# Web
## Web hosting

Catarina Oliveira

DCT DEPARTAMENTO **CIÊNCIA E TECNOLOGIA**

UPT UNIVERSIDADE PORTUCALENSE

## CONTENT

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# Web hosting

- Renting server space, allowing:
  - Having a 24/7 available online website
  - Creating e-mail accounts

- **Domain registry** is mandatory
  - Domain: the name used for accessing the website

- **DNS hosting:** allows the domain to:
  - Redirect to other service
  - Forward to another account

- **Types**:
  - Shared hosting
  - VPS hosting
  - Dedicated server hosting
  - Cloud hosting

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# Shared hosting

**Definition:**

- The hosting shared between several users

- It is composed by servers

  - Where other clients' websites are also hosted

- The clients share resources and servers

**Advantages:**

- Low price

- Fast to install and prepare for the client

- Does not require the client to have high technical skills

**Disadvantages:**

- The same server is shared by several clients

  - The IP is also shared

- Emails sent by the server can be marked as SPAM

  - They will not reach the recipient

- If the website receives too much traffic it can stop working

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# VPS hosting

**Definition:**

- The same server is used by several clients, **but** it is split to fix an amount of resources for each site
- A VPS (*Virtual Private Server*) mimics a dedicated server: the website has the same resources available at each moment
- Better than shared hosting, specially when the website has high traffic
- There are bundles with certain amounts of resources
    - More resources → better VPS

**Advantages:**

- Average – high price (depends on the resources)
- Hosting environment apart from the other websites
- Hosting is more stable
- Hosting is less prone to stop working

**Disadvantages:**

- Much more expensive than shared hosting
- More complex to install and maintain
    - Specially if the provider does not offersupport
- The same IP is shared by the several VPS on the server

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# Dedicated server hosting

**Definition:**

- The more expensive, **but** if the website receives high amounts of traffic, it is the better option

- Rental of the full server

- Complete control over the server and all its resources

- More compels, **but** more advantageous in speed and performance

**Advantages:**

- Faster and more efficient hosting

- Server and resources are not shared

- Server can be customised according to the client's needs

**Disadvantages:**

- Expensive

- High complexity of installation and maintaining

- Client needs high technical skills

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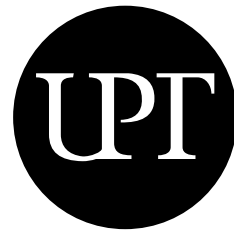# Cloud hosting

**Definition:**

- Several servers connected in a "cloud" contribute with their resources

- "Infinite" amount of servers, with "infinite" amounts of resources added to the network

- Allows the creation of several VPS

**Advantages:**

- Price less expensive than VPS hosting

- Higher speed and performance

- Easier to add resources

- Possibility of paying rosources according to the real time demand

**Disadvantages:**

- If the client does not know what he is doing, it may become expensive with the real time resource allocation

- Easily mistaken for shared cloud hosting

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Do conhecimento à prática.