



Image Intelligence 2

[Publish Date]

European Cyber Security Challenge 2018
London, United Kingdom

1. Initial Write-Up

Description:

During our research of several subjects we have discovered images which may be useful in tracing people we are particularly interested in. This pack contains four images which we suspect that your security consultancy may find little difficulty in answering our questions about.

2. Challenge specifications

- Category: OSINT
- Difficulty : Medium - Hard

3. Questions and answers

Questions:

Image2a: What is the name of the road where this picture was taken?

Image2b: This picture was taken somewhere in England. What is the name of the village where it was taken?

Image2c: Someone we are interested in flew into Naples Airport in Italy, she hired a car and later had a trip on a small boat from where this picture was taken. What is the name of the village in the picture?

Image2d) Following on from 2c), we suspect she later had a meal in a hotel in the surrounding area. We think the picture was taken at 2018-09-06 17:29. What is the name of the hotel?

Answers:

2a) Nieuwezijds Voorburgwal

2b) Wickham Market

2c) Atrani

2d) Hotel Onda Verde

4. Artifacts provided

List of artifacts provided with checksums.

File name	Cheksums
Image2a.jpg	842a016d017f721eee83ccb2a383b176
Image2b.jpg	278641cc3498e7776f40576bce92b089
Image2c.jpg	2d076b246877d628a2bd7ccefa8999bf
Image2d.jpeg	e09bb88a2e3089e8d2d54a91b76da856

5. Walkthrough

2a) The buildings are obviously Amsterdam, and its likely that many people will instantly get this. There's lots of tram lines in Amsterdam and a radial search from the main railway station where the trams converge will find it with a bit of work. There's a crazy method of oversaturating the colour in the tram display board to work out which tram line it is on, and that will speed up the task a lot, but isn't necessary to complete.

2b) There's surprisingly few churches with eight-sided towers in England. There's a list of them in Wikipedia with photos. The default ordering puts this one very near the end, but if someone dumps the names and sorts by that then this is 'All-Saints Church' in Wickham Market, which is very near the beginning. This one is made of lime-and-flint construction and looks particularly distinctive on the pictures because of this. The name on the sign is annoyingly impossible to read.

2c) A semi-famous view. Anyone who has been in this area of Italy may recognise it, but some work on Google Maps or doing image searches for descriptions of villages near Naples pretty quickly finds it.

2d) This is a lot more difficult. From the time and date you can work out that it must be taken facing east. If you were really hot you could use the JPL Ephemeris tool to do this fairly accurately. The cliffs are very distinctive shapes, and putting Google Maps in 3D mode will allow you to fly around looking for east-west aligned cliffs by the sea with the sea on the south side, and give candidates of cliff shapes. This will allow a few localities to be searched for hotels. Doing a Google Image search for each hotel in turn will quite quickly reveal pictures of the distinctive railing in the picture. The view can be confirmed in the TripAdvisor pictures for the hotel. The writing on the bottle is really annoyingly impossible to read.