

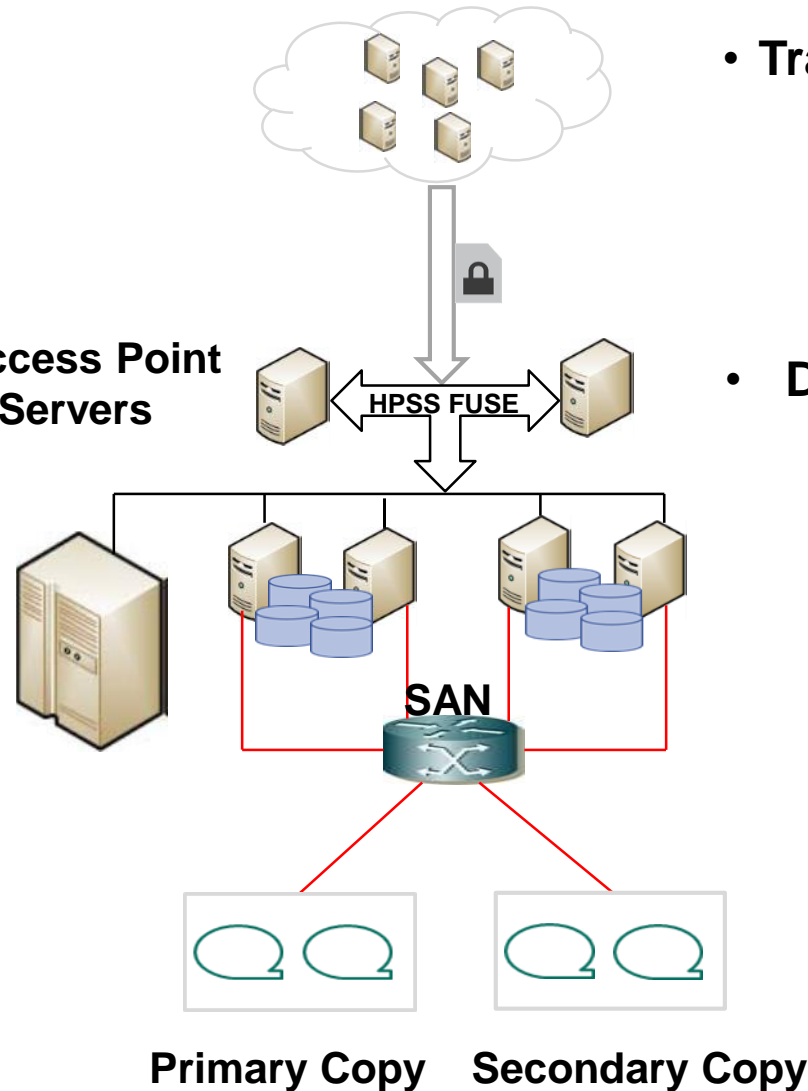
bwDataArchiv Data Protection

Clients

BwDataArchiv Access Point
SFTP & GridFTP Servers

HPSS Core
HPSS Movers

Tape Drives



- **Transport layer encryption**

- transmission protocols (SFTP/GridFTP) encrypt data on the fly
- successful decryption assures error free data transfer between client and bwdataArchiv access point

- **Data integrity**

- bwDataArchiv access point calculates MD5 checksum of every single file on reception
- data is verified against the checksum when a file is read by client
- corrupted files flag an error on the client but are not send to the client
- user informs admins who will start recovery of data from the secondary data copy