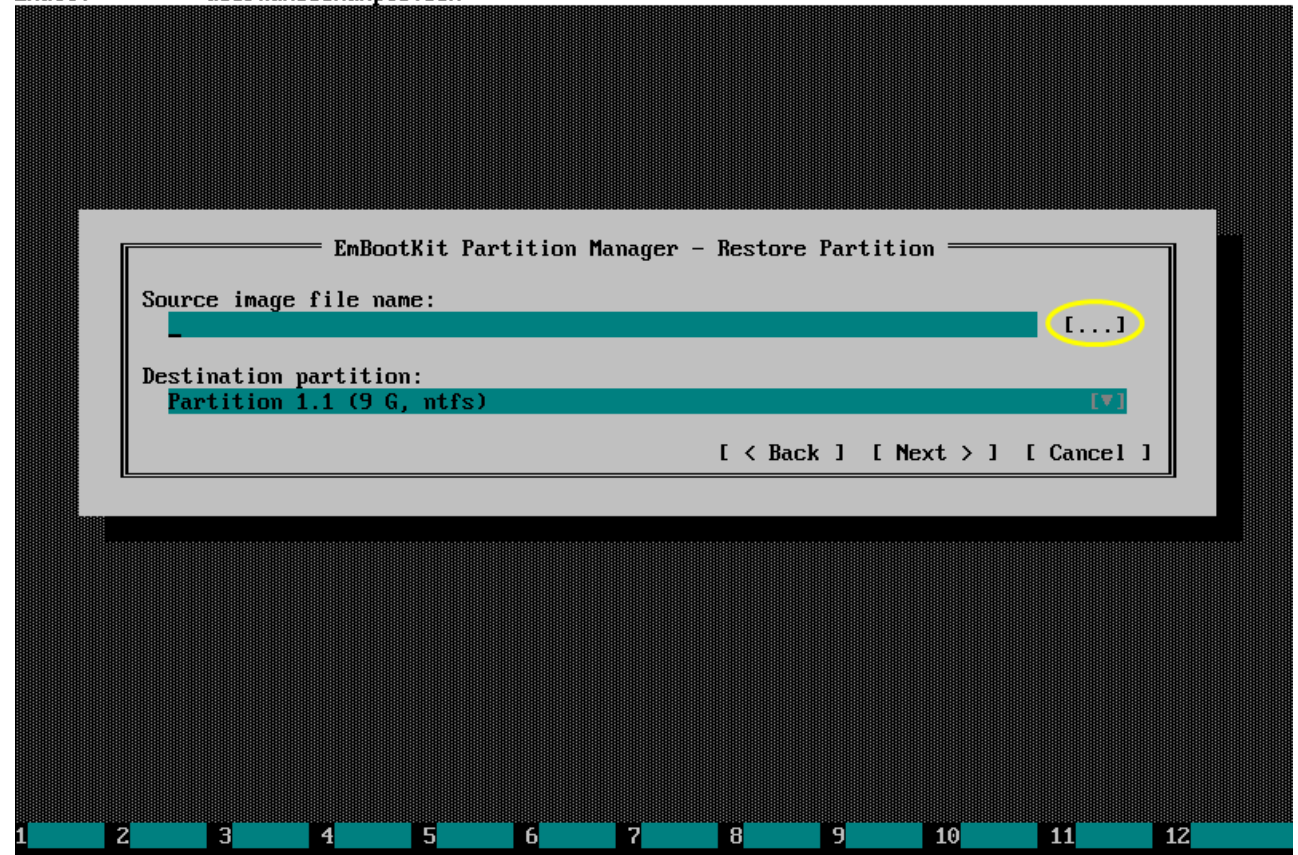
- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5**
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Wipe partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9
- Quit Ctrl+F10

1 2 3 4 5 6 7 8 9 10 11 12

Click [...] button to specify destination image file.

Emergency Boot Kit version 1.6a (64-bit)

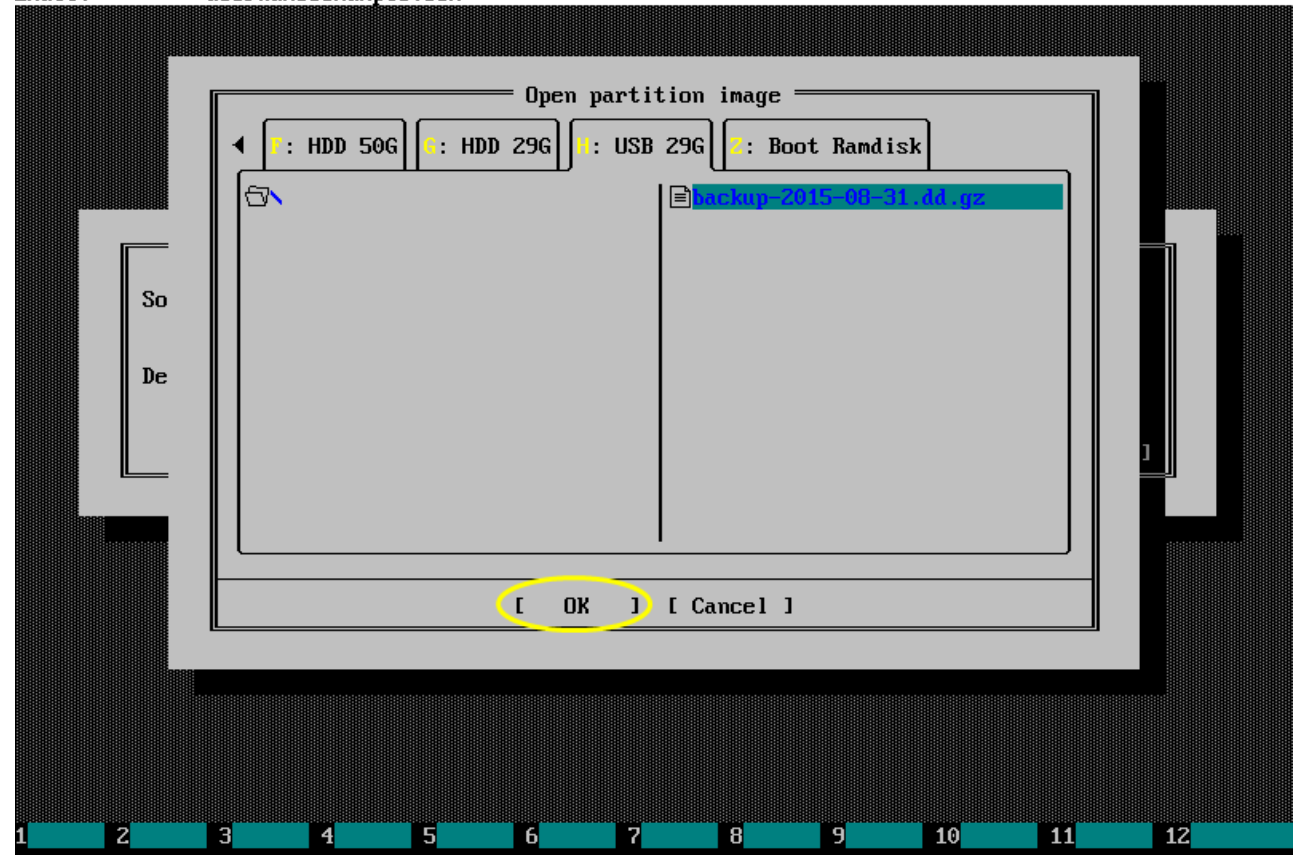
Registered to: User Name
Email: username@example.com



Choose source drive, folder and file. Then press **Enter** or click *OK* button.

Emergency Boot Kit version 1.6a (64-bit)

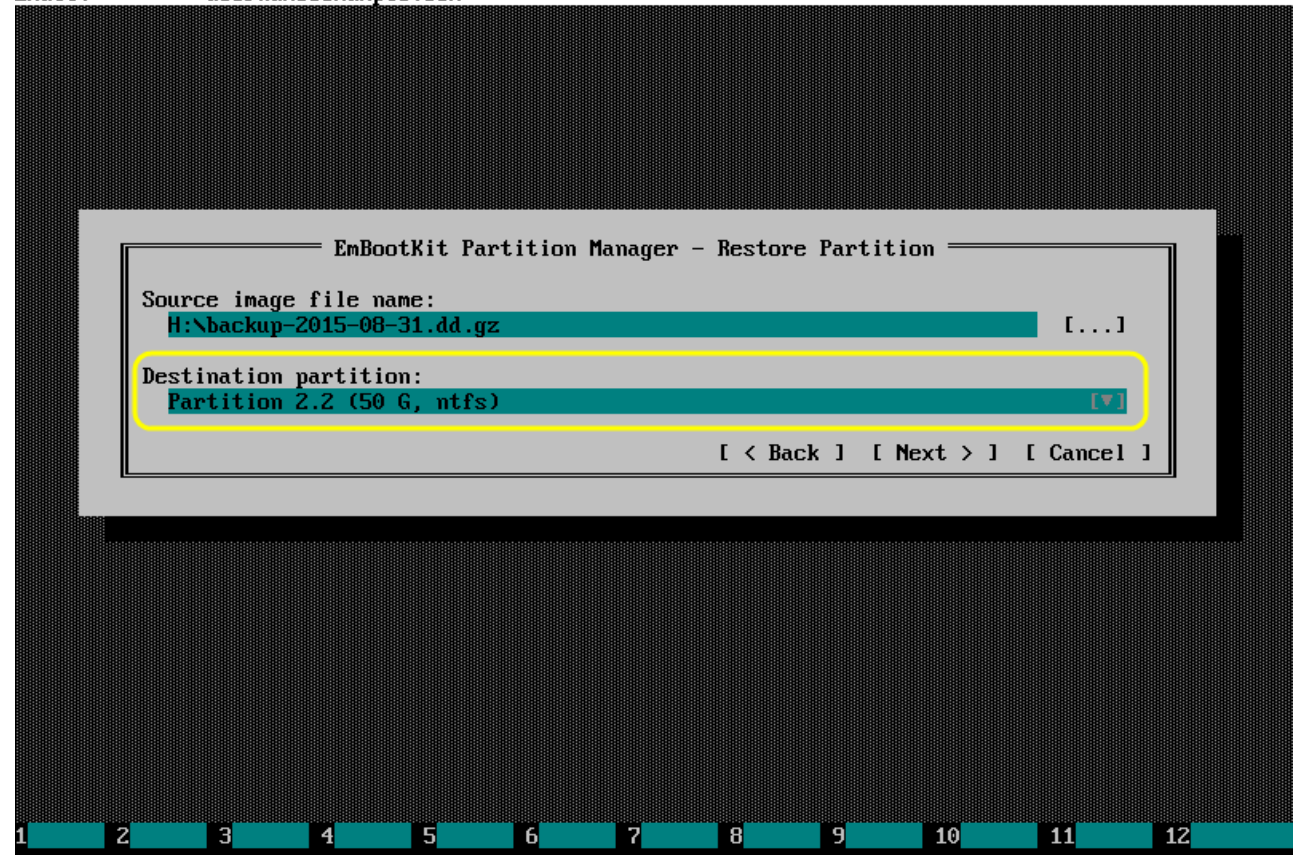
Registered to: User Name
Email: username@example.com



Choose destination partition, then press **Enter** or click *Next*>.

Emergency Boot Kit version 1.6a (64-bit)

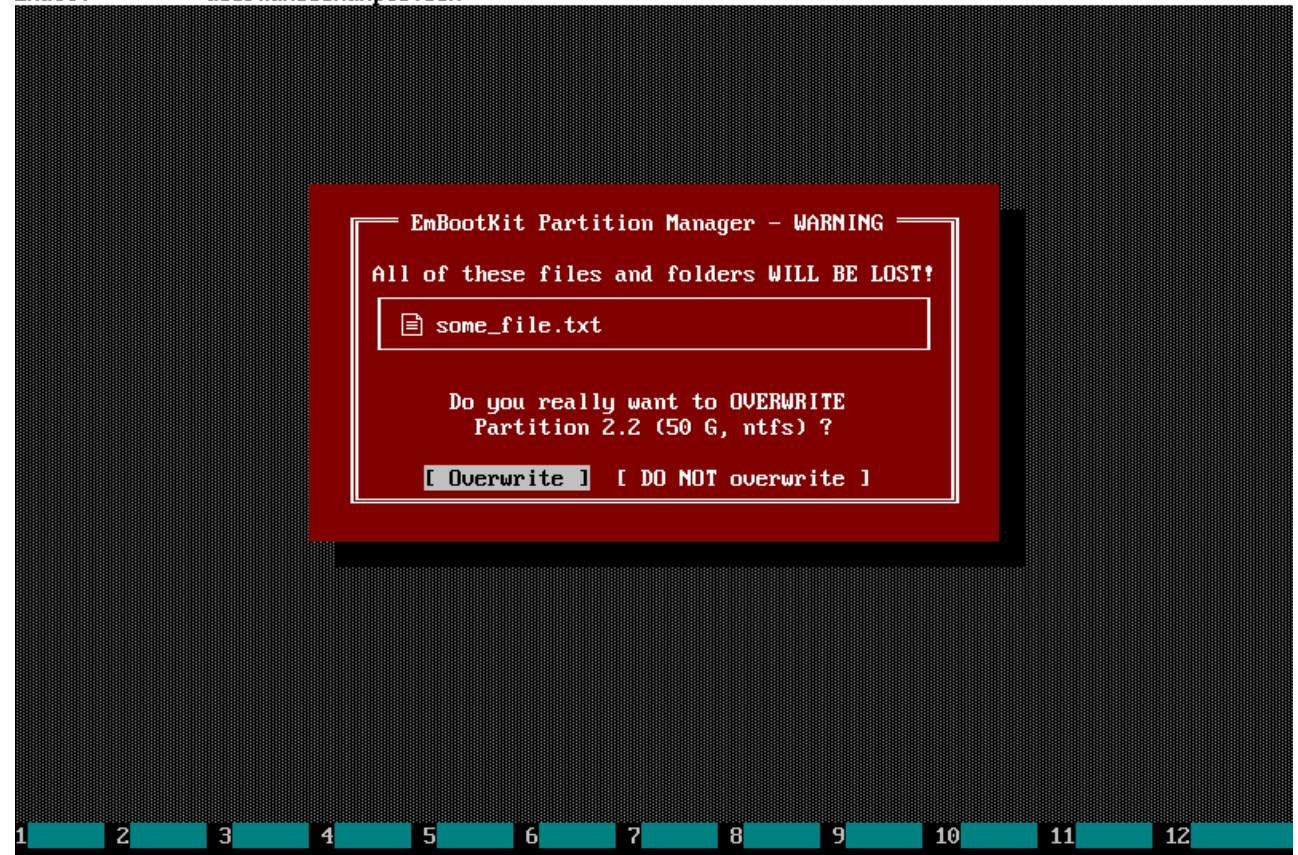
Registered to: User Name
Email: username@example.com



If destination partition contains any files or folders, then warning like this will be displayed.

Emergency Boot Kit version 1.6a (64-bit)

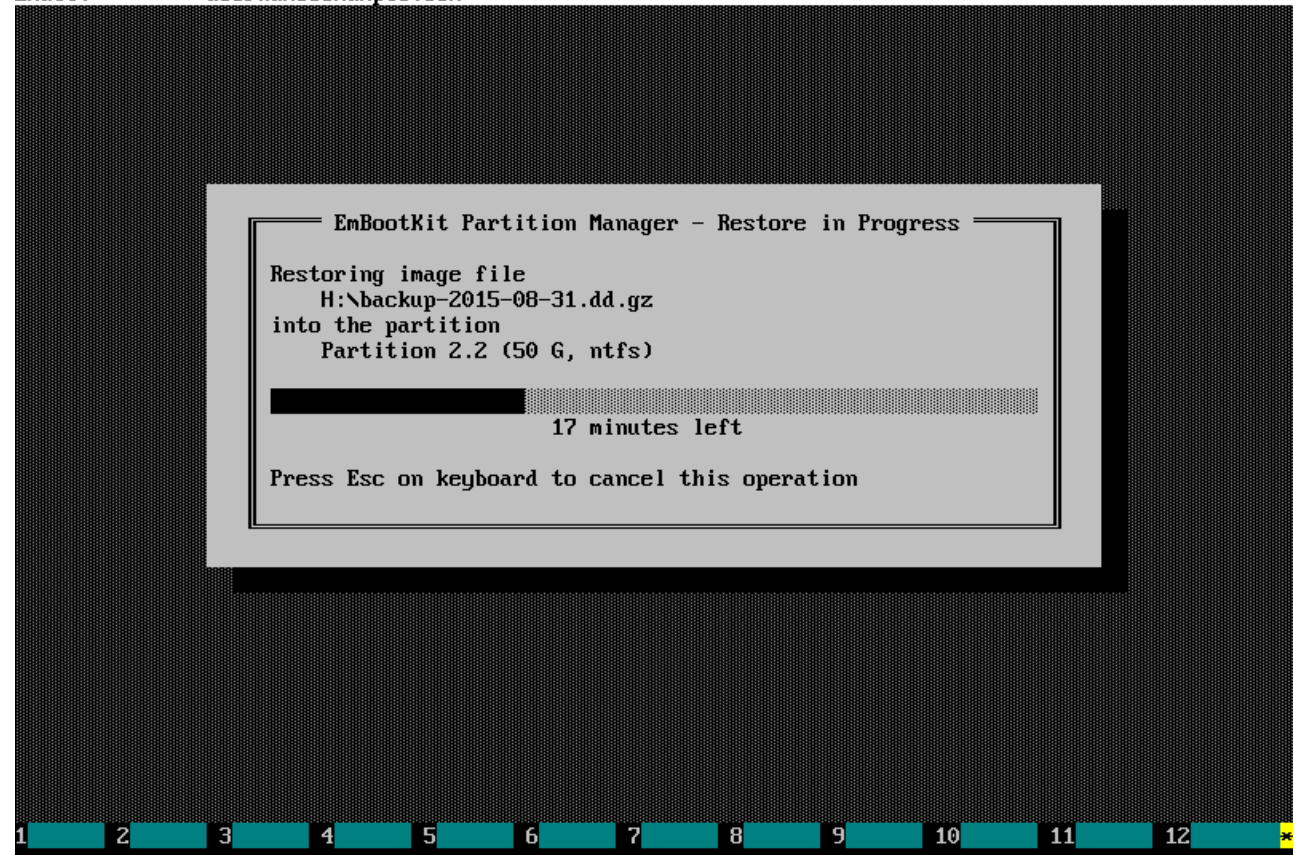
Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

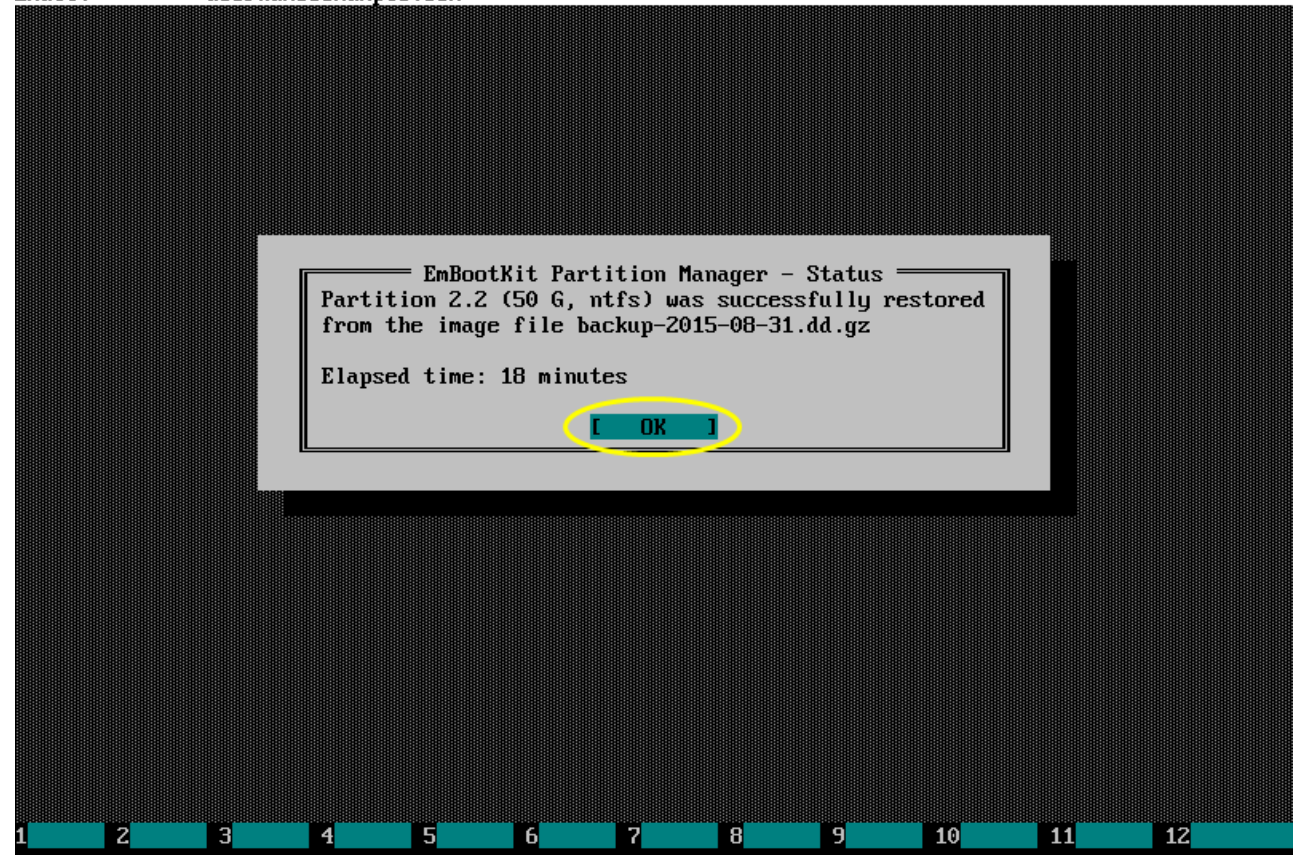
Registered to: User Name
Email: username@example.com



If partition was restored normally, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.7. Direct copying of partitions

Click *Direct copy: partition-to-partition or disk-to-disk* or press **Ctrl+F6** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (GPT)	60 G			
Partition 1.1	51 G		ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk** Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Wipe partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9
- Quit Ctrl+F10

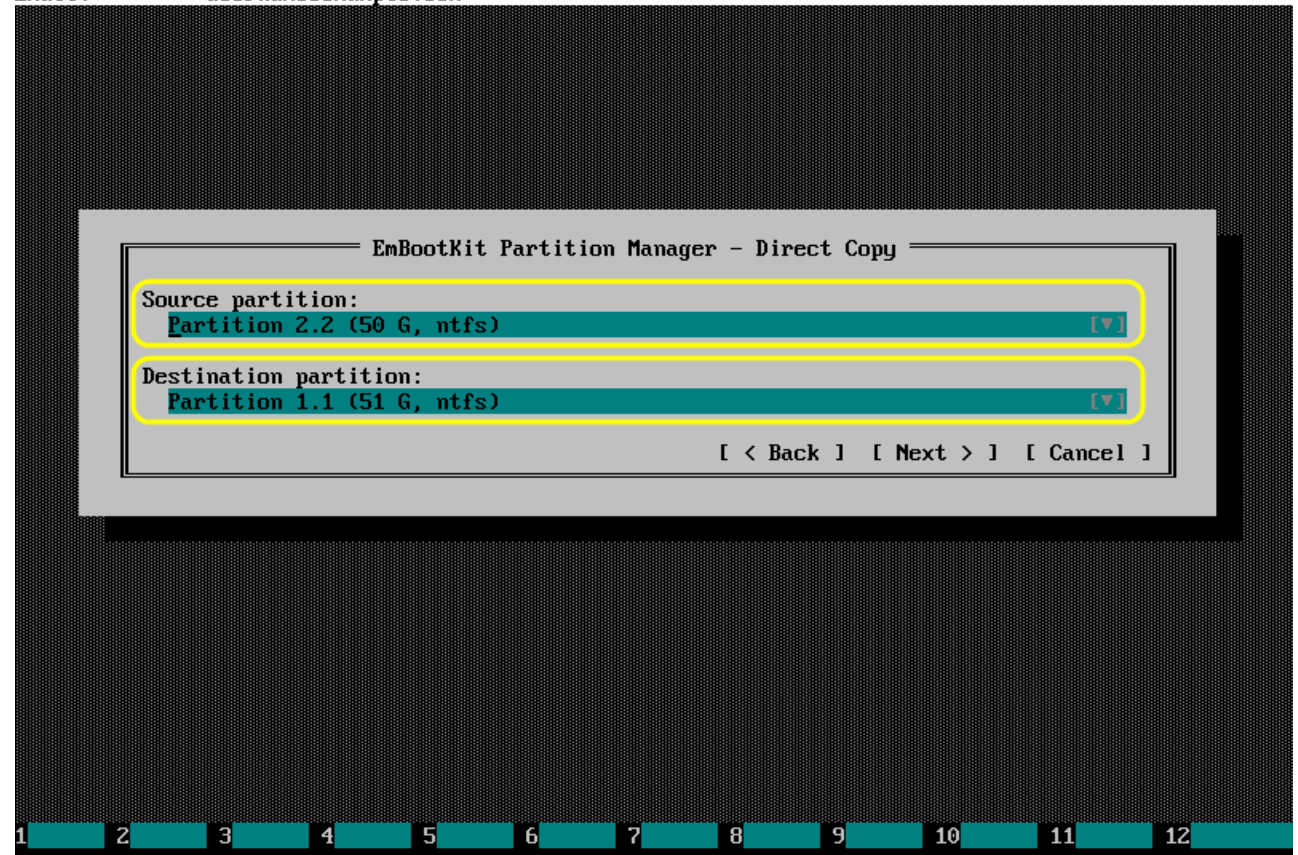
1 2 3 4 5 6 7 8 9 10 11 12

Choose source and destination partition from drop-down lists. Destination partition must be no smaller than source partition.

Then press **Enter** or click *Next*> button.

Emergency Boot Kit version 1.6a (64-bit)

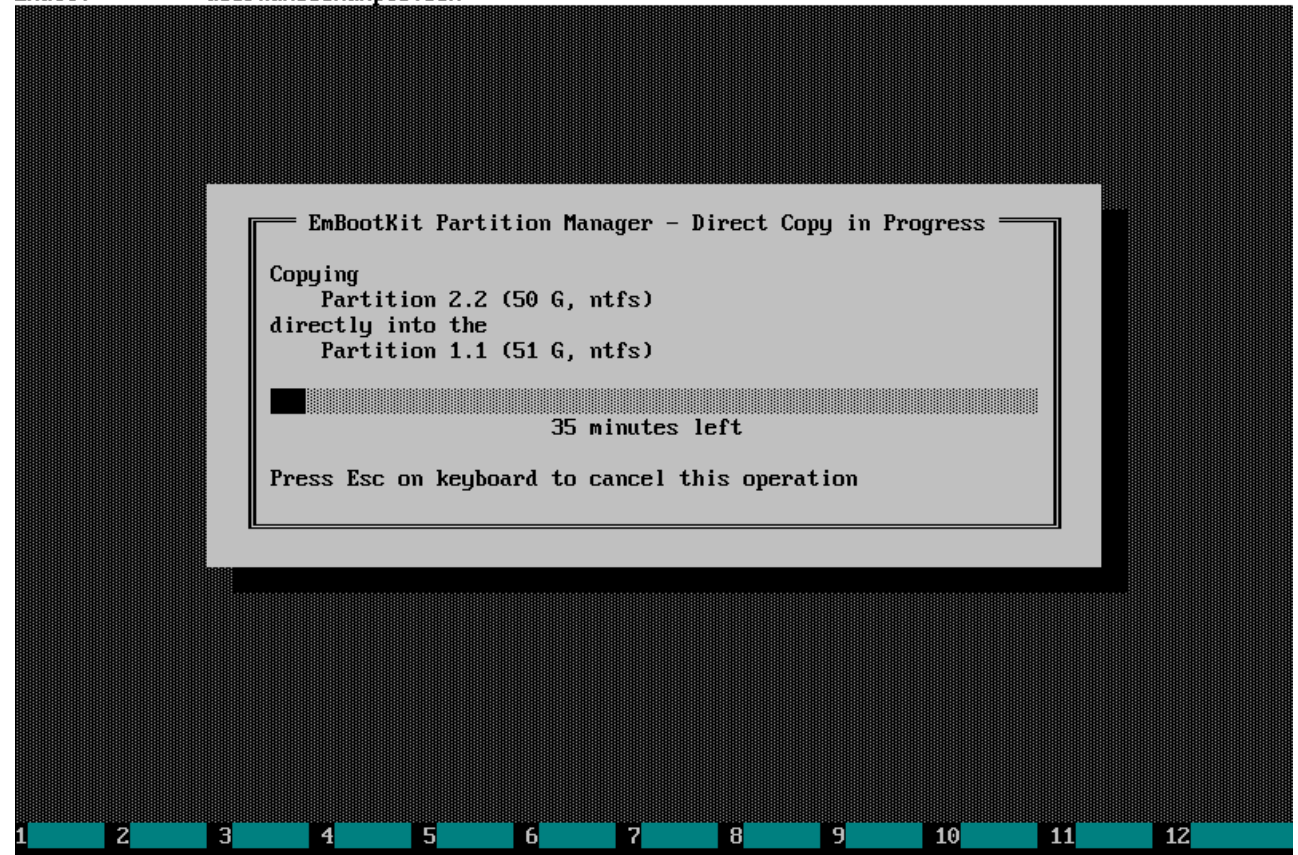
Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

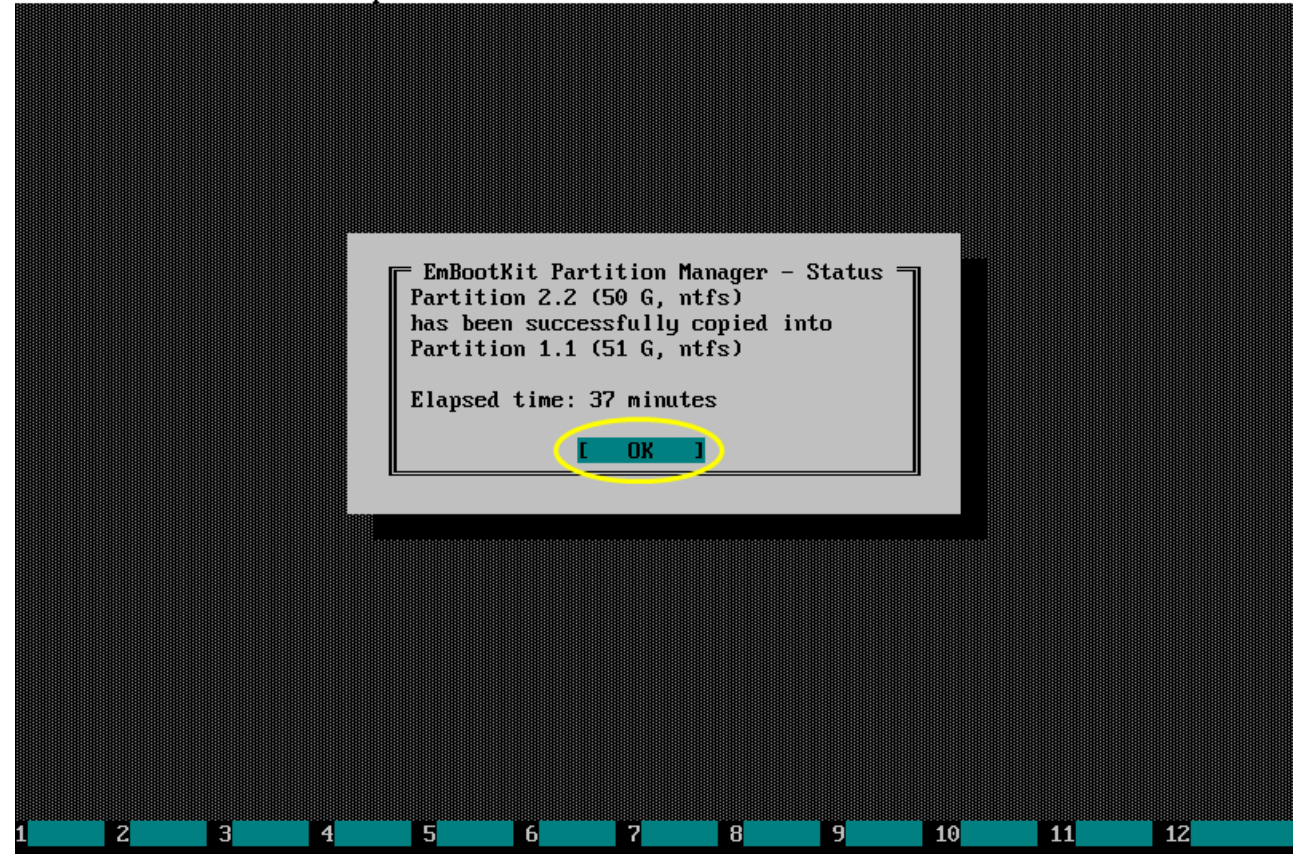
Registered to: User Name
Email: username@example.com



If partition was duplicated normally, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.8. Change MBR partition type or GPT partition instance/type GUID or label

Click *Edit partition metadata* (MBR type, active flag, etc) or press **Ctrl+F7** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (GPT)	60 G			
Partition 1.1	51 G		ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

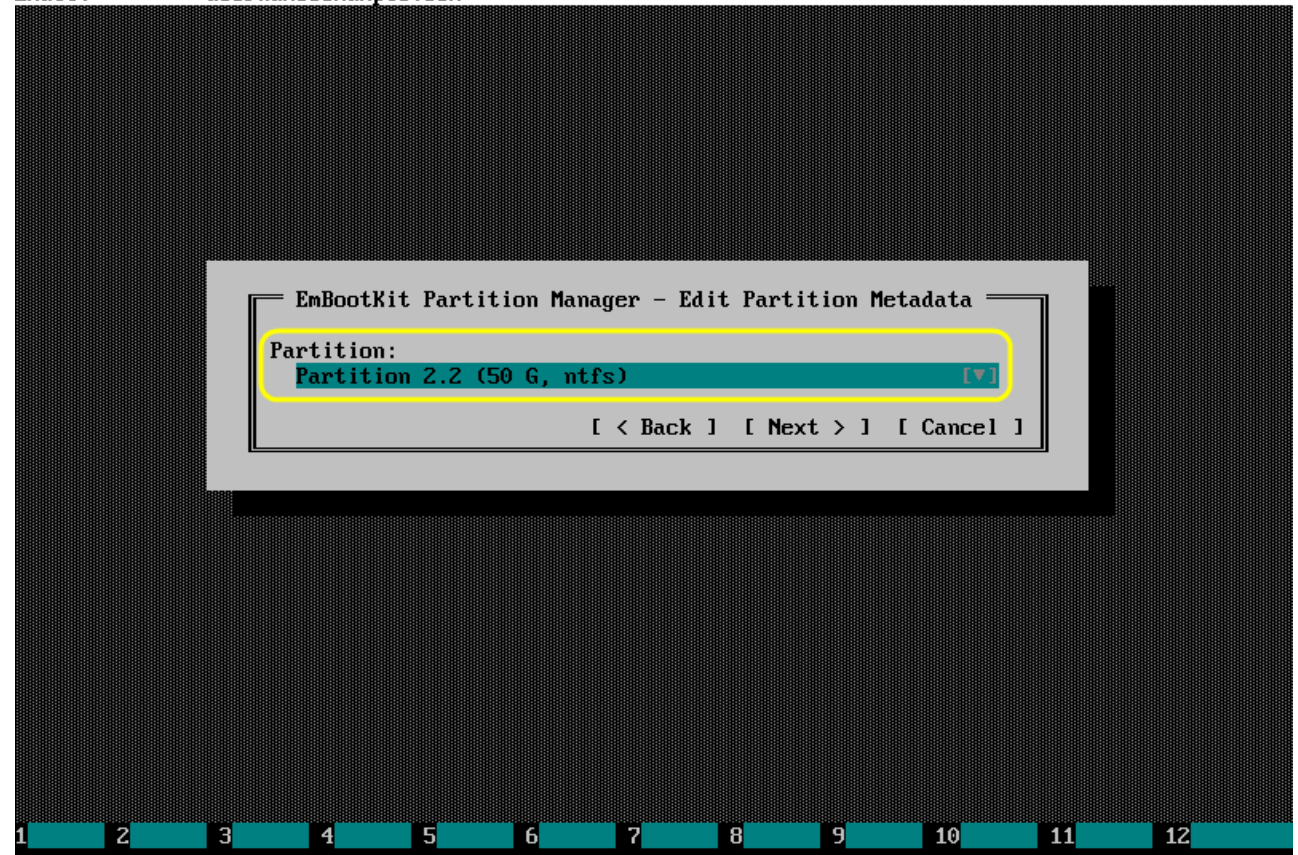
- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7**
- Type partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9
- Quit Ctrl+F10

1 2 3 4 5 6 7 8 9 10 11 12

Choose partition from drop-down list.

Emergency Boot Kit version 1.6a (64-bit)

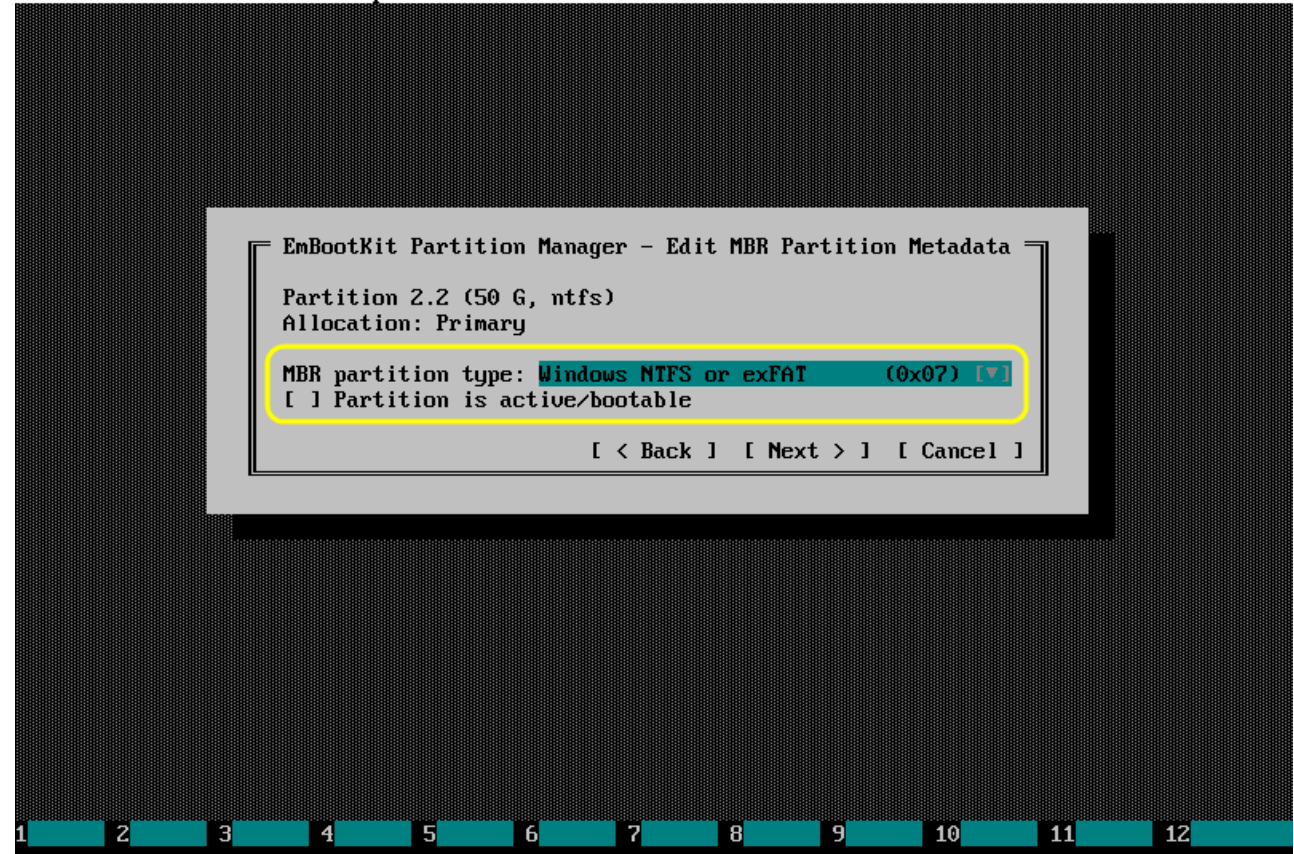
Registered to: User Name
Email: username@example.com



Here is how MBR partition metadata edit window looks like.

Emergency Boot Kit version 1.6a (64-bit)

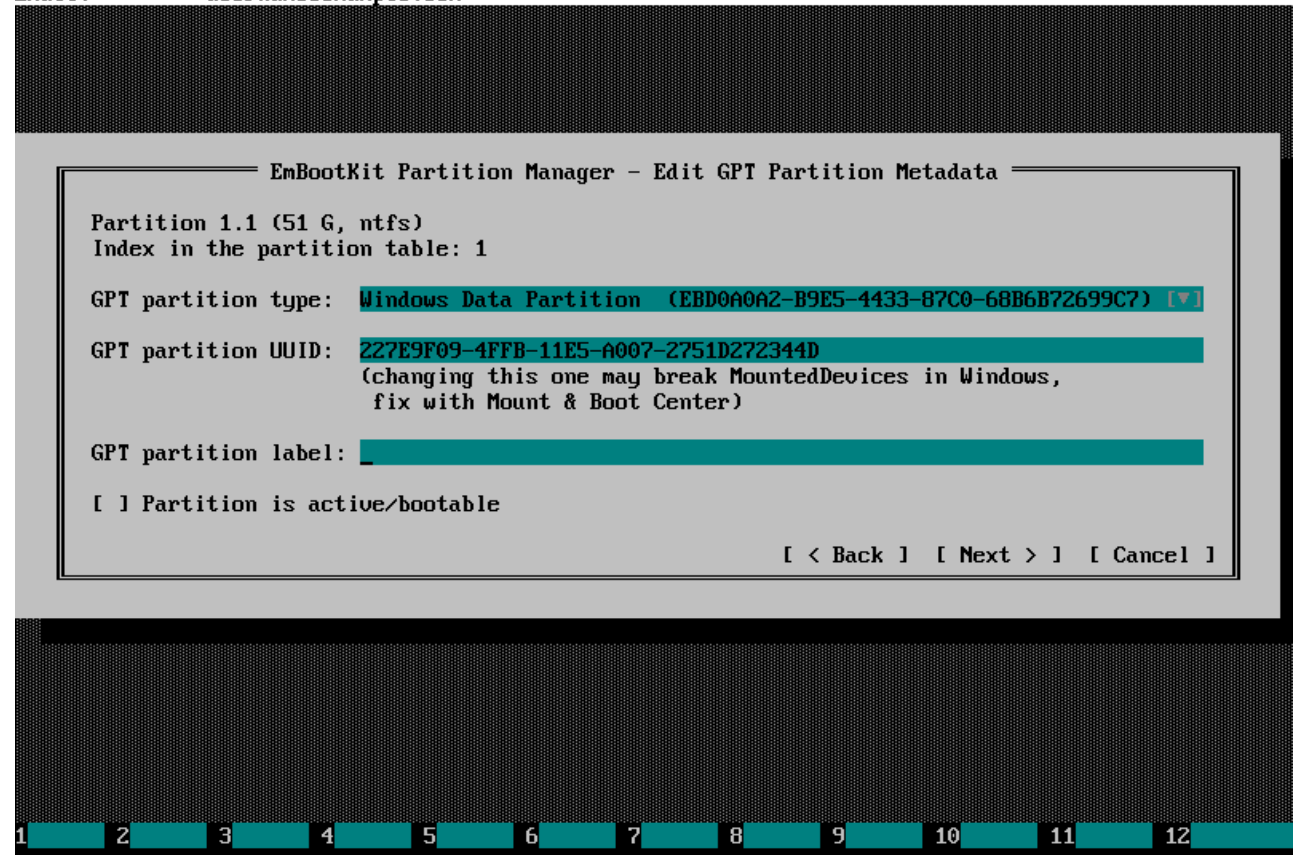
Registered to: User Name
Email: username@example.com



Here is how GPT partition metadata edit window looks like.

Emergency Boot Kit version 1.6a (64-bit)

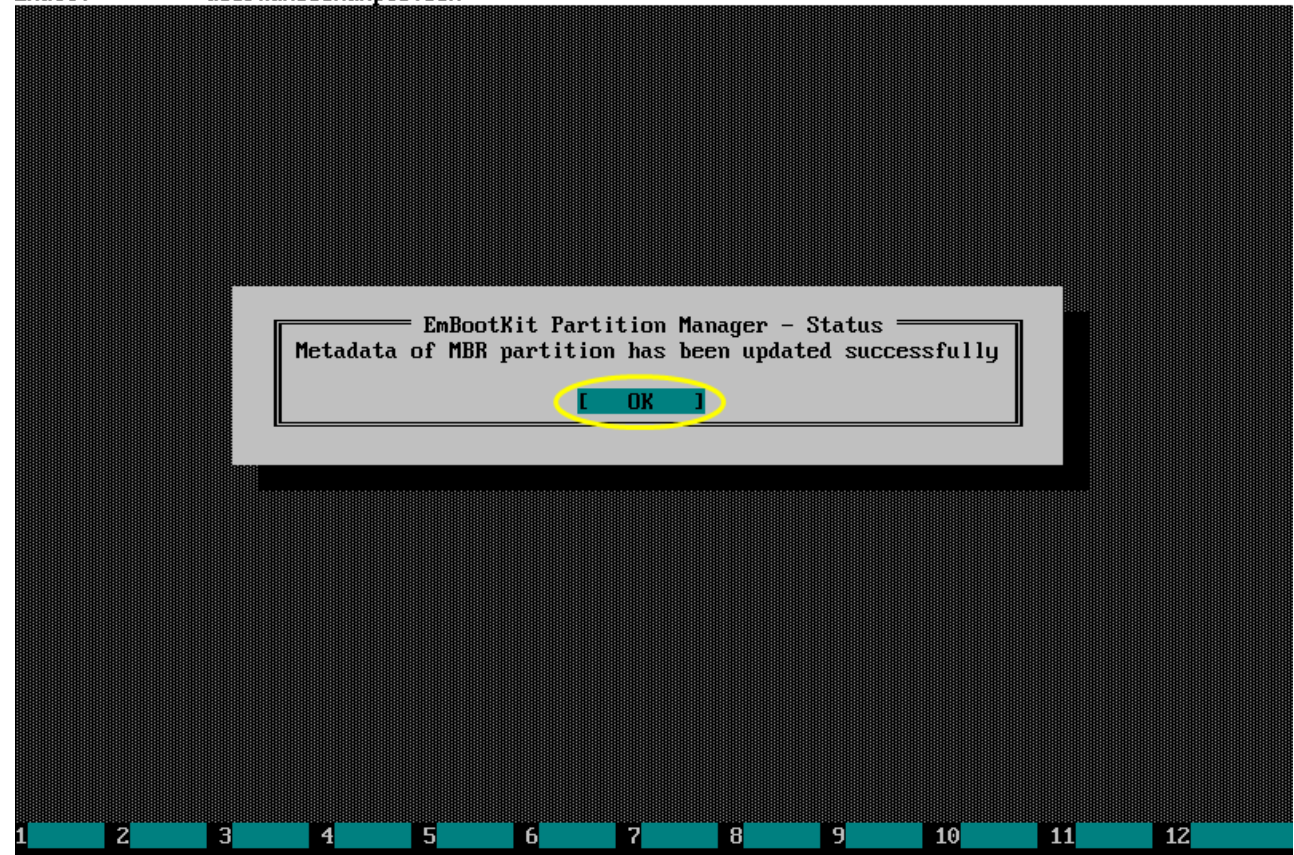
Registered to: User Name
Email: username@example.com



If partition metadata was edited successfully, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.9. Wipe entire partition

Click *wipe partition/disk or free space* or press **Ctrl+F8** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (GPT)	60 G			
Partition 1.1	51 G		ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

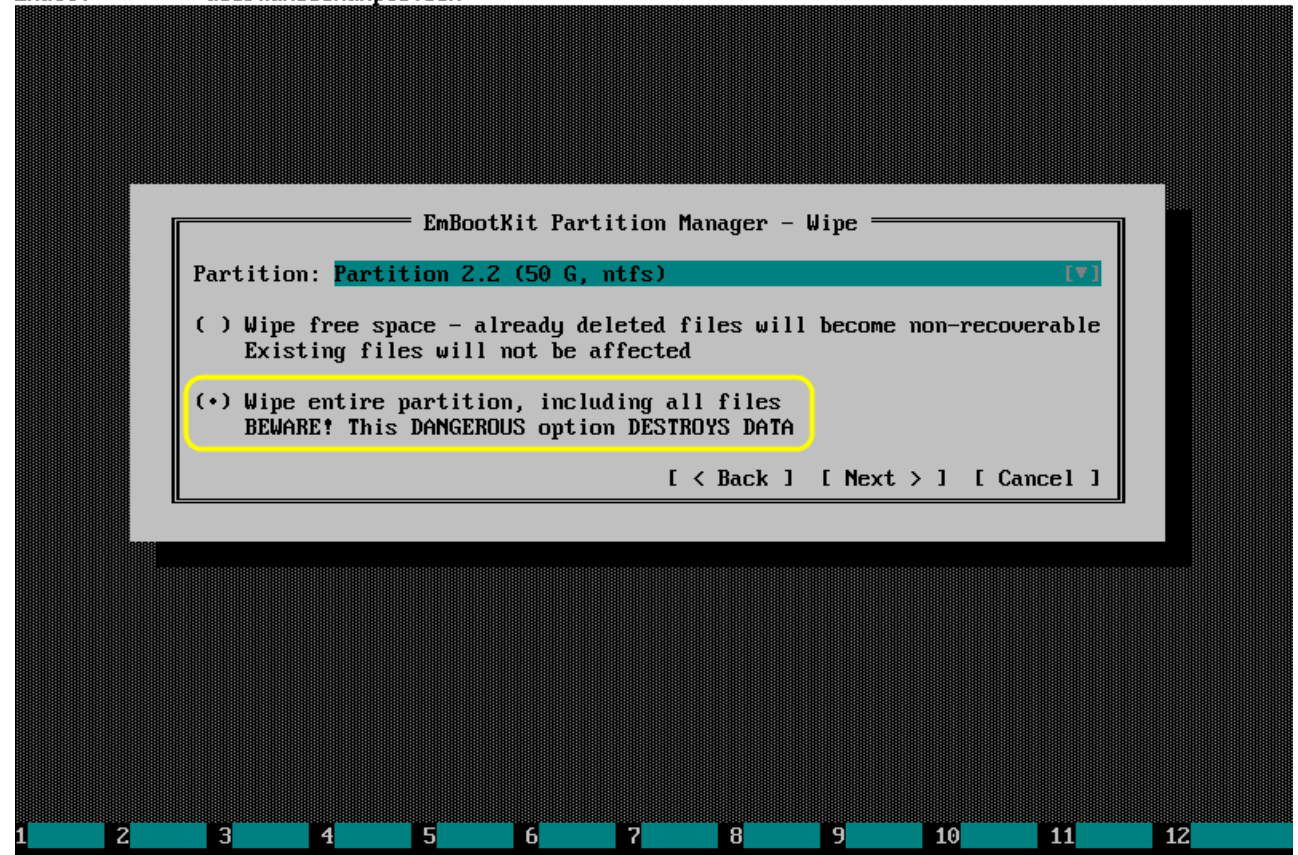
- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Wipe partition/disk or free space Ctrl+F8**
- Delete partition Ctrl+F9
- Quit Ctrl+F10

1 2 3 4 5 6 7 8 9 10 11 12

Choose *wipe entire partition* option in this window, then press **Enter** or click *Next*>.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

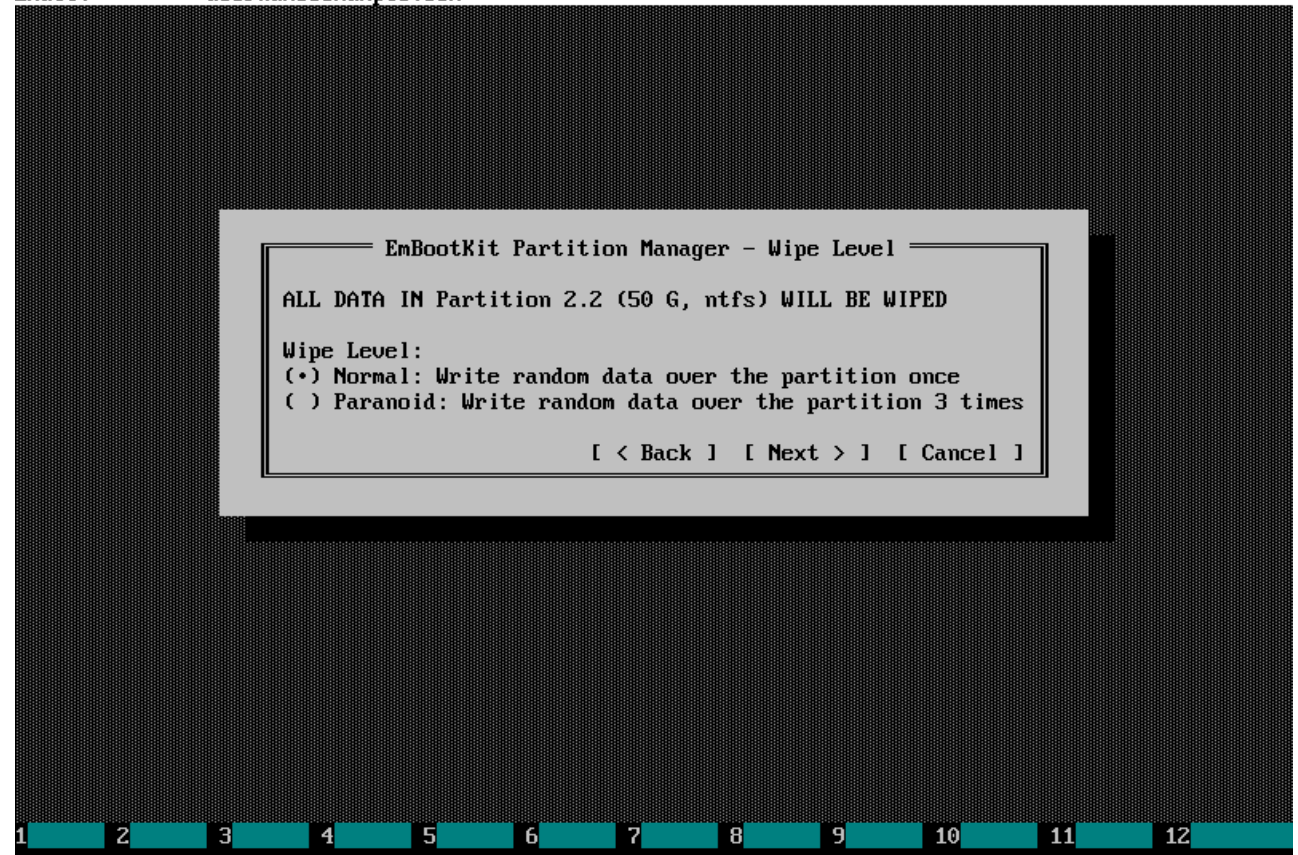


Choose wipe level (normal or paranoid) according to your preferences.

Then press **Enter** or click *Next*>.

Emergency Boot Kit version 1.6a (64-bit)

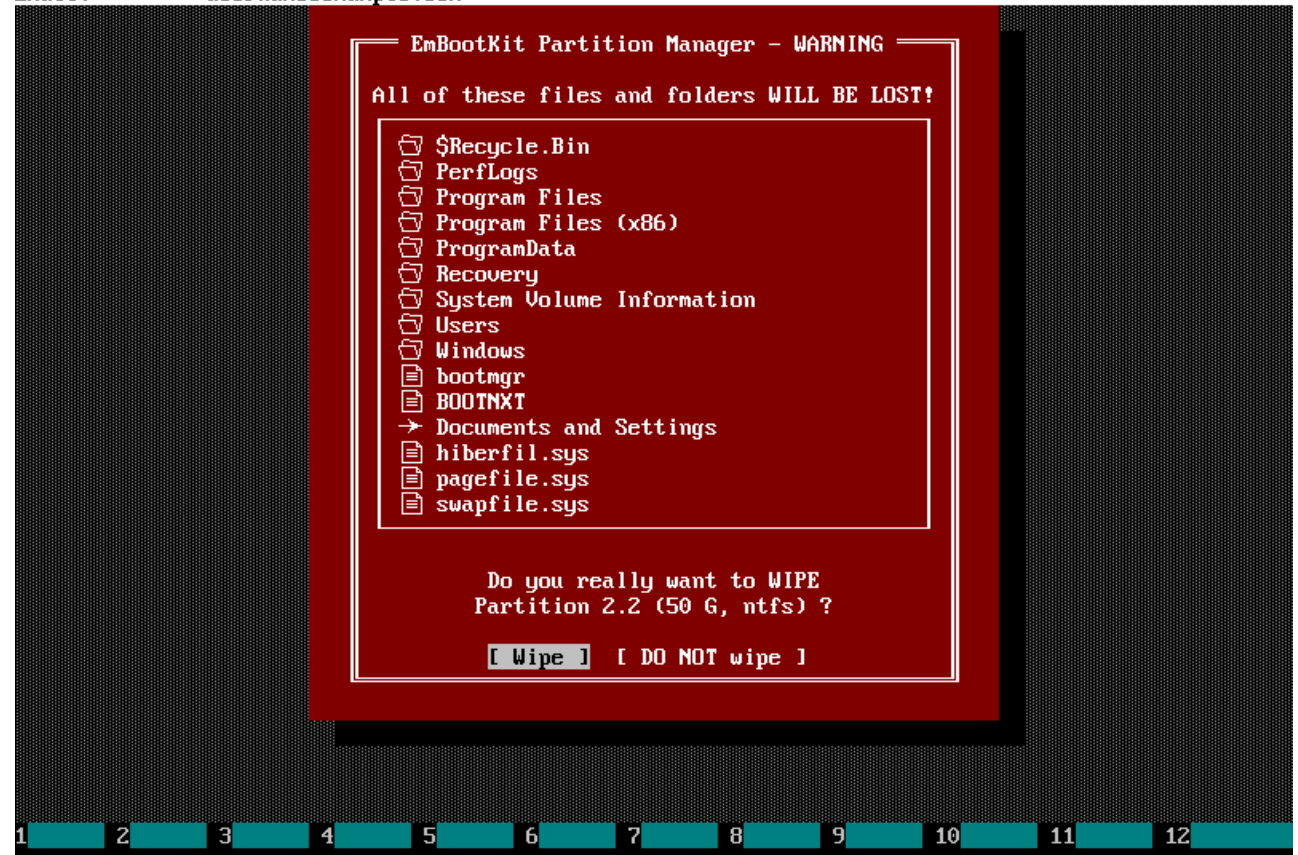
Registered to: User Name
Email: username@example.com



If partition contains any files or folders, then warning like this will be displayed.

Emergency Boot Kit version 1.6a (64-bit)

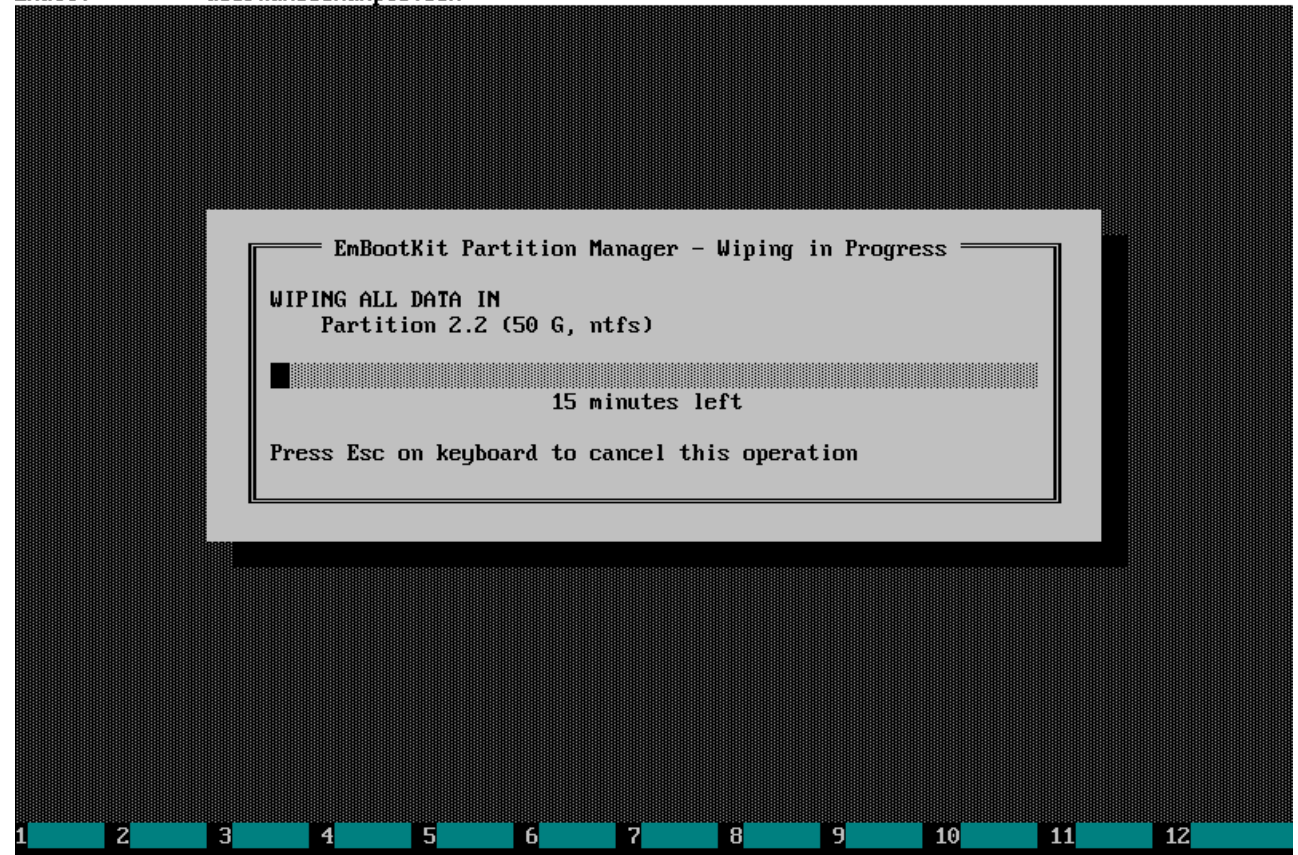
Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

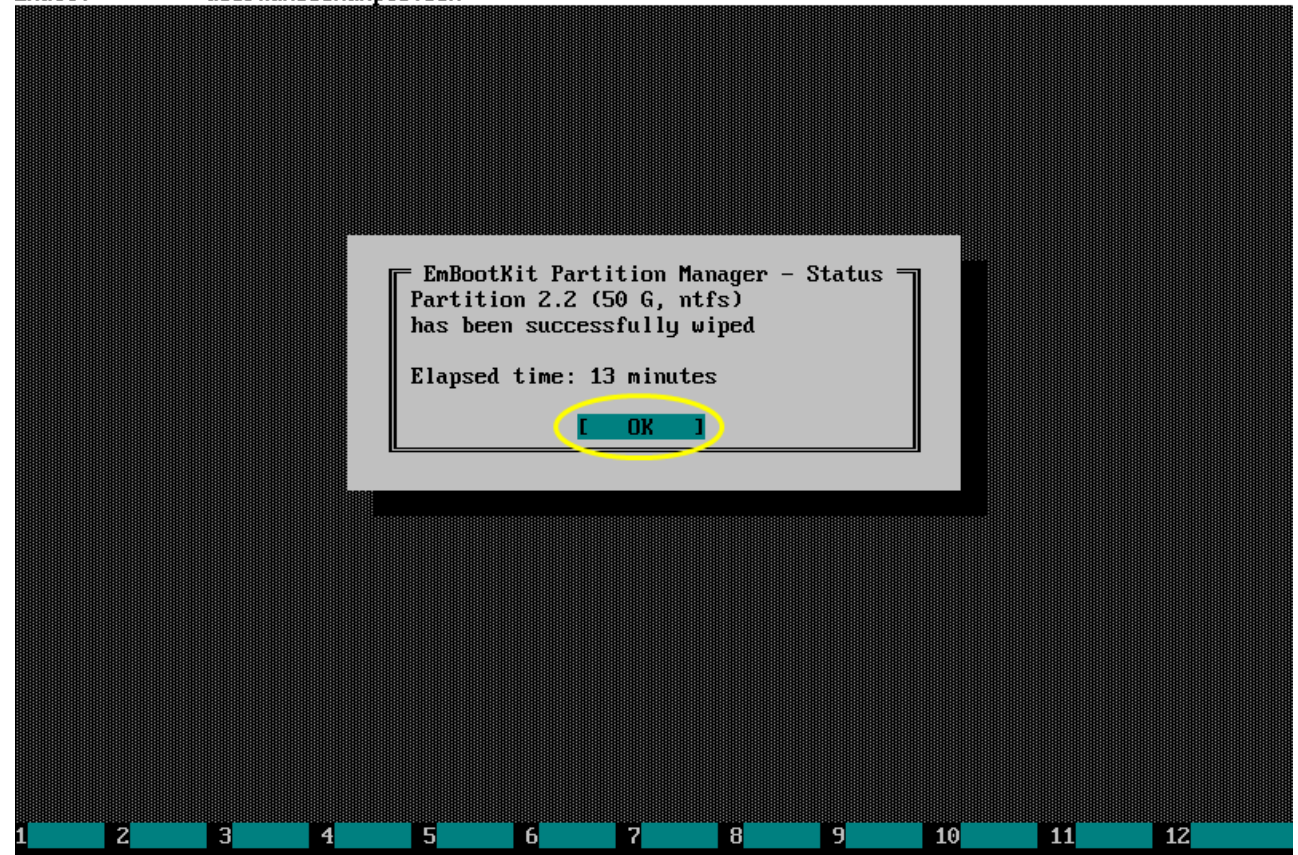
Registered to: User Name
Email: username@example.com



If partition was wiped successfully, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.10. Wipe free space in partition

Click *wipe partition/disk or free space* or press **Ctrl+F8** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (GPT)	60 G			
Partition 1.1	51 G		ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

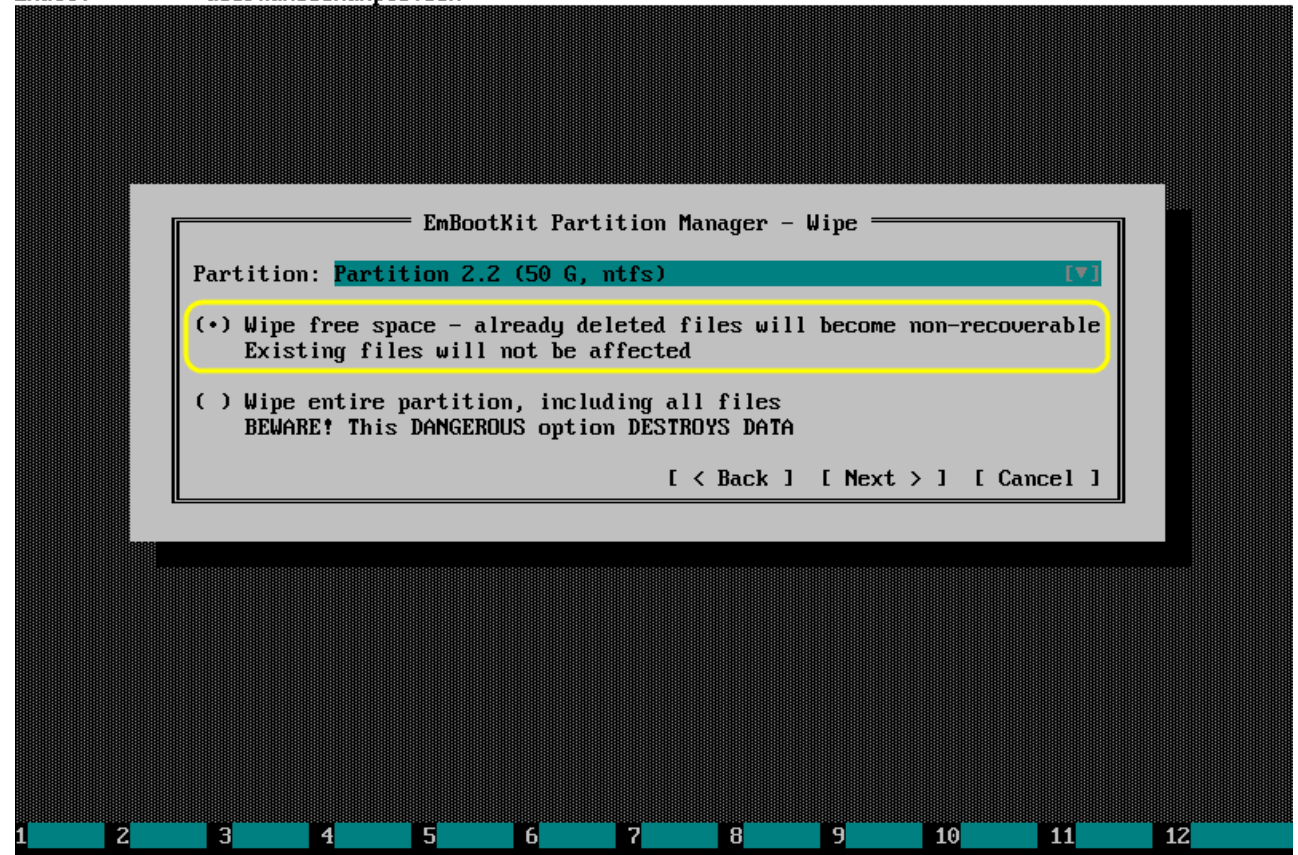
- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Wipe partition/disk or free space Ctrl+F8**
- Delete partition Ctrl+F9
- Quit Ctrl+F10

1 2 3 4 5 6 7 8 9 10 11 12

Choose *wipe free space* option in this window, then press **Enter** or click *Next*>.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

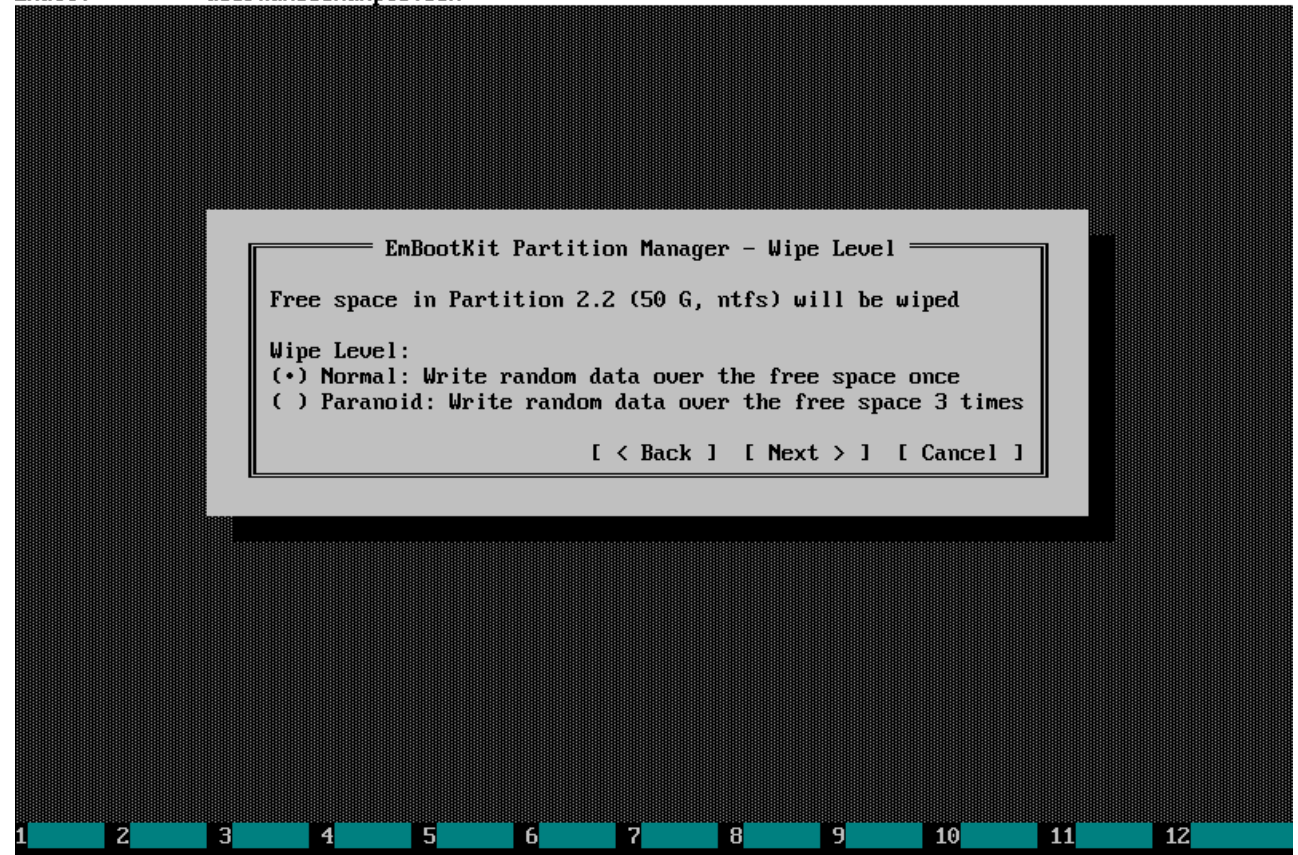


Choose wipe level (normal or paranoid) according to your preferences.

Then press **Enter** or click *Next*>.

Emergency Boot Kit version 1.6a (64-bit)

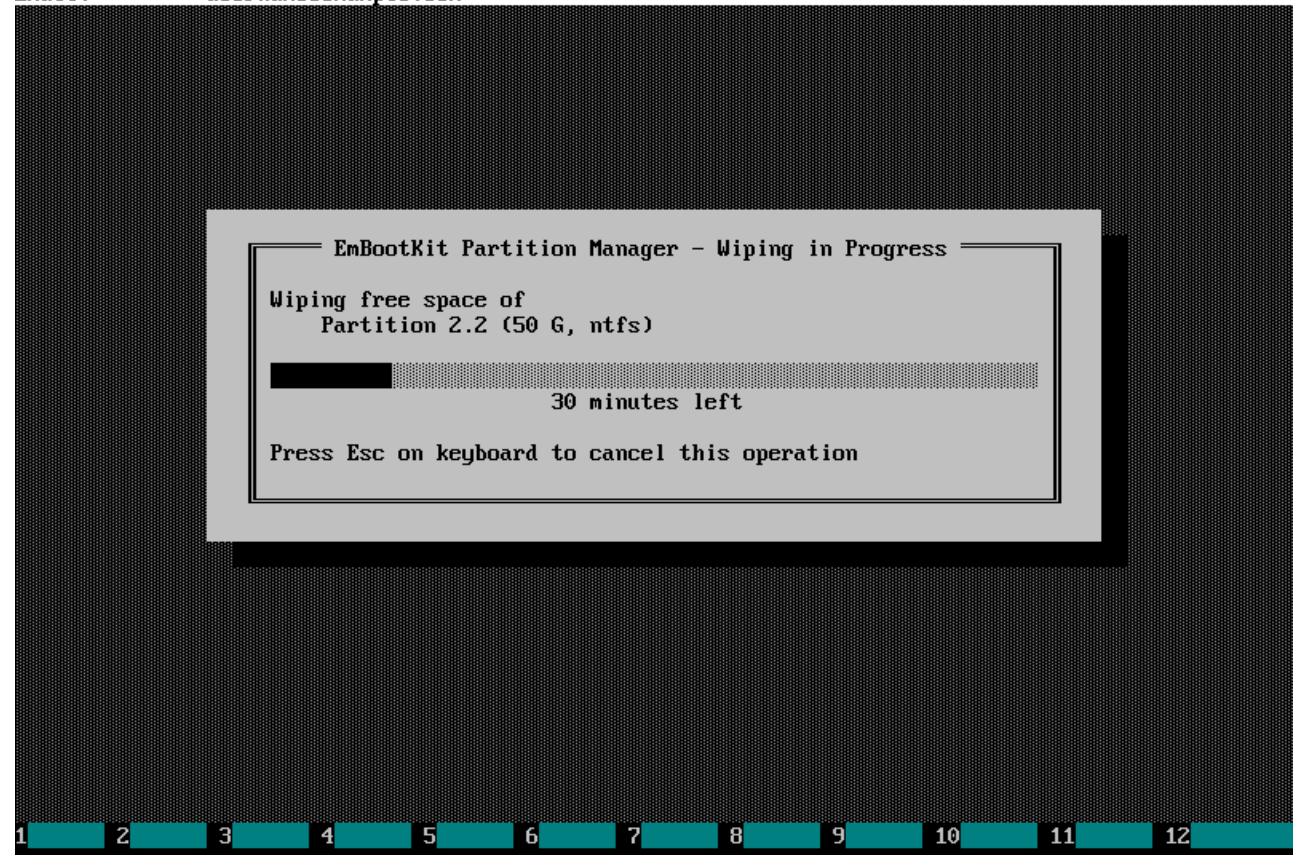
Registered to: User Name
Email: username@example.com



Progress window will look like this.

Emergency Boot Kit version 1.6a (64-bit)

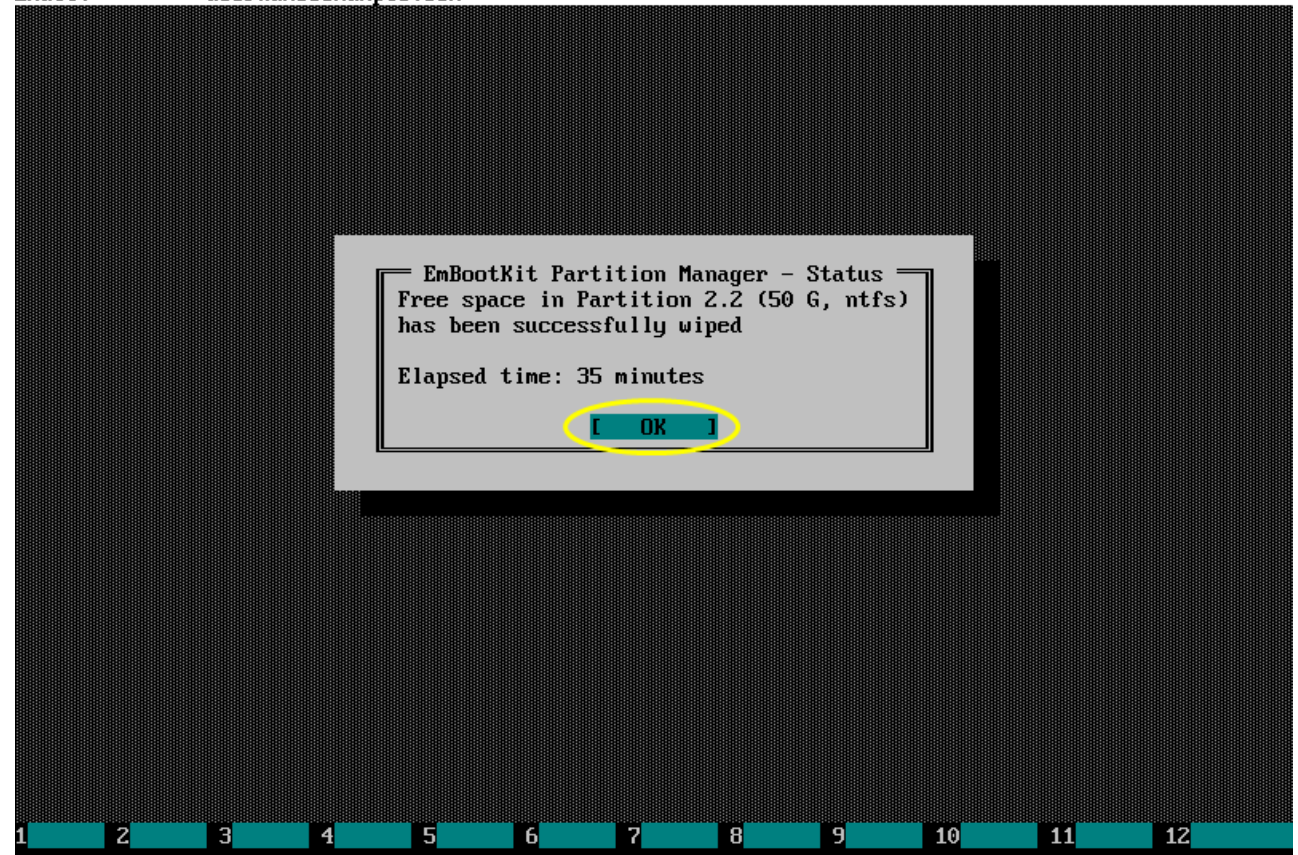
Registered to: User Name
Email: username@example.com



If free space in partition was wiped successfully, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



3.11. Delete partition

Click *Delete partition* or press **Ctrl+F9** in the main menu.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

EmBootKit Partition Manager

Existing partitions:

Disk or Partition	Size	Type	Filesystem	Active
Disk 1 - VMware Virtual IDE Hard Drive (GPT)	60 G			
Partition 1.1	51 G		ntfs	NO
Disk 2 - VMware, VMware Virtual S (MBR)	80 G			
Partition 2.1 - System Reserved	500 M	0x07	ntfs	YES
Partition 2.2	50 G	0x07	ntfs	NO
Partition 2.3 - EXCHANGE	29 G	0x0C	ufat	NO

What would you like to do?

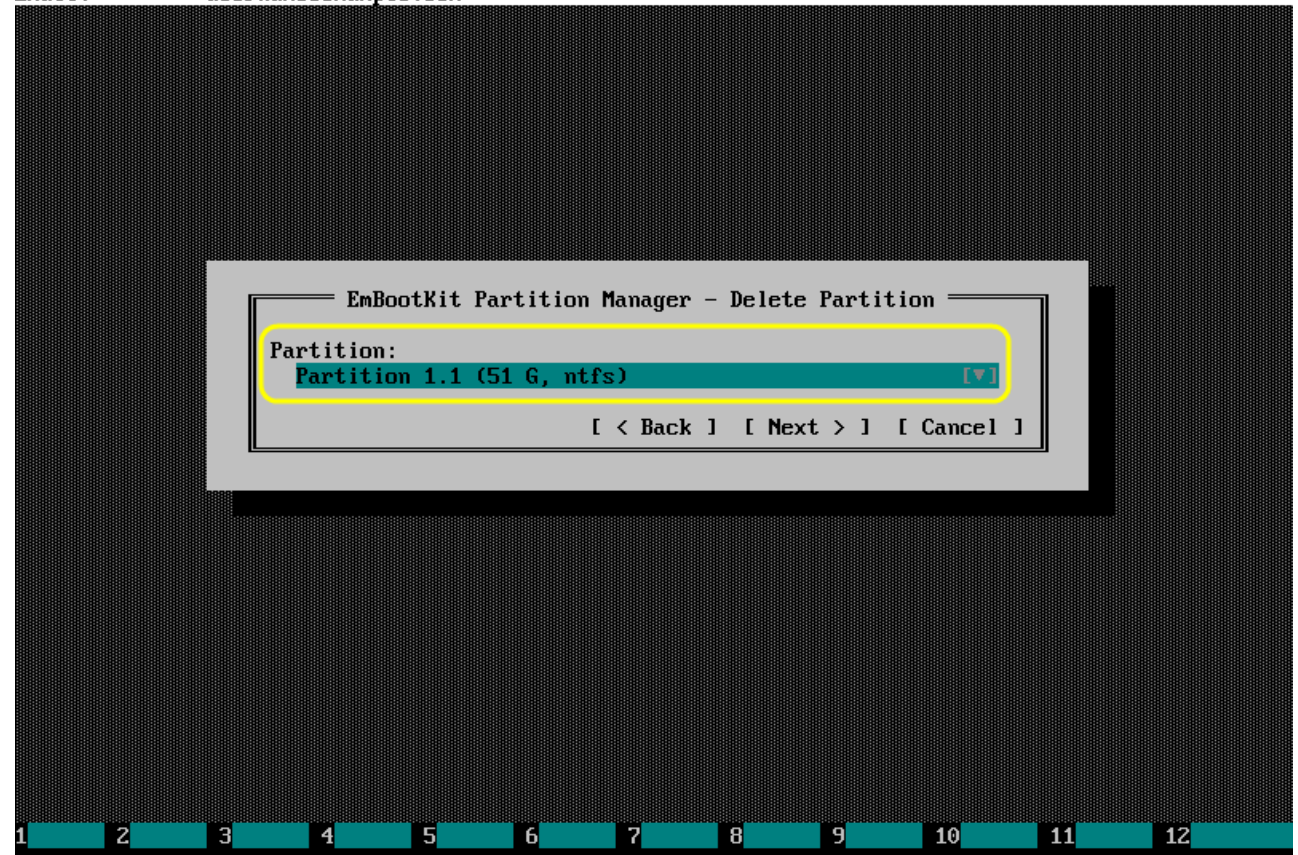
- Initialize partition table (MBR/GPT) Ctrl+F1
- Create partition Ctrl+F2
- Format partition Ctrl+F3
- Backup partition/disk to image file Ctrl+F4
- Restore partition/disk from image file Ctrl+F5
- Direct copy: partition-to-partition or disk-to-disk Ctrl+F6
- Edit partition metadata (MBR type, active flag, etc) Ctrl+F7
- Resize partition/disk or free space Ctrl+F8
- Delete partition Ctrl+F9**
- Quit Ctrl+F10

1 2 3 4 5 6 7 8 9 10 11 12

Choose partition to delete from the drop-down list

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



If partition contains any files or folders, then warning like this will be displayed.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com



If partition has been deleted successfully, then you should see window like this.

Emergency Boot Kit version 1.6a (64-bit)

Registered to: User Name
Email: username@example.com

