



# PARADISE PAPERS by ICIJ

Los datos que une a políticos,  
delincuentes y una industria  
corrupta que oculta su dinero



# Instalación

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# Instalación

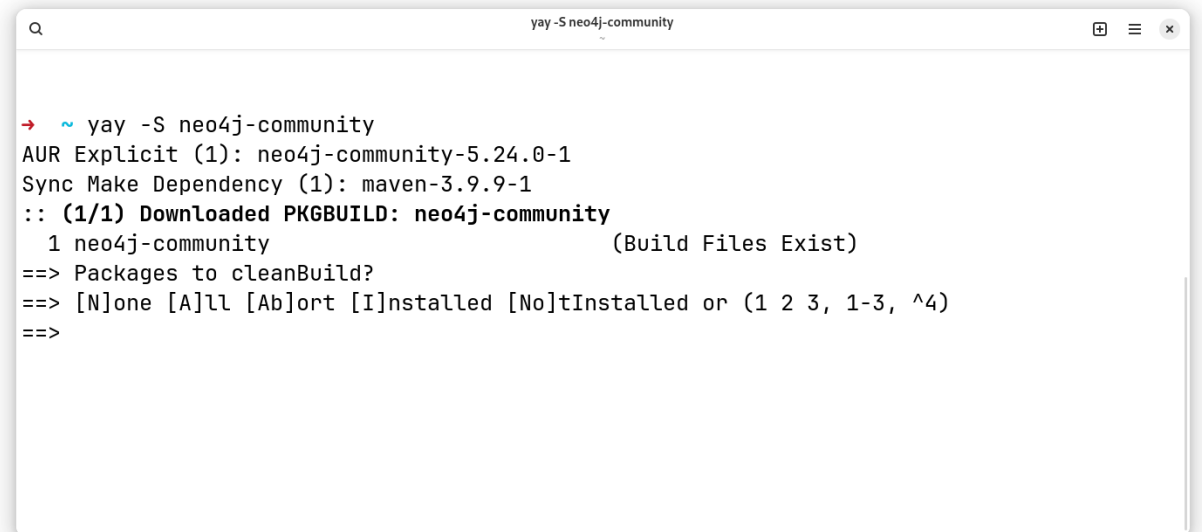
---



```
user@honor:~  
→ ~ archlinux-java status  
Available Java environments:  
java-11-openjdk  
java-17-openjdk  
java-21-openjdk  
java-23-openjdk  
java-8-openjdk (default)  
→ ~ archlinux-java set java-23-openjdk  
This script must be run as root  
→ ~ sudo archlinux-java set java-23-openjdk  
→ ~
```

Configurar versión de java

# Instalación



```
yay -S neo4j-community

→ ~ yay -S neo4j-community
AUR Explicit (1): neo4j-community-5.24.0-1
Sync Make Dependency (1): maven-3.9.9-1
:: (1/1) Downloaded PKGBUILD: neo4j-community
   1 neo4j-community                                (Build Files Exist)
==> Packages to cleanBuild?
==> [N]one [A]ll [Ab]ort [I]nstalled [No]tInstalled or (1 2 3, 1-3, ^4)
==>
```

Instalar Neo4j (Depende de la distribución)

# Instalación

```
yay -S neo4j-community

neo4j-community-5.24.0.tar.gz ... Passed
neo4j.executable-template ... Passed
neo4j.service ... Passed
neo4j.sysusers ... Passed
neo4j.tmpfiles ... Passed
:: Remove make dependencies after install? [y/N] N
:: (1/1) Parsing SRCINFO: neo4j-community
resolving dependencies...
looking for conflicting packages...

Packages (1) maven-3.9.9-1

Total Download Size:    8.38 MiB
Total Installed Size:  10.14 MiB

:: Proceed with installation? [Y/n]
```

Instalar Neo4j (Depende de la distribución)

# Instalación

```
yay -S neo4j-community

[INFO]
[INFO] --- licensing:1.7.11:check (list-all-licenses) @ neo4j-expressions ---
Security framework of XStream not explicitly initialized, using predefined black list on
your own risk.
[INFO] File confirmed: /home/user/.cache/yay/neo4j-community/src/neo4j-5.24.0/community/
cypher/front-end/expressions/target/./NOTICE.txt
[INFO] File confirmed: /home/user/.cache/yay/neo4j-community/src/neo4j-5.24.0/community/
cypher/front-end/expressions/target/./LICENSES.txt
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ neo4j-expressions ---
[INFO] skip non existing resourceDirectory /home/user/.cache/yay/neo4j-community/src/neo
4j-5.24.0/community/cypher/front-end/expressions/src/test/resources
[INFO] Copying 3 resources from  to target/test-classes/META-INF
[INFO]
[INFO] --- scala:4.9.2:testCompile (scala-test-compile) @ neo4j-expressions ---
[INFO] /home/user/.cache/yay/neo4j-community/src/neo4j-5.24.0/community/cypher/front-end
/expressions/src/test/scala:-1: info: compiling
[INFO] Compiling 7 source files to /home/user/.cache/yay/neo4j-community/src/neo4j-5.24.
0/community/cypher/front-end/expressions/target/test-classes at 1733251928356
█
```

Esperar xd



# Carga de datos

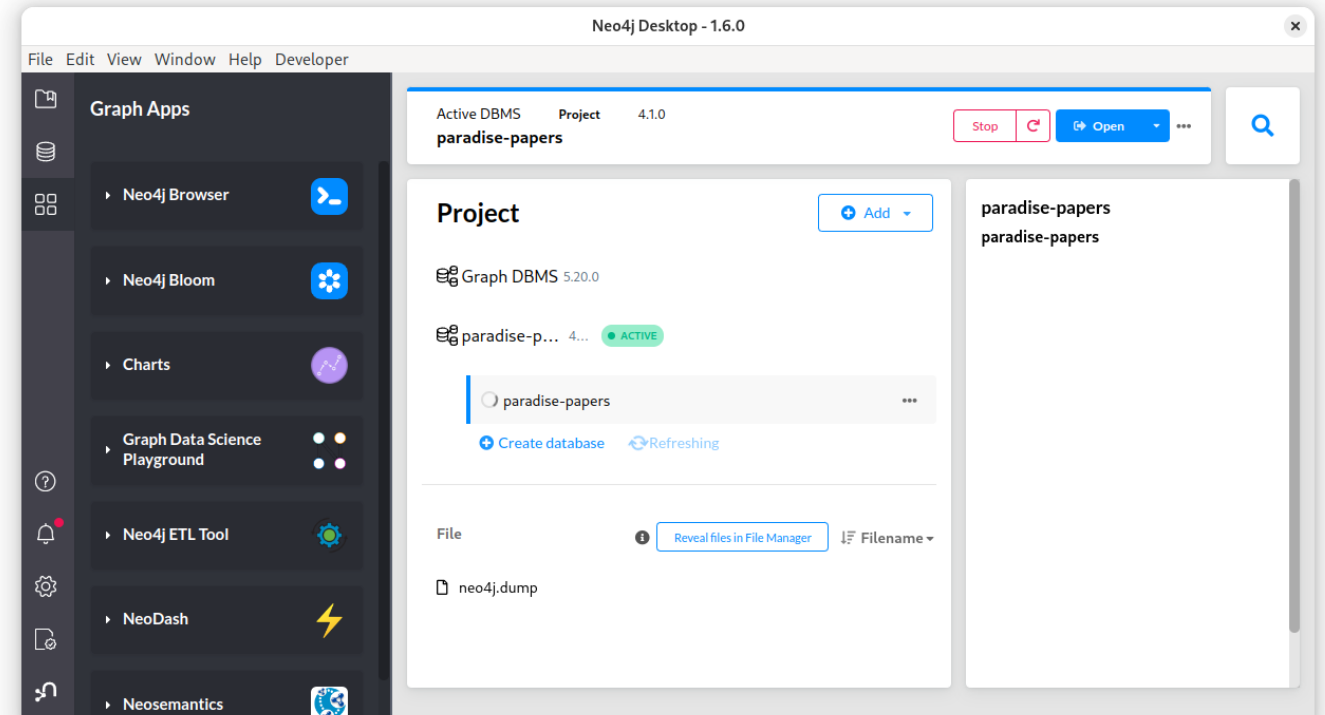
```
sudo ./bin/neo4j console
/opt/neo4j-community-5.25.1

Warning: Unable to locate appender "DebugLog" for logger config "root"
Warning: Unable to locate appender "HttpLog" for logger config "HttpLogger"
Warning: Unable to locate appender "QueryLog" for logger config "QueryLogger"
Warning: Unable to locate appender "SecurityLog" for logger config "SecurityLogger"

Configuration file validation failed.
Configuration contains errors. This validation can be performed again using 'neo4j-admin server validate-config'.
Run with '--verbose' for a more detailed error message.
→ neo4j-community-5.25.1 sudo ./bin/neo4j console
Directories in use:
home:      /opt/neo4j-community-5.25.1
config:    /opt/neo4j-community-5.25.1/conf
logs:      /opt/neo4j-community-5.25.1/logs
plugins:   /opt/neo4j-community-5.25.1/plugins
import:    /opt/neo4j-community-5.25.1/import
data:      /opt/neo4j-community-5.25.1/data
certificates: /opt/neo4j-community-5.25.1/certificates
licenses:  /opt/neo4j-community-5.25.1/licenses
run:       /opt/neo4j-community-5.25.1/run
Starting Neo4j.
2024-12-03 19:16:34.857+0000 INFO  Logging config in use: File '/opt/neo4j-community-5.25.1/conf/user-log
s.xml'
2024-12-03 19:16:34.873+0000 INFO  Starting...
2024-12-03 19:16:35.616+0000 INFO  This instance is ServerId{20406168} (20406168-e9a7-4a09-ad72-ffecfb7ad
592)
2024-12-03 19:16:36.490+0000 INFO  ===== Neo4j 5.25.1 =====
2024-12-03 19:16:38.218+0000 INFO  Anonymous Usage Data is being sent to Neo4j, see https://neo4j.com/doc
s/usage-data/
2024-12-03 19:16:38.246+0000 INFO  Bolt enabled on localhost:7687.
2024-12-03 19:16:38.752+0000 INFO  HTTP enabled on localhost:7474.
2024-12-03 19:16:38.753+0000 INFO  Remote interface available at http://localhost:7474/
2024-12-03 19:16:38.755+0000 INFO  id: 674844D6A84ABBE9F3BF3C1295EEF8902942C31E86EE8DF917EE6D6E0F75EA1D
2024-12-03 19:16:38.755+0000 INFO  name: system
2024-12-03 19:16:38.755+0000 INFO  creationDate: 2024-12-03T19:16:37.363Z
2024-12-03 19:16:38.756+0000 INFO  Started.
```

## Iniciar Neo4j

# Carga de datos



Colocar dump en Neo4j Desktop



# Carga de datos

neo4j@bolt://localhost:7688/paradise-papers - Neo4j Browser

File Edit View Window Help Developer

Database Information

Use database

paradise-papers

Node labels

\*(163,414) Address Entity Intermediary Officer Other

Relationship types

\*(364,456) CONNECTED\_TO INTERMEDIARY\_OF OFFICER\_OF REGISTERED\_ADDRESS SAME\_ID\_AS SAME\_NAME\_AS

Property keys

address closed\_date company\_type countries country\_code country\_codes end\_date ibcRUC icij\_id inactivation\_date incorporation\_date internal\_id jurisdiction jurisdiction\_description labels(n) name node\_id note original\_name service\_provider sourceID start\_date status struck\_off\_date type valid\_until

paradise-papers\$

paradise-papers\$ MATCH (a:Officer),(b:Officer) WHERE a.name CONTAINS 'Ro...

Graph

Table

Text

Warn

Code

Overview

Node labels

\*(23) Officer (4) Entity (15) Address (3) Other (1)

Relationship types

\*(47) OFFICER\_OF (18) REGISTERED\_ADDRESS (21) INTERMEDIARY\_OF (8)

Displaying 23 nodes, 299 relationships.

Use Ctrl or Shift + scroll to zoom  
Don't show again

\$ :play https://guides.neo4j.com/sandbox/icij-paradise-papers/index.html

use for this purpose than a SQL database or other types of NoSQL databases.

For example, let's say we want to discover the shortest paths between two entity officers through a set of **Entity** or **Address** nodes. This is quite easy with Cypher, Neo4j's graph query language.

The resulting graph allows us to explore how these people are connected:

```
MATCH (a:Officer),
(b:Officer)
WHERE a.name CONTAINS 'Ross, Jr'
AND b.name CONTAINS 'Grant'
```

# Puntos Clave

## Contenido:

- Registra casi 350,000 entidades offshore, relacionadas con actividades internacionales en más de 200 países.
- Incluye datos sobre las personas detrás de estas estructuras offshore secretas, como propietarios reales.

## Propósito:

- Busca eliminar el secreto que suele envolver a las empresas registradas en paraísos fiscales.
- Destaca quiénes están realmente detrás de estas entidades offshore.

## Datos revelados:

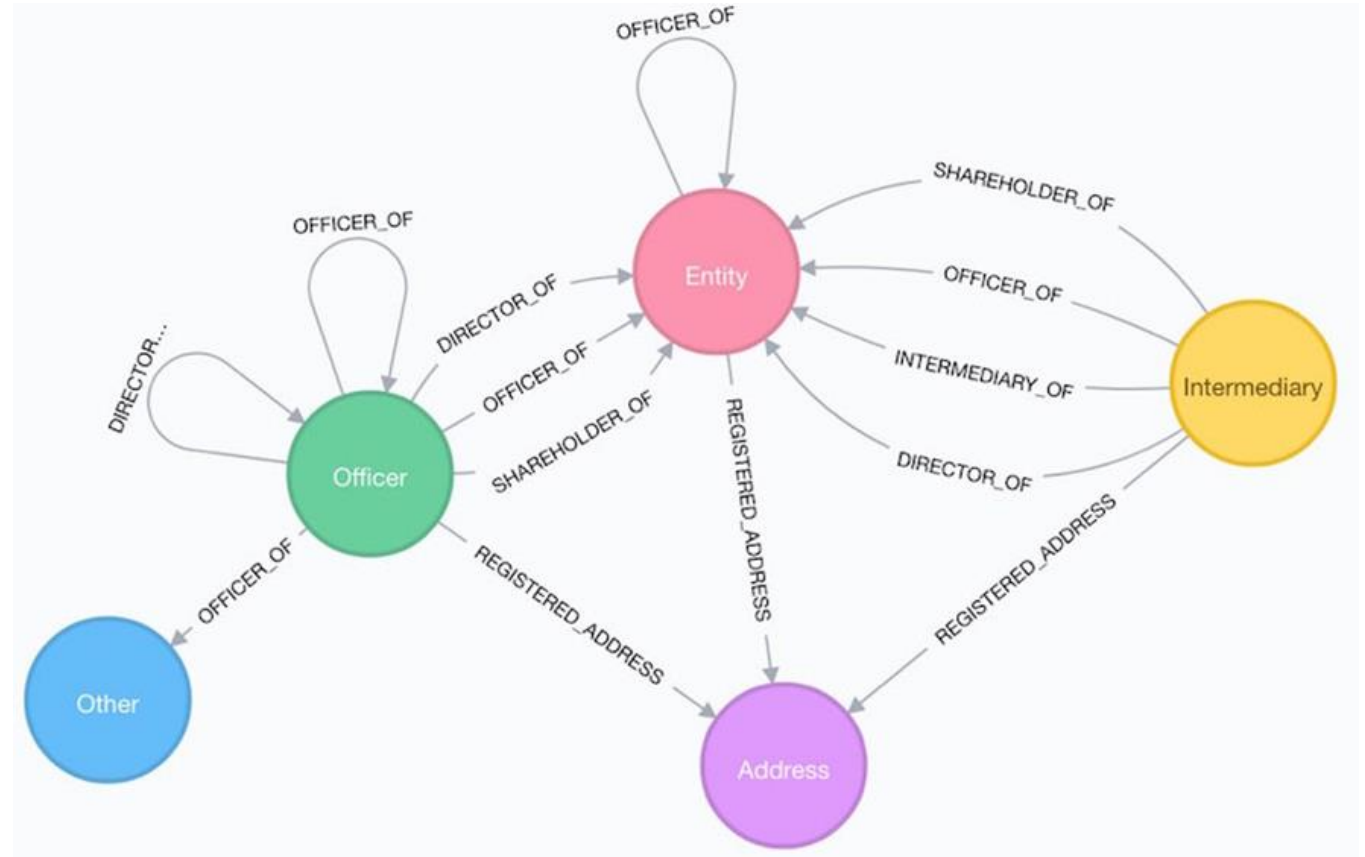
- Hay más de 430,000 nombres de personas y empresas relacionados con estas estructuras.



# Modelado

Nodes 163414

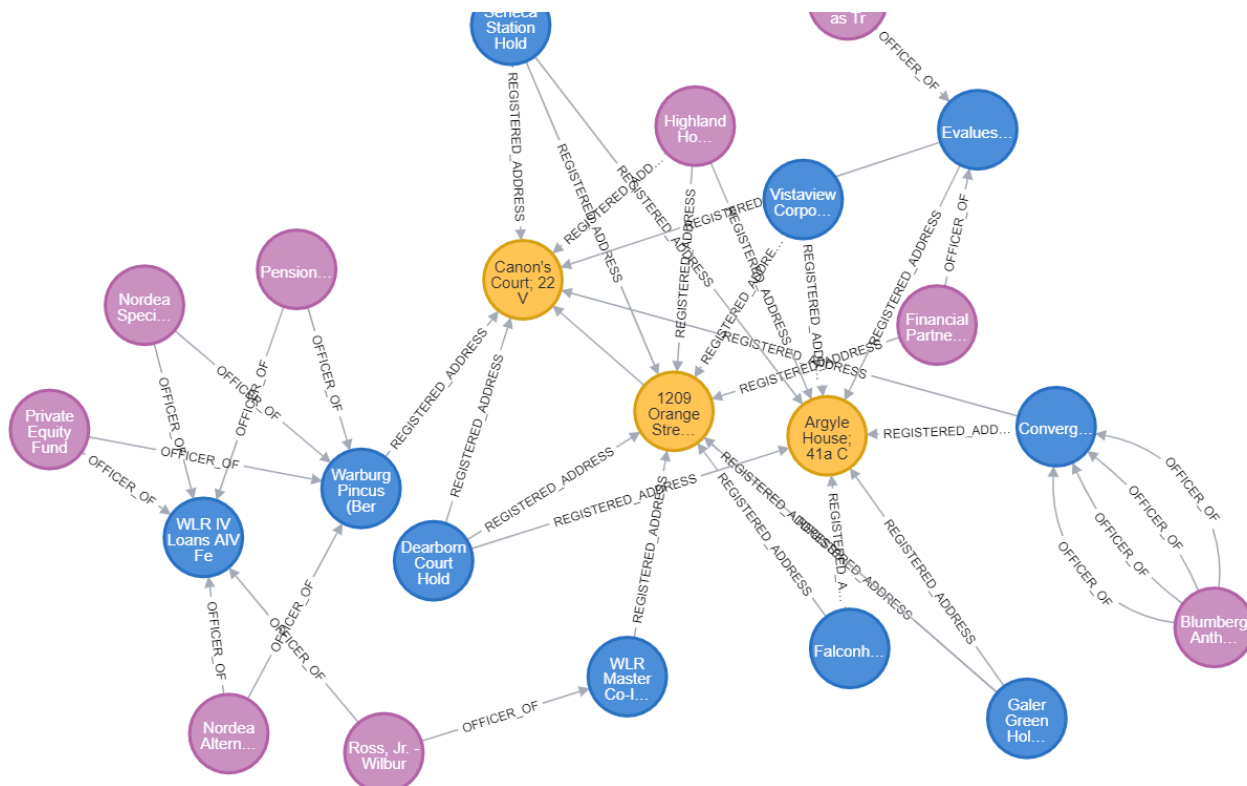
Relationships 364456







# Tipos de Nodos

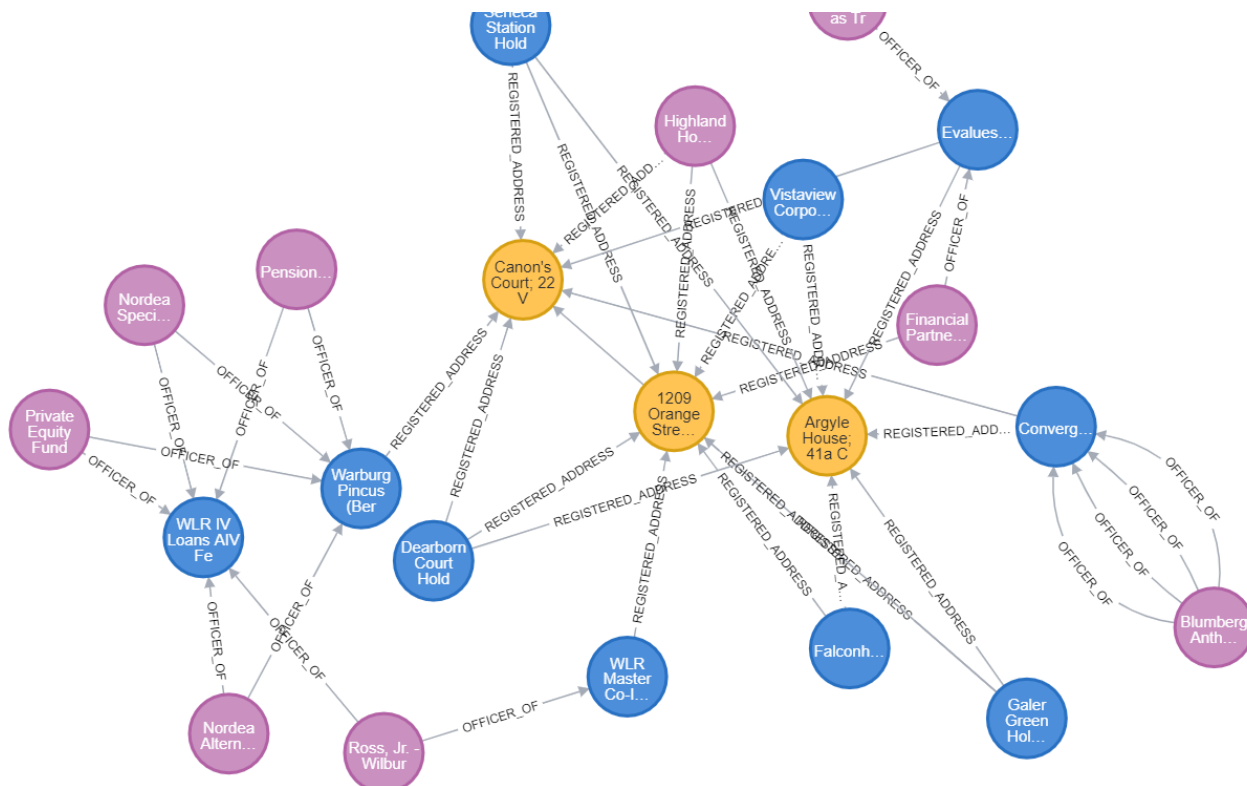


- **Entity** - Una entidad legal offshore. Esto podría ser una empresa, fideicomiso, fundación u otra entidad legal creada en una jurisdicción de baja tributación.

# Atributos

- name
- sourceID
- address
- former\_name , original\_name
- company\_type
- status
- incorporation\_date, inactivationdate, struck\_off\_date, dorm\_date.
- service\_provider
- ibcRUC:
- valid\_until
- Jurisdiction, jurisdiction\_description
- country\_codes , countries

# Tipos de Nodos



- **Officer** - Una persona o empresa que desempeña un rol en una entidad offshore, como beneficiario, director o accionista. Las relaciones mostradas en el diagrama son solo una muestra de todas las existentes.

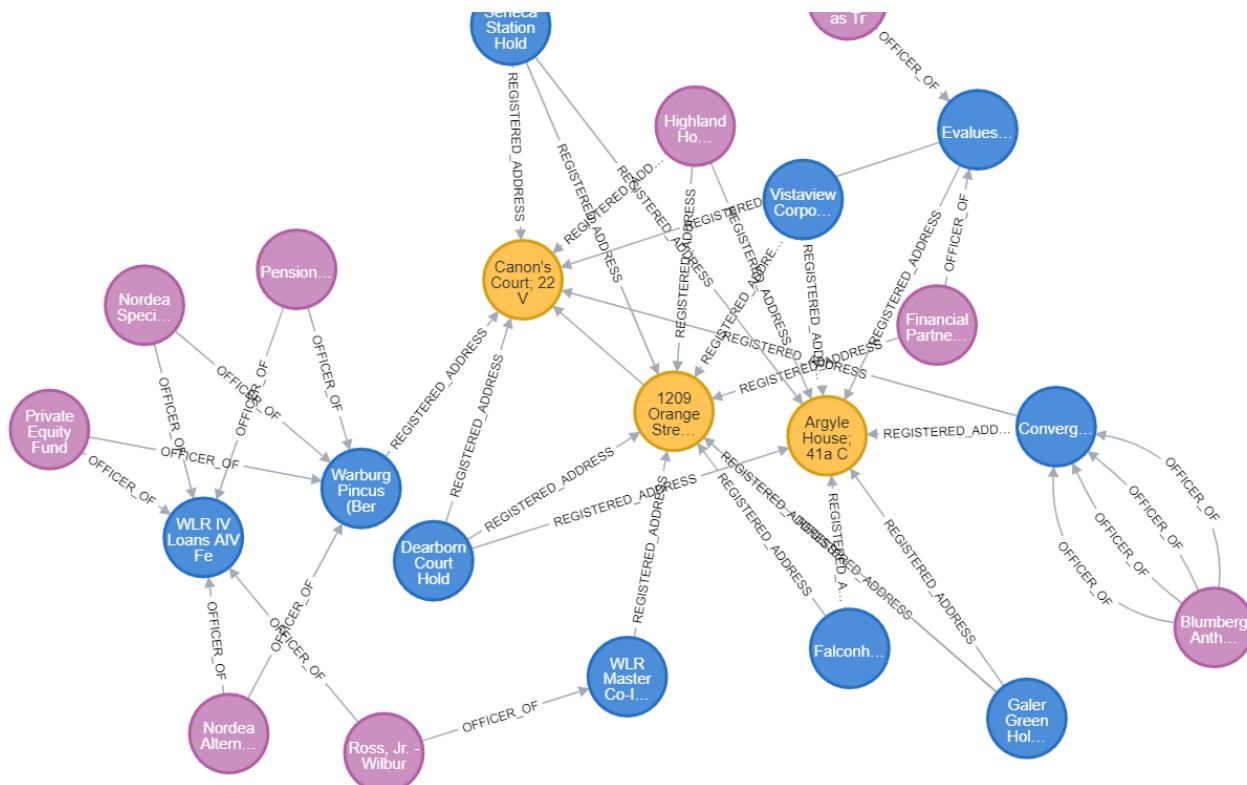


# Atributos



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- name
- valid\_until
- sourceID
- country\_codes , countries

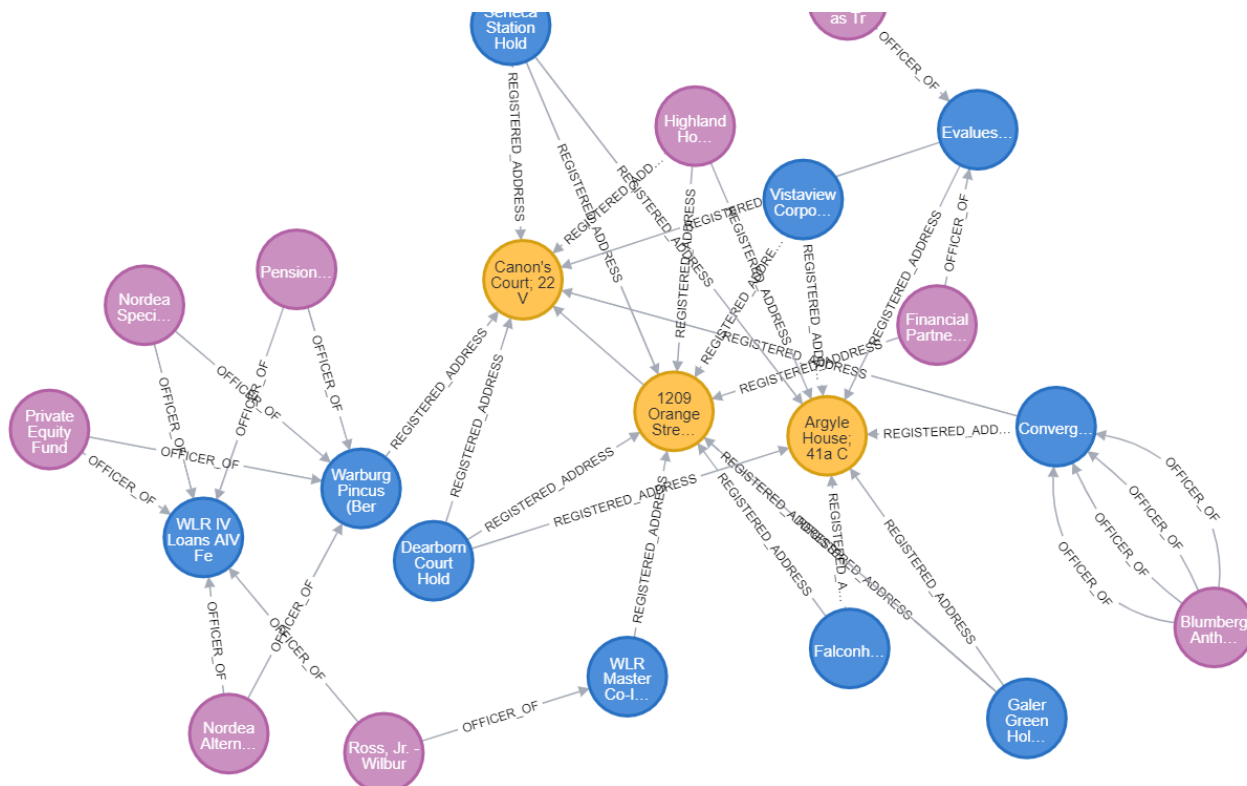


- **Intermediary** - Un intermediario entre alguien que busca crear una corporación offshore y un proveedor de servicios offshore, como una firma de abogados o un agente que solicita a un proveedor que cree una firma offshore.

# Atributos

- name
- address
- sourceID
- status
- valid\_until
- country\_codes
- countries

# Tipos de Nodos



- **Address** - La dirección registrada tal como aparece en las bases de datos originales obtenidas por el ICIJ.

# Atributos



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- ☐ address
- ☐ sourceID
- ☐ valid\_until
- ☐ country\_codes, countries