

## 1) Verificar firmas con / Verify signatures with GPG (<https://www.gnupg.org/>):

Abre el terminal de comandos y navega al directorio en el que esté el fichero a verificar y la firma.  
Open the command terminal and navigate to the directory where the file to be verified and the signature are located.

```
gpg --verify gio_keys7.7z.sig gio_keys7.7z
```

```
Directorio de c:\temp\giocondas_keys
13/08/2023  08:53    <DIR>      .
13/08/2023  08:53    <DIR>      ..
12/08/2023  11:44                5.892 .style.css.un~
12/08/2023  12:12           122.418.698 gio_keys7.7z
12/08/2023  12:28                119 gio_keys7.7z.sig
              3 archivos   122.424.709 bytes
              2 dirs    321.248.083.968 bytes libres

c:\temp\giocondas_keys>gpg --verify gio_keys7.7z.sig gio_keys7.7z
gpg: Firmado el 12/08/2023 12:28:41 Hora de verano romance
gpg:          usando EDDSA clave 6D4193A1E68B713001ADBD2BA58ACC65A8640FD1
gpg: Firma correcta de "Victor Peloché <vpeloché@catay.es>" [absoluta]

c:\temp\giocondas_keys>
```

<https://www.gnupg.org/gph/es/manual/x154.html>

## 2) Comprobar la integridad del fichero / Check file integrity.

### 2.1. Windows:

Ejecuta powershell.exe y lanza los siguientes comandos:

Run powershell.exe and run the following commands:

```
Get-FileHash .\gio_keys7.7z -Algorithm MD5
```

```
Get-FileHash .\gio_keys7.7z -Algorithm SHA256
```

```
Windows PowerShell
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Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Windows\System32\WindowsPowerShell\v1.0> cd C:\temp\giocondas_keys\
PS C:\temp\giocondas_keys> Get-FileHash .\gio_keys7.7z -Algorithm MD5

Algorithm      Hash                                                    Path
-----
MD5            4026B3698EF7E2FEDE1976E6F4DACFFB                    C:\temp\gioco

PS C:\temp\giocondas_keys> Get-FileHash .\gio_keys7.7z -Algorithm SHA256

Algorithm      Hash                                                    Path
-----
SHA256        6EC56AA296345D39CE8F75910D7CD42FD1AE024334CB2CC02D18DBBD48DC735A C:\temp\gioco

PS C:\temp\giocondas_keys>
```

## 2.2. macOS:

First launch the Terminal application, located in the /Applications/Utilities/ directory on the Mac. Next you'll want to point the md5 or shasum command at the file you wish to check md5 or shasum hash for.

Examples:

```
md5 /full/path/to/your/file  
shasum -a 256 /full/path/to/your/file
```

## 2.3. Linux:

Launch in the Terminal application this commands:

```
md5sum /full/path/to/your/file  
sha256sum /full/path/to/your/file
```

Comprueba que los hash coinciden con los de gio\_keys7\_checksum.pdf  
Check that the hashes match those in gio\_keys7\_checksum.pdf