



Necessary Security

When It's Necessary!

Threat Modeling Advisory Service
(TMAS)

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At Necessary Security LLC, we understand the critical importance of threat modeling in today's cybersecurity landscape. Threat modeling is not just a technical exercise; it's a strategic approach to identifying and mitigating potential security threats across the entire software development lifecycle, inclusive of all infrastructure, cloud, and process. Our TMAS provides a comprehensive approach to building, developing, and optimizing all aspects of a threat modeling program. This is not about just implementing a tool or even the threat modeling process. The TMAS is designed to include the six dimensions of the Necessary Security LLC., Threat Modeling Maturity Assessment (TMMA) so that a complete and appropriately leveled program is in place to support the threat modeling work itself.

Overview:

For customers this is an opportunity to get access to industry thought leaders and expert practitioners for fractional time and cost commitment. The TMAS delivers pre-packaged material that is designed to create and increase a threat modeling program based on the six dimensions and assessed as part of our Threat Modeling Maturity Assessment offering.

The Advisory Service is meant to be the delivery of prescriptive and focused work that the customer identifies as priority. The customer can pick and choose the path and level they want to achieve as this is a value-add service and not an audit or compliance exercise.

Key Offerings:

The Advisory Service will provide prescriptive guidance to enable growth and capability across the six (6) dimensions identified and scored during the (TMMA).

1. With each dimension of the TMMA a current score and future score are identified and a prescriptive roadmap is created for each customer to achieve the future score.
2. The customer will prioritize the order of work to be performed from the prescribed roadmap and set the time frame. This choose your own adventure style approach will be a collaborative process with Necessary Security LLC. to ensure goals are achieved and
3. Necessary Security LLC. will provide the resources to perform the work in partnership with the customer assigned resources to enable strong sense of ownership and consultant lead work to ensure quality and consistency.



The Advisory Service can also operate as a customized SOW delivery around Threat Modeling training, Staff Augmentation (Threat Modeler/ TM Manager), and executive coaching.

Example Content:

The advisory service will have many specific artifacts that demonstrate placement for each level zero to 5 (0-5). In aggregate these artifacts measure the overall progression towards scores (e.g. moving customers from 0>1 and 1>2 etc...). If there are twenty (20) tasks for a dimension at level two (2) and only eighteen (18) are complete then the score remains at level two (2).

Capability: For the capability dimension some example delivery artifacts are:

1. Creation or modification of Threat Modeling Process Control Manual
2. Creation or modification of Threat Modeling Policy/Standard
3. Introduction of new Threat Modeling techniques like AI/ML and the tasks associated with maturing to that level capability

Integration: For the Integration dimension some example delivery artifacts are:

1. Identification of process and tooling that is part of the overall Architecture, Engineering, Development, and Risk and Controls capability.
2. Create integration with all tooling and processes with the threat modeling process control manual steps as documented.

Scoring System

The Threat Modeling Maturity Assessment scoring system delineates the progression of an organization's threat modeling program measured by six (6) dimensions¹. Each dimension is given a score ranging from "No TM program exists" or zero (0) to "Optimized" or five (5).

Each category corresponds to a specific score ranging from 0 to 5, reflecting the organization's level of maturity in threat modeling practices according to the Necessary Security Scoring System.

¹ Dimensions are defined [here](#)

Overall, the Threat Modeling Maturity scoring system provides organizations with a framework for measuring and improving their threat modeling program. By understanding their current level in each dimension using a common language approach, Necessary Security and the customer can more easily identify areas for improvement and prioritize work in the roadmap created during the Threat Modeling Maturity Assessment delivery.

Score: Represents the numeric value for each dimension of the organization's threat modeling program, ranging from zero (0) to five (5). A score is assigned to each of the six (6) dimensions.

Dimension:

Maturity: Describes the stage of maturity in threat modeling practices, from the absence of a program to highly mature and optimized processes.

Capability: Describes the organization's capability to conduct threat modeling, including the level of documentation, integration with other processes, and use of tools and automation.

Automation: Reflects the organization's level of automation in threat modeling processes, including orchestration, decision-making capabilities, and integration with other tools and processes.

Integration: Highlights the integration of threat modeling processes with other organizational processes, including tooling, data sharing, and reporting.

Coverage: Refers to the extent of coverage in threat modeling efforts, including the definition of coverage, alignment with policy and standards, and scope of technology solutions.

Metrics: Describes the organization's use of metrics to measure and track threat modeling effectiveness, including the definition of metrics, integration with other reporting functions, and participation in regulatory meetings and executive-level reporting.

Conclusion:

Threat modeling is a cornerstone of effective cybersecurity risk management. With Necessary Security LLC's Threat Modeling Advisory Service, organizations can implement changes and grow capability of their teams, partners, and overall program with the knowledge and skills needed to meet internal and external requirements at scale and maturity. Led by industry professionals with extensive experience in threat modeling, our Advisory service offers custom and prescriptive guidance via a roadmap approach to align to enterprise budget and resource planning cycles..

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