pytm

https://github.com/izar/pytm

```
#1/usr/bin/env python3

from pytm.pytm import TM, Server, Datastore, Dataflow, Boundary, Actor, Lambda, Data, Classi

tm = TM("my test tm")
tm.description = "another test tm"
tm.isOrdered = True

User_Web = Boundary("User/Web")
Web_DB = Boundary("Web/DB")

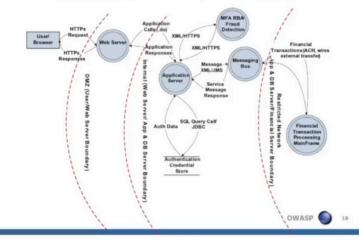
user = Actor("User")
user.inBoundary = User_Web

web = Server("Web Server")
web.OS = "CloudOS"
web.isHardened = True
web.sourceCode = "server/web.cc"

db = Datastore("SQL Database (*)")
db.OS = "CentOS"
db.isHardened = False
db.inBoundary = Web_DB
db.isSql = True
db.inScope = False
db.inScope = False
db.sourceCode = "model/schema.sql"
```

Threat Modeling

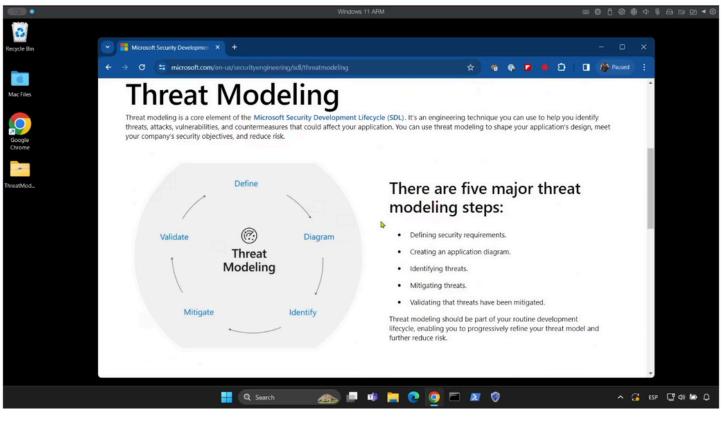
Data flow diagram-Online Banking Application

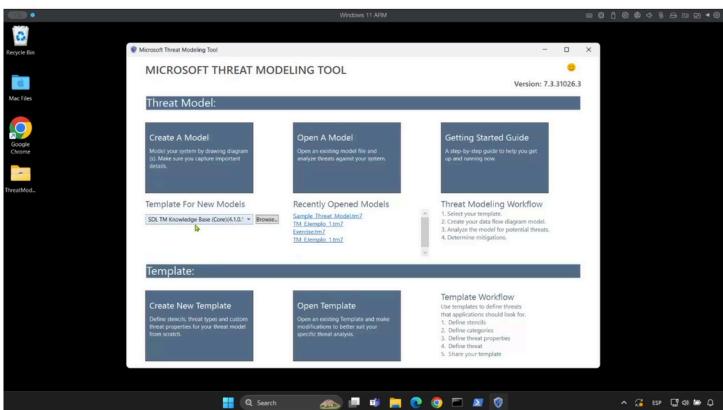


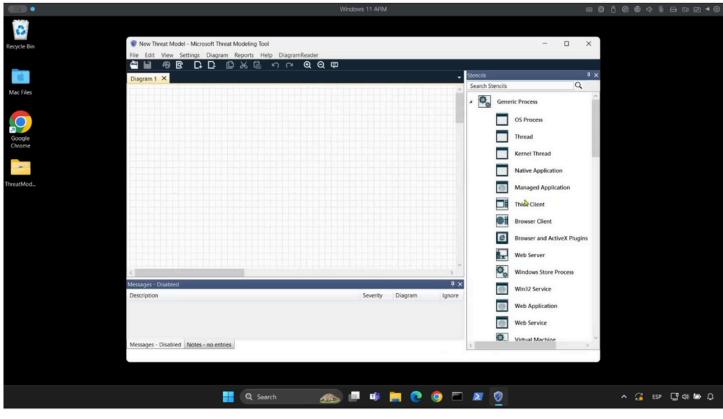
Picture source: Wei Zhang & Marco Morana OWASP Cincinnati, U.S.A. https://en.wikipedia.org/wiki/Threat-model#/media/File:Data-Flow Diagram - Online Banking Application.jpg

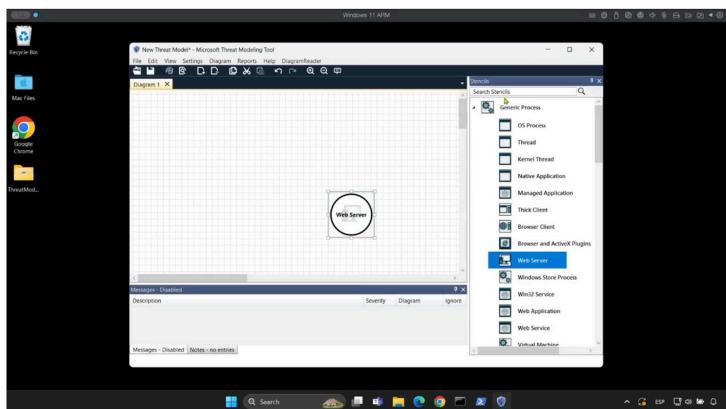
Microsoft Threat Modeling Tool

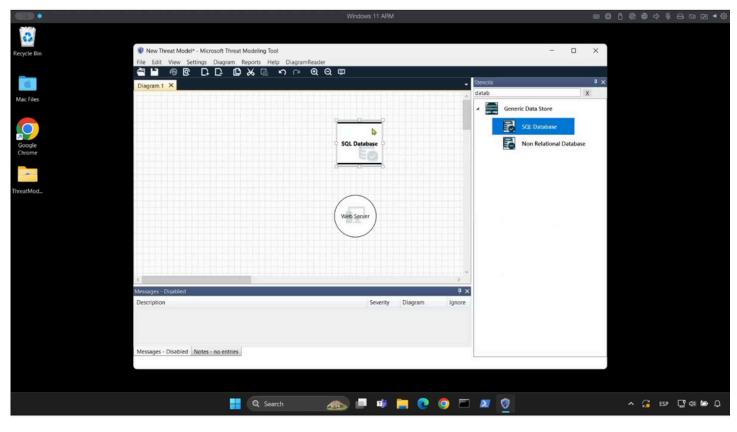


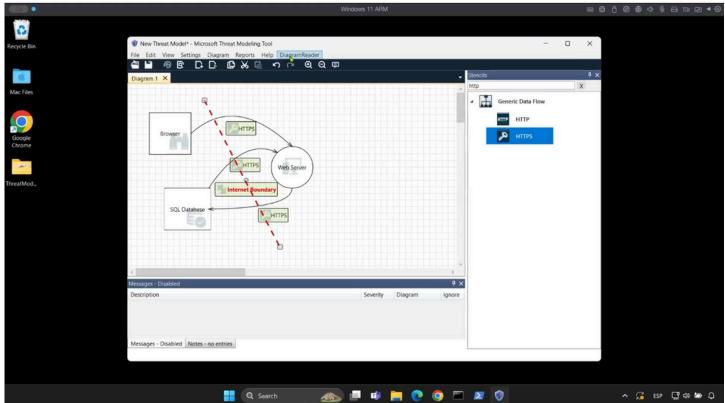


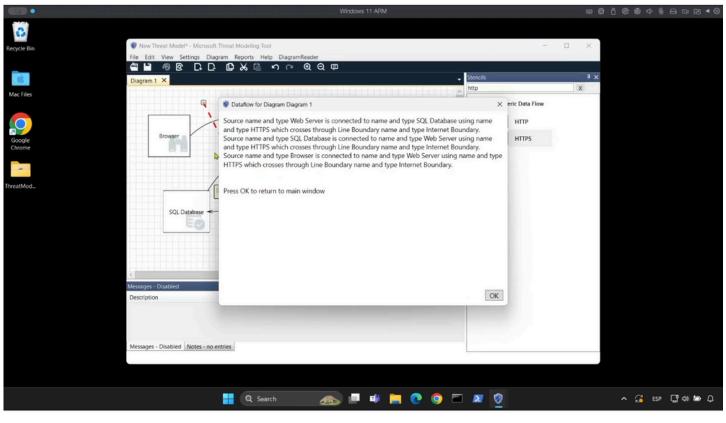


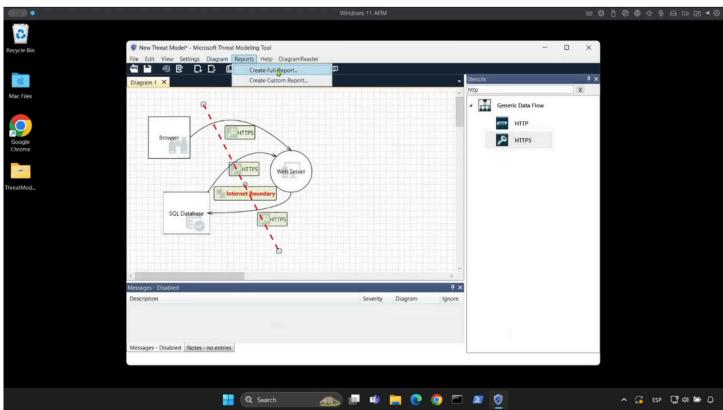












- STRIDE
 - Spoofing
 - Tampering
 - Repudiation
 - Information disclosure
 - Denial of service
 - Elevation of privileges

Threat Modeling

- Ignore the risk Not advisable
- · Avoid the risk Architectural redesign
- Accept the risk Documentation without action
- · Transfer the risk Transfer to another team
- · Confront the risk Implementation of the fix

Reports

https://owasp.org/www-project-web-security-testing-guide/v42/5-Reporting/README



Picture source: own creation