# Cheatography

File compres

File encryption

## Backup-GR2 Cheat Sheet by Nectus via cheatography.com/71634/cs/19130/

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Bjørn	Alen	kæ
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Ari Johannesen

No

No

Tobias Munk

File Systems FAT, FAT32, exFAT, NTFS, ReFS FAT FAT32 exFAT NTFS ReFS Feature 4 GB 32 GB 128 PB 256 TB 4.7 ZB (zettab mum volume Maximum file size 4 GB 4 GB 16 EB 18 EB 18 EB 8.3 charact 255 characte imum filename 255 char 255 characte 255 chara 64 KB 32 KB 32 MB 2048 KB 64 KB

No

No

No

No

#### **Backup Types**

#### Full backup

Takes a full copy of the source and copies it to the desired destination

Yes

Yes

No

Yes

#### Incremental backup

Takes a backup of anything that has been changed or created since the last check. Looks for the "ready for archiving" bit to check if the file has been edited.

#### Differential backup

Similar to "Incremental backup" the first time it is performed. It copies all data changed from the previous backup. However, each time it runs afterwards, it will continue to copy all data cahnge since the previous FULL backup. It requires more storage and time to complete than "Incremental Backup"

#### Block backup

Block-level backup is a feature of incremental backup that allows uploading for only changed parts of files instead of whole files. In order to do that, it uses a snapshot technology.

#### File backup

Archive bit must be active on file

#### Volume / Partition

#### Volume

A Volume is treated like a separate drive from the physical drive, formatting a volume will only affect the volume.

#### Partition

A Partition is the definition of a section on a drive, using partitions enables the user to divide a drive into multiple sectors also known as Logical Volumes.



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#### Basic Disk

Max 4 partitions

Supports Extended Partitions

up to 26 logic drives

introduced in MS-DOS

#### Dynamic Disk

#### Do not support OS

Supports simple, Spanned, Triped, Mirrored & Raid 5 Volumes introduced in Windows 2000

#### Shadow Copy

Recovers Files and Folders VSS stands for Volume Shadow copy Service

Storage area <= 300 Mb

64 changes/snapshots are recorded

Only works on NTFS file systems

Commands :

vssadmin add shadowstorage

vssadmin create shadowstorage

vssadmin delete shadowstorage

vssadmin resize shadowstorage

vssadmin list shadowstorage

vssadmin list providers

vssadmin list volumes

vssadmin list shadows

vssadmin list writers

vssadmin list shadows

vssadmin resize shadowstorage

#### Disk Quota

FSRM Stands for File Server Resource Manager

Quota is a feature that tracks and can be used to restrict the amount of space that a user's files can use on an NTFS volume

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Disk Quota (cont)	
Hard quotas	impose a hard limit on system resources; any operation that would result in exceeding the limit fails. The following settings create hard quotas: Disk Limit parameter Files Limit parameter
Soft quotas	send a warning message when resource usage reaches a certain level, but do not affect data access operations, so you can take appropriate action before the quota is exceeded. The following settings create soft quotas: Threshold for Disk Limit parameter Soft Disk Limit parameter Soft Files Limit parameter

RAID (Redudant Array Of Independent Disks)		
Raid0	Minimum 2 disks - Not redundant	
Raid1	Minimum 2 disks - Mirroring	
Raid2	Minimum 3 disks - Data is shared on bit-level on multiple disks	
Raid5	Minimum 3 disks - Stripping with distributed partitions	
Raid6	Minimum 4 disks - Stripping with double distributed partitions	
Raid10 (1+0)	Minimum 4 disks - Stripping then mirroring	

Windows Server Backup

DISKPART> select disk 1 Disk 1 is now the selected disk. DISKPART> attribute disk clear readonly Disk attributes cleared successfully. DISKPART> convert dynamic Selected disk is already a dynamic disk. DISKPART> create volume raid size=30000 disk=1,2,3,4 DiskPart successfully created the volume.

#### Remember to run:

- # Attribute disk clear readonly
- # convert dynamic

#### On ALL the drives for the RAID5



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Raid Types	
Volume Type	Characteristics
Mirrored Volume	Stores data to two dublicate disk at the same time. Fault Tolerant, can lose on disk as data is preserved on both. The system automatically switches to the functioning disk to maintain service.
Striped Volume	Uses storage areas on several different disks. Improves performance by writing to mulitple disk simult- aneously. Saves data from a single file to mulitple disks. NOT fault tolerant, if one disk dies then all data is lost. Can NOT contain system or boot files.
RAID5 Volume	Contain three or more disks. Like a striped volume, portions of a single file are written to each disc in the set. RAID5 volumes add fault tolerance to striping through a process called parity (data recovery information is added to each disk). Often called a striped set with parity.

## GPT / MBR

MBR (Master Boot Record)	GPT (Guided Partition Table)
A special type of boot sector at the very beginning of a physical storage device.	A standard for the layout of the partition table on a physical storage device.
Max Diskspace 2.2TB	Max Diskspace 1.8EB
Max 4 primary partitions	max 128 partitions
Supports only one extended partition (up to 26 total partitions)	Supports UEFI

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Disk Administration	
MCC	diskmgmt.msc
CMD	diskpart.exe
Startup/Reco	overy Commands
To recover file wbadmin star	es or folders you can use either the Recovery Wizard or trecovery
BCD	Boot Configuration Data
EASYBCD	Software utility for BCD/BootMGR
DSRM	Directory Services Restore Mode
Bootrec.exe	Executable for troubleshooting startup issues
Ntdsutil.exe	Active Directory database maintenance tool
MSCONFIG	Command for accessing Microsoft System Config- uration
BCDEDIT	Sets properties in boot database to control boot loading
CHKDSK	Checks a disk and displays a status report
DISKPART	Displays or configures disk partitions
WBADMIN	Enables you to back up and restore your operating system, volumes, files, folders, and applications from a command prompt.
AUTHOR- ITATIVE RESTORE	Used to restore AD data after executing the Ntdsut- il.exe command. When you perform an authoritative restore, you prevent specific objects from the backup from being overwritten by Active Directory replication.
UNAUTH- ORATIVE RESTORE	Any changes that took place since the backup are replicated to the restored domain controller.

# C

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### AT commands Backup

at 23:00 cmd /c copy C:\Dokumenter. C:\Backups

at \\products 00:00 /every:M,T,W,Th,F backup