Threat Modelling for applications

Making applications secure by design

Security by design has long been the ambition of forward-looking development teams and promoted by experts in the field such as OWASP. It is an approach which bakes-in security principles early in the design process and informs decisions throughout the dev lifecycle.

How can we ensure that our applications don't contain unnecessary security risk?"

"Shift left"

Threat Modelling enables developers to identify the ways bad actors might attack an application. It can be applied early in the design phase and throughout subsequent stages of development, becoming more refined and granular as additional details are added to the system and new attack vectors are created and exposed.

How can we reduce the cost of addressing security flaws?"

"Early identification"

The cost of addressing flaws and vulnerabilities increases throughout the development lifecycle, so identifying weaknesses and security gaps early in development can save a considerable amount of budget. Having security experts examine your application(s) at the early design phase reduces the risk of delays caused by fixes happening at the end of projects when the go-live date is fast approaching.

Threat Modelling is the way to achieve this.

What does Threat Modelling involve?"

"We identify, qualify and review with you"

Our ethical hackers work with you to understand the application's design in a way an attacker would, confirm the attack surface, identify threats, establish data flows, and qualify risks. The results are presented to you in a comprehensive report which empowers your developers to make changes to ensure that the application is secure by design from an early stage.

Does Claranet offer Threat Modelling?"

"Yes"

Claranet's Threat Modelling service is delivered by offensive security specialists. Experience and security expertise is hard to acquire, so we offer fast access to highly skilled testers. No two Threat Modelling engagements are the same and we offer a service designed around your requirements. We also commit to provide clarity throughout the process and offer you all the information you need in an area that can be complex and business-critical.

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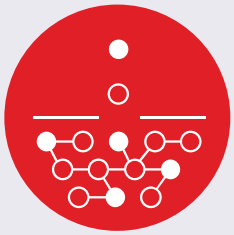
Key Features

- Comprehensive analysis of attack surface
- Identifies flaws early
- Highlights gaps in security
- Suggests mitigations & solutions
- Aligned with OWASP Top Ten
- Uses STRIDE threat identification methodology
- Aligned to MITRE ATT&CK framework
- Architectural Data Flow Diagram
- Detailed report

Core Benefits

- Better understand the specific attack surface
- Identify new potential threat vectors
- Save money by identifying issues before any coding takes place
- Avoid expensive post-deployment re-coding
- Discover design issues that code reviews and conventional testing methods might miss
- Incorporate security by design
- Ensure adherence to compliance standards
- Use output to create more targeted testing & code review

How we work with you



High-level application understanding

Application identification
Define common usage
Define user roles
Technologies used

Decompose application & threat analysis

Construct data flow diagrams
Threat identification
Risk determination
Calculate risk

Attack surface analysis & mitigation

Attack kill chain
(Attack Centric + Defence Centric)
Propose mitigations

Why Claranet Cyber Security

Claranet Cyber Security is the global cybersecurity services division within Claranet, bringing together 1,500 technical experts and 75 pentesters under a 25+ year legacy that includes work with FTSE250 Fortune 500 global customers.

We are a founding member of CREST and a leader in ISG's Provider Lens™ for both "Cybersecurity – Solutions & Services" and "Public Cloud – Solutions and Services" (2021). We are also a leading training provider at Black Hat across the world, as well as Check Point, Nano, Rapid7, and QA.

One of only a few MSPs to achieve the highest partner accreditation status with Microsoft, AWS, and Google, Claranet is recognised as a leader in Gartner's Magic Quadrant and a market leader in cybersecurity.

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