

HAND-BOOK
OF THE MODERN DEVELOPMENT SPECIALIST

2

MANAGING DATA

SETTING UP THE 'DATA INFRASTRUCTURE'



RESPONSIBLE



DATAFORUM

A home for healthy data

- » Data integrity: *validity*, *authenticity* and *security*
- » Data storage: *risks* and *harms*
 - » Physical location
 - » Digital location
 - » Ultimate ownership of storage
 - » Back ups
 - » Access
 - » Data lifecycle
 - » Saving data



Pros and Cons of Storage Options

Locally on your pc(s)

- » **Pro:** High security when encrypted, fast, accessible, legal clarity of ownership
- » **Con:** Lower security of physical theft or confiscation, poor backup (especially in cases of fire or floods)

On your own network

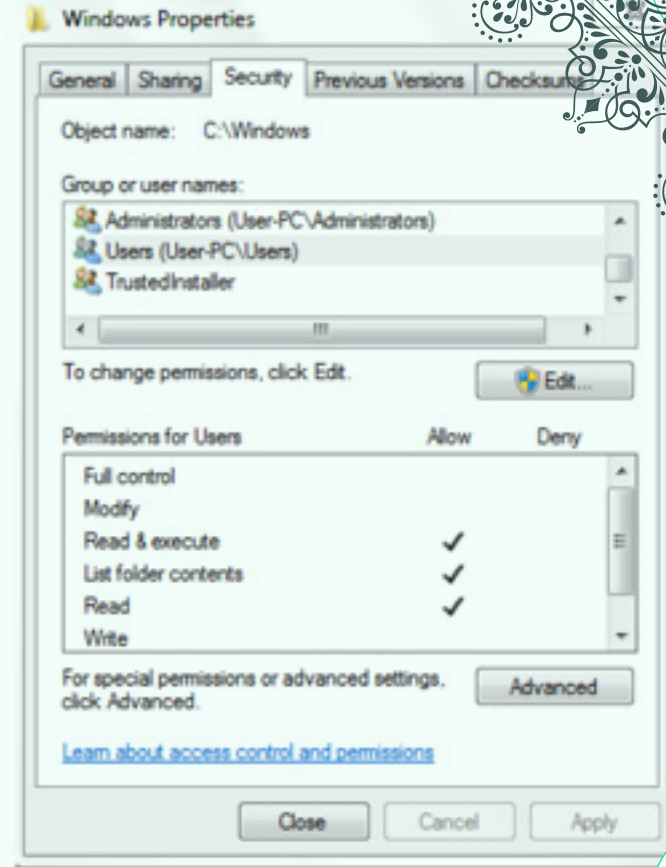
- » **Pro:** easier sharing, better backup, greater legal clarity
- » **Con:** increased cost, greater skill needed for security, greater reliance on IT support, exposure to confiscation

Living in the cloud

- » **Pro:** decreased costs, increased resilience, easy sharing, better backup
- » **Con:** legal uncertainty, no control over physical access, nearly impossible to “vet” people with access to servers, reliant on cloud company

For your eyes only?

- » Limit user access to only the minimum amount of data
- » Only allow access as long as needed
- » Only have the minimum permissions needed to do the job



Legal considerations

- » Data protection laws
- » Encryption technology laws
- » Jurisdictional issues
- » Copyright and Patent





Useful resources

The Frontline SMS Users' Guide to Data Integrity
http://www.frontlinesms.com/wp-content/uploads/2011/08/frontlinesms_userguide.pdf

Deflect <https://deflect.ca/>

Cloudflare <https://www.cloudflare.com>

For a listing of secure tools,
see <https://www.prismbreak.org>

On choosing a hosting provider, see https://learn.equalit.ie/wiki/Responsible_Data_Forum_on_Hosting

On setting up a secure hosting provider,
see https://learn.equalit.ie/wiki/Secure_hosting_guide

NGO Law Monitor - <http://www.icnl.org/research/monitor/>

Maps of Data Protection Laws

<http://www.forrestertools.com/heatmap/>
& <http://www.dlapiperdataprotection.com/#handbook/world-map-section>

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