

Cork | Sec #6

18:30-19:00 Socialising ☺

19:00-19:30 Password Alternative /
SensiPass – Michael Hill

19:30-19:40 Socialising

19:40-20:40 Maltego 101 – Bob McArdle

20:40-??? More Socialising

corksec.robertmcardle.com

[Meetup.com/CorkSec](https://www.meetup.com/CorkSec)



Maltego 101

Bob McArdle

@BobMcArdle

Cork | Sec



MALTEGO3
OPEN SOURCE INTELLIGENCE

Reset

Find the right people in half the time.

[More...](#)☐ 3rd + Everyone

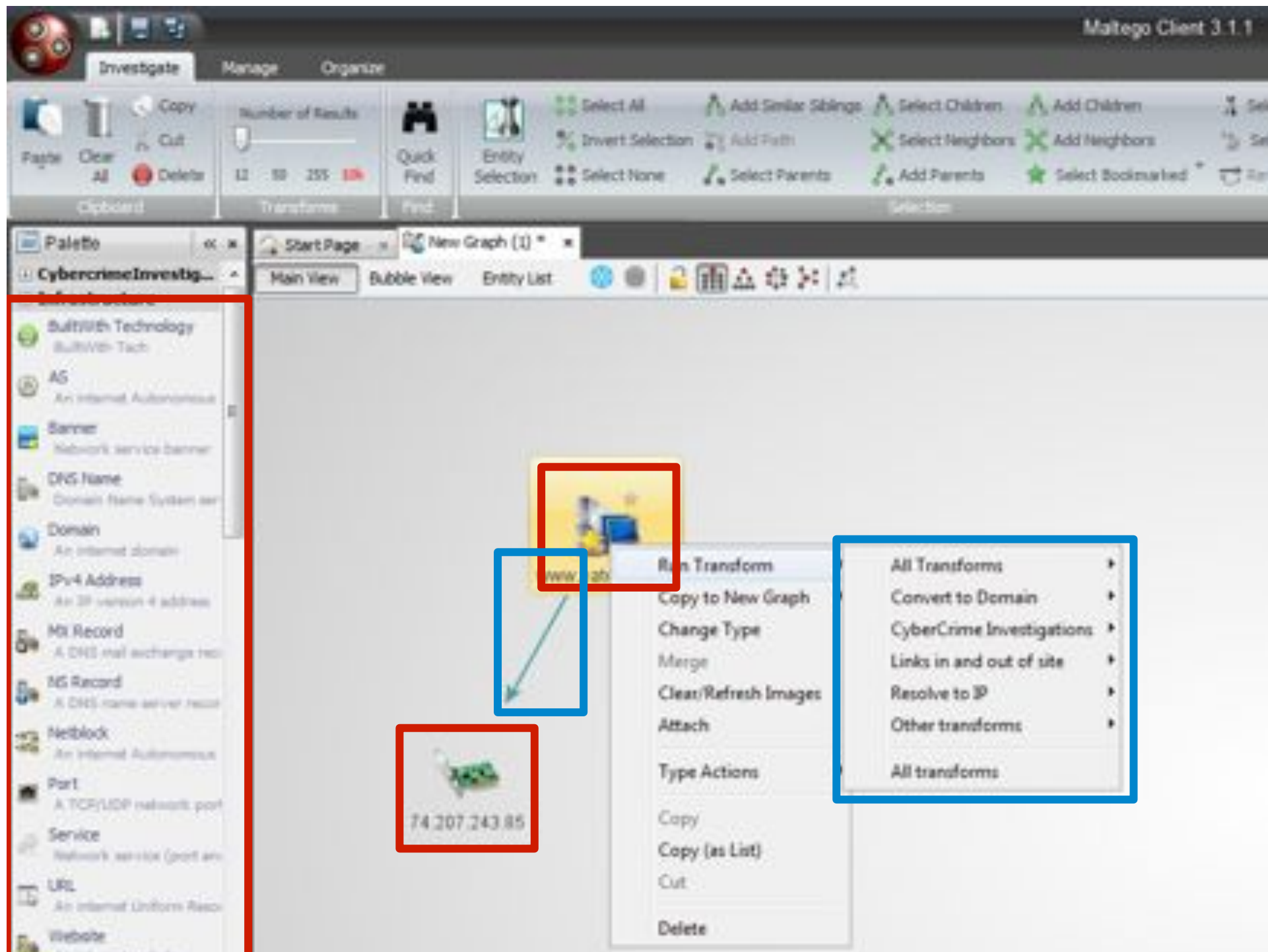
• Add

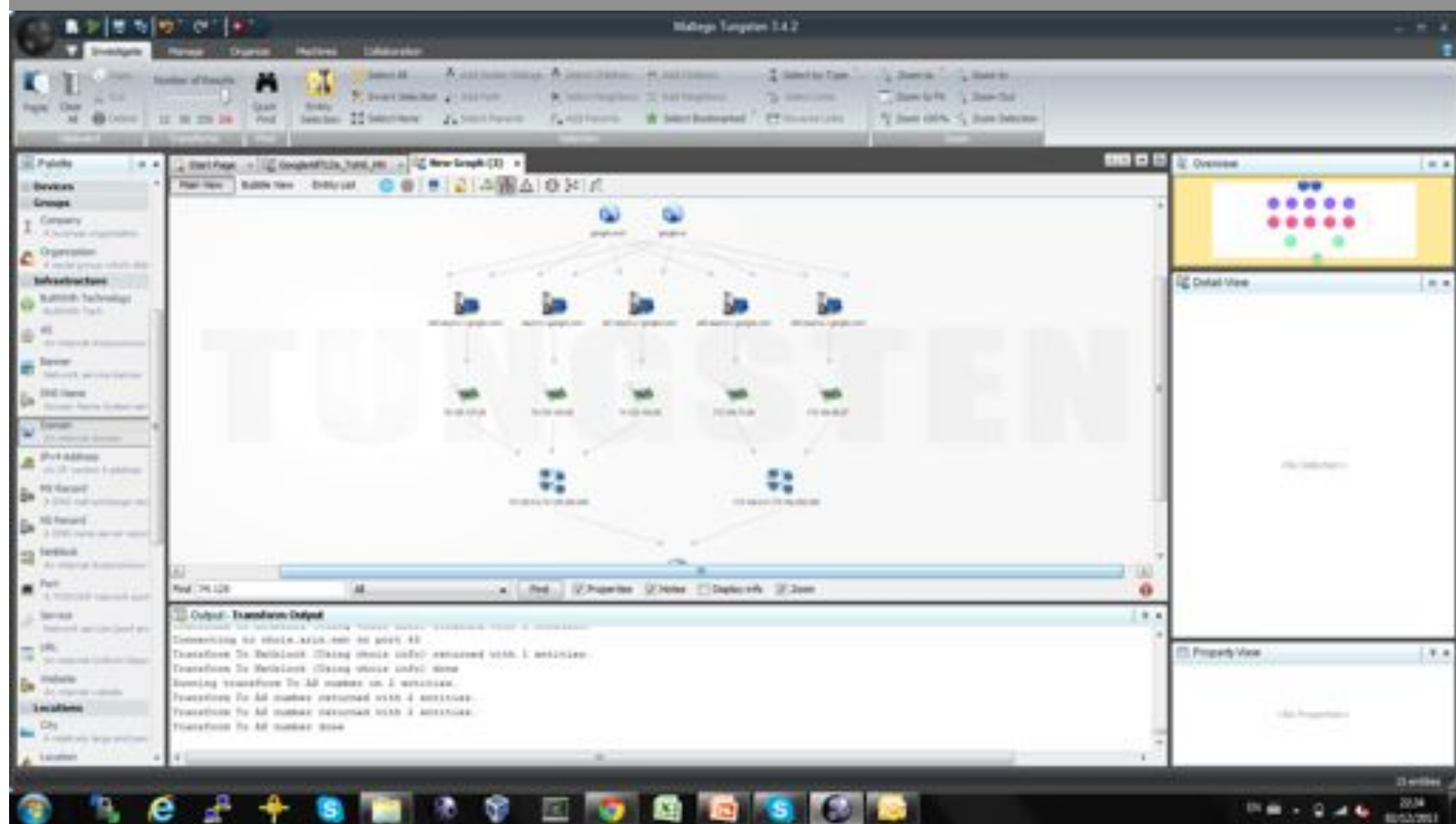
• Add

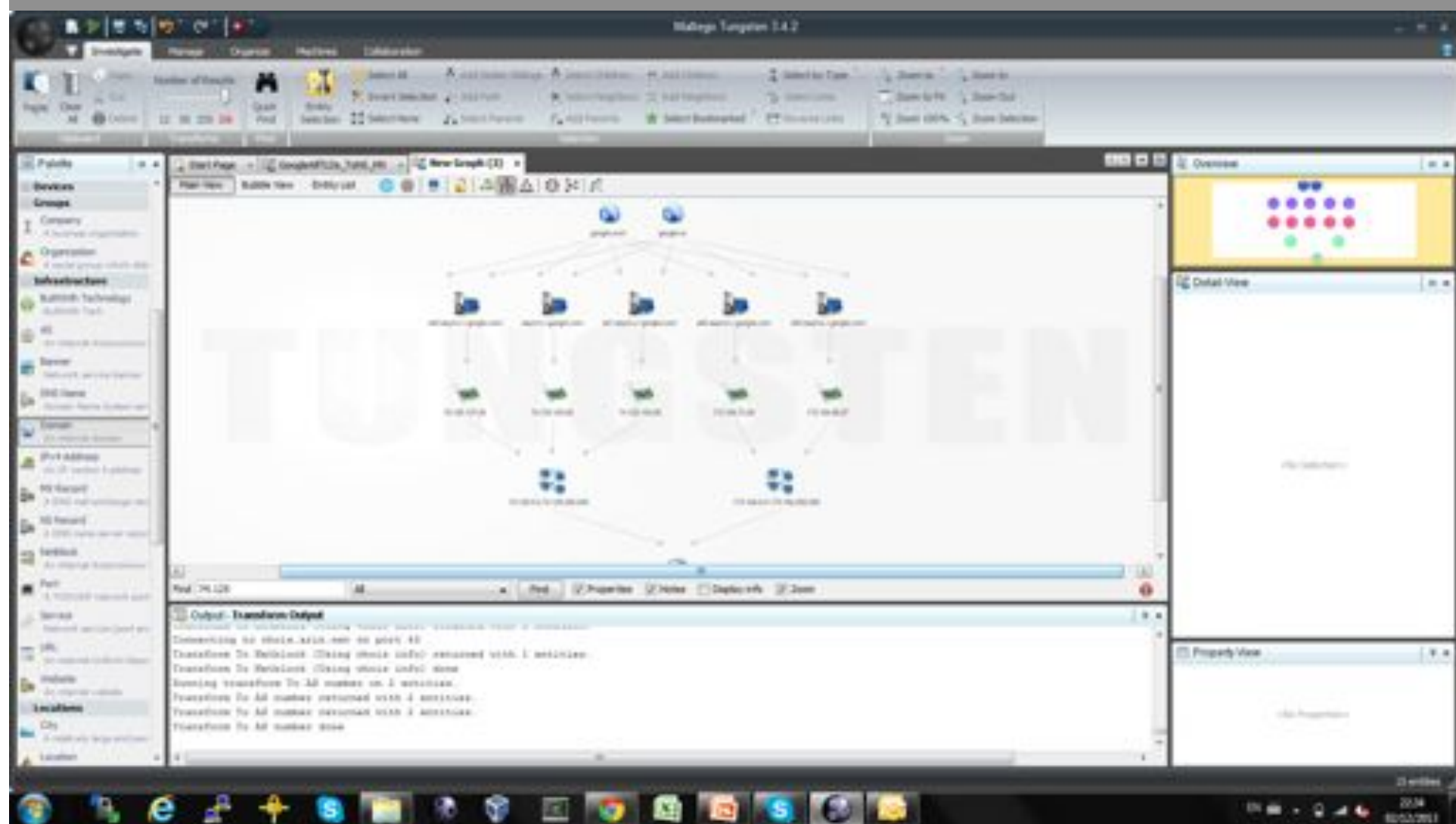
person: Niall O'Reilly
 nic-hdl: NOA3-IEDR
 source: IEDR

www.paterva.com

Maltego Basics







Maltego Tungsten 3.4.2

Investigate | Research | Database | Malware | Collaboration

Number of Results: 12 30 100 250

Graph: Clear All Delete

Entity: Select All Add Entity Settings Select Children Add Children Select by Type Show All Show In Show to Me Show Out Show 100% Show Selection

Start Page | New Graph (4) | New Graph (0)

Plan View | Bubble View | Entity List

```
graph TD;
    RMA[Robert McArdle] --> RM1[robert.mcardle@gmail.com];
    RMA --> RM2[mc.mcardle@gmail.com];
    RMA --> RM3[rob.mcardle@gmail.com];
    RM1 --> RM4[robert.mcardle@gmail.com];
    RM2 --> RM4;
    RM3 --> RM4;
```

Output - Transform Output

Transforming the selected entity Robert McArdle into 4 entities.
Transforming the selected entity Robert McArdle into 3 entities.
Transforming the selected entity Robert McArdle into 3 entities.
Transforming the selected entity Robert McArdle into 3 entities.
Transforming the selected entity Robert McArdle into 3 entities.
Transforming the selected entity Robert McArdle into 3 entities.
Transforming the selected entity Robert McArdle into 3 entities.

Overview

Detail View

Robert McArdle

Properties

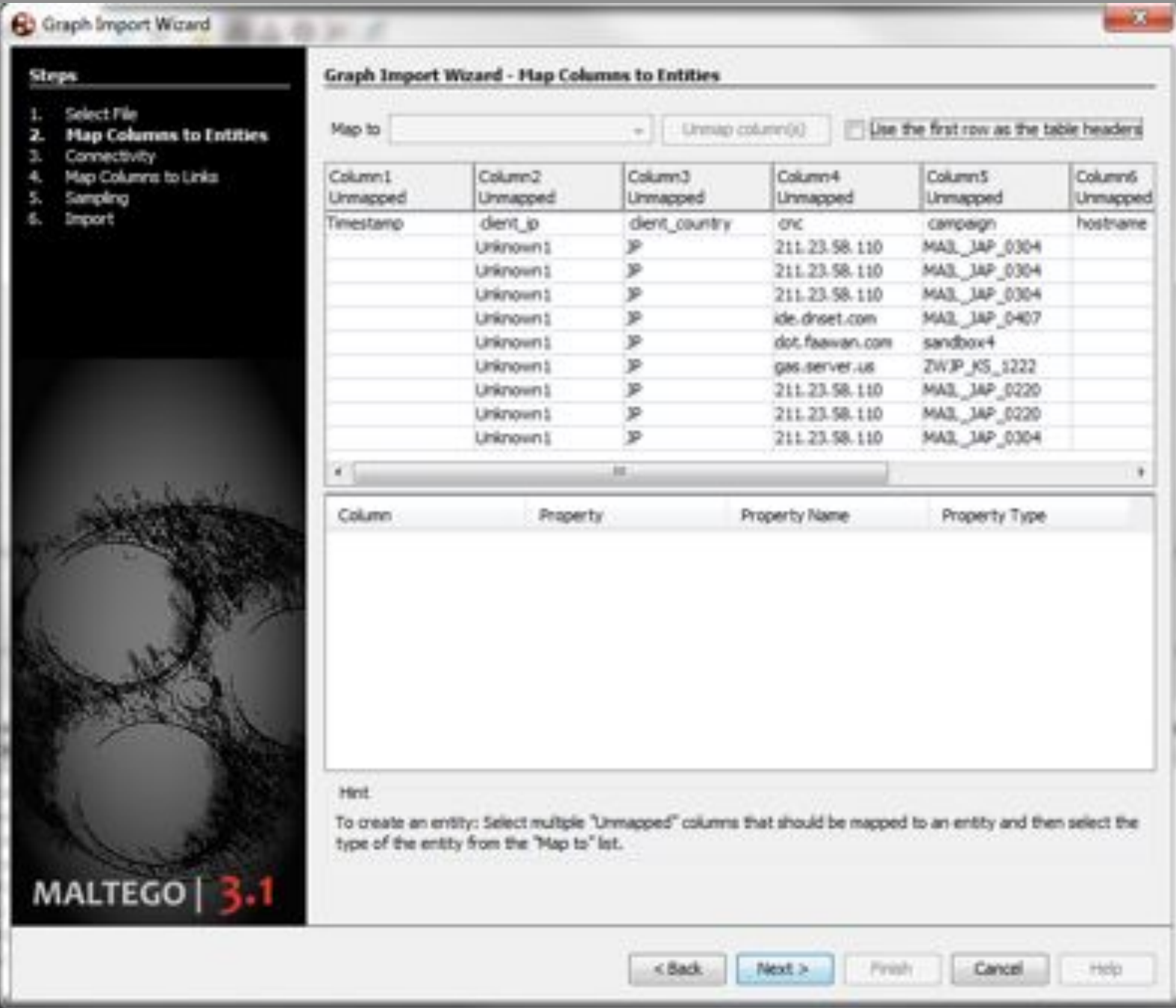
Full Name: Robert McArdle

First Name: Robert

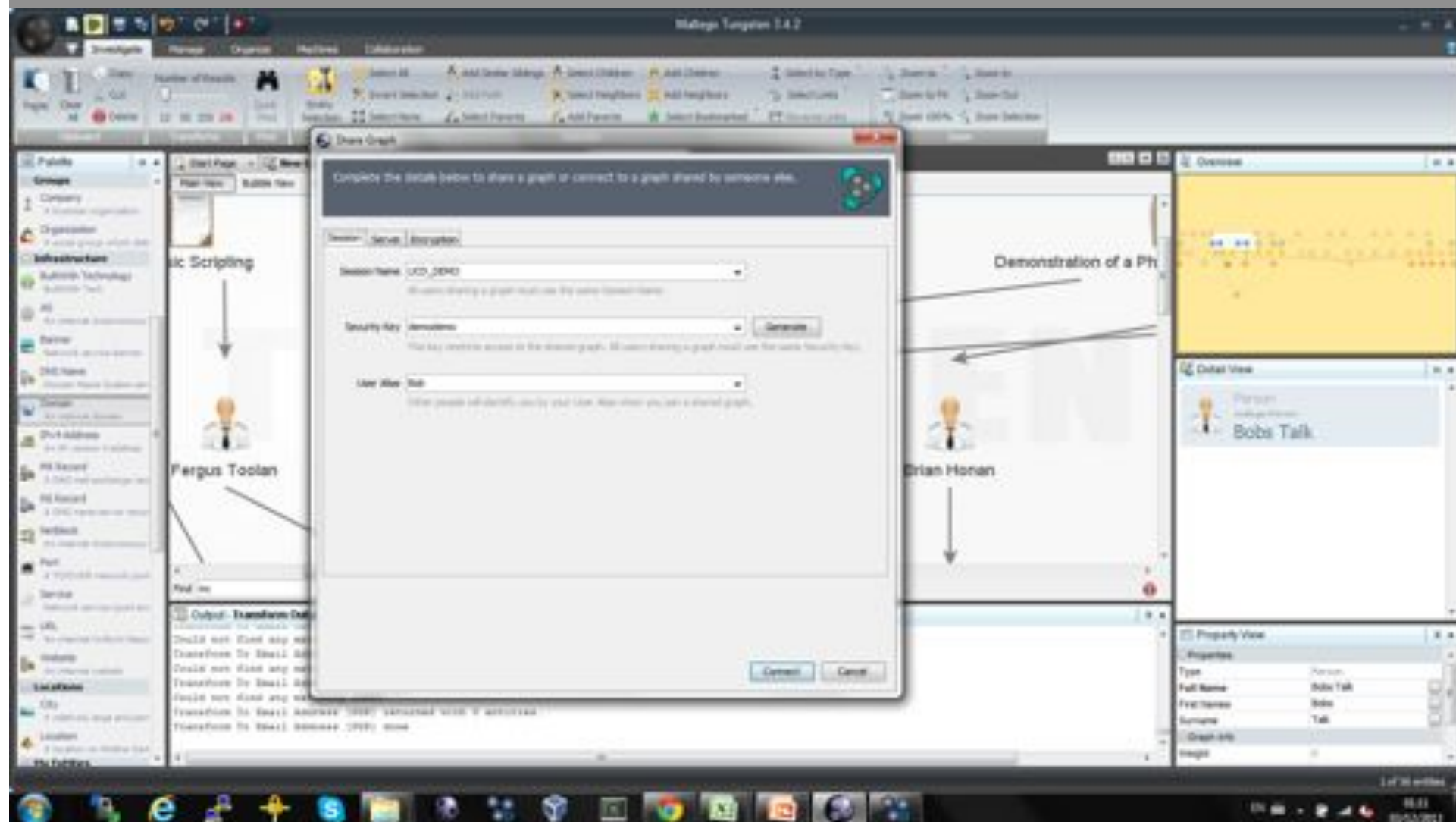
Surname: McArdle

1 of 25 entities

Maltego Manual Mode / Collaboration







Extending Maltego - Seeds





PROJECT SPONSORS

The Canari Framework

Welcome to the new home of the Canari framework; the *most advanced* and *easy-to-use local and remote* transform framework for **Maltego**. We're still settling in but over time this site will be the goto place for all things Canari.



FREE

Free and Open Source
Software!



HOT

Easy-To-Use &
Extendable



NEW

Multi-Programming
Language Support



NEW

Easy Local Transform
Distribution



PACKETNINJAS LLC

OFFENSIVE & DEFENSIVE SECURITY DISCIPLINES

[HOME](#) [COMPANY](#) [SERVICES](#) [SOFTWARE](#) [RESOURCES](#)

SocialNet



PacketNinjas **SocialNet** searches common online social media outlets to provide automated searching for specific actors tied to online identities.

Pricing

- Local Law Enforcement - **\$1,000/year**
- Federal Law Enforcement - **\$1,000/year*** (federal will be changed to 2000/license in 2012)
- Trusted Investigators/Professionals - **\$4,000/year***

* Pricing can be billed on a per quarter basis if needed *

Please contact socialnet@packetninjas.net

DESCRIPTION

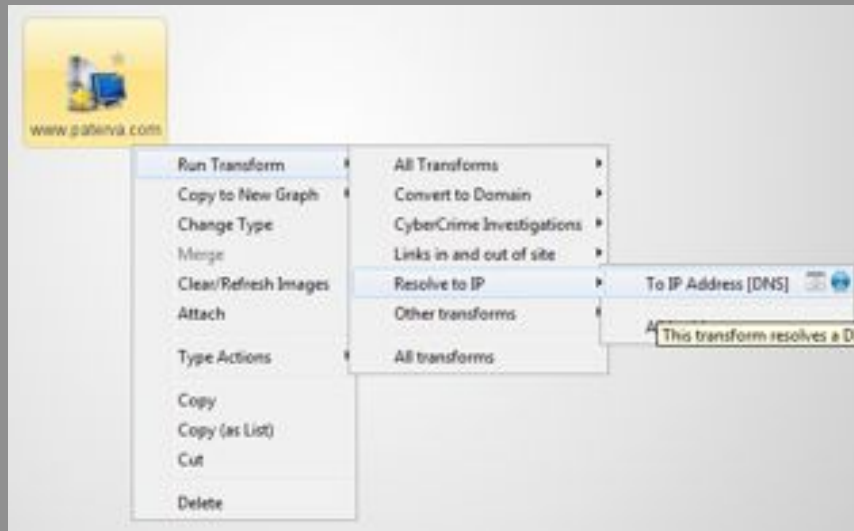
SocialNet is a SaaS based framework which currently integrates with Maltego to provide a robust set of commercially supported transforms for your investigators.

Extending Maltego – Do it Yourself

Local



TDS



<https://cetas.paterva.com>

www.yourServer.com


```
1 <MaltegoMessage>
2   <MaltegoTransformRequestMessage>
3     <Entities>
4       <Entity Type="Maltego.Person">
5         <Value>Robert McArdle</Value>
6         <Weight>100</Weight>
7
8         <AdditionalFields>
9           <Field Name="person.fullname">Robert McArdle</Field>
10          <Field Name="person.firstnames">Robert</Field>
11          <Field Name="person.lastname">McArdle</Field>
12        </AdditionalFields>
13
14        <TransformFields>
15          <Field Name="PGP Server URL">http://pgp.mit.edu:11371</Field>
16        </TransformFields>
17      </Entity>
18    </Entities>
19
20    <Limits HardLimit=500</Limits>
21
22  </MaltegoTransformRequestMessage>
23 </MaltegoMessage>
```

```

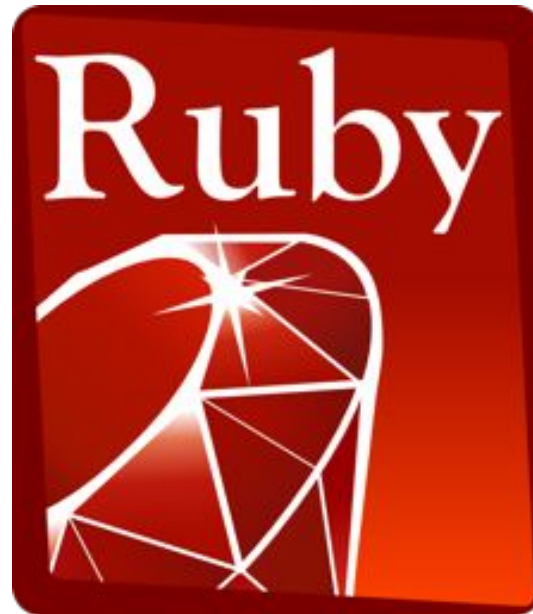
1 <MaltegoMessage>
2   <MaltegoTransformResponseMessage>
3     <Entities>
4       <Entity Type="AffiliationBebo">
5         <Value>Bennie van der Broekworm</Value>
6         <Weight>100</Weight>
7         <DisplayInformation>
8           <Label Name="Details" Type="text/html">
9             <![CDATA[<html>MYHTML HERE</html>]]>
10            </Label>
11          </DisplayInformation>
12
13          <AdditionalFields>
14            <Field Name="uid" DisplayName="Unique identifier" MatchingRule="strict">334234110</Field>
15            <Field Name="network" DisplayName="Network">Schocep</Field>
16          </AdditionalFields>
17
18          <IconURL> http://network.com/people/334234110.png</IconURL>
19        </Entity>
20        <Entity>
21          another one..
22        </Entity>
23      </Entities>
24      <UIMessages>
25        <UIMessage MessageType="Inform">Could only enumerate 20 entries</UIMessage>
26      </UIMessages>
27    </MaltegoTransformResponseMessage>
28  </MaltegoMessage>

```

XML Contents Output



python™



Steps

1. Configure details
2. Command line

New Transform - Command line

Select the external program implementing the transform logic using the fields below:

Command

Command (e.g. `Java(bin/java)`)

`c:\ruby\bin\ruby.exe`

Browse...

Parameters (Optional) (e.g. `scripts/transform.pl`)

`myscript.rb`

Browse...

Working directory

`C:\Users\robert_mcardle`

Browse...

Command line to be executed (in working directory):

`c:\ruby\bin\ruby.exe myscript.rb "Entry Value" "field1=field1 value#field2=field2 value"`

MALTEGO | 3.1

< Back

Next >

Finish

Cancel

Help

<https://cetas.paterva.com/TDS/>

Paterva TDS 0.1 > Paterva

← → ↻ <https://cetas.paterva.com/TDS/home> 🔍 ⭐ 📄 🚫 ☰

Paterva Transform Distribution Server

welcome cetas@paterva.com [login](#)

Paterva Transform Distribution Server 0.1 - Paterva Transform Distribution Server 0.1

Paterva Transform Distribution Server

Welcome to the **Paterva Transform Distribution Server**. The following options are currently available:

- ▣ [Transforms](#) - Manage specific transforms as well as their properties, such as the URL to point to, transform settings and the input/output entity types.
- ▣ [Seeds](#) - Manage the seeds for this machine, specifically their names and which transforms they hold.
- ▣ [Transform Settings](#) - Manage the various transform settings available to the various transforms.

Public Seed

The public seed (all transforms on the TDS) can be found at: <https://cetas.paterva.com/TDS/runner/showseed/Public>

Your Statistics

Just a few **statistics** for your account:

Type	Amount
Number of Transforms	1
Number of Seeds	2
Number of Entities	0
Number of Transform Fields	0

Paterva - Page rendered in 0.0230 seconds

Transform Details

Transform Name

Transform URL

Input Entity

Owner CIT Malware Analysis Course

Please note the disclaimer will automatically include the following text:

Please note this transform is being run on the Paterva Transform Distribution Server and has been written by the user 'citmaliwareanalysis'. This transform will be run on YOUR_URL_HERE and Paterva cannot be held responsible for any damage caused by this transform. you run this AT YOUR OWN RISK.

Disclaimer For more information on this transform feel free to contact robert.mcardle@gmail.com

Description (optional)

A test transform to base other transforms on

Version (optional)

1

Author robert.mcardle@gmail.com

Debug ☒

Public Not in public seed

Transform Settings

Seeds

CITMalwareAnalysis
CITMalwareAnalysisTesting

Update Transform



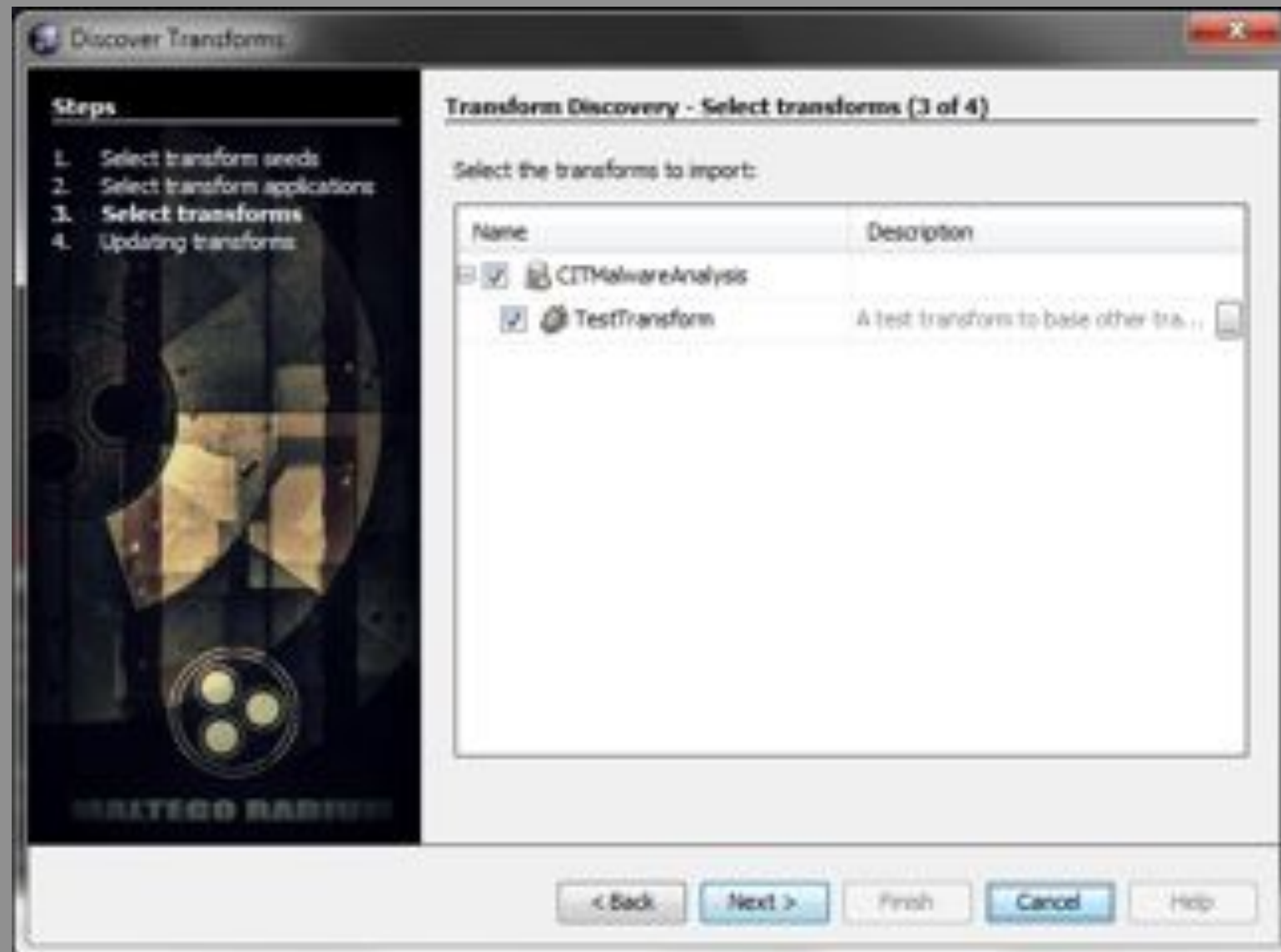
XAMPP

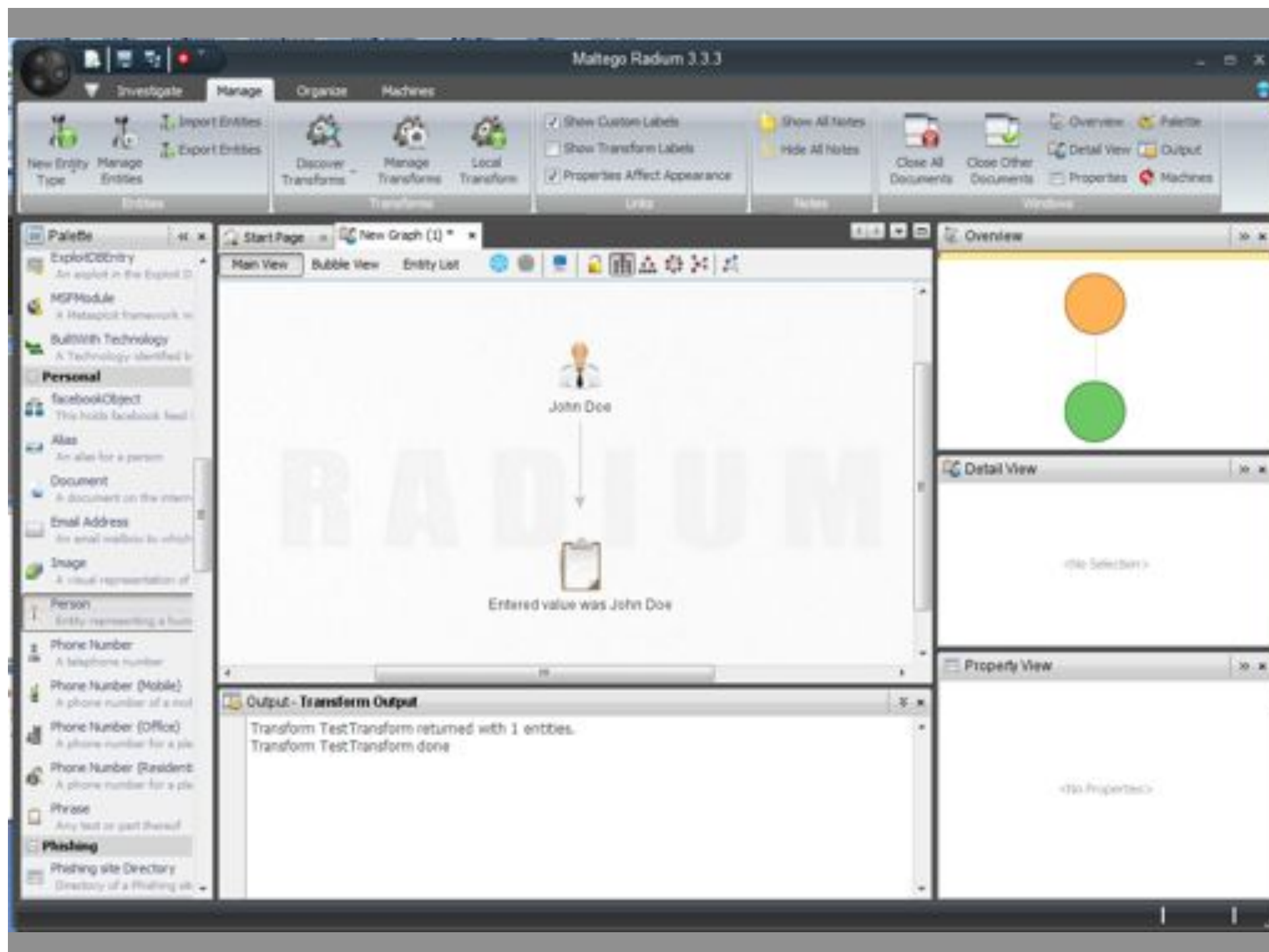


linode.com



```
1  <?php
2
3  //Include needed libraries
4  include_once("../Libraries/Maltego.php");           // Maltego Transforms
5
6  //set return content-type to be XML
7  header ("content-type: text/xml");
8
9  //*****
10 //YOUR CODE GOES HERE
11 //*****
12
13 //BASIC TRANSFORM
14 $maltegoTransformInput = new MaltegoTransformInput();
15 $maltegoTransformResponse = new MaltegoTransformResponse();
16 $maltegoTransformInput->getEntity();
17 $return_value = "Entered value was " . $maltegoTransformInput->value;
18 $ent = $maltegoTransformResponse->addEntity("maltego Phrase",$return_value);
19 $maltegoTransformResponse->returnOutput();
20
21 ?>
```





DEMO

DEMO

Automating Maltego - Machines

Start a Machine

Steps

1. Choose machine
2. Specify target

Run Machine - Choose machine (1 of 2)

Please select the machine to run from the list below:

- ☐ Company Stalker [Domain]
This machine will try to get all email addresses of a domain then see who...
- ☐ DemoPossibleOnCSP [IPv4 Address]
A Demo transform to find out if an IP is a possible CSampnC server or ...
- ☐ Footprint L1 [Domain]
This performs a level 1 (fast, basic) footprint of a domain.
- ☐ Footprint L2 [Domain]
This performs a level 2 (slow) footprint of a domain.

☐ Show on startup

☐ Show on empty graph click

 Please select a machine to run.

< Back

Next >

Finish

Cancel

Help

DEMO

```
machine("paterva.person-to-email",
  displayName:"Person - Email Address",
  author:"Reed of Lemmingh",
  description: "Tries to obtain someone's email address and sees where it's used on the Internet. Input is",

  start {
    status("Searching for relevant email addresses")
    paths {
      run("paterva.v2.PersonToEmailAddress_Coonch",slider:3)
      run("paterva.v2.PersonToEmailAddress_SameKOP",slider:5)
      run("paterva.v2.PersonToEmailAddress_SE",slider:15)
    }
    userFilter(title:"Select email addresses",description:"Select relevant addresses you wish to continue")
    status("Finding occurrences of selected email addresses")
    paths {
      log("Looking up email address on search engine",showEntities:false)
      run("paterva.v2.EmailAddressToURLName_SE",slider:25)
    }
  }
}
```



MALTEGO SCRIPTING LANGUAGE (1.1)



```
machine("peterva.twitter.monitor",
  displayName: "Twitter Monitor",
  author: "Roelof Temmingh",
  description: "This machine monitors Twitter for hashtags, and named entities mentioned around

  //run ever minute and a half
  onTimer(90) [
    status("Searching for term on Twitter")
    log("Finding Tweets...", showEntities: false)
    run("peterva.v2.PhraseToTwt_Search", slider: 30)
    status("Extracting info from Tweets")
    log("Extracting data", showEntities: false)
    paths [
      run("peterva.v2.pullHashtags")
      run("peterva.v2.toEntitiesMENTwitter")
      run("peterva.v2.pullURLs")
    ]
  ]

  status("Removing old Tweets")
  //delete Tweets as they get older than 5 minutes
  age(moreThan: 300, scope: "global")
  type("maltego.Twit")
  delete()

  //after a while, when nothing links to it, remove the sombier
  age(moreThan: 500, scope: "global")
  incoming(0)
  outgoing(0)
  delete()
}
```

5 Golden Rules

- The real power is in the visualisation, not the OSINT transforms
- Don't be afraid to add manual information
- Delete entities you do not need – be ruthless.
- Embrace creating your own transforms
- Plan your approach before running a single transform.

Cork | Sec #7
(SNEAK PREVIEW!!!)

Jan 7th

Gerard Morris – “Anti-Piracy measures on
Android”

Bob – “Augmented Reality”

Fabien Rabusseau – “VR Gaming” / Oculus
Rift ☺

corksec.robertmcardle.com

[Meetup.com/CorkSec](https://www.meetup.com/CorkSec)