Example FOUR - Enrich our data using the command line

Introduction

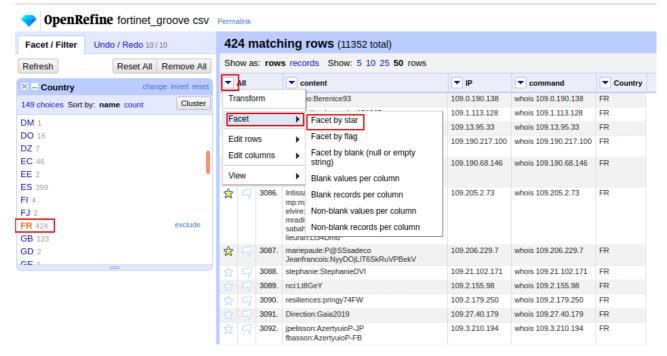
On this example, we will use a dataset proceeding from the Groove ransomware (A Hoax, by the way...): a list of vulnerable Fortinet IPs.

When you receive such an information, a good move is to quickly qualify such a dataset, to identify key IPs (by country, entities, etc...).

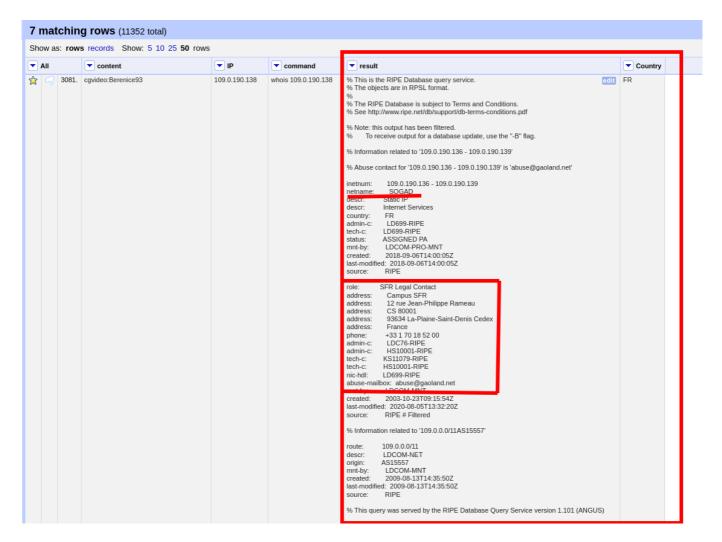
Our suggestion is to automate a *whois* on these IP, and to parse the result and export the scenario as a **recipe**, to replay it on the same dataset.

Import the data

- create a new project in OpenRefine by importing the csv file. Beware to select the commas separator. The project should content 3 columns and 11352 lines.
- create a new column "command" based on IP, using the formula "whois "+value.
- filter the country, by doing a text facet and click on the country of your choice (FR for example).
- randomly select 10 IPs in the dataset for the demo, by starring them.
- in the column "All", select **facet by star** then **true** to only display these IPs.



• execute the jython script to retrieve the infos...

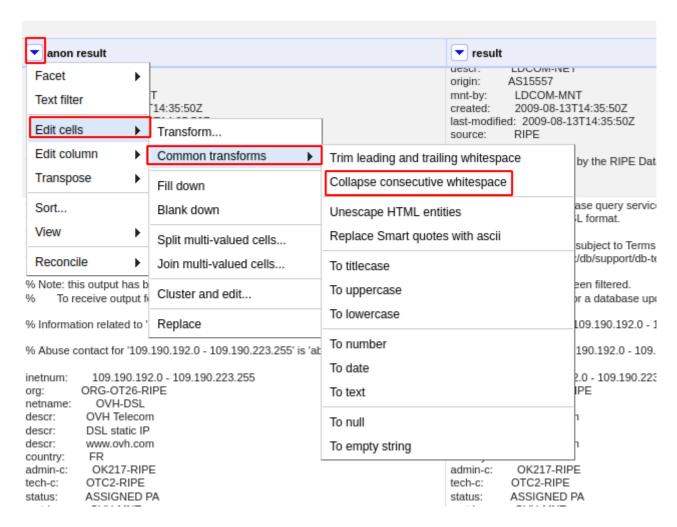


Important_ You can add a layer of anonymization, by using the *torify* command, which will wrap the command into TOR. Instead of "curl"+value, simply use "torify curl"+value.

Parse the data

A good insight is the *netname*: value that can lead you to the company that owns the IP. We will use this expression: value.partition("netname:") [2].partition("descr") [0]

But first, let's remove the useless whitespaces in the column.



Now create a new column called "netname", based on the column, using the above expression:

```
value.partition("netname:")[2].partition("descr")[0]
```

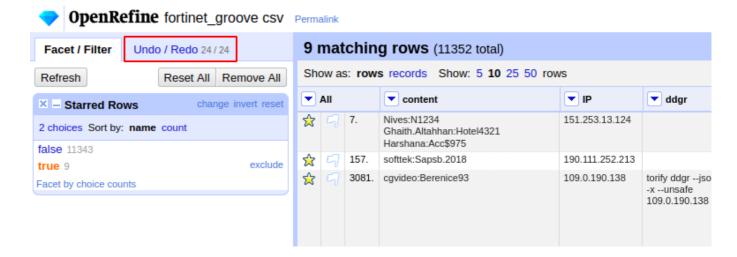
Check the reputation of an IP on DuckDuckGo

We can check the reputation of these IP using DuckDuckGo, and ddgr. The results are often less precise but ddgr can be torified!

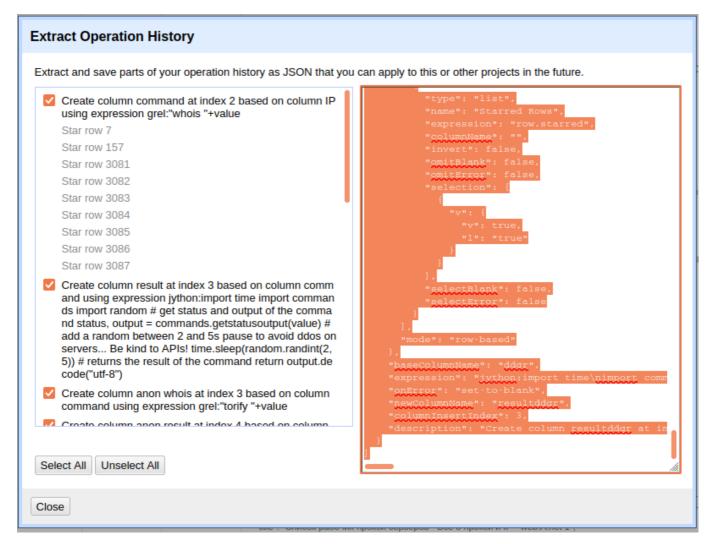
We can create a new column based on the IP column using a request like this: "torify ddgr -n 20 -n 2

- -x means show complete url in result
- --unsafe means disable safe search
- --json means as json format

Export your actions as a script







- save this recipe as a text.
- You will use this recipe with the button APPLY.