CMGT431 Week 1 Assignment Create DFD in Microsoft TMT

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Overview

- > Keep it simple
- Not a tool used by security professionals
- Use only icons provided by the tool
- > Set attributes

Data Flow Diagrams

- Show flow of information between components in a system
- Useful for developers to set authentication and ensure trust between components
- Useful for security professionals to understand the information flowing and where it flows
- > DFDs do not replace attack trees
- Attack trees in Week 2
- For how we apply these concepts, see Practical Application of Threat Modeling in Student Materials for this activity

Threat Model:

Create A Model

Model your system by drawing diagram (s). Make sure you capture important details.

MICROSOFT THREAT MODELING TO

Template For New Models

SDL TM Knowledge Base (Core)(4.1.0.9)

Browse...

Open A Model

Open an existing model and analyze threats against your system; do not worry, the tool will help you identify

2016

Recently Opened Models Sample Threat Model.tm7

Getting Started Guide

A step-by-step guide to help you get up and running now.

Threat Modeling Workflow

- 1. Select your template.
- 2. Create your data flow diagram model.
- 3. Analyze the model for potential threats.
- 4. Determine mitigations.

Template:

Create New Template

Define stencils, threat types and custom threat properties for your threat model from scratch.

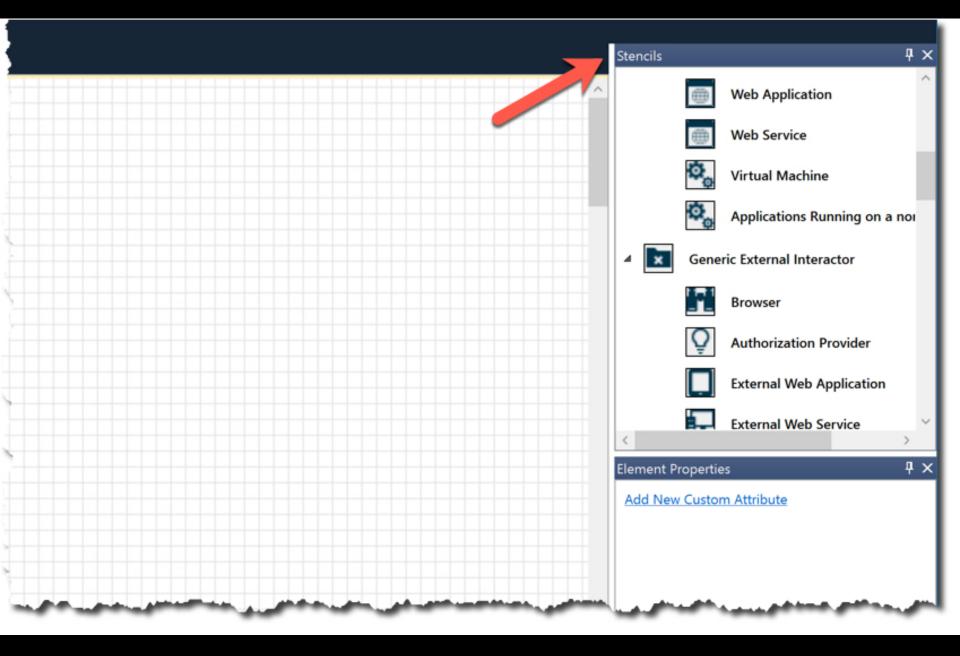
Open Template

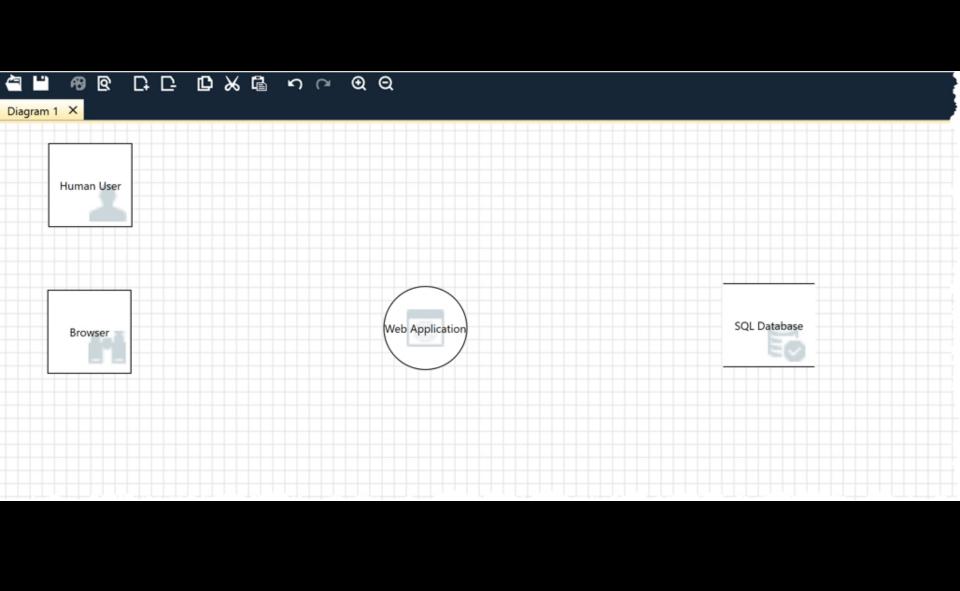
Open an existing Template and make modifications to better suit your specific threat analysis.

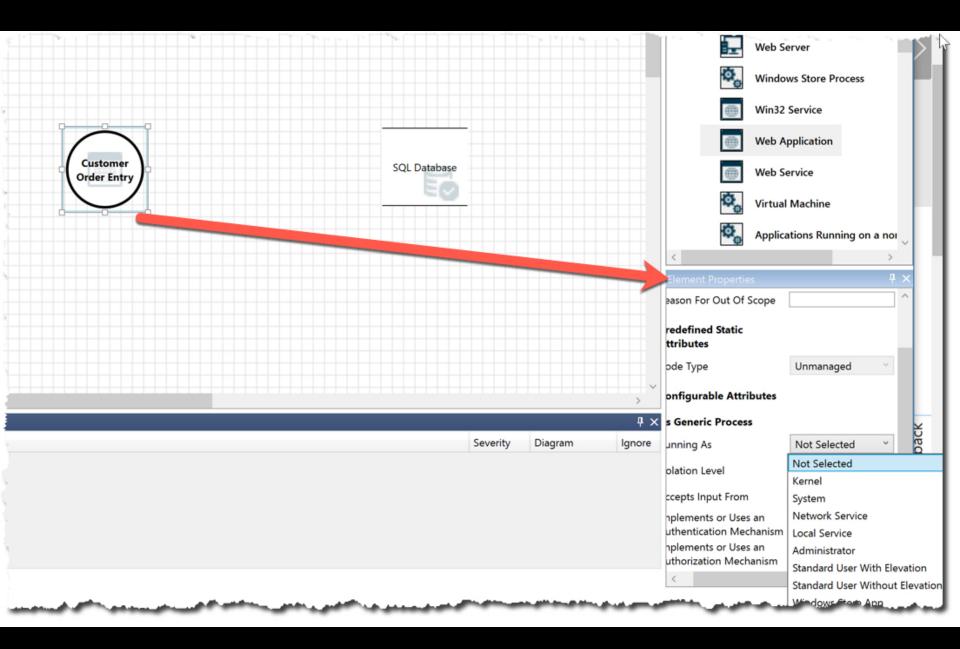
Template Workflow

Use templates to define threats that applications should look for.

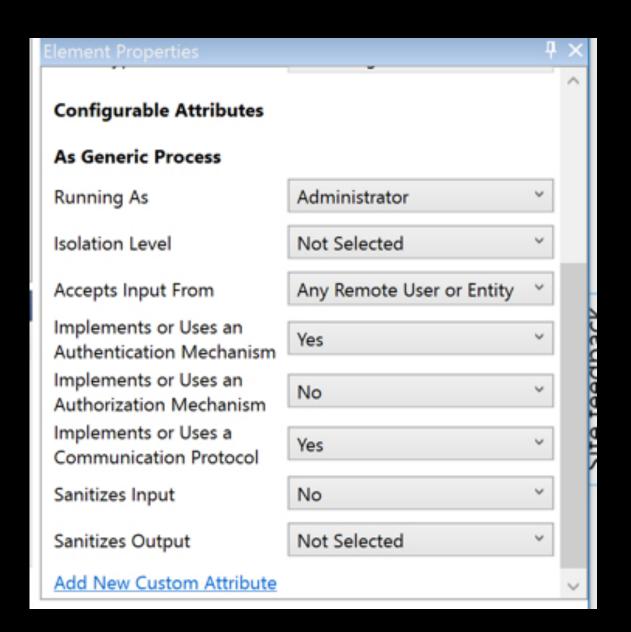
- 1. Define stencils
- 2. Define categories
- 3. Define threat properties
- 4. Define threat
- 5. Share your template



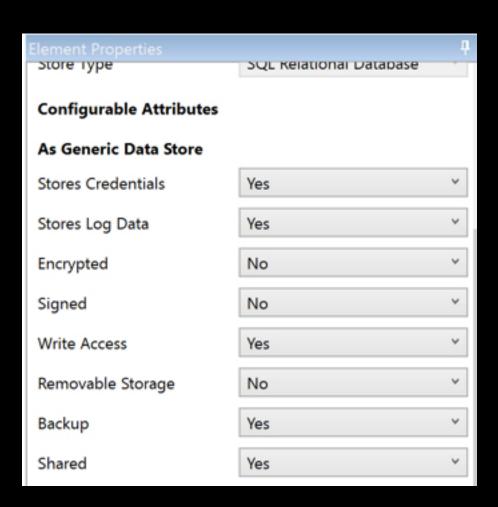




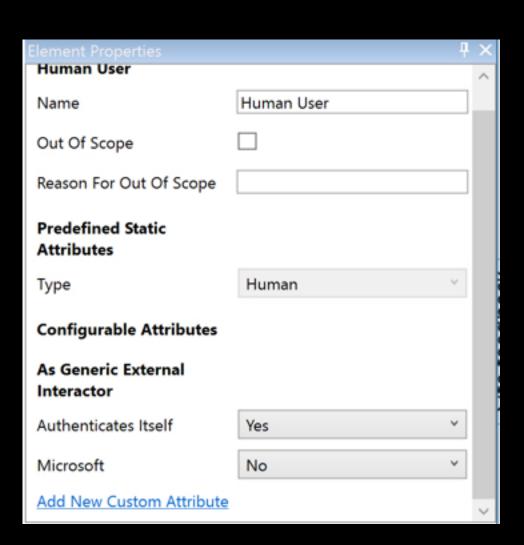
Web Application Attributes

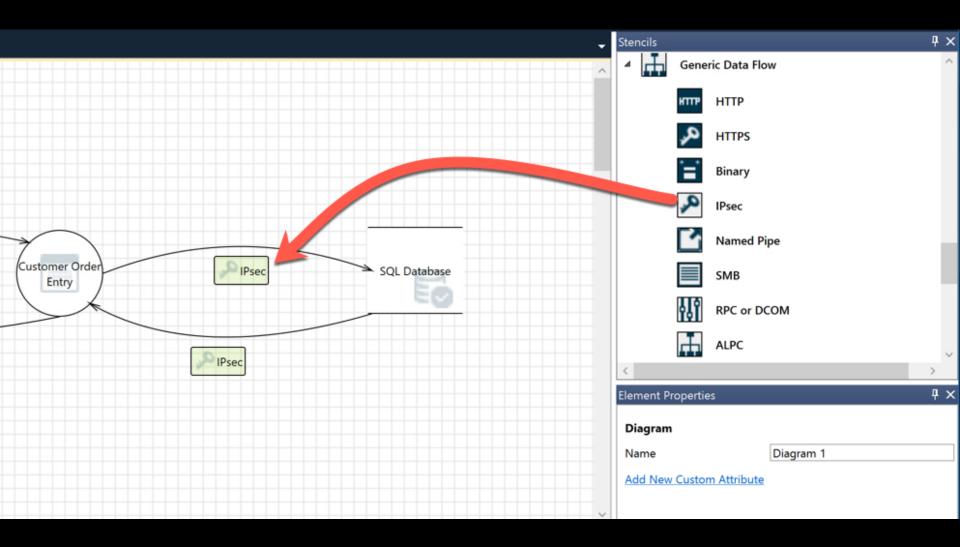


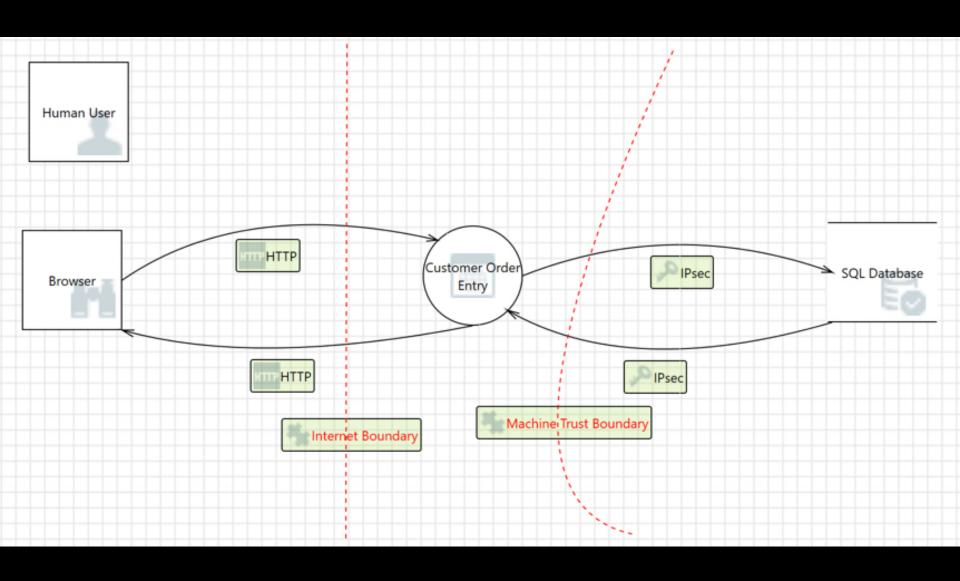
SQL Server Attributes

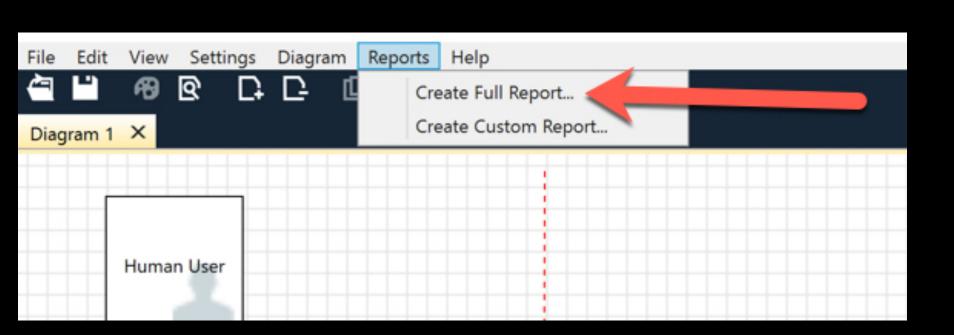


Human Attributes









Closing Comments