

# Threat Modeling

# What are you protecting?

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## Assets

- Personal data
- CC numbers

# Treat User Data as Toxic Waste

[https://www.schneier.com/blog/archives/2008/01/data\\_as\\_polluti.html](https://www.schneier.com/blog/archives/2008/01/data_as_polluti.html)

# What are you protecting?

## Systems:

- Machines
- Services
- Protocols

# Against what?

# Against what?

- Brownout
- Datacenter fire
- Hard drive loss
- Forgotten laptop
- Malicious actor

# More examples?



# Building a model

# What are the requirements

( What should it do )

# Necessary access

Users, roles,

# Data and its flow

# Use cases

Combines data + user

# Architecture

## The Components

# Architecture

Different services (And elevation levels)

# Architecture

External dependencies



# S.T.R.I.D.E.

Date, time & occasion

[www.modio.se](http://www.modio.se)



# S.T.R.I.D.E.

Spooftng (Identity, data)

# S.T.R.I.D.E.

Tampering  
( Data, Code )

S.T.R.I.D.E.

Repudiation

# S.T.R.I.D.E.

## Information Disclosure

# S.T.R.I.D.E.

## Denial of Service

# S.T.R.I.D.E.

## Elevation of Privilege

And then?



# Look at the edges and borders

# Identify risks

# Countermeasures

# Resources: Wikipedia

[https://en.wikipedia.org/wiki/Threat\\_model](https://en.wikipedia.org/wiki/Threat_model)

# Resources: OWASP

[https://www.owasp.org/index.php/Application\\_Threat\\_Modeling](https://www.owasp.org/index.php/Application_Threat_Modeling)

# Resources: SDL

<http://www.microsoft.com/en-us/download/details.aspx?id=29884>