How to create the missing EFI System partition

The **EFI System partition** is required to boot the computer, when you are using the GPT partition style. The UEFI firmware scan your computer's hard disks for existence of the EFI System partition, then run \efi\boot\bootx64.efi file in the EFI System partition. This partion has to be formatted with FAT32 file system.

(CT.)	Administrator: Command Prompt - diskpart – 🗖 🗖						
Microsoft Windows (c) 2013 Microsof	s EVersion 6.3.960 ft Corporation. Al	101 11 rights	reserved.			^	
C:\WINDOWS\system	m32>diskpart						
Microsoft DiskPa	rt version 6.3.960	10					
Copyright (C) 199 On computer: IDE	99-2013 Microsoft A-PC	Corporati	on.				
DISKPART> select	disk Ø						
Disk Ø is now the	e selected disk.				• 4 •		
DISKPART> list pa	artition			EFI System part	ition		
Partition ###	Туре	Size	Offset				
Partition 1 Partition 2 Partition 3 Partition 4 Partition 5 Partition 6 Partition 7 DISKPART>	Recovery System OEM Reserved Primary Recovery Recovery Recovery	1000 MB 260 MB 1000 MB 128 MB 908 GB 450 MB 20 GB	1024 KB 1001 MB 1261 MB 2261 MB 2389 MB 911 GB 911 GB				
						~	

- For Advanced Format Generation One (4-KB-per-sector) drives, the minimum size of this partition is 260 MB.

- For earlier 512-byte-per-sector drives, the minimum size of this partition is 100 MB.

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- **Option Three:** How to create the missing EFI System partition, if you do NOT have the unallocated space available for the EFI System partition.

How to delete the EFI System partition.

- Windows 7/8/8.1 does not start, if you delete the EFI System partition.

- If you want to delete the EFI System partition, you must use the delete partition override command.

- Boot the computer using the Windows 7/8/8.1 installation media.

- On the first screen, press SHIFT+F10 to bring up command prompt.

diskpart list disk select disk # list partition select partition # Note: Make sure to select the EFI System partition. delete partition override

> OPTION ONE <

How to create the missing EFI System partition, if you still have the unallocated space available for the EFI System partition and no other unallocated space on the drive.

- Boot the computer using the Windows 7/8/8.1 installation media.

- On the first screen, press SHIFT+F10 to bring up the command prompt.
- Run the following commands at the command prompt.

diskpart list disk	
select disk #	Note: Select the disk where you deleted the EFI System partition.
list partition	
create partition efi	
format quick fs=fat32	
list partition	
list volume	Note: Note the volume letter where the Windows OS is installed.
exit	
bcdboot X:\windows	Note: Replace "X" with the volume letter of the Windows OS partition.

- Remove the Windows installation media and restart the computer.

Adr	ninistrator: X:	windows	\syster	n32\	cmd.e	xe - di	skpart		- 0	×
Microsoft Window	s [Version	6.3.9600	93							^
X:\Sources>disku	art									
Microsoft DiskPa	rt version	6.3.9600)							
Copyright (C) 19 On computer: MIN	99-2013 Mic WINPC	rosoft (Corpor	ati	on.					
DISKPART> list d	isk									
Disk ### Stat	us	Size	Free		Dyn	Gpt				
Disk Ø Onli Disk 1 Onli	ne ne	120 GB 240 GB	99	MB Ø B		 *				
DISKPART> select	disk Ø									
Disk Ø is now th	e selected	disk.								
DISKPART> list p	artition									
Partition ###	Туре		Size		Offse	t				
Partition 1 Partition 2 Partition 3	Recovery Reserved Primary		300 128 119	MB MB GB	1024 400 528	KB MB MB				
DISKPART> create	partition	efi								
DiskPart succeed	ed in creat	ing the	speci	fie	l part	ition				
DISKPART> format	quick fs=f	at32								
100 percent co	mpleted									
DiskPart success	fully forma	tted the	e volu	me.						
DISKPART> list p	artition									
Partition ###	Туре		Size		Offse	t				
Partition 1 * Partition 4 Partition 2 Partition 3	Recovery System Reserved Primary		300 99 128 119	MB MB MB GB	1024 301 400 528	KB MB MB MB				
DISKPART>										~
C14.	Administrate	or: X:\wine	dows\s	syste	m32\c	md.ex	e		-	×

CIV.	Administrator: X:\windows\system32\cmd.exe							
DISKPART> lis	DISKPART> list volume							
Volume ###	Ltr	Label	Fs	Туре	Size	Status	Info	
Uolume Ø Uolume 1 Uolume 2 Volume 3 * Uolume 4 DISKPART> exi Leaving DiskF	E C D	IR3_CCSA_X6 Recovery	UDF NTFS NTFS NTFS FAT32	DUD-ROM Partition Partition Partition Partition	3924 MB 119 GB 300 MB 239 GB 99 MB	Healthy Healthy Healthy Healthy Healthy Healthy	 Hidden Hidden	
X:\Sources>bcdboot c:\windows Boot files successfully created.								
X:\Sources>	X:\Sources>							

> OPTION TWO <

How to create the missing EFI System partition, if you have the unallocated space available for the EFI System partition.

- Boot the computer using the Windows 7/8/8.1 installation media.

- On the first screen, press SHIFT+F10 to bring up the command prompt.
- Run the following commands at the command prompt.

diskpart	
list disk	
select disk #	Note: Select the disk where you want to add the EFI System partition.
list partition	
create partition efi size	e=260
format quick fs=fat32	
list partition	
list volume	Note: Note the volume letter where the Windows OS is installed.
exit	
bcdboot X:\windows	Note: Replace "X" with the volume letter of the Windows OS partition.

- Remove the Windows installation media and restart the computer.

Administrator: X:\windows\system32\cmd.exe - diskpart	— ×		
Microsoft Windows [Version 6.3.9600]			
X:\Sources>diskpart			
Microsoft DiskPart version 6.3.9600			
Copyright (C) 1999-2013 Microsoft Corporation. On computer: MINWINPC			
DISKPART> list disk			
Disk ### Status Size Free Dyn Gpt			
Disk Ø Online 240 GB 58 GB *			
DISKPART> select disk Ø			
Disk Ø is now the selected disk.			
DISKPART> list partition			
Partition ### Type Size Offset			
Partition 1Recovery300 MB1024 KBPartition 2Reserved128 MB400 MBPartition 3Primary180 GB528 MB			
DISKPART> create partition efi size=260			
DiskPart succeeded in creating the specified partition.			
DISKPART> format quick fs=fat32			
100 percent completed			
DiskPart successfully formatted the volume.			
DISKPART> list partition			
Partition ### Type Size Offset			
Partition 1Recovery300 MB1024 KBPartition 2Reserved128 MB400 MBPartition 3Primary180 GB528 MB* Partition 4System260 MB181 GB			
DISKPART>	~		

C-A.	I	Administrator: X:\windows\system32\cmd.exe						
DI	SKPART> lis	t vol	ume					^
	Volume ###	Ltr	Labe 1	Fs	Туре	Size	Status	Info
*	Volume Ø Volume 1 Volume 2 Volume 3	D C	ESD-ISO Recovery	UDF NTFS NTFS FAT32	DUD-ROM Partition Partition Partition	3352 MB 180 GB 300 MB 260 MB	Healthy Healthy Healthy Healthy Healthy	Hidden Hidden
DI	DISKPART> exit							
Le	Leaving DiskPart							
X: Bo	X:\Sources>bcdboot c:\windows Boot files successfully created.							
X:	\Sources>							~

> OPTION THREE <

How to create the missing EFI System partition, if you do NOT have the unallocated space available for the EFI System partition.

- Boot the computer using the Windows 7/8/8.1 installation media.

- On the first screen, press SHIFT+F10 to bring up the command prompt.
- Run the following commands at the command prompt.

diskpart	
list disk	
select disk #	Note: Select the disk where you want to add the EFI System partition.
list partition	
select partition #	Note: Select the Windows OS partition or your data partition.
shrink desired=260	
create partition efi size	e=260
format quick fs=fat32	
list partition	
list volume	Note: Note the volume letter where the Windows OS is installed.
exit	
bcdboot X:\windows	Note: Replace "X" with the volume letter of the Windows OS partition.

- Remove the Windows installation media and restart the computer.

