

Plàstics Dertosa

ICT Security Plan

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Erasmus+

Contents

1. Our training firm: Plàstics Dertosa
2. Current state of the security environment
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1. Plastics Dertosa: our simulated company



- Since October 2002,
- Design and manufacture of furniture
- High quality and functionality



PD: our simulated company



Plastics Dertosa: simulated company in Institut de l'Ebre (Tortosa):

- Managed by students of business administration and finance
- Work environment
- Working relationships
- Learning and training of situations, tasks and processes: active methodology with a clearly professional component
- Learning by doing, learning by working

PD: how it works



- A constant desire to innovate
- Our motto: *“Feel our creativity in the atmosphere”*
- Our collection: multifunctional and transversal
- Colour, transparencies and unique shapes for unique objects
- Emotion, functionality and quality
- Continuous evolution in the use of materials
- Experimentation with new technologies

PD: business culture

	In business	In our training firm
MISSION	Manufacture of plastic furniture for different spaces	Real working situations (SEFED Project - Inform Foundation)
VISION	Desire to innovate Benchmark in decoration of everyday spaces	To train future entrepreneurs in administrative and business management tasks
VALUES	Innovation, transnationality, networking, teamwork, responsibility, organisation at work, initiative, autonomy and interpersonal relationships	

PD: departments

- Reception
- Human Resources Department
- Purchasing Department
- Sales and Marketing Department
- Accounts Department
- Financial Department



2. Current state of the security environment



- Insecure passwords. (email, internet banking)
- Loss of data (digital folders, factusol, nominasol, contasol)
- Download damaged files. (quotations and invoices, spam)
- Insecure network. (software: virtual city, factusol, nominasol, contasol, internet banking)
- Hacking / phishing. (virtual city, online transactions)

Insecure password

Need of secure passwords for:

- personal information
- internet banking
- e-mails
- online communication
- ...



Loss of data

Different types of documents with important data:

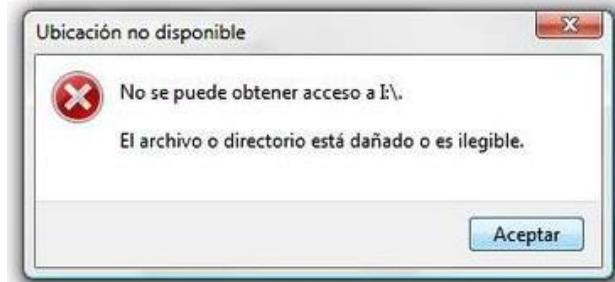
- Contracts and agreements
- Invoices
- Files in applications
- ...



Hackers can steal or destroy them with viruses

Download damaged files

- Free apps: danger of infestation
- Ransomware or spyware: check/skim computer for passwords and private information



What is a Trojan?



“Trojan”: a type of malware often camouflaged as legitimate software.

Cyber drunks and hackers can use Trojans to try to access users' systems.

What can a Trojan do?

1. Data deletion
2. Data lock
3. Data modification
4. Data copy
5. Interruption of the performance of computers or networks



Unlike viruses and computer worms, Trojans cannot multiply.

I have suffered a cyberattack, what can I do?



- One solution: Turn off the infected computer and all the devices that are interconnected to it.
- Recommended: Disconnect the infected devices from the network

What is phishing?

Phishing: fraudulent method to catch personal data using a false identity on the Internet is punished.

- Passwords
- Credit card information
- Bank account numbers, ...



Phishing in PD



Virtual city: products and stock transactions

Danger: e-mails and bank account can be hacked, loss of money

3. Security measures and control

Insecure passwords?

- Reduce unnecessary passwords.
- Avoid short passwords that can be obtained easily (your pet's name, dates, postal codes, ...)

<p>UNCOMMON (NON-GIBBERISH) BASE WORD</p> <p>ORDER UNKNOWN</p> <p>Tr0ub4dor & 3</p> <p>CAPS? COMMON SUBSTITUTIONS NUMERICAL PUNCTUATION</p> <p>(YOU CAN ADD A FEW MORE BITS TO ACCOUNT FOR THE FACT THAT THIS IS ONLY ONE OF A FEW COMMON FORMATS)</p>	<p>~28 BITS OF ENTROPY</p> <p>$2^{28} = 3 \text{ DAYS AT } 1000 \text{ GUESSES/SEC}$</p> <p>(PLAUSIBLE ATTACK ON A WEAK REMOTE WEB SERVICE. YES, CRACKING A STOLEN HASH IS FASTER, BUT IT'S NOT WHAT THE AVERAGE USER SHOULD WORRY ABOUT.)</p> <p>DIFFICULTY TO GUESS: EASY</p>	<p>WAS IT TROMBONE? NO, TROUBADOR. AND ONE OF THE 0s WAS A ZERO?</p> <p>AND THERE WAS SOME SYMBOL...</p>  <p>DIFFICULTY TO REMEMBER: HARD</p>
<p>correct horse battery staple</p> <p>FOUR RANDOM COMMON WORDS</p>	<p>~44 BITS OF ENTROPY</p> <p>$2^{44} = 550 \text{ YEARS AT } 1000 \text{ GUESSES/SEC}$</p> <p>DIFFICULTY TO GUESS: HARD</p>	<p>THAT'S A BATTERY STAPLE.</p> <p>CORRECT!</p>  <p>DIFFICULTY TO REMEMBER: YOU'VE ALREADY MEMORIZED IT</p>

THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

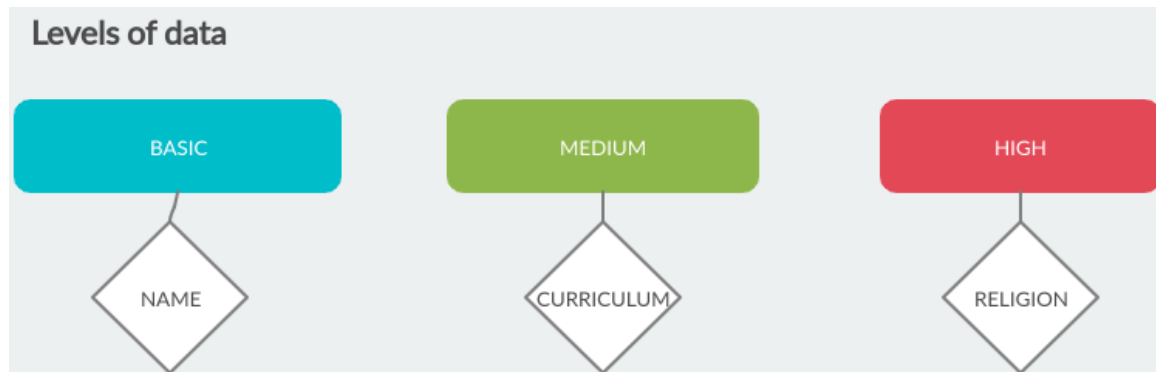
Easy to remember but difficult to guess.

How can we prevent data loss?

- Make regular backup copies:
 - different devices
 - media
- Use robust encryption systems: to prevent others from reading it.



How can we manage our data?



Users rights by the GDPR?



The Right to Be Informed
Individuals have a right to know who is processing their personal data



The Right to Access
Individuals have the right to access any personal data that has been collected about them



The Right to Rectifications
Individuals have the right to require organizations to correct inaccurate personal data



The Right to Be Forgotten
Individuals have the right to have their personal data deleted and to prevent further collection



The Right to Restrict Processing
Individuals have the right to require organizations to restrict the processing of specific categories of personal data



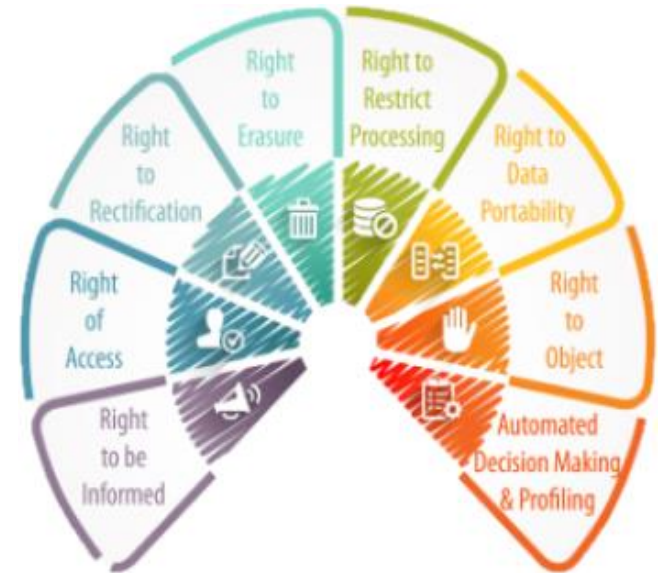
The Right to Data Portability
Individuals have the right to require organizations to transfer personal data to a recipient of their choice



The Right to Object
Individuals have the right to consent, or withdraw consent, to the processing of their personal data



Rights in Relation to Automated Decision Making and Profiling
Individuals have the right to opt out of the use of their personal data by automated systems, such as artificial intelligence



GDPR?

Checklist for GDPR Compliance

1

Awareness and Communication

Ensure your employees understand GDPR and communicate with service and staff about why you are collecting the data.



2

Analysis of Personal Data

Analyze a list of all sensitive data you store and process



3

Review Procedures

Have a suitable privacy policy in place and review it regularly



4

Access Rights

List what access rights should be granted and how changes should be handled



5

Customer Consent

Ensure your customers consent to you processing their data



6

Data Breaches

Implement a procedure for handling data breaches



7

Impact assessments

Carry out a data protection impact assessment



8

Data Protection Officers (DPO's)

Determine whether you need a Data Protection Officer (DPO)



Seven Principles of GDPR

1



Be Transparent With Data

Implied consent is a big no-no under the GDPR.

2



Limit Data to What You Need

No scooping up data just because you can.

3



Limiting Kept Data

Do we need all this data? If the answer is no, delete it.

4



Data Must be Accurate

Make sure that data is accurate and up-to-date.

5



Limit Storage of Personal Data

Don't keep it longer than you need it.

6



Integrity and Confidentiality

Use encryption, 2FA, and tamper-evident logging.

7



Accountability

Keep a paper trail to demonstrate compliance.

Protect our devices

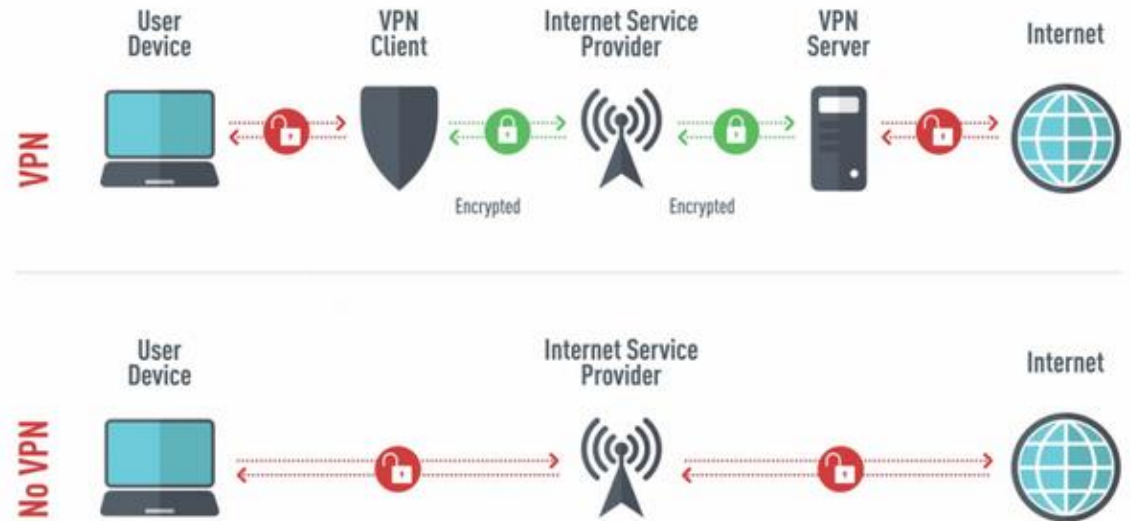
■ Install antivirus software



Secure connections

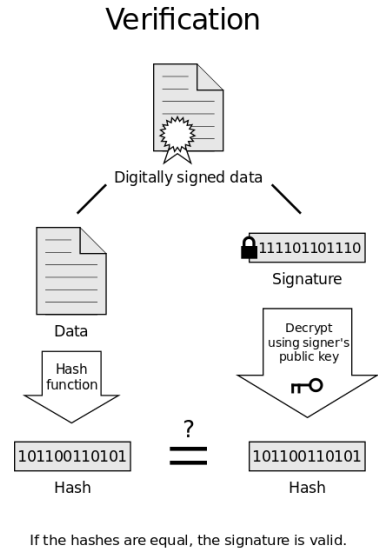
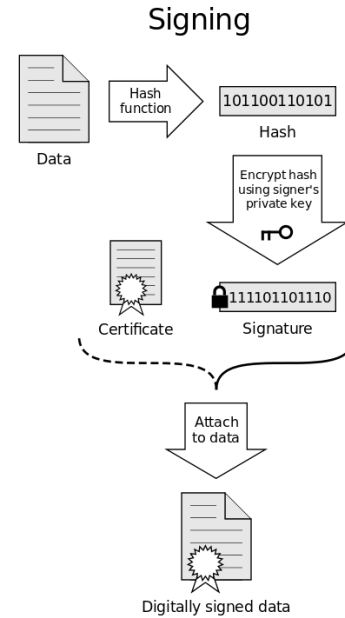
- Create VPN for secure connection
- Use more strict rules on firewall

How a VPN works



Digital certificates

- Protect our data bank
- Authenticate our identity



 95



“ THANKS FOR YOUR
ATTENTION!!!

