Block-level storage is a type of storage commonly deployed by larger businesses and enterprises in <u>storage area net works</u> (SANs) and si milar large-scale storage systems. Each block in a blocklevel storage system can be controlled as an individual <u>hard drive</u>, and the blocks are managed by a <u>server operating system</u>

Block-level storage protocols like <u>iSCSI</u>, <u>Fibre Channel</u> and <u>FCoE</u> (Fibre Channel over Ethernet) are utilized to make the storage blocks visible and accessible by the server-based operating system. This is in contrast with <u>file-level storage</u>, in which the storage drives are configured with a storage protocol like <u>NFS</u> or SMB/ <u>QFS</u>

File Level Storage - This storage technology is most commonly used for storage systems, which is found in hard drives, NAS systems and so on In this File Level storage, the storage disk is configured with a protocol such as NFS or SMB/ CIFS and the files are stored and accessed from it in bulk

- The Filelevel storage is simple to use and implement.
- It stores files and folders and the visibility is the same to the dients accessing and to the system which stores it.
- This level storage is inexpensive to be maintained, when it is compared to its counterpart i.e. block level storage.
- Net work attached storage systems usually depend on this file level storage.
- File level storage can handle access control, integrate integration with corporate directories; and so on
- "Scale Out NAS" is a type of Elelevel storage that incorporates a distributed file system that can scale a single volume with a single names pace across many nodes. Scale Out NAS Elelevel storage solutions can scale up to several petabytes all while handling thousands of clients. As capacity is scaled out, performance is scaled up.
- <u>**Click here</u> to view Stone Hy products featuring Hie Level Storage.</u></u>**

H ock Level Storage - In this block level storage, raw volumes of storage are created and each block can be controlled as an individual hard drive. These H ocks are controlled by server based operating systems and each block can be individually formatted with the required file system

- Block level storage is usually deployed in SAN or storage area net work environment.
- This level of storage offers boot-up of systems which are connected to the m
- Block level storage can be used to store files and can work as storage for special applications like databases, Virtual machine file systems and so on
- Blocklevel storage data transportation is much efficient and reliable.
- Block level storage supports individual for matting of file systems like NFS, NIFS or SMB (Wndows) or VMFS (VMware) which are required by the applications.
- Each storage volume can be treated as an independent disk drive and it can be controlled by external server operating system
- Block level storage uses i SCSI and FCoE protocols for data transfer as SCSI commands act as communication interface in between the initiator and the target.