

Poetry



```
dodelgad@soc-7XQ1WH3:~/analyzer$ poetry --version  
Poetry (version 2.1.3)
```

¿Qué es Poetry?

Poetry es una herramienta moderna para la gestión de dependencias y empaquetado en proyectos de Python.

Principales características:

- Gestión de dependencias con `pyproject.toml`
- Creación y gestión de ambientes virtuales
- Algoritmo de resolución de dependencias
- Comandos integrados para la publicación de paquetes en PyPI

Configuración de proyectos

Poetry permite la creación de un proyecto y su estructura básica con un solo comando.

```
dodelgad@soc-7XQ1WH3:~$ poetry new analyzer
Created package analyzer in analyzer
dodelgad@soc-7XQ1WH3:~$ tree analyzer/
analyzer/
├── README.md
├── pyproject.toml
├── src
│   └── analyzer
│       └── __init__.py
└── tests
    └── __init__.py
```

Administración de dependencias

La instalación de paquetes actualiza el archivo pyproject.toml y el lock file.

```
dodelgad@soc-7XQ1WH3:~/analyzer$ poetry add pandas
Creating virtualenv analyzer-nnUZHcL--py3.12 in /home/dodelgad/.cache/pypoetry/virtualenvs
Using version ^2.2.3 for pandas
```

```
Updating dependencies
Resolving dependencies... (2.4s)
```

```
Package operations: 6 installs, 0 updates, 0 removals
```

- Installing six (1.17.0)
- Installing numpy (2.2.5)
- Installing python-dateutil (2.9.0.post0)
- Installing pytz (2025.2)
- Installing tzdata (2025.2)
- Installing pandas (2.2.3)

```
Writing lock file
```

```
dodelgad@soc-7XQ1WH3:~/analyzer$ cat poetry.lock
# This file is automatically @generated by Poetry 2.1.3 and should not be changed by hand.

[[package]]
name = "numpy"
version = "2.2.5"
description = "Fundamental package for array computing in Python"
optional = false
python-versions = ">=3.10"
groups = ["main"]
files = [
    {file = "numpy-2.2.5-cp310-cp310-macosx_10_9_x86_64.whl", hash =
```

Grupos de dependencias

```
dodelgad@soc-7XQ1WH3:~/analyzer$ poetry add --dev pytest  
Using version ^8.3.5 for pytest
```

```
Updating dependencies  
Resolving dependencies... (0.5s)
```

```
Package operations: 4 installs, 0 updates, 0 removals
```

- Installing iniconfig (2.1.0)
- Installing packaging (25.0)
- Installing pluggy (1.6.0)
- Installing pytest (8.3.5)

```
Writing lock file
```

```
[project]
name = "analyzer"
version = "0.1.0"
description = ""
authors = [
    {name = "Delgado Vargas, Daniel",email = "danielo.delgado@gmail.com"}
]
readme = "README.md"
requires-python = ">=3.12"
dependencies = [
    "pandas (>=2.2.3,<3.0.0)"
]

[tool.poetry]
packages = [{include = "analyzer", from = "src"}]

[tool.poetry.group.dev.dependencies]
pytest = "^8.3.5"

[build-system]
requires = ["poetry-core>=2.0.0,<3.0.0"]
build-backend = "poetry.core.masonry.api"
```

Integración por defecto con uso de ambientes virtuales

```
dodelgad@soc-7XQ1WH3:~/analyzer$ poetry env info
```

Virtualenv

Python: 3.12.3

Implementation: CPython

Path: /home/dodelgad/.cache/pypoetry/virtualenvs/analyzer-nnUZHcL--py3.12

Executable: /home/dodelgad/.cache/pypoetry/virtualenvs/analyzer-nnUZHcL--py3.12/bin/python

Valid: True

Base

Platform: linux

OS: posix

Python: 3.12.3

Path: /usr

Executable: /usr/bin/python3.12

```
dodelgad@soc-7XQ1WH3:~/analyzer$ poetry run pytest --version
pytest 8.3.5
```


Publicación de paquetes

```
dodelgad@soc-7XQ1WH3:~/analyzer$ poetry build
```

```
Building analyzer (0.1.0)
```

```
Building sdist
```

- Building sdist
- Built analyzer-0.1.0.tar.gz

```
Building wheel
```

- Building wheel
- Built analyzer-0.1.0-py3-none-any.whl

```
dodelgad@soc-7XQ1WH3:~/analyzer$ poetry publish
```

```
Publishing analyzer (0.1.0) to PyPI
```

- Uploading analyzer-0.1.0-py3-none-any.whl