

Introduction

You can explore MITRE Shield data frames as you usually analyze data, but the power reside in relations. Let's try to visualize the hole graph with a ShinyApp... let's call it: MITREExplorer.

MITREExplorer

This is as Proof Of Concept project to provide an exploration tool for MITRE data sets.

Try to build your own MITREExplorer app using the following code for ui and server.

ui.R

```
# library(shiny)
# library(visNetwork)
#
# # Define UI for application that draws a histogram
# shinyUI(fluidPage(
#
#   # Application title
#   titlePanel("MITRE Shield Explorer"),
#   # Show a plot of the generated distribution
#   mainPanel(
#     visNetworkOutput("shieldnetwork")
#   )
# ))
```

server.R

```
# library(shiny)
# library(mitre)
# library(visNetwork)
#
# mitredata <- mitre::getLatestDataSet()
# shieldnet <- mitredata$standards$shield$shieldnet
#
# shinyServer(function(input, output) {
#
#   output$shieldnetwork <- renderVisNetwork({
#     ggnet <- visNetwork(nodes = shieldnet$nodes,
#                           edges = shieldnet$edges)
#     ggnet %>%
```

```
# visOptions(highlightNearest = TRUE, nodesIdSelection = TRUE) %>%  
# visLayout(randomSeed = 123)  
# })  
# })
```




Run MITRE Explorer

Open RStudio, check your working directory and run the app.

```
# shiny::runApp()
```

Main explorer

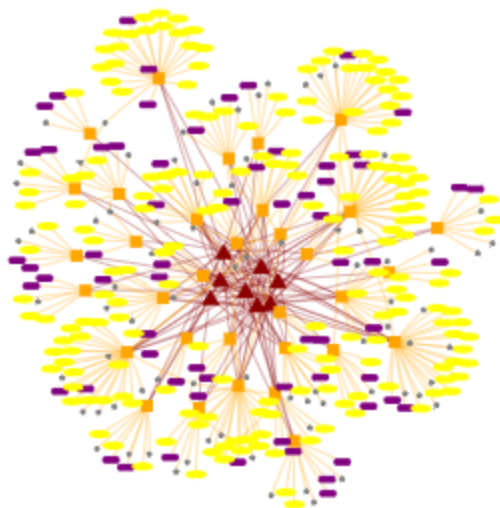
The package visNetwork does the magic:

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MITRE Shield Explorer

Select by id ▾

-

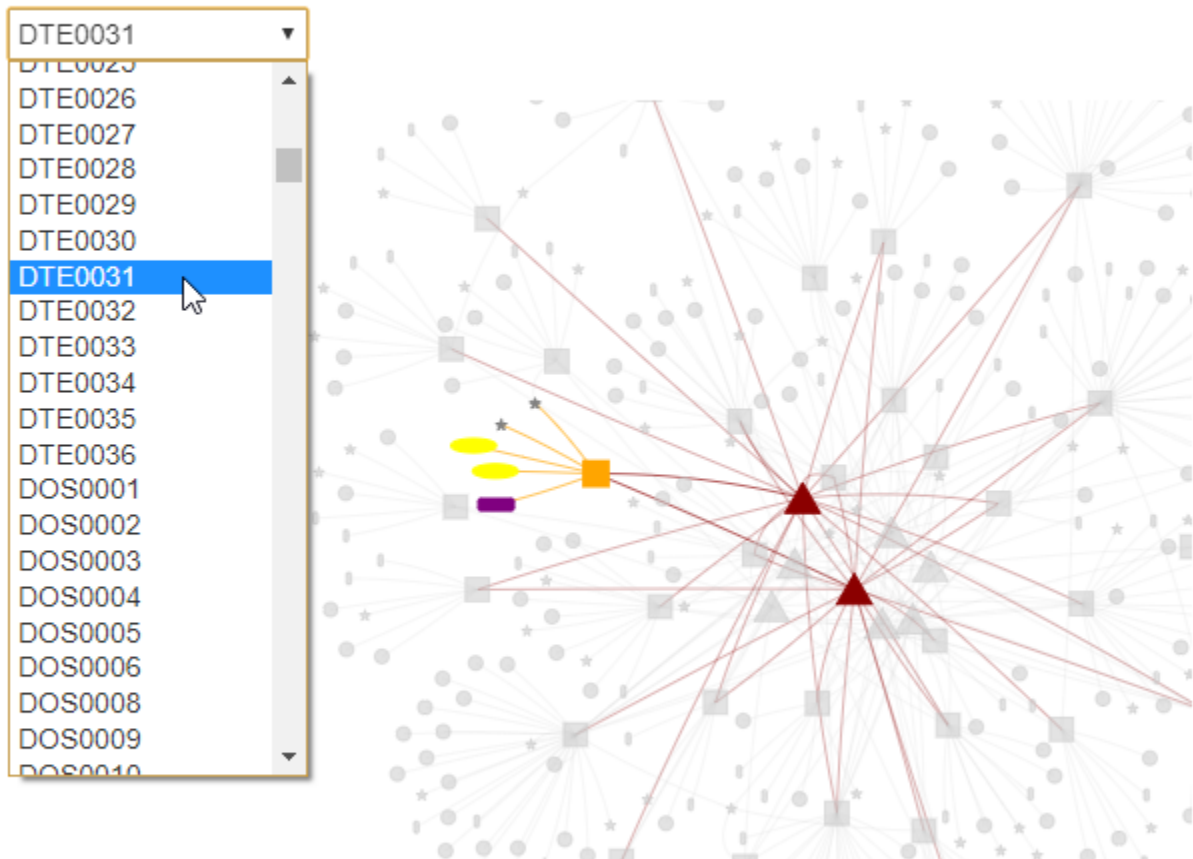


Select objects

It's possible to interact with the network (zoom in, zoom out, drag object, etc.). Selecting an object will pop up its description and highlight its relations. Try it selecting one object from list or point and click.

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MITRE Shield Explorer



Details for DTE0031

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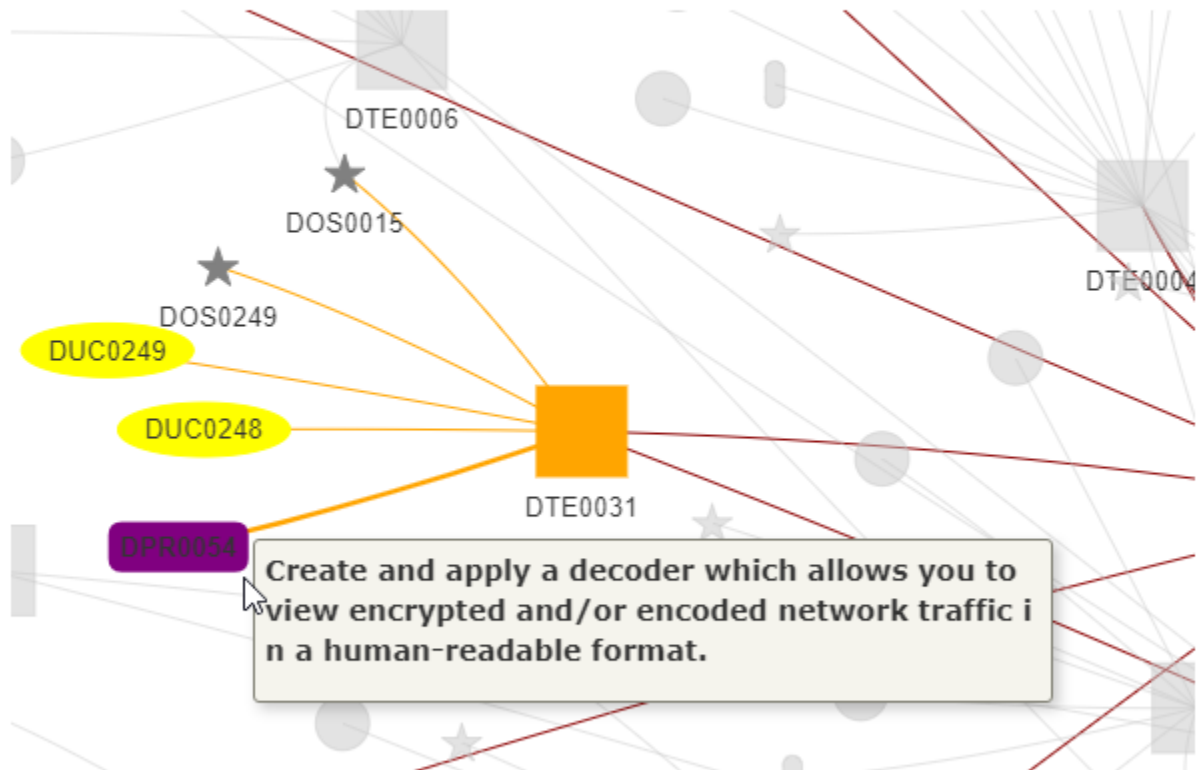
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